JOURNAL OF THE MUSICAL BOX SOCIETY OF GREAT BRITAIN

# MUSIC ROX

a magazine of mechanical music





Vol. 4 No. 6

# GREAT BRITAIN'S PREMIER MECHANICAL MUSIC SPECIALIST

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# THE MUSIC BOX

# THE JOURNAL OF THE MUSICAL BOX SOCIETY OF GREAT BRITAIN

Vol. 4 Number 6 SUMMER 1970
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# The Editor writes:

IT WAS OBVIOUS during the A.G.M. held in May that there is, in some quarters, a growing feeling of disquietude over the manner is which the Society is being run. This was highlighted by the announcement that there were vacancies on the Executive Committee for which the Members had not been allowed time, under the terms of the Constitution, to render nominations. Our President came in for a certain amount of harangueing and harassment on this point.

As was stated at the Meeting, this state of affairs arose because of resignations which ocurred within the six-week advisory period and over which the Committee could exercise no control. was thus all the more unfortunate that the serving officers of the Society should have come Quite obviously, this is your under attack. Society and, in return for your yearly subscription, you expect a certain standard of conduct from the honourary officers of the At the same time, we should all remember that those who serve at the helm have the interests of the Society at least as much in mind as have the ordinary Members. There are no paid staff who might be accused of misplaced ideals - we are all fundamentally equal enthusiasts (and this, I like to think, goes for most of the musical box dealers as well) with equal interests - and, perhaps, failings.

However, because there is, so we are told, no smoke without fire, a special meeting of the Committee was held recently to discuss in depth all the points raised at the A.G.M. As a result, certain changes are being considered, among them the revision of the six-week rule and the publication of requests for advance nominations in THE MUSIC BOX. Secretary Reg Waylett will shortly advise Members of any changes suggested along with the possibility of holding an Extraordinary General Meeting in conjunction with our Winter Meeting in order to consider changes to the Constitution.

ARTHUR W.J.G. ORD-HUME



"De Blauwe Trommel". Note the three-wheeled chassis powered by a 7 h.p. JLO engine driving the front wheel. The organ, of course, is hand-turned.

# STREET ORGANS

# IN

# **AMSTERDAM**

By Arthur W. J. G. Ord-Hume

HOSE FAMILIAR with Amsterdam return home starry-eyed with tales of the beauties of the canals, the old town where the word 'vertical' (if one can judge by the angles at which the buildings lean) seems to have been an architecturally dirty word, and the Rijks Museum. Others rave about the street organs, known to the Dutchman as the Draai Orgels and to the Amsterdamians (can that be right?) as the Pierement,

Faced with the task of attending a large conference in the Dutch capital, I recalled these tales and decided to seek first of all some time for a draai orgel seeing tour - and then to seek the draai orgels. Initially, my free time was late in the evenings when all self-respecting draai orgels could be expected to have their reservoirs empty and their facades covered up. I used these opportunities to quiz all those who I met, always starting with the traditional opening gambit of the inveterate English gentleman when let loose abroad- "Do you speak English?" Fortunately for me, almost everybody speaks either good English or knows enough to get by with using suitable complementary gestures. "Oh yes", they chuckled. "De orgels!" they smirked. "They are everywhere" adding a suitable, all-encompassing gesture. Needless to say, the orgels were not. The landlord of the "Blue Bell" pub said "Yes, go down such-and-such straat between nine and ten and you'll see them". The taxi driver said "They are around the so-and-so gracht between noon and teatime". The policeman eyed me curiously, "Draai orgels? Why do you want to see them?"

My chance came — a free morning. I haired off into the middle of Amsterdam with great enthusiasm, feeling not a little like a Christmas tree the night before Yuletide for I was heavy with cameras, tape recorder and bags.

I walked the miles across the city (it's even more impressive if you translate it into kilometres!), exploring all the straats, the 'wegs and the grachten (plural of gracht which means



canal). I did find two orgels cossetted in their tarpaulin nightdresses parked by the side of the Keisers Gracht. Now to the uninitiated, a draai orgel in a tightly-sewn, dirty brown cover is unrecognisable. To the rabid enthusiast, the sight of that shape on a three-wheeled cart is nevertheless unmistakable — draai orgel! But there is no shy virgin who guards her charms more securely and is tighter laced and covered up than a slumbering draai orgel and examination of these revealed not even a chink of carved ankle.

I carried on walking, my feet feeling decidedly unwilling to prolong the exercise much longer. It was now 10.0 and there had not been so much as a smell of a live draai orgel. Dejectedly, I walked past the moored canal buses and decided that I would make for the nearest street bar, have a glass of draught Dutch Beer (and good it is, too!) and then head back to my hotel – a grey concrete and glass wonder on the outskirts of town, erected, no doubt, as a phallic gesture to some noted anti-Dutchman. My illusions of Amsterdam were shattered. I felt as if I had just been told a story about a Dutch miller who had broken his arm because his windmill had backfired whilst he was swinging the sails to start it up.

Now, when I am abroad, I adopt a system of behaviour which is best summed up as the passive, conformative defensive. This works on the principle that if you are inescapably faced with the discovery that you are a temporary foreigner, then you must make an effort not to let is show. If the natives spit in the gutter, then you should nonchalantly do likewise. But the whole business is really important when crossing the road. Pedestrian crossings in Rome, for example, are nothing more than selected areas of highway where the motorist can be sure of getting more pedestrians for minimum effort. The secret lies in going with the masses and it is necessary if you want to survive. If you want to get across the road, find somebody else who's got

the same idea, stand next to him and do what he does. I've always done this even if only because there's a measure of safety in numbers and in a foreign city you never quite know from which direction the next trolley car, scooter or corrugated tin motor car is likely to come.

This time, though, I forgot. I stepped off the kerb – and was suddenly on the receiving end of a high-pitched blast on a motor horn. I did a mid-air back somersault, leapt for the safety of the nearest railings – and turned to see the fate I had just missed so narrowly.

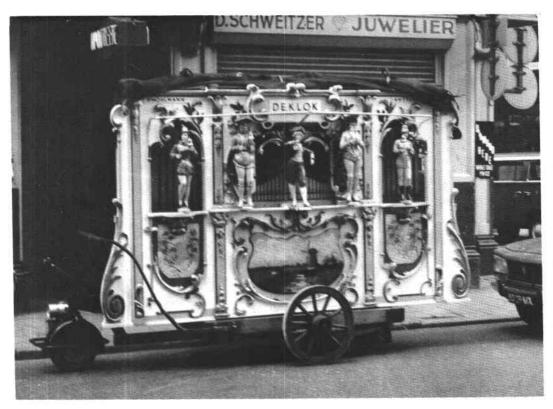
I had just missed being run over by a draai orgel.

There on a three-wheeled cart powered by a tiny petrol engine which appeared to have been culled from a lawnmower whilst its owner was away probably clipping his hedge — there was a beautiful street organ. The entire assembly was moving under its own power controlled by two men who sat huddled close together on a little box betwixt orgel and motor-driven front wheel. The traffic lights had changed to red, so I had the opportunity to talk

to my erstwhile assassins. I said I would like to hear the organ and they indicated a spot further down the gracht where they would play. I pursued the somewhat incongruous caravan to the appointed spot where the two dismounted, backed the organ into a place outside a cafe — and proceeded to introduce me to the organ in a less potentially painful way. The organ was De Blauwe Trommel hired from one of the two big Amsterdam agents, D. Mohlmann, and these two men had had regular charge of it for nine years. It played 62 keys.

The gramophone records of these instruments do not really do them justice and the true beauty of their sound is, I believe, best brought out in what is their natural surroundings — the traffic and the hurly-burly of city life. After suitable entertainment, rewarded in the expected and accepted manner, I headed off, content with having found at least one orgel.

But as I set off back to the Dam, I heard more music and to my surprise and delight found that each corner of the formerly deserted square now sported a *draai orgel*. The nearest one was



"De Klok", the trailer being fitted with handles for pushing, and a front-wheel motor for driving. Details of the organ and its team are also shown at the top of page 363, the upper pictures on page 365 and the lower one on page 366





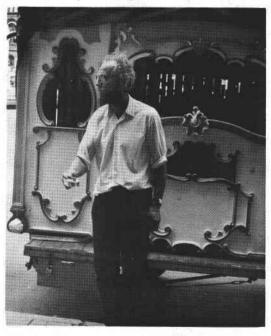
none other than the famous *De Klok* with its renowned four carved bellringers on the front which together beat time with the music. This organ was built in 1927 and has 56 keys.

Draai orgel operations are normally carried out by a team of two men. The first has the task of turning the large handwheel at the back which sets in first has the task of turning the large handwheel at the back which sets in motion the which sets in motion the whole mechanism, whilst the second one - the manser rattles his little oval tin to exhort small change from the passers-by. This little tin is an interesting accessory and they all seem to be the same. It is in the form of a highly-polished sardine tin with a tin-mug-type handle at one end. The top half of the sardine tin top is open and the lower half closed. This enables cash to be inserted and the tin rattled invitingly in time with the music without fear of the hard-earned cents being brodcast like seeds to the winds. To those for who his antics and entreaties for cash are anathema, he is known not so much as a manser but under the less polite term of bietser.

Across the square was a Gossling organ — The Ship — which was operated by one man who, I could not help feeling, was cheating rather. His organ was driven not by the muscles of a stijldraaier — an artistic handle-turner — but the duties of a not-somute mate were being performed for him by a small petrol engine driving a large pulley through a length of flat belting. Although the organ played well, it was nowhere near so attractive or so brightly decorated as the others and, alas, its manser displayed similar outward signs of neglect.

Just around the corner was a truly brilliant organ, De Carillon, again operated by a petrol engine and one man — a bearded, bespectacled fellow of great character who clowned hard for his cents and the occasional guilder. This organ, which the manser wrote down for me was made by Burssens and had 56 keys (although de Waard says 64!), had a most endearing register reminiscent of a German piccolo. My enquiries on this resulted in my being taken round to the back of the organ and allowed to insert my head into the works, perilously

close to that belt-driven pulley, to see three rows of small, large scale wooden pipes which produced this tone and thus gave the organ its name.

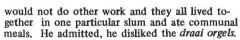


Thus had to end my draai orgel jaunt, although I did go out to 119 Westerstraat and peer through the glass in the tall doors of Gijs Perlee's famous rental establishment. It was, though, closed when I called.

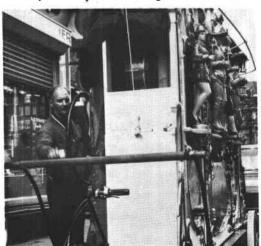
My taxi driver told me "These men can earn up to 400 guilders a day". At eight-and-a-bit to the pound, that's not bad money. Estimates as to the numbers of organs to be found on the streets varied from 15 to 30 and I saw at least seven in a short space of time. Another informant advised that the organ operators were all "men with no merit" who

"The Carillon" and its clowning manser. He is also seen on page 365, bottom picture. The organ is driven by a small petrol engine.





A friendly Dutchman proffered the information that all the organs were licensed by the civic authorities, that the licence was renewable annually for the price of a few guilder and that





although some of the operators owned thier own organs and were thus able to make a good living, most had to pay a high rental for their machines and that was a different proposition. The law says that the organs must not spend too long in one place and every half hour or so, they move on a few hundred yards. It was easy to see, though, that places for playing music at were not selected in any haphazard fashion and that every team had its own 'beat' which was, I have no doubt, guarded jealously. I had already quizzed one operator why there was a box at each end of the organ on its fraillooking cart. "In one end", said the manser, "there is food for the organ and in the other there is food for us!" He demonstrated the books of music at the back and the sandwiches at the other end. . . .

At Schiphol Airport for the flight back, my Dutch colleague said he hoped that I had enjoyed my stay and that I had not missed seeing the Oude Zijds Achterburg Wal in the old city where the girls sit in cunningly-lit windows and invite further inspection from passing men. "Most of the unaccompanied men", said my friend in one of those confidential whispers that can be heard a mile off, "spend all their money there". "Really" I countered. Somehow, though, I did not think it would have been right for me to tell him that I had spent all my spare cash on listening to the draai orgels.





By no means as brightly-painted and as attractive as the other organs, "The Ship" produced very good music, although slightly out of tune. The manser stands in front holding his collecting tin. All organs have tarpaulin tops to lower when it rains. Mostly these are found well-furled at the top of the instrument. Some operators, though, are not energetic enough......

# Expression by Machinery.

By J. SWINBURNE.

IT has often been said lately that though the mechanical piano exists it will never be possible to have the violinola,—unless it is only a kind of soap. This is not so. I remember wandering about the Paris Exposition of 1878, and being surprised at the sound of a string quartet among the pianos. On going to where the sound came from, I found a man producing this music with a keyed instrument; but he was not playing the music in French. I must digress to explain what I mean by playing in French. In 1878 the crime of producing everything tremolo was especially French. All the singers sang tremolo and every instrument that could play tremolo did so; even the cors de chasse played in this hysterical way. The tremolo microbe got out all over the world, and everybody sings tremolo now and plays tremolo when he can; so playing in French has, in 1904, no distinct meaning. Perhaps if I talked of playing with expression it would be clearer, for tremolo performers are always said to perform with so much expression. Well, the Frenchman was not playing in French; he was playing without expression in this sense. The instrument was like a piano, except that each string, at the point where it would be struck in a piano, had a piece of catgut attached, sticking out at right angles to the string. Each tag of catgut passed between two little rollers, so as not to touch either normally. There were thus two little rollers for each note: they were rotated continuously by a pedal. On pressing a key, the corresponding rollers were brought together on the tag, and as they were resined the string gave the characteristic tone of the violin. The harder the key was pressed the louder the note. No doubt the speed of the rollers also affected the tone and loudness.

Now a piano engine could certainly play this contrivance, so not only would we have a fiddling machine but we would have a viola and a 'cello one at' the same time. But could such a machine give the main characteristics of the hand played viol? The solo violin normally plays very rapid music, and no violinist can conscientiously perform music that he could

play; so he is always attempting something beyond his powers and is therefore always out of tune. I do not believe any human being could design a machine that could perform quite such exasperating gymnastics as an ordinary solo violinist. Certainly a violinist must play slow things occasionally, and he might easily play them in tune; but then he puts them out of tune by waggling his left linger on the string. This, and leaning his head on his fiddle, is the violinist's chief idea of expression! The 'cellist, however, revels in it. In order therefore to make the fiddling engine come up to the hand performer in the matter of expression, it must play fast music out of tune and slow music tremolo (or rather with wobbly intonation). Now it would not be difficult to arrange a mechanism like that connected with harp pedals which would put the machine out of tune for brilliant virtuoso music. By vibrating this mechanism rapidly a tremolo should be obtainable which would give all the expression the most hysterical 'cellist could desire. There is thus no real difficulty in making a fairly successful fiddle engine that would be just as deleterious as the hand worked counterpart.

As to the piano machines, we are all familiar with them. The pianist does not play tremolo, perhaps because he cannot. If the pianist is a lady, he can put the bass of his chords down before the treble and produce what the Germans call the "ladies' arpeggio," and the piano machine can do this just as well. Musicians complain that phrasing is impossible on the piano engine, but that does not seem to matter to the engine drivers. They can make the whole louder or softer, and they say that is expression. Look at the advertisements of the engine builders. One builder gives "all the expression of which the player (sic) is capable!" Another affords "unlimited expression." No

Another affords "unlimited expression." No doubt you pull the expression lever hard over and run for your life.!

A piano engine was erected in our court this spring. It pounds out the desecrated bones of Chopin's works at all sorts of queer speeds; but it is terrific in the overture to "Tannhäuser," with the Pilgrims' March in the

tenor as an inaudible accompaniment to the deafening percussion of the strings in triplets in the treble. I went off to the country; but no one would rent my house. Since then I see from the papers that a couple of horses, without any apparent motive, suddenly started off and went down an area at the end, with the carriage on the top of them. No doubt the explanation is that they heard the Walkyries' wild horses cantering about on the pianotist with gusts instead of with accents. No artistic horse could stand that!

It has often been said that the organ has no expression. It is curious that, though an organ engine can do everything an organist does (including accenting a note by clipping the one in front) and can control the swell pedal and the stops just as well as he can, the organ engine is hardly known in England. In America it is more common; the St. Louis organ, for instance, is to have one. Perhaps it is because the organ has no power of expression that the organ engine is not common: it might be because organists are so often musicians. The want of expression of the organ is easily remedied. The chief means of expression is, of course, the tremolo. Many organs have a tremulant on the swell or solo, but it is not used nearly enough. What is wanted is a tremulant which acts on the whole organ—full great and pedals and everything—and cannot

be turned off. This would bring the organ down to the level of the human voice. The vox humana and tremulant is an attempt in that direction, which only reaches as low as a bleating goat and not quite so far down as a tenor. The application of the tremulant to the whole organ has not taken place yet, partly because an organist's taste is not like a singer's and partly because he knows he might get shot by a musician if he played on such an arrangement. But with an organ engine driven by a churchwarden, think what a paradise of hysterical expression the ladies of the congregation would enjoy! And surely nobody would shoot a churchwarden!

There is no difficulty in abolishing the solo violinist and solo 'cellist, as well as a pianist; and no end of expression can be provided by machinery. The organ engine is coming, and we have something further to look forward to. All the artistic results of these machines can be permanently recorded on the phonograph, whose only fault at present is that it does not make enough noise. Ingenious brains are engaged on the development of a stentorian

megahooter.

In the near future it is to be hoped that the orchestra will go, and we will have a complicated and noisy mechanism, all playing tremolo, driven by one of those steam things that work merry-go-rounds!

# Damaging a Polyphon.

AT the Marlborough Street Police Court, last month, Mr. C. If. Barham, a public house broker, of John Street, Bedford Row, was summoned before Mr. Denman for maliciously, wilfully, and unlawfully damaging a polyphon belonging to the New Polyphon Supply Co. (Lim.), of Oxford Street,

Mr. H. C. Biron, barrister, prosecuted; and Mr. Cecil A. Lumley, solicitor, appeared for the defence.

Mr. Biron, in opening the proceedings, said that the main object of the prosecution was to show that persons would not be allowed to damage the machines of the company with impunity. The company had a number of machines in various licensed houses in the metropolis, and it would therefore be readily seen how important it was to them that their instruments should not be tampered with.

Mr. WALTER COOMBE then deposed that on October 15th last he was in the "Carpenters' Arms," Whitfield Street, Tottenham Court Road, on behalf of the official receiver. While he was in the house the defendant, who was a public house broker, and who was acting on behalf of Miss Hicks, the lessee, came in. Mr. Barnum began to take stock on behalf of Miss Hicks. The polyphon in question was in the bar, and with the piece of iron produced and a mallet he broke the drawer of it open and abstracted the money from it, remarking as he did so,—"If any inquiry is made about this give them my name and address."

Cross examined.—Mr. Barham told him he had written to the Polyphon Company. He also told him that as the company had not called he felt bound to open the polyphon.

Mr. Sidney H. Dixon, secretary of the New Polyphon Company, Oxford Street, said he estimated the damage done at the minimum of two pounds. The persons who rented their machines were allowed twenty per cent. of the takings.

Mr. CECIL A. LUMLEY said his client was willing to pay for the damage done, and that the case was a frivolous one.

Mr. DENMAN said that he was not sitting in the court to protect the Polyphon Company, but to decide whether there was wilful damage, and whether the defendant thought that he was acting within his rights. Perhaps the parties might put their heads together and come to some arrangement.

The legal gentlemen concerned in the case then held a discussion in private, but were unable to come to any arrangement, it being eventually decided that the magistrate should deal with the matter.

Mr. DENMAN, in giving his decision, said that the view he took of the matter was this. Mr. Barham had committed an act which he could not justify, and by a wilful act had damaged this property illegally. Though he did not intend to do it for the purpose of damaging the company, he resorted to an act which he had no business to do. It came therefore, to a question of damage. The wood the machine was made of did not appear to be of a very valuable description, and the magistrate thought that a sovereign compensation would be sufficient, with three guineas costs.



Reproduced from "Musical Opinion" dated Ist December 1899 from the collection of The Editor.

From the museum at Tallinn, Estonia, comes this picture of an interesting automaton - The Boy with the Piglet. The complete piece stands 82 cm. high and the movements comprise: legs, eyelids, shoulders, mouth. At the same time, the piglet has motion of its head and tongue, Musical accompaniment is provided by a small combplaying movement 7 cm long and having 55 teeth.

HABRIQUE DE GENEVE		
Loiogoion Mandoline	6	
1 Rigoletto La Dona c mobile Verdi. 2 Le Songe d'une nuit d'été bouplets Shomas. 3 Ernani Cave Involani Verdi.		
Se Réveil des Oiseaux Solka Giroud.  5 Un ballo in Maschera. Tamo, vamo e lagrima		
5 Home sweet Home Sinclair	•	90

This unusual tune-sheet, submitted by Founder Member Frank S. Greenacre, comes from a semi-mandoline musical box of around 1870-1880. The interesting thing is that the "mandoline" offect, imitation or otherwise, is considerably better than the effects created by later boxes described as "mandoline".

# JOCELYN R WALKER WRITES ON CLEANING UP RUSTED MUSICAL BOX DISCS.

OME months ago I was fortunate enough to acquire a number of discs for the 19 5/8" Polyphon. This was an instrument that I much admired but which held only an imaginary place in my collection, as the only examples I ever seemed to come across were wrecks, not for sale or had only that morning been promised to someone else. So the discs which were covered with rust on both sides waited in patient silence in the garage to be called upon to do a tuneful turn at the drop of a penny.

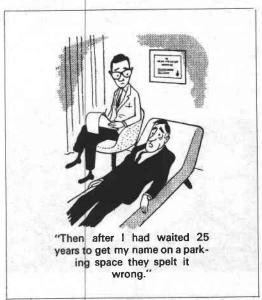
Happily imagination has since become reality and 'Poly' towers like a Victorian nursemaid over brood of little cylinder boxes gamboling around her skirts. With this machine came a further supply of discs, many of which were also in a sadly rusted condition.

My efforts at cleaning these were exhausting and fruitless. I brought various derusting products which only worked to a limited extent, usually creating more mess than they removed. In one case the discs needed to be immersed in a prepared solution. What does one put a 19 5/8" disc in - the bath being already full of coal? Dustbin lids are not big enough. I was given an oil drip-tray by a garage. This was made of plastic, a fact which I did not take into consideration when making up the mixture using boiling water. The sides promptly collapsed and the back yard was awash with hot acid and the surrounding atmosphere thick with evil

smells and even worse language. After this I abandoned all but a simple scrubbing with paraffin.

Further enquires and thoughts on rust removal brought me, at last, to a very satisfactory solution of the problem. A few minutes with the telephone directory and I was in conference with the manager of a small plating works. After some discussion I sent along a couple of discs for experimental work. These were dipped in what ever was required to completely de-rust them and then plated with cadmium. The result was not satisfactory; the discs being white and lustreless. Further trials with nickel plate proved to be excellent and as a result I have had all the rusty discs treated in this way. At ten shillings each it was a very good method of restoring to these tired old troopers a fair semblance of their youth.

Perhaps at some future date I shall complete the face-lift by retitling these discs with contact lettering perhaps!



# SOCIETY MEETING

The Provincial Meeting of the Musical Box Society of Great Britain was held at the Raven Hotel, Droitwich, Worcestershire, on Saturday, 14th March, 1970. Arrangements for the meeting were made by courtesy of our Member, Mr. A. J. L. Wright of Stourbridge. Thirty Members and guests were present.

The tail end of winter, with sleet and fog, was thought to be responsible for the rather poor attendance and it was suggested during the day that future provincial meetings might better be staged on a Sunday. This was discussed at the later Annual General Meeting in London (see report following).

After morning coffee, the meeting got under way with a question and answer panel under the chairmanship of President Bob Burnett. The smallness of the meeting provided an opportunity for this to be held as an informal discussion group. Among the many interesting tips which emanated from the panel of experts was the fact that rusted discs can be polished and restored to much of their former brilliance using Kiwi brown boot polish, this being the only brand which works.

Lunch was taken in the hotel, giving those present the chance to sample the very good food available at sensible prices in this charming old coaching house.

The afternoon session was devoted to a lecture, illustrated with slides and tape recordings, devoted to some unusual musical boxes. This was presented by Member Hugh Miles. After this, the formal meeting terminated and Members had the chance to examine the many boxes brought along for show. At 5.30, the meeting was concluded.



Jocelyn Walker plays his Olympia



An unusual musical photograph album – this one features a disc movement

The Summer Meeting and Annual Meeting of the Musical Box Society of Great Britain was held at the Great Western Royal Hotel, Paddington, London, W.2, on Saturday and Sunday, 16th and 17th May, 1970. More than one hundred Members and guests attended.

After morning coffee, the planned programme began with a talk by Richard Baines which, although entitled *Mechanical Prianos*, was devoted to the story of the book "Christie's Old Organ", by Mrs. O. F. Walton and published in 1882. Dick Baines had been fortunate enough to obtain lantern slides of the original illustrations for this book, which features an early portable street piano, and these he projected using a contemporary magic lantern. He also demonstrated a barrel piano made in Italy by Francesco Getto.

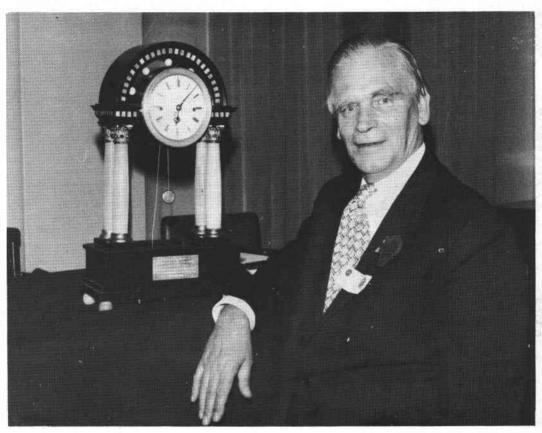
The luncheon interval followed, after which was held the Annual General Meeting. One of the items discussed was the holding of the Provincial Meetings on a Sunday rather than on a Saturday. This was voted out by a narrow majority and some doubt was expressed by the Committee as to whether it was worth holding out-of-town meetings if they were to be so poorly attended as was that at Droitwich. A second point for discussion concerned the discontinuing of the Associate grade of membership, it being explained that rising costs of overseas postage plus the cost of the Journal meant that at present Associate Members were actually costing more to service than U.K. Members, It was

therefore voted that this class of membership be abolished.

It was put forward, and unanimously adopted, that Member Henry A. J. Lawrence of Leamington Spa, whose recovery from his recent serious illness may take some while, be elected to Honourary Membership.

Member J. Rodrigues, it was announced, has kindly consented to act as Hon. Auditor to the Society. His services, it was agreed will be of great value to us and we are all most appreciative of his kind gesture.

Arthur Ord-Hume, Hon. Editor, re-affirmed that he was finding it increasingly difficult to devote







Cyril de Vere Green poses with his musical clock



Cyril and Bertha with flowers, clock and book

sufficient time and effort into continuing in office and, in offering his formal resignation, agreed to remain in office until a replacement acceptable to the Committee can be found.

In declaring the Officers of the Executive Committee for the coming year, it was revealed that a vacancy had occurred in the few weeks preceding the meeting. The Committee had co-opted Member Peter Ward to fill the vacancy created by the resignation from the Committee of Member Graham Webb, and the position of Vice-President remained

open. There was some strong critiscism from two Members concerning the fact that notice of these vacancies had not been given to Members in time for them to offer nominations. President Bob Burnett pointed out that, under Article 4, Section 4 for the Constitution, (the "six-week rule"), this had not been possible since the re-shuffle had come too close to the Meeting The issue was further complicated by the desire of Treasurer David Tallis to retire at an early date. The Committee agreed to re-examine the whole position regarding nominations with a view to the possible revision of this section of the Constitution.

Member Graham Webb, retiring from the Committee, was thanked most sincerely for his untiring and sincere efforts on our behalf which have included taking responsibility for mailing the Journal — no easy task.

Editor Arthur Ord-Hume, during his report on the year's progress with THE MUSIC BOX, introduced as his guest our new printer, Mr. Phil Hobbs, who attended the day's events.

Treasurer David Tallis presented a detailed financial statement showing the Society to have a balance in hand of £737.9.0.

Secretary Reg Waylett, in concluding the report of his first year in office, announced that the American Musical Box Society International was planning a visit to Europe next year and that accordingly we had arranged our Summer meeting for 1971 for Saturday and Sunday, 22nd and 23rd May in order to coincide with this event. Our American friends plan to be in England several days, leaving on 25th May for Amsterdam, Brussels, Switzerland and Paris, and our Secretary stated that it was hoped that Members of our Society would join the US party for this musical-box-orientated European tour. Several Members present immediately indicated their wish to participate in this.

After concluding the formal Annual General Meeting, it was announced that there was to be a further item in the afternoon's programme – the presentation to our founder and first secretary, Dr. Cyril de Vere Green, and his wife, Bertha. From a special subscription fund comprising donations from Members, the Society presented Cyril with an ornamental striking clock containing a musical movement having a sectional comb within its base. A list of contributing members, printed and bound in green with gilt lettering, was also presented to him whilst Bertha received a large bouquet of flowers.

Both Cyril and Bertha, in separately acknowledging their respective 'goodies', spoke of the immense pleasure which they had derived from the burgeoning years of the Society and how mechanical music had brough them into touch with so many fine new friends. literally all over the world.

Returning to the organised programme for the day, Member Graham Webb gave a most interesting talk on choosing a disc musical box which was well illustrated. He also played tape recordings of two newly-composed tunes which had just been trans-

cribed and 'issued' on Polyphon discs. Both pieces, set up for 19 5/8" disc size, were clearly virtuoso compositions designed to show off the capabilities of the instrument and it is interesting to compare these 1970 discs and their 1970 musical offerings with the Polyphon music of the 1890's for, with a few notable exceptions, no music was composed expressly for the instrument and thus it was used in its day as an interpreter of existing music rather than a vehicle for customised 'new' sounds.

Graham Webb's talk was followed by a question and answer panel under the chairmanship of Secretary Reg Waylett. The panel comprised Members Mike Gilbert, David Tallis, Cyril de Vere Green, Keith Harding and Freddy Hill. As usual, this feature proved both entertaining and useful.

This concluded the set programme for Saturday and members and guests spent the rest of the evening engaged in musibox collecty chattel. Due to the lack of support, it had been decided not to hold the usual Society dinner on this occasion.

The Sunday morning practical meeting began at 10.15 with a talk by Mr. Colyn Gates, a guest of Member Graham Webb, who delivered a fascinating practical demonstration of minor repairs, touching in and French polishing musical box cases. The facility with which he transformed a badly disfigured and uninteresting-looking box into an eye-catching work of art held the audience spellbound.

Following the coffee interval, Member David Tallis demonstrated, for the benefit of our newer Members, the correct way in which to dismantle and re-assemble a cylinder musical box. Since time was running short, David Tallis completed his task in what must surely be record time — under half an hour!

The final demonstration was by Member Arthur Ord-Hume who went through the various steps in recovering the bellows for mechanical organs. Using large sketches, a selection of bellows assemblies out of various organs and a range of materials and sundries, he, too, was "fighting the clock" but managed to show some of the skills needed in this specialist job.

The meeting concluded just after 1.0 p.m.

Pictures by Graham Webb and The Editor.

#### LATE ANNOUNCEMENT

Shortly after the A.G.M. reported above, Member David Shankland of Cardiff kindly offered to take on the duties of Hon. Treasurer. Accordingly, he has been co-opted on to the Executive Committee under Sections 3 and 5 of Article 6 of the Constitution. The Officers of the Committee are now as follows:

President: Robert Burnett Vice President: Office Open Secretary: Reginald Waylett Treasurer: David Shankland Editor: Arthur Ord-Hume Members: David Tallis Jocelyn Walker

Peter Ward
Auditor: John Rodrigues
(Note: All officers are honourary)

The following article appeared in the May, 1970, issue of MUSICAL OPINION. It generated correspondence which was published in the June and July editions. These pieces are reproduced here with grateful acknowledgement to MUSICAL OPINION.

# The Apollonicon—what was it?

By W. L. Sumner



Half a century ago a crossword puzzle in one of the London papers contained the clue: A chamber organ (11 letters), and this is how most of the dictionaries and encyclopædias of the time defined the Apollonicon. The *Encyclopædia Britannica* said that it was a harmonium, which it certainly was not. For "chamber" we should no doubt read "not-church"!

The Apollonicon was a large pipe organ which could be played both by barrels and a team of organists, though it was adapted later so that one skilful organist could give a reasonable account of much of its potentialities. It was intended to stand in the place of an orchestra. In the post-Waterloo period there were few good organists in England and money was not often forthcoming for musical activities. Many of the London church organists were women, and many country churches were happy to rely on "the music that goeth with a wheel", as the sounds of a barrel organ were called. The Apollonicon has been something of a mystery, but reference to various nine-teenth century publications enables us to grasp its nature.

It was built by Flight & Robson in their "rooms" in St. Martin's Lane, London and cost at least £10,000 initially, though more money was spent on it later. The firm was incorporated about the year 1800, and the partnership continued for nearly four decades. Benjamin Flight was then about 70 years old, but the business continued well into the 'fifties under the style of Joseph Robson & Son. The firm has never received its due acknowledgement in the history of organ-building: presumably because such giants as the Walkers, Hills and later, Willis were to stand astride the field in Britain. Thus, the great work of Flight, Nicholson and others hardly less worthy, has not been properly estimated. Before the extremes of romanticism had denuded the organ of proper chorus work and mutations. Flight & Robson were even making pedal mixtures. Their diapason choruses were bright and transparent; their flutes were of exquisite intonation and their reeds represented a high point in voicing both imitative and chorus ranks. Moreover, they were always inventing new mechanical devices, some of which went into the Apollonicon. The question of temperament, that is, of tuning the scale, was very much in the minds of both acousticians and practical instrument-makers at the time. The compromise of equal temperament tuning was disliked by many keyboard instrument-makers, whose ears were more sensitive to niceties of pitch than they would be today. Flight & Robson constructed a number of enharmonic organs, which could be played in the extreme keys with purer intervals than those which obtained with either the mean tone or equal temperament systems of tuning. Some of these were exhibited at the Great Exhibition in 1851. These, in spite of their ingenuity of design, could have little more than academic interest, because of the large number of keys and pipes for each octave and the consequent high cost, not to mention the difficulties of playing such instruments. Nevertheless, such experiments were worth undertaking, because, even today, sensitive ears soon become wearied of the dissonance of the major thirds of equal temperament, particularly on the organ, with its sustained tone.

The Apollonicon had six sound-boards which were known as scales, because of their respective compasses.

Scale I—This was a great organ of five octaves from GG 12 ft. (a fourth below the present lowest note): 1, Open Diapason (bold); 2, Open Diapason (delicate intonation); 3, Stopped Diapason; 4, Principal; 5, Twelfth; 6, Fifteenth; 7, Flute (4 ft. ?); 8, Sesquialtera III ranks; 9, Cornet (various); 10, Trumpet.

There were five keyboards, originally placed side by side for the same number of performers, and the great organ could be played from the central clavier. (Some accounts said that there were six players.)

Scale II was a pedal department which could also be played by the fingers. It was based on the Great Pedal Open GGGG 24 ft. I imagine that various modifications were made from time to time, both in the tonal and the mechanical parts of the instrument. The "Repertory of Patents", 1828 (Christopher Davy), mentions only this one pedal stop, but later accounts add a Bourdon and a reed stop. This Scale was played by a short cylinder which also controlled drums, cymbals, indeed "traps" of the cinema organ of the present century.

Scale III—This was a Swell organ of four octaves compass from "Gamut G": 1, Diapason Corni (Horn Diapason); 2, Stopped Diapason; 3, Violoncello; 4, German (Vienna) Flute (4 ft.); 5, Wood Fifteenth; 6, Trumpet.

Scale IV—Flute, Clarinet, Viola. Scale V—Flute, Oboe, Cornet.

Scale VI-Piccolo, Vox Humana, Bassoon,

Scales IV-VI were of three octaves compass from Fiddle G upwards and were in a Swell box.

The tunes were set on three barrels or cylinders: two were 8 ft. long by 2 ft. 2 ins. diameter and the third was 3 ft. 9 ins. long and was used for the "pedal" and drums, etc. The tunes were pinned spirally on the cylinders so that the barrels not only revolved but moved laterally. Nine revolutions, which gave a continuous line of 65 ft., "was found to be ample for the performance of the longest overture or symphony".

When the organ was played by five performers they sat at their little consoles, facing the audience. The player who commanded the great organ also had a pedal-board.

"At the first opening of the Apollonicon, in 1817, the pieces set on its barrels were the overtures to Anacreon and Clemenza di Tito. Since then, new sets of cylinders have been added containing the overtures to Prometheus, Zauberflöte, Figaro, Idomeneo, Freischütz and Oberon. For several years Mr. Purkiss, who first displayed its powers in 1817, has performed selections on it on Saturdays."

Fétis, the well-known French musicologist and critic, who heard Samuel Wesley play on it in 1829, wrote that it was the best organ which he had heard in England and said that the builders had used in it certain contrivances unknown before. The chief of these was a "double-acting" device, a "Maltese" cross movement, a precursor of the poppet-pedal. The stop combinations were controlled from pins in the cylinders. A pin would bring on a stop and an identical movement from another would take it off. Steam power was used for blowing and rotating the barrels but it proved unreliable and usually this was done by man power, but the whole action of the instrument was a remarkable feat for the same decade as the Battle of Waterloo. The instrument made a deep impression on all who heard it. It is said that W. T. Best, then organist at St. Martin in the Fields, near to the Apollonicon rooms in the later days of the organ, strove in his solo playing to imitate its orchestral potentialities. Certainly he followed closely the ingenuity by which orchestral scores were "realised" on its barrels.

I remember Somers Clarke, the former Surveyor of the Fabric of St. Paul's Cathedral, telling me in the early 'twenties how the Apollonicon had made a profound impression on him in his youth. The instrument had been lent to the Colosseum, then a large building for the display of Panoramas-precursors of the travel film-in Regent's Park. "The organ was not visible. First very pleasant music prepared the audience for the raising of the curtain. Calmness and repose. We saw the bosom of the Tagus and a lovely sunrise. Calamity was not far off. The sky began to darken, the music changed and its quality became agitated. At last a horrible black darkness closed in upon us. We and the whole building trembled, the Apollonicon screamed, raved and bellowed. The music changed and became more comforting, the light increased and we saw before us the terrible picture of Lisbon in ruins. Whilst this miserable scene was before us the music was skilfully changed in its quality; a calm was spread over the audience and there was conveyed to the mind that strange sense that, while poor little mankind may be utterly overthrown, the great calm of Nature resumes its sway.

The Apollonicon, failing to pay its way, was broken up in the late 'forties and its materials found their way into other organs. Abdy Williams, the author of *The story of the Organ*, suggested, in a letter written to *The Organ* in 1922, that the organ in Boldre Church in the New Forest contained some of the pipe-work.

It would seem that since the original Apollonicon was so successful, various other barrel-organs were subsequently given this name. The Colosseum organ was described as "new and large", and some accounts give Bevington as the builder. Mr. Arthur W. J. G. Ord Hume, than whom there is no greater authority on the matter, has kindly pointed out to me that, in the publicity for the 1851 Exhibition, there is mention of a Flight & Robson Apollonicon giving regular evening concerts in the Strand.

Further, at least two, and I suspect more, smaller models were made for private residences; and, when Webster's Music Hall was re-opened in Holborn in 1868 as the Royal Music Hall, the concert bills showed performances by the "great mechanical" Apollonicon.

# Letters to the Editor

#### THE APOLLONICON

SIR,—I was most interested to read in the May issue of *Musical Opinion* the article by Dr. Sumner on the Apollonicon. Last year my firm rebuilt the old Robson organ in Jesus Christ, Forty Hill, Enfield, and during the dismantling certain things came to light which led me to believe that some of the Great organ and possibly the Pedal Bourdon may have come from the 1817 Apollonicon.

While on the subject of player organs, readers may be interested to know of the Welte instrument which originally stood for many years in the music department of Harrods store. When the music department was moved to the third floor, the organ was sold to an Indian Maharajah who later cancelled his purchase because he thought that cowhide had been used for the bellows. In 1932 a wealthy doctor purchased the organ and presented it to Clementswood Baptist Church, Ilford, where it was installed minus its player action, although some parts of this are still tucked in odd corners of the instrument. Its frightful specification consisted of a Swell of 11 stops, nine of which are of 8 ft. pitch, a Great of 10, six at 8 ft., and a Pedal organ of six independent ranks. This organ is to be rebuilt later this year when a few ranks of pipes from both Swell and Great will be used again for part of the Swell together with new upperwork. The Great organ will be new to the instrument. An illustrated article about this instrument recently appeared in the American BRIAN H. BUNTING. magazine The Console.

Epping, Essex, May 11th, 1970.

#### THE APOLLONICON

SIR,—I was interested to read W. L. Sumner's notes on the Apollonicon (Musical Opinion, p. 433), and, having spent some four years in the quest of details of the organs which bore this name, I would offer a little extra information in order that many past errors of omission and commission regarding the Flight & Robson instrument might be perpetuated no further.

John Purkis, the blind organist (organist at 101 St. Martin's Lane for 21 years and also of St. Peter's, Walworth, who died at the age of 68 on April 10th, 1849), assisted Flight & Robson (partnership founded in 1805) in the tonal design of a barrel-and-finger organ for the Earl of Kirkwall in 1807. Joseph Robson fitted this chamber organ with his then newly-invented and patented combination panels and the instrument featured the triple stack slider, twin-pallet chest invented by Benjamin Flight, Snr. In this system, the stops were each controlled by three superimposed stop slides. Whatever mode of operation the organ was performing under, two of these slides were always aligned with the opening in the chest, the third one cutting off admission through the upper board. One slide was controlled by Robson's pedals, the second by the normal action of the draw-stops and the third by the stop selection mechanism operated by special barrel pins. Of the double pallets, one was worked by the barrel mechanism and the second by the normal keyboard action.

Encouraged by the success of the Kirkwall instrument (upon which Flight himself played at the opening ceremony), the makers, again in co-operation with Purkis, conceived the biggest barrel-and-finger organ ever built—the Apollonicon. This was opened in 1817 under the patronage of the Prince Regent with a band of organists under Thomas Adam. Each recital was preceded by the mechanical rendition of a piece of music via the barrels. Following application to the Lord Chamberlain for a licence, Saturday (and later mid-week) "pop" concerts were given by Purkis.

The instrument was modified in 1829 in order that it might perform the overture *Oberon* and a separate echo organ was constructed and attached outside the main case. In all cases, all the music played mechanically by the Apollonicon was pinned by John Flight, Jnr., using an instrument which he invented and justly named a micrometer. Drawings and details of this device survive.

A smaller, three-console Apollonicon was demonstrated at 101 St. Martin's Lane in 1832 prior to its installation at the home of a baronet in the West Country.

Due to the enormous cost of the many lavish presentations made by the makers, the partnership failed in 1832 and the entire works and stock (including the Apollonicon) plus the premises came under the auctioneer's hammer in November of that year. The sale was, it seems, a political move on the part of Robson, for he successfully reacquired all the business and continued it as before, leaving Flight to re-establish his business on his own in King William Street, Strand (where, incidentally, he was subsequently given the job of disposing of Cummings's great "hydraulic machine organ" constructed for the Earl of Bute).

The lease of 101 St. Martin's Lane expired in 1845 at which time the Apollonicon was dismantled and re-erected at the Music Hall in the Strand where it was performing in 1851. Gregoir subsequently wrote, in 1865, "Cet instrument est aujourd'hui dans un délabrement complet".

The instrument was subsequently acquired by Hill, who extensively rebuilt it and did, in fact, provide the sixth desk (the confusion over the number of soundboards and the number of organists who could play the Apollonicon at

one time is legion!). In this condition, it was installed in the Royal Music Hall, Lowther Arcade (off the Strand), in 1868.

A point which should be made clear is that the Flight & Robson Apollonicon never moved away from the immediate area of its original construction until after 1868.

The instrument, which made a brief appearance in 1848 at the Royal Cyclorama adjoining the Colosseum in Albany Street, Regent's Park, was a totally different organ—probably better described as the theatre organ of its day—and was built expressly for the Colosseum by Bevington. It was played by a Mr. H. W. A. Beale. It may have been due to the failure of Horner's enterprise so soon after its opening which resulted in the makers re-possessing their Apollonicon because, when the building was reopened by Dr. Bachhoffner in 1857, the organ had gone and was replaced by "a Patent Grand Harmonium by Pilcher of Great Portland Street".

The Bevington organ disappeared without trace and I have been unsuccessful in tracing where it went. The only positive description of it survives in Hamilton's Catechism of the Organ, from which it seems certain that, although this organ could be played upon by six organists at once (as the subsequent Hill-reworked Flight & Robson Apollonicon), it was not designed as a mechanically-operated concert organ.

The Flight & Robson Apollonicon is, it is believed, still in existence although it has been drastically modified, re-cased and no longer contains its mechanical mechanisms. I must be excused from dwelling further on this until I have had the opportunity to investigate the organ in detail to confirm or disprove this information provided by a kindly informer.

The full details of all these organs, together with detailed drawings of the original Flight & Robson Apollonicon and John Flight's Micrometer are to be published in my book, The History of the Mechanical Organ, due to be published next year by George Allen & Unwin Ltd.

In conclusion, I would like to comment on the remarks of my good friend Noel Mander (Musical Opinion, p. 445). An editor needs to know as much (at least) as his contributors. If he meets this requirement, then he can probably find more lucrative things to do than just being an editor! I will agree, though, that the number of people who are knowledgeable enough to take an interest in the organ and to write about it seems to be diminishing. As one who has built three small mechanical organs and restored rather a lot of barrel organs, player organs and flute-playing clocks, I consider myself to be nothing more illustrious than an enthusiastic amateur and would remind those novices who aspire to awarding themselves higher titles that just to voice a rank of pipes takes years of practice and skill. They might be better off starting with piano-tuning. It takes only eight years, so I have been told, to become a top-grade wire-tightener.

ARTHUR W. J. G. ORD-HUME.

London, W.4, May 14th, 1970.

form reproduces faithfully even the interpretation of a talented artist. Its performances are surely worthy of being called wonderful. But what word, asks our writer, shall we find for this new instrument, which associates the violin and the piano?

VIOLINA III

VIOLINA; FULL VIEW.

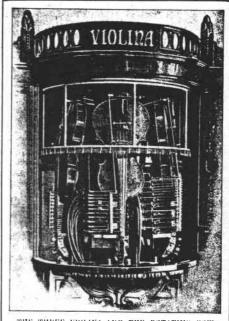
The violin, if we are to believe those who play it, is the most difficult of musical instruments—that which requires from the player the finest ear, the most skilful manipulation, and the greatest musical sensibility. How can it be that these qualities may be obtained from a mechanism—no matter how complex and ingenious? Mr. Troller answers:

"The results given by the 'Violina,' which is the instrument's name, are really surprizing; an ample and varied tone, perfect modulation, without leaps or shocks, and all the accustomed effects of the violin.

"We are not prepared to say that to hear the 'Violina' is the same as to listen to a virtuoso; the emotions that it evokes are not, and can not be, so deep; but they are still of a high artistic quality, and it is to be hoped that the mechanical violin may rid us forthwith of all our mediocre performers.

"The mechanical piano, as is well known, depends essentially on the following arrangement—a roll of paper, properly perforated, turns before the openings of a series of tubes, connected with a reservoir of slightly comprest air. The air that is allowed to pass through the perforations in the paper enters the tubes, which conduct it to what are practically so many little comprest-air motors, actuating the hammers of the piano.

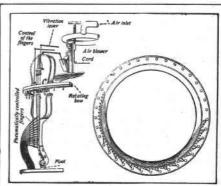
"In the 'Violina' the mechanical principle is the same pneumatic control of all the movable organs, regulated by means of a roll of perforated paper. But there can be no question . . . of causing the strings of the violin to vibrate by means of an ordinary bow. The solution found by the inventors of the 'Violina' is of remarkable originality; it constitutes the essential



THE THREE VIOLINS AND THE ROTATING BOW,

novelty of the instrument. The bow of the 'Violina' is formed, as our figure shows, of numerous fibers stretched on a movable horizontal circle. As it would be difficult to act simultaneously on the four strings of a single violin, it was decided to use a group of three violins, each having only one active string.

"The circular bow turns, and its speed, sometimes retarded, sometimes accelerated, is controlled by one of the little comprest-air motors of which we have spoken. Ordinary violins, whose stems are hinged on pivots, are prest against the turning bow, and the pressure of contact corresponds to the intensity of the sound that is to be obtained. Movable fingers, actuated



THE VIOLIN AND ITS PNEUMATIC CONTROL.

Continued in lower right-hand column of facing page

These two articles appeared in THE LITERARY DIGEST - that on the left on August 17th, 1912, and that below on July 27th of the same year. From the collection of The Editor.

#### PHOTOGRAPHING MUSIC

10 RECORD the performance of a pianist in such a way that it may be reproduced at will with all its peculiarities and individualities-to make a record, in short, that will turn the mechanical player with which it is used into a Paderewski or a Joseffy-if either of them officiated when the record was formed—this is the feat that has been successfully accomplished, we are told, by Melville Clark, of Chicago. Robert H. Moulton, who writes of it in The Technical World (Chicago, July), tells us that many of the ablest minds in the commercial field of music have been turned to the solution of this problem—that of devising a means for the making of music that shall be an actual and permanent record of a performance, instead of a mere musical score, and have pronounced it an impossibility. He goes on:

"There is a man in Chicago, however, Melville Clark, for whom the word impossible has never held terrors. So he quietly set to work a couple of years ago, convinced in his own mind that he would succeed where others had failed. Mr. Clark is generally acknowledged to be one of the greatest

designers and builders of pianos and piano-players in the world. He was the first to build a piano-player to operate over the

entire keyboard.

"Consequently when he announced a short time ago that he had perfected a device which would not only make a permanent record of a performance on a piano, but do it so faithfully and accurately that not a single eccentricity of the pianist's individuality would be lost, the respectful attention of the musical world was immediately forthcoming.

"Naturally there were many skeptics-men who desired to be shown. One of these was a pianist and composer of inter-

national reputation.

"Of course, Clark," he said, when told of the new invention, 'I know you have accomplished wonders in your line, But in this case your claims sound, ah-

"'Preposterous?' said Mr. Clark. 'Sure! I don't blame you at all for thinking so. But just come along to my effice and see

"Together they repaired to Mr. Clark's private office, where a piano was in readiness. In one corner of the room stood a little closet. The pianist also noticed that a wire ran from the electric light fixture in the middle of the room into the closet.

"'Just a moment,' said Mr. Clark, as he turned on the current. Immediately there issued from the closet the soft hum of a tiny

dynamo.
"'The recorder is in that closet,' explained Mr. Clark, 'and this current operates it. Now all you've got to do is to fire away, and the recorder will do the rest.

"The pianist fired. Resolved to make the job a good one and test the instrument to the limit of its capabilities he improvised a selection as fiery and brilliant as a thunderstorm.

"When he had finished, Mr. Clark went into the closet and

returned with a roll of paper, similar in appearance to those used on piano-players. Placing the roll in another piano with a reproducing attachment, he set the reproducer in motion with his feet. "The effect was startling. The exactness of the record-even

to the cunningly introduced 'accidentals'-made the very presence of the composer at the piano seem a certainty. His tempo, his style, his pedaling, the power of his stroke on the keys, and the sensuous element—the expression—were reproduced in such an accurate way that the mechanism seemed to be endowed with a human mind.

"The operation of Mr. Clark's device-which he calls a recorder—may best be explained in the simple statement that the

pressure of a button, turning on the electric current, sensitizes every playing part of the piano-keys, pedals, and all—to the slightest touch of the performer, and secures in perfect relation every playing movement made,

"While the importance of this achievement in the field of the mechanical player can be readily appreciated, its influence upon the development of musical history represents its chief value. It is from this standpoint that it appeals most to its inventor. He frankly states that he does not think it has commercial value.

"To be able to sit down at the piano, imprint one's individuality in all its phases upon the interpretation of any given musical composition, have the music so produced cut, and then to use it on a piano-player and hear oneself play, certainly seems the fulfilment of the composer's wildest dream.

"But that is not all. The recorder relieves the composer of the manual drudgery of putting his thoughts down on paper with pen or pencil. Also, it enables him to preserve the continuity of his thoughts, which is difficult when he is forced to stop to jot down his composition."

Possibly in the near future some one will tell us just how the "recorder" works, but the mechanical details are apparently a secret for the present-a fact that will make some malicious critics suspect Mr. Moulton's assurance that commercial success is not the inventor's aim.



MELVILLE CLARK, Whose invention records musical compositions automatically.

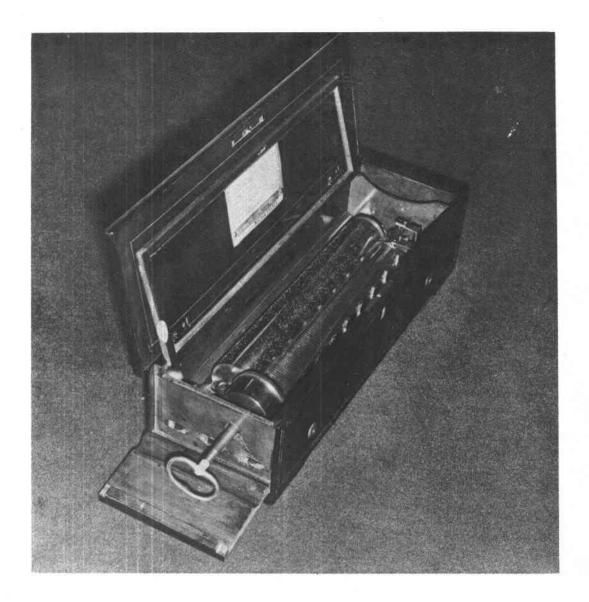
### Continued from the preceeding page

also by pneumatic means, depress the string at the desired moment, so as to give the tone its proper pitch. . . . .

"How are the perforated rolls prepared that control the movements of the three violins? They are executed with minute care by workmen who are at the same time musicians of the first rank. Here must be noted a sensible inferiority of the 'Violina' to the latest model of automatic piano. The latter may reproduce the performance of a master, the perforation being done automatically by the playing of the artist. It is not the same with the 'Violina.' It would hardly be possible for a violinist in manipulating his bow to actuate a perforating mechanism and so prepare rolls adapted to the instrument-

However this may be, the automatic piano and violin combined offer us a most agreeable duet and an infinitely varied repertory. The instrument reflects the greatest credit on the mechanical skill of its inventors, five Austrians whose names deserve to be recorded here-Messrs. Bajde, Karl and Ernst Henning, Froensdorf, and Hupfeld."-Translation made for THE LITERARY DIGEST.





Yet another unusual Nicole Freres musical box is represented by this picture of one belonging to Member Jocelyn R. Walker of Reigate, Surrey. The box, an eight-air movement, is in the late 39000 series having an inner glass lid but is a genuine key-wind. It plays six tunes from L'Africaine by Meyerbeer, Gounod's Faust Valse No 1 and Godfrey's The Guard Waltz. A Keith Prowse label is affixed inside the back of the case and stuck onto the tune sheet. The box has commendably smart attack and roundness to tone.

The catalogue on the subsequent pages is from the collection of The Editor.



OF TUNES



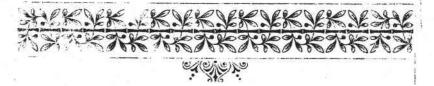
# Polyphen Musical Box

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Disc 19; inches in diameter.

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007	Loin du Bal	1414				Widtz	Gillet
008	Under the Double					Unrch	Wagner
009				Carint	hian	Sony	Koschat
010	1						Wagner
011	King Charles' Mar	ch		•••			Unrath
012	On the marvellous	Rhine	800257		ъ.		Foerster
013	Intermezzo			valleria	D	tionna	Mascagni
014			-	Bohe	Te us	Cons	
015	Kde domov muj Artists' Life Sports March			Done	minen	Walte	Skroup
010	Sports Wareh					Waltz	Strauss
017	Verlassen, Verlass Meditation on L B	013	(0.00)	Cari-	thian	Song	Kunoth
018	Meditation on J. B	anh'e	r	roluda		**	Koschat
010	Radetzky March Singers' Joy At Supper Les Cloches du Mo Prayer	acii 8	ist I	rerude	• •		Gounod
	Cincord Tour		• •		• •	D 11	Strauss
020	Singers Joy					Polka	- N "
021	At Supper		• •			Song	Chatau
n22	Des Cloches du Me	onasre	re	***		en 11	Lefebre-Web
023		• •	• •	W	illian	1 . 1	Rossini
024	Torgauer March	11	• •	155	100		_
025	Wiener Blut	• •				Waltz	Strauss
026	Stephanie Gavotte						Czibulka
027	Refreat and Prayer	**		2.2	25.5		Bortnianski
028	Reise-Abenteuer						Lincke
029	The Dandy Queen			:: w		9.8	"
030	Herzhlopfen-Polka					Waliz	Kremser
032	Mikado	• •				VVIIII'Z	Sullivan
033	Rosen aus dem Sü Blue Danube Wal	den		75.75	200	Waltz	Strauss
034	Blue Danube Walt	2.					
035	Quintetto	2000	1000		- A	lartha	Flotow
036	Quintetto Waltz Bitte schöne Polin	I.e	S Ch	ches de	Corn	eville	Planquette
037	Bitte schön					Polka	Strauss
038	Die schöne Polin,	Mazur	kit.				Millöcker
039	Waves of the Dan	ube				Waltz	Ivanovici
1140	Morgenbiatter Wa	12			*		Strauss
041	Still Night, Holy	Night		Chris	tmas	Song	
042	O Sanctissima					_11	_
043	Prodaná nevesta			Boher	mian	Song	Smetana
044	Valse Brillante			• •		200	Schuloff
045	Cyclists' March		0.00			Sound	Hoeller
046	Valse Brillante Cyclists' March Prayer	ν				chüiz	Weber
048	God Save the Kin	12		••		••	Carey
049	Polonaise				M	ignon	Thomas
050	Kossuth Lajos azt i	izente		Hung	arian	Song	Miska
U s I	Jaj de hunczfut	(404)		100		W	Jenö Nerradt
052	Lueger March					1.4	Nerradt
053	Austrian National	Anther	n				
054	Cumel		200	Boh		n Air	Posaisila
055	My Austria					Iarch	Preis
556	March on Carinthia	ın Son	25	****			Seifert
057	La Paloma	W.S.		Mex	ican	Song	Gradier
058	Duet		The	Figaro's	Wer	ding	Mozart
059	Casta Diva					orma	Bellini
060	Friesach Promenad	. Mar	12			OI IIII	Zelinger

No.	TITLE.	Composer.
5062	Vzdyt jsme jen jednou Bohemian Song	Schuster
5063	Hultajski Mazur Polish Air	Vogt
5064	Krewki, Mazur ,,	Lewandowskigo
5065	Kujawiaczek	Golischa
5000	Kujawiaczek. Zampa Overture Zampa Spinn, Spinn. Swedish Song	Heroid
5067	Spinn, Spinn Swedish Song	Jüngst
5068	Honyadi László induló Hungarian Air	Ferencz
5060	Im tiefen Keller Drinking Song	Fischer
5070	Hosis' March	Kutschera
5071	Austrian March A Nest of Finches La Marseillaise The Beehive March	A. G.
5072	A Nest of Finches	Longey
5073	La Marseillaise	R. de l'Isle
5074	The Beehive March	Schneider
5075	La Marseillaise The Beehive March Legujabb Budapeste Hungarian Song	Palotasy
5076	The Old Folks at Home	
5077		Macey
5078	Impudence Schottische Grüss Euch Gott, Polka The Bird Seller	Zeller
5079	O Dales, O Mountains Song	
5080	Cavalleria Rusticana Duet	Mascagni
5083		Strauss
5084	Violetta Polka Song	Pfeil
5085	Violetta Polka Calm is the Sea Funiculi, Funicula Neapolitan Song	Denza
5086	Husitska Bohemian Air	Krov
5087	Husitska Bohemian Air Nevérna	Soukop
5088	Beztechzen Kuplet	Chyatal
5089	Bozieku mladost to je prec "	Pospisila.
5040	Pochod ceskych turistu	,,
1005	Casino Csardas	Henrik
5092	Casino Csardas	Ernő
	Nose Molana Robertian Air	Vodicka
5093	Nase Majana	
5094	Ningarath	Gounod
5005	Ques the Hills She'll now be a Lady Shon Girl	Carvll
5090	The Lost Chord	Sullivan
5097	Sobre las Olas Spanish Air	Rosas
5100		Cape
5101	El Tambour de Grenaderos Russian National Hymn	Lwoif
5102	Russian National Flymn Spanish Air	L'ii Oli
5103	La Graida Spanish Art	Lincke
5104		
5105	When the leaves so softly fall  Montenegrian National Anthem  Finnish National Hymn	"
5106	Montenegrian National Anthem	Pacius
5107	Filling Pational Lynn	Lacius
5108	Suomis Finnish Song	Adam
5109	The Postilion of Lonjumeau	Sellenick
\$110	Marche Indienne Spanish Air	Valverbe
5111	La Segunda Tiple Spanish Air	
5112	Austrian March Say au Revoir, but not Good-bye Private Tommy Atkins She was one of the early Birds	Wagner
5113	Say au Revoir, but not Good-bye	Kennedy
5114	Private Tommy Atkins	Potter
5115	She was one of the early Birds	Connor
5116	Der Tannenbaum Christmas Song	C
5117	Pennariale Italian Song	Gregerio
5118	La Père la Victoire Song	Ganne
5120	Jewel Song Faust	Gounod
5121	Waltz Le Grand Mogul	Metra
5122	Trumpet March Aida	Verdi
	Halka Polish Air	Moniuszki
5123		
5123 5124	Zdy men Pozarow	Nikorowicza Kurpinskiego

No.	TIT	LE.				Composer,
5132	Austrian Grenadier Marc La Gran Via Country Wake Waltz Hula Babula Oberek Ma	h				Wiedermann
5134	La Gran Via			\	Valtz	Valverde
5135	Country Wale Waltz		An	strian I	lance	
130	Hula Rabula Oberek Ma	2115		Polisl	la Air	Lewandowskiege
	Ach könnt ich noch einm	al sa	Lieber			
5137	The Blue Bells of Scotla Daisy Bell		nenci			Metter
5138	The Bitte Bells of Scotta	net	6660		V-14-	D
110	Dausy Bell			10	Valitz	Dacre
140	District	• •	••	r	onsn	Panhans
141	Tyrolese Dance					Grasberger
142	Az rano			* 1	HIZ	The same of the sa
143	Ach könnt ich noch einm The Blue Bells of Scotla Daise Bell Daniel Tyrolese Danee Az rano Kroaten March La Venderigola Grinzinger March Vienna Popular Song Hallehijah Chorus Priests War March Inno Garibaldi National Hynn of Arger Washington Post March La Verbena de la Poloma Socialists' March Illusioni Waltz So'ne ganze kleine Frau Hohenfriedberger March Prusslan Army March Ne Entry into Paris Darling Mabel Tm getting ready for my ts ver Mamie always will	25.5	7.20	0.000		Trisici
144	La Venderigola			Italian :	Song	
145	Grinzinger March		20.0	200		Diescher
140	Vienna Popular Song					Kutschera
14.	Halfelnish Chorus			Me	ssiah	Händel
148	Priests War March			At	halie	Mendelssolin
1.49	Inno Garibaldi			M	arch	Truzzi
150	National Hyann of Arger	tina	00.00	26.65	10.00	Parera
151	Washington Post March		28	200	8.5	Soura
152	Day Lawren Stiller			- 23		Kmoch
13.5	To Calamata to Delama			Mar	melen	Breton
153	La verbena de la Fololia		0.5	MAL	M: Not	Comme
154	Socialists March			36360		Gramm
155	Illusioni Waltz	• •	• •	* *	**	G. Capitani di V
150	So ne ganze kleine Frau		• •	• •		Aletter
157	Hohenfriedberger March					Frederick II.
158	Prussian Army March No	17			5 (55)	
159	Entry into Paris			M	arch	
100	Darling Mabel I'm getting ready for my Is yer Mamie always with Aller Ehren ist Oesterreic				990	Bennet Scott
161	I'm getting ready for my	Moth	er-in-	law		
162	Is ver Mamie always with	1 ver				Leslie Stuart
163	Aller Ehren ist Oesterreic	h vol	11	M	arch	
164	El duo de la Africana	••	S	panish 5	Song	Cabellero
165	Sardana					Breton
100	Capriebo de Genero Espa	nol	2.0	Sounish	Air	Nogues
167	II Bagin Walty					Arditi
168	Hards mad the steel maiste	- Mar	rch.			11.000
169	Verm House to House			Mary	meka	Andrée
170	From Heart to Heart	••		A14.644		Ketterer
170	Patrics Wattz	••		ė.	mich	Gottschalk
171	Crand Parantena	••		The Colo	inisii	Gottschark
172	Love Love		***	The Cit	ribilia	Sidney Jones
173	The Amorous Goldhan	1.1	• •	10		
174	If you will come to Tea				•	. "
175	Mozna ze jo-mozna ze në		Boh	cmian ;	panor	Schuster
170	Chant d'Emmenthal	4.5		**		
177	Aller Ehren ist Oesterreic El duo de la Africana Sardana Capricho de Genero Espa Il Bacio Waltz Hoch und Doutschmeiste From Heart to Heart Fairies' Waltz Grand Tarantella Love Love The Amorous Goldfish If you will come to Tea Mozna ze jo-mozna ze në Chant d' Emmenthal Hoch Habsburg Emma, mein geliebtes Ma Chanson Styrienne			M	arch	Král
178	Emma, mein geliebtes Ma	uses	chwän	zchen	2000	Steidl
170	Chanson Styrienne					
180	A Mighty Fortress is our	God				Luther
181	My Country					Attenhoffer
18:	Some of Sempach	366	100	5.0	2019	Wehrli
N: 1	Spenish kongral March	600				Petrella
100	Line Company	• •				I CHCIM
134	United cavarry araren		• •	• •	•••	
105	rief glovane;	• •	• •	6	no.l.	17h.
120	On : Dear Marguerite	• •		Sere	natue	Kuhn
187	Danish Waltz				• • •	
188	Ribberhuus		Da	mish M	arch	Fröhlich
18.	Aarhuus Tappenstreg			11	*	Möller
191	Emma, mein geliebtes Ma Chanson Styrienne A Mighty Fortress is our My Country Song of Sempach Spanish Funeral March Finnish Cavadry March Hej Slovane! Oh! Dear Marguerite Danish Waltz Ribberhaus Aarhuus Tappenstreg My Darling Linget Longet Loo			11	altz	
						Sidney Iones

No.		TITI	E.				COMPOSER.
5193	Overture			Lig	ht Cav	alry	Suppé
5194	Aa Dagmar			Da	nish S	ong	
5195	Cavatina			II			Verdi
5196	Il misereré (Ah! cl	ne la m	orte)				,,
197							Gyula
5198	Hungarian Air Wedding March Champagne Galop						Mendelssohn
5199	Champagne Galop				::		Lumley
200	The Merry Coppers	mith		• •	M	arch	Peter
5201	Dinka	2000		Dan	ish W	altz	Jespersen
202	Dinka Pas de Quatre						Teich
5203	Mussinian March	• •					Carl
204	Romance	T	or D.	agons	de Vil	lars	Maillart
205	The British Patrol				M:	ırch	
207	Duello			The M	agic F	lute	Mozart
208	The King of Hann	car's S.	duta				Sommerlatt
209	Marche du Sacre			Lo	Prop	hète	Meyerbeer
210	Marche du Sacre La Mandolinato Belgian National A Agrar Mazurka Tyrolese Song						Paladilhe
5212	Belgian National A	nthem					
5213	Agrar Mazurka					1	
5214	Tyrolese Song						Nesmüller
5215						- 1	
5217	Waltz				Fa	ust	Gounod
218	Anvil Chorus		• •	II	Troya	tore	Verdi
5219	Chorus		L	a Dam	e Blan	che	Boildicu
220	Soldier's Song						**
221	Waltz Anvil Chorus Chorus Soldier's Song Cavatina Chorus and Tyrob				"	- 1	0
222	Chorus and Tyroli	nne	11	- "Wii	ltiam 1	ΓeII	Rossin
3223	The Lancers Chain	mic m	SOUT	IS .			
5224	Brudefaerden Once I have Played Du gamla, du friska	• •	5 1.4	Norwe	gian S	กซ	Kjerul7
5225	Once I have Played		Cz	ir and	Carpe	nier I	Lortzin
226	Du gamla, du friska			Dai	nish S	one	
5227							
5228	The Rat Catcher Lasalle March Salut demeure chast Labour Sorg Doch vergiss The White Pink Entry March If I only have thy le The Bell in the Val O Beautiful Time.	• •					Engelhard?
5229	Lasalle March						Ziehrer
5230	Salut demeure chast	e et m	ire	NAME:	F	mst	Gounod
231	Labour Sorg						
5232	Doch vergiss	1. 7	The F	igaro's	Wedd	ling	Mozart
5233	The White Pink			. Vie	nna S	one	Peter
5234	Entry March			T	unnbä	iser	Wagner
235	If I only have thy l	ove	220				Suppé
236	The Bell in the Val	lev			Gav	otte	Sacker
237	The Bell in the Val O Beautiful Time, Connais-tu le pays Toreador's Song	O Bles	sed T	ime			Götze
238	Connais-tu le pays				Mig	non	Thomas
239	Toreador's Song		• •		Carr	nen	Bizet
240	lahrmarkts-Rumme	i l		Gor	man S	OBIT	Lincke
241	Wien bleiht Wien		• •	Vien	na Ma	rch	Schrammel
242	Frauenherz	25	200	Polka	Mazz	rka	Strauss
243	Styrian Dance			I VIKO	Man		Strobl
	Vienna Wood Tales		•		··w	alte	Strauss
244	Treasure Waltz	. )	110	r Zigo	morbo	FOR	
245	Connais-tu le pays Toreador's Song Jahrmarkts-Rumme Wien bleibt Wien Frauenhetz Styrian Dance Vienna Wood Tales Treasure Waltz Styrian Dance Flower Polka	• •	100	LEIGU	THE LIST	1011	Strobl
246	Flower Polka	• •	• •	• •	• •		Ziehrer
247	" a'Nullar! " E-4-1	T tool of	lon M.	11 A = -	-1	•••	
248	"s'Nullerl "Entrée-	The D	ies IVI	m-wne	Man-		Perti
249	A Night in Venice,	i ne D	oves	oi San	Marco	,	1711
250	The Alp Maids Mor	rning S	oong	• •	• •	•••	Keyll
251	Snooting March	• •	• •		• •	• •	Krettner
252	Shooting March Military March Un Bal chez le Mini s'Blüamer! vom See	**	••	**		• •	Strauss
253	Un Bal chez le Mini	stre	••		••		Jouberti
254	s Billiamert vom See			- Str	PRINTE SI	OTHE .	Schmölzer

5255					_		
	Nur einmal blüht i	m Jah	r der	Mai			Keiser
5256	Huntsman's Choru	s		Der	Frei	schütz	Weber
5257	Huntsman's Choru Vienna Mazurka						Ziehrer
258	Military March						Gerold
250	Vienna Fineres' Son	n cr	• •	•	• •	• • •	Pick
261	Lagunon Wolter	1K	• •	A Night	: "	Conica	Strauss
263	Mississipping	• •		Lingin	ın	Conce	Distauss
203	Meg azt mondjak	• •	• •	ra unga	11.1511	1 50ng	Pista
263	Weaner Madein	• •	• •	25.00	• •	waitz	Ziehrer
264	Salute and Victory	• •	• •	Millit	ary	March	Schneider
265	Soldiers' Chorus				• •	Paust	Gounod
266	Du liebes Aug', du	lieber	Ster	n			Reichardt
267	Vienna Heart					March	Schild
268	Some Day						Schild Wellings
269	Fata Morgana Wal	Z					Einödshofer
270	Edelweiss					Song	Peuschel
271	Andreas Flofer	. *T	`vrol	ese Nati	ona	Song	
272	The Bat		, 101	ese rian		Waltz	Strauss
273	Untue dam Signach	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• •	• •	• •	March	Blon
2/3	Wine Woman and	Cons	• •	• • •		Walter	Strauss
274	Overture	SOME		Wiston o	cii.	indoor	Nicolai
275	Overture	200	erry	wives o	1 11	inusor	Nicolai
276	Doccaccio Waitz	• •	• •	• • •	• •	• •	Strauss
277	Rokitansky March	• • • • •	11.	**	. ::.	**	J. Wagner
278	Falsialf's Song, Th	ie Mei	rry V	Vives of	11.	indsor	Nicolai
279	The Silverfish Fant	nsia		• •	Ma	izurka	Ketterer
280	The Last Rose of S	umme	r				
281	Turkische Schaarwa	iche					Michaelis
282	My Old Kentucky	Home					Foster
283	Vienna Swallows					March	Schlögel
284	Hungarian Air						Sandor
285	214116411411	60	-	7575	935	955	Michaly
286	Theresa Waltz			35.0			Faust
287	The Village Blacker	mids.		• •	• •	• • •	Taust
20/	The Vinage Diacks	D L.		• •	• •	• • •	337111 1
388	The watch on the I	Knine	• •	• •	• •	· · ·	Wilhelm
289	Waldandacht	p	1.7	• •	• •	Song	Abt
290	Love's Dream after	the Ba	111	• •	::		Czibulka
291	Plappermäulchen	• •		• •	Ma	ızurka	Behr
292	The Soldiers of the	Quee	n				Stuart
293	Pour avoir la Fille						Holzer
294	Anciennes et Nouve	lles				Song	Maquis
205	La Sérénade du Pay	·é					Varney
206	Sicilienne and Chor.	us		Robert	le I	Diable	Meverbeer
297	Nur einmal blübt i Huntsman's Choru. Vienna Mazurka Military March Vienna Fiacres' Sol Laqunen Waltz Mig azt mondjak Weaner Madein Salute and Victory Soldiers' Chorus Du liebes Aug', du Vienna Heart Some Day Fata Morgana Walt Edelweiss Andreas Hofer The Bat Unter dem Siegesbe Wine, Woman and Overture Boccaccio Waltz Rokitansky March Falstaff's Song, Til The Silverfish Fant The Last Rose of S Turkische Schaarw My Old Kentucky I Vienna Swallows Hungarian Air Theresa Waltz The Village Blackst The Waltdandacht Love's Dream after Plappermäulchen The Soldiers of the Pour avoir la Fille Anciennes et Nouve La Sérénade du Pas Sicilienne and Chor German Popular So Styrian Song Swedish Song Leipzig March Pa Begäran Hambor Pa Baltannöver Ma Cujus Animam Einsam bin ich, niel Stances à Manon Swedish Song Swedish Song Swedish Song Swedish Waltz	n.or		2000011	1		Kalliwoda
298	Styrian Song		• •				Schild
490	Swedish Dance	• •	• •	• •	• •	• • •	Do Wali
299	Swedish Song	• •	• •	• •	• •	• • •	De Wahl
300	T similar Manak			• •	• •	• •	Collan
301	Leipzig March	·		• •	• • •		Schmidt
302	Pa Begaran Hambo	Poisk	34		Sv	redish	Holtz
303	Pa Fältmanöver Ma	rch					**
304	Cujus Animam	• •		Sta	bat	Mater	Rossini
305	Einsam bin ich, nich	it alle	inc		Pr	eciosa	Weber
106	Stances à Manon			• •		eciosa	Delmet
107	Swedish Song						Svensson
108	Swedish Waltz				•		O T CHOODII
	Possian March	100	**	* *	•	**	
300	Then Fairer of T	i.		16	42.3	e	Ganne
320	Swedish Song Swedish Waltz Russian March Thou Fairest of Lar The Rejected Lover	105	**	Swe	dish	Song	
· ·		100	72.2				
311	The Rejected Lines				" _	22 . 1	
112	The Rejected Lover For You, Hambo Po I Dalom,	lka			"Su	redish	Holtz

No.	TITLE.	Composer.
5315	Serenade Wenn du noch eine Mutter hast La Robertsau Marche Westphalian Song I Hennes Hem La Housade, Military Waltz Rappelle-toi O schöner Mai La Ballade des Agents Alsatian March Die Fledermaus (the Bat) Die Fledermaus (the Bat) Poika Mazurka Si j'ètais Roi Romance Lebt denn meine Male noch Stances Melodies Christmas Hymn The Mill in the Black Forest Starhemberg March Verse Margot Chanson Boccaccio March Seid'l March Vergiss das arme Mädchen nicht Les Fauvettes Polka Die steirische Roas Holzknechtlied s' Gamsjagern Der Steirer Land Ein Schütz bin ich Das Mailüfterl Pavane des Mignons Die Liab Der steirische Wulläzä D'hochi Alm Die z'widern Weiber For Home and Glory There's only one Girl in zhis World for me I'll take you Home again, Kathleen Sweetheart May	Schubert
5316	Wenn du noch eine Mutter hast	Heiser
5317	La Robertsau Marche	Selenick
318	Westphalian Song	Hawerkampe
319	I Hennes Hem Swedish Song	Tegner
320	La Housade, Military Waltz	Ganne
322	Rappelle-toi	Rupes
323	O schöner Mai	Strauss
324	La Ballade des Agents Polka	Cueteville
325	Alsatian March	Sali
326	Die Fledermans (the Bat) . Polka Mazurka	Strauss
327	Si l'étais Roi Romance	Adam
328	Lebt denn meine Male noch	Teich
329	Stances Molodies	Flegier
	Christmas Hump	Adam
330	The Mill in the Block Kornet Livil	Eilenberg
331	Storbumburg Murch	Ententoerg
332	Varia Margar Change	Schultz
334	Beccessis Musch	Doria
335	Cold's March	Suppé
336	Verging day arms Millalan winds	Kreipl
337	Vergiss das arme Madenen nicht	Rozsa
338	Les Fauvettes Polka	Kutschera
339	Die steinische Roas Styrian Song	Bousquet
340	Holzknechtlied "	
341	s Gamsjagern	Schmölzer
342	Der Steirer Land	
5343	Ein Schutz bin ich . Bivouae de Granada	Seidler
344	Cologne March	Kreutzer
345	Das Manutteri Spring Song	Gruber
346	Pavane des Mignons	Turlet
347	Die Liab Styrian Song	
348	Der steirische Wullaza "	1
349	D'hochi Alm ,,	i
3350	Die z widern Weiber "	
3351	For Home and Glory	St. Quentin
352	There's only one Girl in this World for me	i .
353	I'll take you Home again, Kathleen	Westendorf
354	Sweetheart May	Stuart
355	I Want yer, ma Honey	Templeton
356	Those Wedding Bells shall not ring out	
357	I'll take you Home again, Kathleen Sweetheart May I Want yer, ma Honey Those Wedding Bells shall not ring out The Man that Broke the Bank at Monte Carlo	
358	The Song that reached my Heart	
359	Jack's the Boy The Geisha	Sidney Jones
360	Star of my Soul	1 1
361	Le Fremersberg	Koennemann
362	All Deutschland Heil Military March	Schweichert
363	The Song that reached my Heart. Jack's the Boy Star of my Soul Le Fremersberg All Deutschland Heil Nightingale's Song. Queen of the Earth. Venus auf Erden The Children's Home Libeszauber March Aus der Heimat La Troika Russian Polka Le Regiment de Sambre et Meuse My Stage Struck Family Belle Madelon Polka Piquée Berline Française Dance de Salon Pas de Deux Blumenlied	Necke
365	Queen of the Earth.	Pinsuti
366	Venus auf Erden	Lincke
367	The Children's Home	Cowen
368	Libeszauber March	Lorenz
369	Aus der Heimat Mazurka	Strauss
370	La Troika Ruesian Polka	Hauser
	Le Régiment de Sambre et Meure	Genet
371	My Stare Struck Family	Darry
372	Belle Madalas D. II. Diagram	Sambin
373	Positive Franceion Polka Piquee	Thomas
374	Dance de Salon	Thuillier
375	ras de Deux	L'Hervilliers
376		

No.	TITI	.E.				Composer
5178	The Ship I love They wanted Oiling The Last Greeting Das Jag n is a wahre Frea Starting me in the Face Schection from Overture Rabat Jack	((	399	199	(3.3	McGlemon
379	They wanted Onling	* *	1.5	1000	855	317
5380	The Last Greeting	11	100			Westerman
1882	Das lag n is a wahre Fred	100		tyrian	Sound	31
1382	Staring me in the Pace	**				Murray
5383	Selection from Overture	11	anse	land	Gretel	Humperdine
53/54	Behut dich! Ir	umpe	ter of	Sakk	ungen	Nessler
132	The fredy City		13			Adams
2.00	Ch	100	Di	menni	in Air	Haan
	The Date to 1	ses.		5.5		Knight Cowen
14.1	The Octob Land					Barrie
20.0	Ora rea Nata	1		3.0		Piccolomini
707	In also december					Godard
2002	Subarbultary Water	•			=3/3	Munkelt
2012	God bless the Prince of W	alex		• •		Richards
105	Royal Indian March	ane,		••	• •	Gabetti
306	Kythäuser March	•	• •			Hülsberg
207	Students' March	• •	• •	• • •		Truisberg
208	Auld Lang Syne	• •	• •	• • •	• • •	-1
100	Marche des Petits Pierrots	• •		• •		Bosc
401	Rheinzauber Waltz	• • •	• •	• • •		Schweichert
102	Norsk National Song					Nordaak
102	Starting me in the Face Selection from Overture Behitt dich! Tr The Holy City Pochod 2 baletin She wore a Wreath of Ro The Better Land The On. He gade Ora pro Nobi. It is the Better Land The On. He gade Ora pro Nobi. It is the Better Land The On. He gade Ora pro Nobi. It is the Better Land The On. He gade Grapto Nobi. It is the Better Land Harden Scherbelberg Waltz. God bless the Prince of W. Royal Italian March Kyflhäuser March Auful Lang Syne March des Petits Pierrots Rheinzauber Waltz. Norsk National Song Solidatgessen Duet Friiblingshoten Waltz Der alte Berner March March March Harden Walde Friiblingshoten Waltz Die Loct im Walde Line al March March of the Men of Harl Affer the Ball The Walter Fairy Walzerhebe. Suss. Lab Eve of Christians Nya Folkssangen Liftgo-Lieder Our Lodger's such a nice Marchored		F	innish	Sone	1 TO GLIER
40.1	Duct				Fanst	Gounod
105	Frühlingsboten Waltz					Schweichert
107	Der alte Berner March					- Commentances
108	Mon Amant est loin		F	innish	Song	
1	A !- Côt		-			
110	Die Leet un Walde			70		Schäffer
arr l	I un ral March					Chopin
412	March of the Men of Hail	e li				
413	After the Ball		٠.		Waltz	Kiefert
114	The Water Fairy					Förster
415	Walzerhebes		٠. '	Waltz	Song	Wollhelm
410	Suss Late				Song	Lehner
417	Eve of Christmas					Doring
418	Nya Folkssangen		F	innish	Song	J
410	Lihgo-Lieder				83	
420	Our Lodger's such a nice '	Young	Mar	n		Murray
421	Anchored			• •		Watson
422	True till Death					Adams
423	The Star of Bethlehem					71
424	Bay of Biscay and Rule II	ritanı	ria			
425	Roger de Coverley		٠.		• • •	
426	The Keel Row	• •	• •			
427	Lithanische	• •			Song	
42X					.,	
130	The Ambassador		• •		Waltz	Klein
131	Lilipo-Lieder Our Lodger's such a nice 'Anchored' True till Death The Star of Bethlehem Bay of Biscay and Rule B Roger de Coverley The Keel Row Lithanische The Ambassador Waltz Royal Prussian Army Mar The Penny Whistler	:	• •	Circu	s Girl	Kiefert
132	Royal Prussian Army Mar	ch, N	0. 18	b		
435	The Penny Whistler		• •	• •		Fox
437	1 om Bowling	• •	• •		• •	Dibdin
138	A syight on the Wheel	• •	• •			Redfern
130	i m not particular				• • •	Baker
110	Royal Prussian Army Mai The Penny Whistler Tom Bowling A Night on the Wheel I'm not particular I'm the little bit of Sweets My Gal is a High-born La Gluntarne Big Ben strück one	auft	• •		• • •	LeBrunn
111	my Gal is a High-porn La	a v	• •	F. 11		Fagan
142	Countaine	• •	• •	Danis	h Air	
43						

No.	TITLI	E.				COMPOSER.
5444	I know that my Redeemer	livet	h	М	essiah	Händel
5447	The Diver	• •	• •	7.4	Elijah	
5449	O! Rest in the Lord	• •			jah	Mendelssóh
5450	Good-bye Polly	• •	• •		1000	
5451	Pas de Quatre	• •			• • •	Meyer Lutz
5452	The Diver O! Rest in the Lord Good-bye Polly Pas de Quatre Whisper and I shall hear	• •				Piccolomini
5453	I I VE got the Objetzootic .				1880	Forman
5454	The Golden Dustman The Sailor's Hornpipe	• •			**	LeBrunn
5455	The Willow Pattern Plate.	• •		• •	19.5	7 11 C.
5450 5457	T 1 TO 11 TO 1		••	• •		Leslie Stuar
5458	March of the Gordon Boys The Dandy Fifth	• •				Adair "
5459	March of the Gordon Boys The Dandy Fifth Yes! let me like a Soldier Land of my Fathers				::	Leslie Stuar
5460	Yes Het me like a Soldier	fall		ii.	ritana	Wallace
5461	Land of my Fathers			****		James
5462						James
5463			100.00			
5464			100			
5470	Widborgs Finnish March .		1966			
5471	The Heart bowed down .		Bohe	mia	n Girl	Balfe
5473	Finnish Army March "" "" Widborgs Finnish March The Heart bowed down Jôs hrvats in propala Dear Home Land					2
5475	Dear Home Land					Slaughter
5470	Daddy					Belirend
5478	Song of the People				78.9	Pfic
5480	Daddy Song of the People Indiana Waltz Bourrée-Caprice Les Noces de Jeanette Spring Cleaning Song Tatche Ach Luly, Lilly, Lilly A'r, Rip, Rap. Duet While London's fast asleer					
5481	Bourrée-Caprice	Souv	enir d'	Aur	ergne	
5482	Les Noces de Jennette .	*12	- +	12.		Mills
5453	Spring Cleaning		• •			Connor
5445	Soup		• •	• •		Rogers
5480	Lateno	•	• •	• •		
458	Ach Luty, Luty, Luty	•		. * . *		
5480	Thurst	•	Pat	istat	Lile	Planquette
5440	While London's fast aslee	•	· · Li	MER	scotte	Audran
1492	Why did I leave my little I					Dacre Mills
5493	The Garden of Sleep .				::	de Lara
5494	Believe me if all those end	earin	g vous	ner el	nrms	ue imia
5495	La Paimpolaise	Carrin	g vou	. E C		Feautrier
5496	Romance Bergense Panurge		::			Planquette
447	An Old Garden				- 1	Temple
5498	Les Blondes		••	1	Waltz	Stanislas
5499	The Harn that once through	h Ta	ra's Ha	alls		
5500	MacGregor's Gathering .				!	
1055	Hail to the Chief		::			
502	MacGregor's Gathering Hail to the Chief Draw the Sword, Scotland Spaansche Schooner. Dat's onze Puckie					
5503	Spaansche Schooner		(Les C	ligar	ières)	Delormel
504	Dat's onze Puckie					Reyding
5505	Die drei Hochzeiten					Kutschera
5506	Sei mir gut		* *			Rosenzweig
507	Mandolino—Aubade .		• •			Turlet
5508	Die drei Hoonzeiten Sei mir gut Mandolino—Aubade Au Pays d'Auvergne Sempacher March La Diane Le Retraite Le Ranz des Vaches d'Orm		• •	В	ourée	Vargues
510	Sempacher March		• •	• •		Fries
5511	La Diane	•	• •	• •		10
512	Le Kelraite		• •			11
513	Le Ranz des Vaches d'Orm	ont	22			n
514						D."
515	Queen of Angels	•			D-11:	Piccolomin
516	Queen of Angels		••	••	Polka	Hamm
5517	Arm and reich					Kutschera

No.	TIT	LE.				COMPOSER.
SSIK	Come back to Erin		3.7			Claribel
5519	Zug a vibar		Hung	mrian.		Sandor
5520	Kathleen Mayoureen		rrung	ALI IALL	String	Crouch
5521	Killarney				• •	Balfe
5522	Come back to Erin  Zug a vihar  Kathleen Mavoureen Killarney  Gay Gordons March Fancy Meeting you Partant pour la Syrie Louka Zelena Valcik		Cock o	0.0		Bonheur
5523	Funcy Meeting way		COCK U	the 1		
5524	Partner war la Serie		•	0.00	••	Clifford
5526	Louka Zulana Valaile	750		• •	• •	Beauharnais
5528	In during		* *			Breka
5520	Kolo			Cas	voite	Vargues
5530	Descrip	• •	70		:	
5531	Was kann webt street or		Tur	KISH A	larch	Calculus Boot
5532	Partant pour la Syrie Louka Zelena Valcik La derière Kolo Dzesair Was kann wohl süsser se She wandered down the	31.	**		• •	Schultze-Buch
5533	I dreamt that I dwelt	Mon	ntain sic	ie	a::	Clay
	There is a Klasses day		non	emiar	Girl	Balfe
5534	There is a Flower that b	iooni	em	Mai	itanii	Wallace
530	When other Line		D 1			Sullivan
537	There is a Flower that be Once again when other Lips Come into the Garden, Mez tebe draga Ljubezna Vesela je Sbrbadiza. Golden Days Remember me no more Sweet Marie Wearing of the Green Annie Laurie Ye Banks and Braes Zivila Hrvatska U boj Bojna pyejsna Spätzin and Spatz Les Allobroges Venus steig hermieder La Polka des English's In Friendship's Name Shepherd of Souls The Golden City.	1	1301	ennar	Curl	Balte
38	Roy take draw Links	nun	• •	• •	• • •	
22.50	V i. St. i		• •	• •	• •	
530	veseta je sprbadiza	t-a	• •	• •	• •	2
540	Davis		• •	• •	• •	Sullivan
541	Remember me no more	•	• •	• •	* *	Robinson
543	Sweet Marie	• •	• •	• •	• •	Moore
544	wearing of the Green	• •	• •	• •		
545	Annie Laurie	• •	• •		• •	
540	i e Banks and Braes	• •		• •	(	
547	Zivila Firvatska	• •	• •			
548	U boj				4.40	
549	Bojna pyejsna					
550	Spatzin and Spatz	**	***		***	Lackenbacher
551	Les Allobroges		* *			Lucas
552	Venus steig hermeder			V	Valtz	Lincke
553	La Polka des English's	2.7		***		Allcer
554	In Friendship's Name		Sign of			Graham
555	Shepherd of Souls	90,000	Sign of	the C	cross	
		• •	3.20			Kemp
557	Pozdraw Valachu Praze		Boh	emiar	Air	Frycaje
558	Scots wha hae wi Wallac	e ble	d	***	1000	
559	Comin' thro' the Rye		**			
500	L'Americain, Quadrille (	par	ts)	* * *		Legendre
56t	The Star Spangled Bann	er				_
562	Hail Columbia					
563	Pozdraw Valachu Praze Scofs wha hae wi Wallac Comin' thro' the Rye L'Americain, Quadrille (1 The Star Spangled Bann Hail Columbia Secret Love Le Talisman, Quadrille ( Oesterreichischer Zapfen: Die Kapelle	**	J. 020 AG	Ga	votte	Resch
564	Le Talisman, Quadrille (	5 par	ts)		**	Turlet
565	Gesterreichischer Zapfen:	streic	h			
566	Die Kapelle					Kreutzer
567	Yankee Doodle					
568	De Paris à Londres	Fre	nch Pas	de Qu	natre	Lataste
569	La Parisienne		Fre	ench S	Song	Chaudoir
570	Die Kapelle	Quad	rille(5.p	arts)		
571			Fren	ch D	ance	Gangloff
572				Fan	tasia	Henri Cas
573	Berceuse Bleue	6.67			Song	Yann-Nibor
574	Mam'zelle Nitouche		. "			Hervé
575	Les Petits Pavés				"	Vaucaire
576	Berceuse Bleue Mam'zelle Nitouche Les Petits Pavés La Valse des Pruneaux Bell' Petit' Femme la! La Fête du Village	***	"		Valtz	Pourny
577	Bell' Petit' Femme la!	33	. 0		Song	Christine
578	La Fête du Village					Doria
579	La Valse des Lilas			33	ance	Queille
	The same of the second of the				GUILCE	

No.	TITLE	•			COMPOSER,
5580	Tarara Bumdera Lancers Quadrille (5 parts) Ousqu'est Saint-Nazaire?			March	Derfla
5581	Lancers Quadrille (5 parts)			••	Desormes
5582	Ousqu'est Saint-Nazaire?	5 89			Courtois
5583	Les Gardes Municipaux	1	- 55	::	Courtors
5584	Les Gardes Municipaux . Allume! Allume!		nnich	Walte	Desormes
5585	La Marche des Commis-Vo	. 01	winish	wantz	Nove
5586	La Marche des Commis-Vo Nouveau, Menuet de la Cot L'Elégante	yageurs		• •	Decare
	L'Elécarte	II The	NT.	**	Desgranges
5587	L Elegante	. Da	nse ive	Duvene	Lyon
5588	La Franco-Russe		e de constituir de la c	Dance	Chaudoir
5589	Album Duet	• • • •	M155 F	lelyett	Audran
5590	Le Chant des Zouaves .			. n	de Suchas
5591	Colonel's Song	. La Fe	mme	a Papa	Hervé
5592	Couplet du Casque, Le Coe	ur et la	Main		Lecsey
5593	Le Grognard March Camart, Quadrille (5 parts)				Parès
5594	Camart, Quadrille (5 parts)	a 24 ee		***	Turlet
5595	Josephine! elle est malade	?			Vargues
5596	Le Cheval du Municipal .			March	Courtois
5597	Tantchen aus Polzin .				Ehrke
5598	Munkelei March				Frankl
5599	Le Grognard March Camart, Quadrille (5 parts) Josephine! elle est malade Le Cheval du Municipal Tantchen aus Polzin Munkelei March Grand Waltz Adele! I'es Belle Un Quadrille à la Préfectur Chon Kina Sally in our Alley Baby Honeymoon Waltz There 'll come a time some Bid me Good-Bye for ever Sons of the Sea I don't want to play in your Gascogne Cadets March	Les	cent V	ierges	Lecocq
5600	Adele! I'es Belle				Gueteville
5601	Un Quadrille à la Préfectur			Song	Pieriet
5602	Chon Kina		The	Caicha	Iones
	Sally in our Allan		I ne	Cierana	Carey
5603	Daley in our Affey	***		**	Rogers
5604	Daby	·	**	• • • •	Rogers
5605	Honeymoon Waltz .	· · ·		**	Klein
5606	There II come a time some	Day		***	Harris
5607	Bid me Good-Bye for ever	• • •	1.5	1880	Tabrar
5608	Sons of the Sea				McGlennon
5609	I don't want to play in your	Yard			Petrie
5610	Gascogne Cadets March	Cyrane	de Be	ergerac	Poujade
1162	Gique Américaine		French	Song	Leilerc
5612	Le Palais de Glace		Salon	Dance	Sallce-Viard
5613	Gique Américaine Le Palais de Glace Danse du Flirt La Marche de l'Alliance Angels ever bright and fair La Bernayenne Rejoice greatly The Honeymoon March Dixies Land With Verdure clad Natursänger, Waltz A Geisha's Life Julchen Polka Coletta Waltz Hrvatska Polka Brod nek cuti udarka Brodar	. Fr	ench	44	Flament
5614	La Marche de l'Alliance .				Fauchey
5615	Angels ever bright and fair		Th	eodora	Händel
5616	La Bernavenne	Da	nse No	uvelle	Lust
	Rejoice greatly	24	The M	essiah	Händel
5617	The Honoumon March		THE I	Casian	Rosey
5619	Divise Land		• • •		Emmett
5620	Dixies Land	• ••,	The C		L'anten
5621	with verdure clad		the Ci	reation	Haydn
5622	Natursanger, Waltz				
5623	A Geisha's Life	5.50	The	Geisha	Jones
5624	Julchen Polka				Nentwich
5625	Coletta Waltz		Das 1	Modell	Suppé
5626	Hrvatska Polka		Kroti	an Air	
5627	Brod nek cuti udarka .				
5628	Brodar				
5629	Ia sam Hyrat				
5630	Natilitya Waltz	8 . K		777	Millöcker
	Frühlingelied	• • • • •	Spring	Song	Mendelssohr
5631	Lilahima ta naca dika		16 rot	on Air	Menuerasoni
5632	Missi see mais		Kion	all Ail	1
5633	Miruj, srce moje ,	• ••	. 10		
5634	Razstanak	• • • •	31	***	1
5635	Bubanj			. 11	
5636	On Mighty Pens	·	The Ci	reation	Haydn
5637	Brod nek cuti udarka Brodar Ja sam Hvrat Natilitza Waltz Frühlingslied Ljiebimo te nasa diko Miruj, srce moje Razstanak Bubanj On Mighty Pens Tief im Böhmerwald Couplet Die Jur				1
5638	Couplet Die Jur The Red, White and Blue	gfrau v	on Bel	levilla	Millöcker

No.		TITLE.				Composer.
5640	Mit fliegenden Stand Aus den Alpen Mona	farten		3	larch	Drück
5641	Aus den Alpen					Kremser
642	Mona					Adams
643	O for the Wings of a	Dove	40.40000	0.000	0.0000	Mendelssohn
644	Nosim zdravu misici	1	K	rotia	1 Air	
645	Diaeka piesma					
646	Slavija se digla .		• •			
647	Crnogorae Crnogork	١				
648	Lied ohne Worte (E	-Flat)				Mendelssohn
549	Be wise in Time, and	l, You swe	ar to be	good	land	
	true			Doi	othy	Schweichert
5650	Oueen of my Heart,	Waltz			,,	
651	Rikiki-Waltz					
652	Minuet		• •			Boccherini
053	Frauenlist, Gavotte .		Der G	lücks	ritter	Czibulka
1054	Prussian Army, Mar	ch No.51				Möllendorf
1155	Freundschaft und Li	ebe				Götzky
050	Entracte Gavotte			Mi.	gnon	Thomas
:657	See the conquering I	Iero comes	٠			Händel
5058	Lebe wohl	. Czar t	$\operatorname{ind} Z$ ir	nıneri	nann	Lortzing
5059	Lied ohne Worte (E Be wise in Time, and true Queen of my Heart, Rikiki-Waltz. Minuet Frauenlist, Gavotte Prussian Army, Mar Freundsehaft und Li Entr'acte Gavotte See the conquering I Lebe woll Vie Elégante Frânkopanka Noeni strazari Hrvatska Polka Yuga Sveacanje Mornarska Slava mladoste Tam gdje stoje Selsko Kolo She is the Belle of are Married		Fre	nch V	Valtz	d'Estrez
060	Frankopanka		К	rotiai	ı Air	
5661	Noeni strazari .		• •	71	91	
5662	Hrvatska Polka .		• •	**	"	
5063	Yuga			11		
5664	Sveneánje			F1	11	
665	Mornarska		• •	**	34	
5666	Slava mladoste .		• •	97	11	
667	Tam gdje stoje 🕝 .			11	11	
668	Selsko Kolo She is the Belle of		• • •			
5669	She is the Belle of	New York	t, and,	Whe	we	77 1
	are Married	. The B	elle of	New	1 ork	Kerker
670	My little Baby Ola, teach me how to				::	71
5071	Obsteach me how to	k188 13	10 4H9	1411.	YORKI	- 11
5072	They all follow me,	and, We	II stan	dand	Die	
	together		ette of	New	1 ork	11
5673	The Purity Brigade	, and, II	ie Ant	i-Ciga	rette	
,	Society	· · · · · · · · · · · · · · · · · · ·	ene or	1/6//	1 OFK	- 11
5674	Wachet auf ! ruft un	s die Stim	me		7 - 14 -	Schrammel
5075	Die Nussdorfer			· · · · · · · · · · · · · · · · · · ·	Valle	Konti
5070	Der Konigsrang .		г	iora v	vaniz	Moore
5077	The Blind Boy		• •	• •		MOOLE
678	Stratuspey and Reei	o Thuner	un	• •		Dacre
5074	I can t think of noth	ng eise ou	t you	• •	•••	Schmidt
080	Theo Gavotte .		• •	• •		Schiller
081	The Farmer's Boy .		• •	• •	•••	Malemberg
682	Dresdina Gavotte .		· · ·		Vales	Métra
683	La Screnade		Spar	nsn v	Vall2	Metta
684	Miniary March .			••	• • •	
(085	They all follow me, together The Purity Brigade Society Wachet auf! ruft un Die Nussdorfer Der Königsfang The Blind Boy Strathspey and Reel I can't think of nothing the Gavotte The Farmer's Boy Dresdina Gavotte La Sérénade Military March Wie schön leuchtet thins ist Not, ach He	ins der Mo	rgenste	rn	• • •	
080	When a Fellah has t The Lily of Laguna Gelb und weiss All over Town A Tour round Lond Some would marry a	rr, dies Ei	ne	• •	• • •	Dogers
5087	y nen a Fellah has t	urned Sixt	een	• •		Leslie Stuart
(689	Line Lily of Laguna	• •	• •	• •	• •	Commorless
(000)	Gelb und weiss		4.4	• •		Sommerlatt
(00)	All over Town	5.00	5.5	• •		Clarendon
002	A Tour round Londo	n	m			LaBrung
0013	Some would marry a Santiago Romance du baiser	nything w	un Ire	users		repinn

No.	TIT	LE.				Composer.
5696	Marche des Sous-Offs				outo-se	Faidey
5697	Sourcouf	• •	Wal	tz Ror	idean	Planquette
698				kin	· · · · · ·	- marquette
	March de l'Armée França Duo de Portrait Chanson de Magali Méchante Polka des Fantoches Mobilisons Les Voltigeurs de la 32m Bonheur des Dames Po-Paul Valse des Tziganes La Jota Piout Polka Bell Song Les Pioupious d'Auvergr	usc a	A.	lice H	Armet.	Audran
699	Changes de Mayali			1155 110	ory Cit	Mireille
700	Chanson de Magan	• •				
701	Mechante					Manuel
702	Polka des Fantoches		• •			Cazaneuve
703	Mobilisons				larch	Wohanka
704	Les Voltigeurs de la 32m	C		Schott	ische	Planquette
705	Bonheur des Dames					Jac Coen
706	Po-Paul			]	Polka	.,
707	Valse des Tziganes					Michiels
708	La lota					Turlet
709	Pi., out Polka					Hervé
710	Bell Song	Cloc	hes de	e Corne	eville	Planquette
711	Les Pioupious d'Auvergr	ne.	4.	••	• • •	Louis
712	Chanson du Cidre			Corn		Planquette
	La Sale Rosse					Garnier et Jos
713	Le Petit Vin de Bordeau		• • •	• •	• • •	Wenzel
714	Le Promline		Dueci	an Maz	meleo.	Walter
715	La Kremline	• •	ICUSSIA	tii Maa	curka	Woog
717	Les Victimes du Devoir Couplet du Mousse	61	1	٠		
718	Couplet du Mousse	Cloc		Corne		Planquette
719	Genéral Dodds Marche des Tziganes Esperanza Niniche Gavotte des Mathurins L'Angelus	• •	e		curka	Faidey
720	Général Dodds		March	e Here	oïque	Holzer
721	Marche des Tziganes		***	I	olka	Michiels
722	Esperanza		Spa	I mish V	Valtz	Rutz
723	Niniche		Suite	des V	alses	Hubans
724	Gavotte des Mathurins					Lemairs
725	L'Angelus					Wohanka
726	Mary of Argyle					Nelson
	Mary of Argyle Caller Herrin'			••		Gow
727 728	Caller Herrin' Fair fa' the Gloaming	Vincent Co.			2000	40
		N.		Unatha		Glover
729	The Hundred Divers	WH 14	acive .	ricathe	r	Giovei
730	Mark of the Comment		• •		••	Comphall
731	March of the Cameron M	en	• •	• •	• •	Campbell
733	Petersburg Army March	• •	• •	• •	• •	Haas
734	O for the Bloom of my o The Hundred Pipers March of the Cameron M Petersburg Army March La Machtagouine Irène Louisiana Lou Ich weiss ein Herz für d		• •			Ouyrard
735	Irène	***	Pol	ka Maz	urka	Buisson
736	Louisiana Lou			• •		Leslie Stuart
739 l	Ich weiss ein Herz, für d Cyclamen	as ich	bete			Rodominsky
740	Cvclamen			I	olka	Walter
741						m. 19
742	Plaisirs Montmartois	Lubad		**		Deguin
743	Regimental March					Lincke
	Le Elegme	2.5	3.50	222		Del-Fragson
744	Les Demi-Mondaines Sérénadé d'Elle à Lui El Pronunciamento	• •				Holzer
745	Cara-da um	• •	• •	• •	••	Vargues
746	Serenade d'Elle à Lui			. : ' .		Dédé
747	El Pronunciamento Train-Decauville	• •	Spa	nish M		
748					••	Carancuve
749	Cabriole Polka Polka des Canaris					Desormes
750	Polka des Canaris	***	**		50881	"
751	Ivanovna Polka			Polish	Air	Mirecki
752	Ivanovna Polka Les Chevaliers-Gardes La Voluptueuse Brillante Etape	::		Ma	irche	
756	La Voluptueuse		Poll	ka Maz	urka	Wohanka
757	Brillante Etape		Pr	lka-Ma		Turlet
758	Brillante Etape Thérésa March		***			Michiels
	Gayant, Pas Redoublé			1.0		Delahaye
759	Ta D'il Ominania					Desrousseaux
760	Le P'tit Quinquin	* *				Pesionsseury
761	Let em all come					

No.	TIT	LE.				Composer.
5762	Confidential, Song		G	rcek S	lave	S. Jones
5763	I should rather like to try			1)		))
5764				"		,,
5765	I'm a naughty, naughty	Girl		,,	J.	
200	Vania			Interm	ezzo	Victor Parma
766	Xenia	• •			larch	Trenkler
5767	wangeriust	•••	••		aten	Händel
5760	Largo	• •			71	Spofforth
5770	Hair! Smiling Morn	• •	• •	• •	••	Pontet
5771	Big Ben	• •	• •	• •	• •	Klein
5772	Down the River again	• •	••		larch	Souza
5773	El Capitan	• •	• •			Hahn
5774	Big Ben Down the River again El Capitan Gambrinus March Licheswerben	• •	••		Valtz	Ohliger
5775	Liebeswerben	• •	• •			Onliger
5776	Merry Men of Hanover	• •	• •	• •	• •	
5777	Dansk Arbejder	• •	• •	• •	• •	
5778	Heil dir, o Oldenburg	• •	• •			
5779	The Mistletoe Bough		• •	• •	• •	
578o	The Gallant Twenty-Fir	st	• •	• •	• •	Crook
578 t	They were all occupied		• •		• •	McGlennon
5782	Merry Men of Hanover Dansk Arbéjder Heil dir, o Öldenburg The Mistletoe Bough The Gallant Twenty-Fir They were all occupied Columbian National Hy The Nowigh Favourite	mn		• •	• •	Sindici
5783	The Norwich Favourite Where is my Boy to-nigh					
5784						Lowry
5785	Little Teddy Brown dow	m at	Margit			Dickson
5786			• •			Sidney Jones
5787	They're coming on again					Murray & Leig
5788	It's a great big shame					Le Brunn
5780	All in a Row					Deane
5700	The Sunshine of Paradis	e All	ev			Bratton
5792	Half-past Nine					Le Brunn
5793	La Noal des Gueny					Vargues
5794	Lobe den Herrn	••	• •			Neander
	Nun danket alle Gott					Krüger
5795 5796	Ihr Kinderlein kommt Blumen-Waltz Le Pays de Mireille Sumava Ave Maria Danse du Ventre Der Blumen Pracht.		••	• •		Schultz
5799	Blumen-Wultz		• • •			Blum
5800	Le Pays de Mireille		• •		- : :	Brés
	Cumanus	•••		Valtz S	iong	Blobner
5802	A Masia	• •		· GILL C		Schubert
5803	Described to the state of the s	• •		P	ا داله	Clark
1085	Danse du ventre	• •	•••		otte	Klose
5805	Colombia Practica	••	••	Car		Métra
5806	Cadets March	Tiol	ton bea			Motita
807	Am Weihnachtsbaum die	Lici	iter bre	mich		Yates
ROR	Deo Gratias	71 7	arbier	4: °C		Rossini
810	Ecco ridente in ciclo			ui Sev	altz	Pealer
1185	Such is Life	• •	• •	V		Darnley
812		• •	• •	• •		
5813	A little bit off the Top	• •	• •	••	•••	Murray
814	It'll take a lot of that to t	ıpset	me	• •	•••	D C
5815			••	::		Bennet Scott
5816	Gabrielle de la Périne		Polk	a Mazı		C - 1 - 1
819	Glorious Beer					Goodwin
820	Glorious Beer			• •		
821	De Tennessee Christ'nin			• •		
824	Josephine De Tennessee Christ'nin The Sly Cigarette Land of my Home Not the sort of Girl	T	he Rur	iaway	Girl	Monckton
825	Land of my Home Not the sort of Girl		91			
826	Not the sort of Girl		",	"		
827	The Singing Girl		**	11		
828	The Singing Girl Follow the Man from Co	ok's	**	11	1	
829	Far away over the Sea	• •	11	11		

TITLE	•			Composer.
Beautiful Venice The Boy guessed right	The R	unaway	Girl	
The Boy guessed right			,	
Ist den kein Stuhl da für m	eine Hi	ılda		Wolff
Sweet Rosy O'Grady	The R	unaway	Girl	
Written in the Lining of his	hat			
Sweet Rosy O'Grady Written in the Lining of his Verlor'nes Glück Ridder Rap O'Ridder Ro.			9	Sprowache
Ridder Rap O' Ridder Ro.	1	Danish:	Song	
Ben Bolt Gustave III. March Meeting of the Waters Mainzer Narhalla March Die kleine Witwe The Man of the wide, wide				
Gustave III. March				
Meeting of the Waters				
Mainzer Narhalla March	60 600	9,900	200	Zulehner
Die kleine Witwe				Aletter
The Man of the wide, wide	World			
The Bugler	0 60	5.50	***	Pinsuti
Bedouin's Love Song		• •		_ ,,
The Bugler Bedouin's Love Song The Miner's Dream of Hor I'll Marry Him Dotty-Otty A Midnight Son For all Eternity I'll give him Dolly Daydre	ne	490		Dryden
I'll Marry Him				Darnley
Dotty-Otty		0.00	• •	L. Arnold
A Midnight Son		4.40	***	
For all Eternity				Mascheroni
I'll give him Dolly Daydres	m			
The Dream of Paradise .		• •		Gray
Let me Dream again .				Sullivan
Selection	. Lal	Belle H	élène	Offenbach
You've got a long way to go				
Cockles and Mussels .				
Kitty of Coleraine .				
Love's young Dream				
O steer my Barque to Erin	's Isle			
The Rose of Tralee				1
What will you do Love? .		* *		
The Daughter of the Regin	ent			Donizetti
Turkish Polka				C. D'Albert
Nice Station				
Divorce Polka				J. Talon
Hark the Herald Angels sir	ıg	F	lymn	
As your hair grows whiter.		• •	• •	H. Dacre
I want my Lulu	• • • •		• •	St. Clair
Honey Dear, I do love you		• •	• •	Lennox
Humpty umpi ay		• •	• •	McGlennon
A Midnight Son For all Eternity I'll give him Dolly Daydre: The Dream of Paradise Let me Dream again Selection You've got a long way to go Cockles and Mussels Kitty of Coleraine Love's young Dream O steer my Barque to Erin The Rose of Tralee What will you do Love? The Daughter of the Regin Turkish Polka Nice Station Divorce Polka Hark the Herald Angels sir As your hair grows whiter. I want my Lulu Honey Dear, I do love you Humpty umpi ay There are moments when o	• • •	•		Rogers
There are moments when o	ne want	s to be a	alone	
Everything in the Garden 's	lovely			Le Brunn
All together		••		Pearl
She's good enough for me	• ••	• •	• •	William
Oh! If Mamma only knew	• •	• •	• •	
Landjäger March	• ••	* *	• •	Rixner
Bier Waltz	• ••		• •	
Bundeslied	. Chan	t patrio	tique	117.1
Es lebt in jeder Schweizerb	rust	• •		Weber
An mein Heimathland .	• ••	• •	• •	Baumgartner
U du himmelblauer See .				Millöcker
Das Grütli		SWISS	Song	•Greith
Le l'etit Garçon Suisse .		199		
Bundeslied Es lebt in jeder Schweizerb An mein Heimathland O du himmelblauer See Das Grütti Le Petit Garçon Suisse Départ pour les Alpes Adieux aux Montagnes Swiss Hymn.		44		
Adieux aux Montagnes .		- 11		
Sures Hymn.				1

No.	TITLE.				Composer.
5947	Shall I be an Angel, Daddy				Collins
5951	There is a green hill far away	٠			C. Gounod
5952	Freedom Song	A (	Greek S	lave	S. Jones
5953	The Girl of my Heart				0
5974	Selections		Mar	itana	"
5975	May Queen Mazurka				Klein
5983	High-class Chaperone	A	Gaiety	Girl	
5984	Jimmy on the Chute				- 8
5985	I really find it better far			,	
5993	Home Sweet Home For old Times Sake		• •		
5998	For old Times Sake		• •	• •	C. Osborne
100,0	Serenade Berceuse				Gounod
0,002	Tricks on Travellers	• •	• •		
0,003	Don't you know		• •		Stahl
0,004	Let us be friends as before	• •	• •	• •	Tillbury
0,005	Rolling, Bowling along	• •	• •	••	Dacre
0,006	My Little Octoroon	• •	* *	• •	Stuart
0,007	Kelly the Carman	•/•	• •	• •	Stuart
0,000		• •	• •	• •	Murphy
010,0	I'd like to go halves in that A Jovial Monk am I	• •	7 D.		F. Leo
110,0	Mr. O. Contract	• •	La Po		Audran
0,012	A lane street an artifica		• •	• •	Templeton
0,013	We've all got something to sh	OW **	• •		Metz
0,014	Topsy		• •		Murphy
0,015	Hush now, don't you wake his	n ::	• •	• •	Newman
0,016	All Coons look alike to me			•••	Hogan
0,017	Murphy's Talking Parrot			::	Wincott
810,0	A Story of a Musical Box			::	Stephens
910,0	Ringing the Changes		300		Otophona
0022	The Gipsy's Warning			::	
0,023	Break the news to Mother				
0,024	What ho! She Bumps		• •		
0,025	Good-bye and God bless you	Jack			B. Scott
0,026	I got married this morning	••			
0,027	A Frangesa March				
0,028	The Coon Drum Major	• •			
0,029	The Cake Walk	20,414	• •		
0,031	You do get something for you	r Mon	еу	• • •	Perry
0,032	Johnny	• •	• •	••	Perry
0,035	Unto you is born this day	• •	н	ymn	
0,036	The first Noel	• •	• •		
0,037	Good King Wenceslas	**		arol	
0,038	O come all ye Faithful	••		ymn	
0,039	Oft in the Stilly Night	••			Moore
0,040	Barney O'Hea Christians Awake	••			
0,042	Sally Sally, Shilly Shally	••		ymn	
0.043		• •	• •	••	
0,045	Parkton Other	••	••	••	Clouds
0,046	Part 14 F Part	••	• •	••	Glover
0,048				••	
0,050		••	••	••	
0,051		••	• •	••	J. W. Nubley
053	Coster's Sister Brothers in Arms	•••	••	••	Newton
0,054	In the pale Moonlight	••	••	••	Clifford
0.055	Waltz Cotillon		•	• •	Cimora
,056	Exile of Erin	::	••	••	
0,057	Di b, de Moon am Shinin'	::	::	::	Stromberg

No.	TITL	E.				COMPOSER.
50,061	They were very very good	l to me				
50,062			***	***	***	
50,063	Absent Minded Beggar					Sullivan
50,064						Bradford
50,065	See-Saw Waltz					Crowe
50,066	Stars and Stripes for ever					Sousa
50,069	Mignon Salon Dance	***	606			
50,073						Ascher
50,089	The British Volunteer	• •				C. Wade
50,090	The Last Muster					
50,091	The Promise of Life					Cowen
50.095	I'll be your Sweetheart (B	lue Be	:lls)	100		
50,099	Le Temps March	• •				
50,104	Hello! my Baby					Emerson
50,105	Commissionaire			5.50		Hastings
50,114	Loreley					
50,119	Mary was a Housemaid	***				
50,120	The Naval Brigade		• •			
50,122	Roberts to the Front					Quintin
50,123	Obedient to the Call The March to Pretoria		2.20	5.50	***	Faning
50,124	The March to Pretoria			6.60	• •	Bonheur
50,127	The British Grenadier		• •		• •	
50,135	Bravo Dublin Fusiliers	• • • • •			• •	
50,136	What do you think of the		wor		• •	1
50,137	The Bore of Bef'nal Gree	n	22			
50,138	When the Boys come Hon	ne	Mess	senger	Boy	
50,139	A good old London Town			-:-		
50,140	Tact				odora	
50,154	L Amour Mysterieux, Pol	ka		Ca	rmen	Bizet
50,155	Mia matre io veggo ancor		• •		22	Bizet
50,161	0 1 37 1			• •	••	
50,162	Cavalry March	• •	• •	• •	•••	Jude
50,164	For Queen and Country It is well	•	* *			D D
50,169	It is well		• •		lymn	P. Bliss
50,170			• •		lymn	
50,171	Ninety-and-Nine		• •	• •	**	
50,172	T! - 33F 12			• •	11	
50,184	FINE TT. PRO		• •	***		
50,185	Lo! He comes with cloud		• •		Iymn	
50,186			• •	• •	**	
50,187	O, what a Saviour ! Hark, hark my Soul!	• •	• •	• •	(M)	
881,02			• •		11	
50,189	My Soul has found abidin	· ·	••	• •	11	
50,190	O worship the King!	ig rest		• •	15	
50,191	Shall we gather at the rive		• •		11	
50,192			••		"	
50,195	Ring the bells of Heaven	••	• • •		**	
50,196	I know He is mine	•	•	• •	97	
50,197	Waiting and watching	••		• •	11	
50,198	The Lads in Navy Blue	••	• •	• •	**	
50,199	It's hard to say Goodbye	• •	• •	• •	• • •	
50,200			• •	• •	• •	
50,203		• •	• •	• •	**	
50,205		••	• •	ė.,,	Toy	
50,209	Lady's Maid Petals of the Plum Tree	• •				
50,210			••		(0)	
50,211		Tond	• •		*	
50,212	Love has come from Lotus			••	••	
50,213	Butterfly	• •			200	1

No.	TIT	LE.				Composer
0,214	Chinee Soger Man			Sa	n Toy	S. Jones
50.215	The Silver Star of Love			Flor	odora	L. Stuart
0,216	1.171 F 1 199	(*) *1				**
0,217	The Fellow who might				**	
0,218	Phrenology				**	
0,219	The Millionaire				.,	27
0,220	winsting bong				**	**
0.223	Rhoda and her Pagoda	• • •	***			100
0,224	I must love someone		• •	Flor	odora	L. Stuart
0,225	Under the Shade of the	Pair		******		0 .
0,220	Ambolena Snow	• •		DATE OF THE PARTY OF	Ballad	G. Maywood
50,227	Idylle Valse				***	
50,228	Souvenir Valse			**	••	
0,229	Pogotoure Polka My Love	• •	• •	C		
50,230					tische	
50,231	The Empire	**	**		March	
0,233	In Sanft-ruhiger Nacht Two Dark Eyes				Song	
50,234	The Victoria Cross	• •			ntasia	
50,235 50,236	I've an Inkling	::			odora	
50,237			::	1.14/1	Waltz	
50,238	She is a Sensible Girl				******	
50,239	Sweet Katie Morgan					
50,240	My Pretty Kitty Mahone	e				i
50,241	Molly.,	Ar	Amer			
50,242	Walthers' Prize Song				singer	Wagner
50,244	Gigerl March					
50,245	Santa Lucia		Near	politan	Song	
50,240	Love's Old Sweet Song					
50,253	Schon die Abend Das N	acht	lager v	on Gr	anada	Kreutzer
50,255	Chin Chin Chinaman			The C		
50,257	In diesen heil'gen Halle	п	The	Magic	Flute	Mozart
50,258	Beauty's Eyes			••		Tosti
50,260	The Last Watch	**	2.5	• •	2 ***	Pinsuti
50,262	Excelsion		• •	• •	Duet	Balfe
50,264	Marching			24	••	Trotere
50,265	Excelsior Marching Quanti a te lieta For ever and for ever	• •			uerita	Gounod
50,266	For ever and for ever	• •	Mar	••	. P	Tosti
50,267	Love or Gold	••		ssenge	Song	
50,268	Poppyland Waltz	• •			• • •	
50,269	Little Tam O'Shanter		• •	• •	• • •	
50,271	Ma Curly Headed Baby	• •	• •	• ••	- ::	
50,272	Away in Ohio			• •	- ::	
50,273	Plenty of room in the Pa	ırk				
50,274	Julie Jewell					
50.275	The Empire and the Tiv	oli				
50,276	If you love, tell me, do!					
50,277	Smoke, Smoke (Framed	in (	Dak)	• •		
50,278	Sweeter dan de Sugar fro	om d	e Cane			
50,279	The duty of a wife				••	
50,280	The Lambeth Walk				••	
50,285	Der flotte Studio March		The Jo	olly St	udent	Fahrbach
50,300	Boccaccio			Ser	enade	
50,302			• •			Gounod
50,305	La donna è mobile	• •	• •	Rig	oletto	Verdi
50,309	High School Cadets' Ma				• •	Souza
50,310	It's nice to have a home					
50,311	Take her and be to her a			244.02		

50604. D'ye her John prel 50606. Dando across the Lea. 50607. amoureuse. 50608. When I marry amelia 50609. Archie Loreador. 50610. Jacase Peace Country Gil 50611. Go ho-little Girlo. 50612. Elnder the Deodar. 50613. Tronddley Sits 50614. martha Spanks. 50615. a Sailors Lie 50620. The Lorse the missio clo. 5.625. The milles Daughlir. 5062 & The Culomobile Honeymoon 50627. Looping the Loop with Ling 50628. Good life mignorette J'06 29. The made by my mind to to

## as some may be out of Stock.

No.	TITLE.	Composer.
50,312	Three Women to every Man	
50,313		
0,314	Goodbye Daddy!	
0.315	Just as the Sun went down	
0.316	When the Boys in Khaki all come Home	
0,317	The Scroll of England's Glory	
0,318	Everybody loves you	
0,319	The Banshee	
0,326		
0,327	The Girl you Love	
0,328	Ma Tiger Lily	
0,329	The Civilian	
0,330	Ma Blushin Rosie Song	
0.357	Just One Girl Song	Udall
0,358	Are we to part like this Bill!	Collins
0,359	I guess I'll have to telegraph my Baby.  The Girl you Love  Ma Tiger Lily The Civilian Ma Blushin' Rosie Song Just One Girl Sony Are we to part like this Bill? She's my Wife Song Valse Bleue A simple little String Circus Girl Because I love You Once we were Sweethearts Morris Dance Henry VIII.	Rogers
0,380	Valse Bleue	A. Margis
0,390	A simple little String Circus Girl	
0,395	Occause I love I ou	
0,396	Marria Dance	Comments
0,397	Sharbarda' Dance Helify VIII.	Germain
0,398	Torch Dance ,,	"
0,399	Morris Dance	-17
0,417		
0,418	Two Eyes of Blue	
0,449	Four-and-twenty little Men	
0,420	Class	
0,421	Class  If you wish to appear as an Irish Type.  When Alfred's friends their King forsook Oh, setting Sun, you bid the world goodbye Oh, have you met a man in debt Oh the age in which we're living.	
50,427	When Alfred's friends their King forsook . = .	
50,428	Oh setting Sun you bid the world goodbye = 5 5	
50,429	Oh, have you met a man in debt	
50,430	Oh the age in which we're living	
50,435	Whistling Rufus	Mills
0,436	A poor little Dummy am I La Poupee	E. Audran
50,437	Love, could I only tell Thee Song	Capel
0,438	I can't tell why I love You "	Edwards
0,439	Mary of Argyle and Allen Water	
0,440	Daily in our Arrey and Campucha are coming	
0,441	Ye Banks and Braes and Robin Adair	
453	Sweet and Low Lullaby	Barnby
0,480	Liza Johnson; or, The Ragtime Coster	Brunn
50,502	Honeysuckle and Bee Song	Penn
50,503	Goodbye Dolly Gray	Hill
50,509	A Bird in a Gilded Cage	7 D
0,538	Davis Court	Le Brunn
50,539	Down South	C F
0,540	The Carisha in the Wood	G. Everard Michaelis
0,541	Lusting Driller (Jelly Prothers) Walter	
0.545	Liza Johnson; or, The Ragtime Coster Honeysuckle and Bee Goodhye Dolly Gray A Bird in a Gilded Cage You can have a Sweetheart any day Down South. Coronation Day The Snithy in the Wood Lustige Brüder (Jolly Brothers) Coronation Prize March	Vollstadt
0,540	Coronation Prize March	Percy Godfrey Dacre
50,558	I may be crary but I love you	Stuart
50,568	Oh, Flo! Motor-car Song I may be crazy, but J love you Everybody's loved by Someone The Permans' Brooklyn Cake Walk By the Swapee River: a Com's Dream	Scott
0,575	The Permans' Brooklyn Cake Walls	Thurban
0,570	By the Swanee River; a Coon's Dream	Myddleton
2,594	What a Funny Game Song	Mills & Scott
0,595		Marita de Deott
0.597	Cindy, my Black Belle, do?	Clark "

# When ordering Tunes, kindly mark a few extra numbers, as some may be out of Stock.

					_	()
No.	TITI	E.				Compose R.
4	A state of the second					
ON, 508	You will excuse me, won'	t you	1 1	563		Dix
1,600	The Child of Nazareth					Gray
3031	My Oucen Waltz					Coote
5947	The Skater's Waltz					Waldteufel
3008	La Czarine Mazurka					Canne
5133	Castaldo March					Novacek
5200	Espana Waltz					Waldteufel
5211	Estudiantina Waltz					
= 364	Dear little Jappy-Jap-Jap	pv		The (	ieisha !	S. Jones
5434	La Traviata Libiamo					Verdi
5484	Wolf March					J. Strauss
5768	The Greek Slave Waltz					Kiefert
5798	Les Chambres			Cl	anson	Christine
5809	Norma				Duet	Bellini
5822	I would that my Love					Mendelssolm

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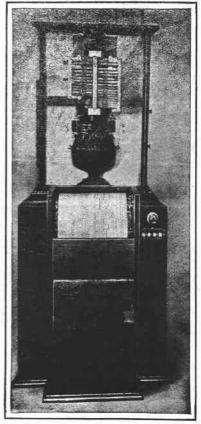
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#### AN AUTOMATIC VIOLIN PLAYER.

BY GEORGE GILBERT.

In view of the present popularity of the piano player, and the marvelous perfection this instrument has attained in reproducing the work of the best musicians, it is very evident that it will be only a question of time before other musical instruments must similarly surrender to mechanical control. The latest development along this line is a machine which will play violins and kindred instruments. As may well be imagined, the violin offers difficulties which are peculiar to itself, and we are not surprised to learn that the violin player illustrated herewith is the culmination of seven years of continuous labor and experiment.

The instrument requires no alteration in the violin itself, and any violin may be placed in the player and removed without injury. The parts are pneumatically controlled in a manner similar to that of the ordinary plano player. A perforated music sheet selects the notes which are to be sounded. This sheet travels over a "tracker board," provided with the usual ducts in which an exhaust is maintained. There are two ducts for each note, and as these are uncovered by perforations in the music sheet, the air rushing into one of the ducts acts through the medium of the usual valves and pneumatics to press a finger down on one of the violin strings at the proper point on the finger board, while the air in the other duct puts into operation the bowing mechanism of this string. The bowing is done by means of four crystal disks, one for each string. In the accompanying drawing the details of the bowing mechanism are shown. Fig. 1 illustrates a section taken through the body of the violin A. The strings are indicated at B. The disks C. with which the bowing is done, are an inch in diameter and 1/4 of an inch in thickness. They are mounted in the ends of levers D, which are connected to the pneumatics E. When one of the bow ducts is uncovered, it operates a valve, which connects its respective pneumatic E with the exhaust chamber of the machine. The pneumatic is thus deflated, swinging the lever D to which it is connected, and bringing the disk C on this lever into contact with the selected string B. The disk C is rotated at high speed by means of a belt, which is guided along the lever D, as best shown in Fig. 2, and runs over a pulley F at the opposite end of the lever. When the lever D is swung into operative position by the pneumatic E, the pulley F is brought,



Front View of the Automatic Violin Player.

into contact with a driving pulley G, and is set in motion by a frictional contact therewith. This motion is communicated to the disk C, which operates on the violin string. The speed of revolution may run up as high as 2,000 revolutions per minute. The rate at which the disks revolve determines the loudness of the tones. A device is provided for applying rosin to the disks. This consists of a small cup attached to a spring arm and containing rosin, which bears against the revolving disks.

The fingers of the violin player are sixty-five in number, although more can be added if desired, to reach the extreme high range of the A and E strings. There is a finger for each note. The model shown employs fingers reaching the seventh position. In front of each string is stretched a rubber band, upon which the ends of the fingers strike, thus producing a touch like that of the human finger, and making it possible to imitate the "slide." The tremolo is produced by a set of four hammers, which are actuated by electric vibrators of the type used in call bells. When a hammer vibrates against a string, next to the bridge, the tremolo effect is produced on that string. All the

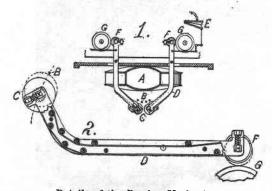
strings may have this effect, or one, as the character of the music demands.

Directly over the violin are four small pitch pipes, which are blown, on pressing a button, by causing air to pass through the pipes, each of which gives the tone of one of the strings, G, D, A, or E. The operator then tunes the violin in unison with the pitch pipes.

Violinists know that it is hard to keep a violin in tune. But few appreciate that this is due to the sweat of the player's fingers, which makes the strings stretch. Strings on instruments placed in the violin player do not need much tuning. Silk E strings have been found to last two months, and have stayed in tune two weeks without attention.

The tempo is varied by means of a friction pinion which is moved radially on the face of a large driving wheel. This device for varying the tempo enables the simulation of rubato passages when it is operated by a skilled musician.

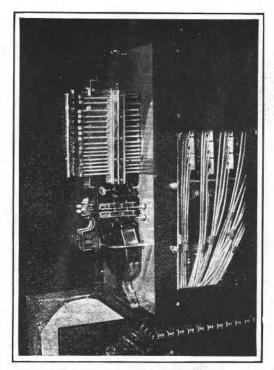
Instruments of the violin family have four strings, each with a range of two octaves. The violin player enables each string to be treated, at will, as a separate violin, as each bow is controlled by a separate mechanism. In the model shown, the higher portions of the G and D strings are not utilized, but they can be by supplying extra fingers. Notes on a violin are found sometimes on each of the four strings. For instance, the G above the treble staff may be struck on all the strings; so that if a trill were being performed on that note on one string, an arpeggio passage containing the



Details of the Bowing Mechanism.

same note could be produced on the other strings. Of course, no human player could do that. It is possible for the player to render a solo part, with a cello accompaniment on the bass strings, or a solo with two accompanying violin parts, all on one violin. The possibilities for combinations of orchestral effect, therefore, are seen to be many.

Harmonics are produced by the application of just enough pressure to a finger to make it rest lightly in the string sounded, thus imitating the action of the human finger. Trills are produced with striking clearness by providing a series of small perforations in the



Side View of the Player Casing Opened to Show Ducts.

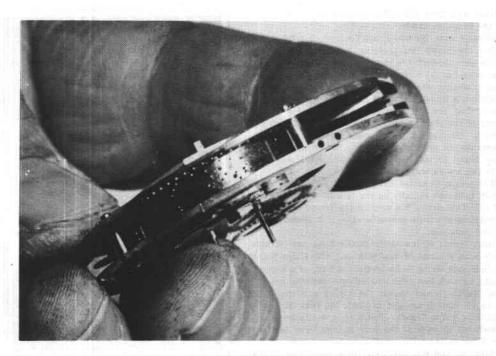
#### AN AUTOMATIC VIOLIN PLAYER,

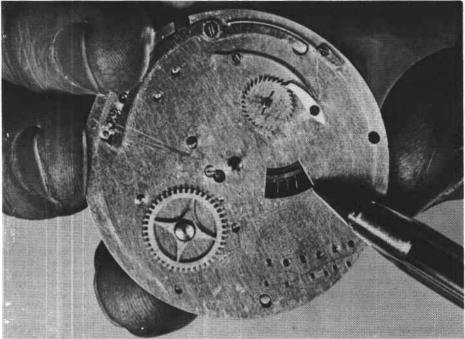
music roll. The same principle applied to the bow pneumatics produces springing bow and flying staccato.

In making the first music rolls for the player, the inventor, Prof. Wauters, of Binghamton, N. Y., had many technical details to solve. Instruments having fixed strings or tones are played on the tempered scale. But violins play on the untempered chromatic scale, and therefore it was necessary for Prof. Wauters to lay the groundwork for producing music rolls for instruments of that character.

#### TRUTH CANNOT BE CIRCUMLOCUTED

Your editor recalls an amusing event which took place a while back in the United States when a sleek official of the Federal Aviation Administration was assuring a group of journalists that damage to buildings from sonic booms was usually in peoples minds. At that very moment, a thoughtless pilot in an F-104 dragged the field at supersonic speed — and the shock-wave blew the windows out of the building leaving the said FAA man hopefully looking for a Wurlitzer to play him out. . . . .





An early Swiss musical watch made by Henri Capt and featuring a barrel mechanism in a gold case. From the collection of Member Dr. Benoit Roose of Antwerp, Belgium.

#### THE

# HUPFELD

# PLAYER-PIANO



SOLOPHONOLA DUOPHONOLA TRIPHONOLA



#### THE HUPFELD PLAYER-PIANO.

#### CIRCULATING LIBRARY.

Rolls can be obtained on the Circulating Library System.

RATES:—	
For Solophonola	4 Guineas per annum.
., Duophonola	6 , ,.

.. Triphonola 6 ,, ...

For further details see special prospectus.

From the library of The Editor

#### THE

# HUPFELD PLAYER-PIANO.



HE firm of **Hupfeld** was originally established in 1892 for the purpose of manufacturing on a large scale all kinds of mechanical musical instruments. At that time mechanical music was mainly produced by instruments of the musical box type. The tinkling sound resulting from the turning of a handle was looked upon as the utmost that could be hoped for in the way of producing music, unless one were prepared to spend years in learning and practising the Piano, Violin, etc.

For some years, however, attempts had been made to use Rolls of perforated paper for the purpose of playing the organ. Mr. Hupfeld had carried these experiments a step further. He was convinced of the possibility of playing the Piano by means of a perforated roll, and as a result of his experiments a Piano Player in Cabinet form was evolved, that is to say, a machine in no way forming part of the Piano, but an entirely separate entity placed in front of the keyboard.

This was very quickly perfected and numerous patents were obtained. For some years the factory was almost entirely engaged in the production of these Piano players. It was not until the early years of the present century that a successful method was found of embodying the player mechanism inside the Piano. Numerous technical difficulties stood in the way, but by 1904 5 these were overcome and the present day Player Pianoforte came into being.

The first **Hupfeld Player Pianos** were of the 73 note type only, that is to say, large sections of the Piano in the extreme bass and the extreme treble were not operated by the Player mechanism at all.

About 1908 the full compass player, playing the whole of the 88 notes of the Piano was perfected, and this is the type now in general use all the world over. Numerous special devices for emphasising the melody notes, working the loud pedal, etc., were added, to which further reference will be made later.

The **Hupfeld Player** acquired an enormous reputation on the Continent of Europe, where in fact for many years it was practically without competition. So busy indeed was the manufacturer kept by his continental orders that little or no effort was made to develop the English market.

In 1910, however, a few Blüthner Pianos were sent to London which were fitted with the **Hupfeld Player**, and these at once roused considerable interest amongst connoisseurs. The ease with which they could be operated, the responsiveness to the touch of the operator, the superlatively high standard of workmanship, were something of a revelation to the English Piano dealers. With little or no advertising the **Hupfeld Player** was proclaimed as a product of the very highest class. It may almost be said to have won its reputation "overnight."

Ever since that time there has been a steady demand for the **Hupfeld** productions, particularly, it should be added, amongst those who may be described as Player Piano enthusiasts. Improvements are of course constantly being effected, the firm of **Hupfeld** possessing in fact not less than 250 patents.

Amongst other features it is interesting to note that in its present form the use of wood and rubber has been almost entirely eliminated, and the action is now mainly a metal product.

The great bulk of the Player actions produced by the factory in the past has been of the well-known type operated by pedals. In recent years however, additional types operated by the ordinary electric light current of domestic use, having for their object the reproduction of the performances of the great Pianists, have been introduced. As a result it is now possible to buy the **Hupfeld Player** in three different forms:

- The ordinary foot-blown Player referred to above, which is known as the Solophonola;
- 2. The player reproducing the original performance of a Pianist and operated solely by the electric current, known as the **Duophonola**, and
- The player which can, at the option of the owner, be operated either by pedals like the Solophonola, or used in the same way as the Duophonola. This is the famous **Triphonola**.

Inasmuch as all these instruments can, of course, be used by hand as ordinary pianos, it will be seen at once that every conceivable requirement is provided for.

Those who want to play themselves, giving vent to their own musical feeling, that is to say, those who wish to enjoy all the sensuous delights of playing the Piano with the facility of a brilliant Pianist, will naturally turn their attention to the Solophonola. The purchaser who, although a lover of music, is doubtful of his own ability to give an adequate performance of the works of the Great Masters, will tend to be interested in the Duophonola, while the Triphonola caters for both types of buyers.

It is largely a matter of taste. We must confess that we ourselves favour either the Solophonola or the Triphonola, because of the possibility of using them oneself. **To play the Piano** is the ambition of most people; both the Solophonola and the Triphonola enable them to do so, while the Duophonola, although to a great extent controllable by levers, is mainly intended to relegate the owner to the position of listener.

In the following pages will be found a description of the varying types.

#### THE SOLOPHONOLA.

It has been explained above that this is a Player which is operated by pedals only, that is to say, without the human element the instrument is dumb. We emphasise this because we want to bring it home to the reader that in this player it is the human element, with its varying moods and emotions, that predominates. With the Solophonola you play the Piano yourself every bit as much as you would were you playing by hand, and this is so because the makers have solved the problem of making the action respond to the lightest touch of the operator. The pedals are so sensitive that with the slightest extra pressure a forte or fortissimo effect can be obtained, while only the very minimum of effort is required to obtain the pianissimo and more delicate shades of tone. Another point is the feeling of "touch" which the operator enjoys through the pedals. Every nuance of expression is attainable. He can stroke out the tone of the Piano as does the most soulful pianist one can imagine In short, the Solophonola turns the untrained music-lover into a magician who can charm not only himself but also his hearers. With little or no practice every vestige of mechanical effect is eliminated.

It must not be supposed that the pedals are the only means provided for obtaining musical expression. The auxiliary "gadgets" of the Solophonola are unique in their efficiency and above all in their simplicity. There is, for example, the SOLODANT, which enables the performer to emphasise the melody notes. Easily worked (its use can be learned in a minute or two), this device in itself makes the Solophonola stand out pre-eminent amongst Piano players. Then there is the lever for graduating the accompaniment. With this the melody or theme of a composition can be emphasised while the accompaniment can be made to rise or fall to the will of the performer. There is, too, a device for **automatically** operating the "loud" or sustaining Pedal, and also for making the so-called "soft Pedal" come into action when necessary without any effort on the part of the performer. You can by means of the TRANSPOSER play any composition in NINE different keys. The advantage of this in accompanying Songs need not be

enlarged upon—it is obvious. A TRACKING DEVICE to keep the Music Roll in position is of vital importance. In the Solophonola the tracking device does its work silently and efficiently.

It only remains to add that the Solophonola is the very last word in high-class workmanship. Remove the front panel of a Hupfeld Player Piano and you will experience the same glow of pleasure that you enjoy when you open up the bonnet of the tip-top motor car. Its conglomeration of highly finished metal parts proclaim it at once a "proper engineering job." Every note is a single unit interchangeable with any other note. One of these units can be removed and re-inserted in a few seconds if desired. Accessibility has been considered in the construction. prospective owner need not be alarmed at the prospect of having to make continual adjustments; he need never touch the action. Should, however, any small adjustment be found advisable by the Piano tuner, for example, this accessibility constitutes a great advantage. What might take hours in the old-fashioned wooden Player can be done in a few minutes on a **Hupfeld.** All parts are made of a non-corrosive metal, which ensures not only durability but also enables the whole mechanism to withstand the most adverse climatic conditions.

To sum up, the **Hupfeld Solophonola** is, without doubt, the very finest example of Player Piano construction in existence, and can be thoroughly commended to the discriminating purchaser.

#### The DUOPHONOLA and the TRIPHONOLA.

We now come to the more recent developments in the Player world, the so-called Reproducing Pianos. We have mentioned above that the **Hupfeld Duophonola and Triphonola**, with the aid of the ordinary electric light current, can reproduce the performance of the great Pianists. This result is of course only attained by using a special type of Music Roll on which the performance in question is faithfully recorded. Before going into further details concerning the Player action, it may be as well to give a short explanation of the method by which this record is obtained.

Instead of taking the score, the manufacturer engages a pianist of recognised ability and distinction, who is capable of performing a composition in a way to satisfy even the most punctilious critic. The artist is informed that it is desired to obtain a reproduction of say, a Nocturne of Chopin. He seats himself at the piano, and performs his nocturne precisely as he would do were he performing at a concert in the presence of a critical audience. He gives rein to his emotions and plays the composition as he feels that it should be played. He introduces into his playing all the rallentando, accelerando, rituendo effects, and nuances which go to make up an artistic as compared with a mere mechanical performance.

The making of the actual record is a perfectly simple matter. Every note of the piano is connected by an electric wire to a corresponding row of pencils which are superimposed on a strip of paper revolving on a drum. Every time the artist strikes a note, the corresponding pencil is brought into contact with the paper. So long as the artist keeps his finger on the note, the pencil produces a line on the paper. Immediately he releases the note the pencil leaves the paper and the line is brought to an end. It will thus be seen that if the pianist strikes a chord with even the slightest arpeggio effect, this is immediately reproduced on the pencil record. When he plays a scale each note is reproduced just that length of time during which the artist holds his finger on that particular note. If he makes a pause on any one note, so is this shown on the record by the extra length of pencil line resulting from this pause. Should he accelerate a certain passage, so will this be recorded by the shortening of the pencil lines. When he has finished the composition, the strip of paper with the pencil lines is taken from the drum of the reproduction instrument, and wherever the pencil lines are visible the paper is perforated. From this "Master Roll," rolls to an unlimited number can be manufactured.

The touch or dynamic force is recorded by means of a separated pneumatic contrivance which records the force with which each note is

struck by the Pianist. This record is then combined with the record of the tempo explained above, by the addition of extra side perforations at the margin of the Roll. These are generally called the expression perforations.

It is not proposed to give a long description of the technical working of these expression holes. It is sufficient here to explain that they control the touch of the Player action in precisely the same way as the human operator does through the pedals of the Solophonola. From the lightest shades of pianissimo to the heaviest fortissimo the original touch of the Pianist is recorded.

We can now visualise a performance by the Duophonola or the Triphonola. Imagine, for example, we want to hear the Ballade in G minor played by Busoni. The Roll is inserted, the button is pressed and immediately a veritable miracle is performed. The opening phrase of this monumental work swells out with all the majesty and force that the Great Master, Busoni, could give to it. We hear his interpretation of one of the world's masterpieces. On the Duophonola or the Triphonola you can actually hear Grieg play one of his own compositions. In short, The Hupfeld Reproducing Piano brings the world's greatest composers and performers into your own home. In lighter And what better accomvein you can have Jazz and dance music. paniment to dancing in the home than that of a full-toned Piano? Remember, it is the instrument itself you hear, not a mere distorted reproduction Press the button, the music you want is there. At the end of the piece, the Roll, without your moving a finger, will re-roll itself automatically, ready for another performance. Such is the Reproducing Piano!

<sup>\*</sup> In this connection it is interesting to note that with many if not all Reproducing Players except the Hupfeld, there are no additional expression perforations on the margin of the Roll. The holes at the end of the scale, that is the extreme bass and treble, are used for expression purposes, with the result that the notes at both ends are dumb. The Duophonola (and of course, the Triphonola) plays every note on the score and the original record need never be faked as is the case with other Players.

Do not, however, imagine that you have no control whatever over the Reproducing Pianoforte. The Tempo can be set to suit your liking and if you wish you can put in your own expression, when using an ordinary roll, by means of the Expression levers and buttons provided. Full instructions how to do this are given in our Brochure—"How to play the **Hupfeld,**" which gives in simple language the little help that is needed to enable you to obtain the utmost satisfaction from all three types of Players—Solophonola, Duophonola, and Triphonola. Thus the Duophonola need not be entirely automatic, although, of course, as already explained, it is primarily constructed for those who want to listen rather than perform.

So-called, because it can be used in three ways, electrically, by pedalling, or by hand, the **Triphonola** is the culminating point in automatic Piano playing. It can be used with pedals like the Solophonola, by those who wish to perform themselves, or it can be used as a reproducing Player as described above.

With the **Triphonola** all tastes are catered for, and this, too, at a very small extra cost as compared with the Duophonola. We would recommend the purchase of a Triphonola in preference to a Duophonola for many reasons. One does not always want to be only a listener. Remember that, sooner or later, the owner or one of his friends will want "to have a shot at it" himself. Electric light currents have been known to fail: with the Triphonola you always have the pedals as an alternative. **You can use the same** Rolls for either purpose, so do not be alarmed at the prospect of having to keep a double stock on hand. But, above all, we repeat, remember that **if you want to do so you can play the Triphonola yourself.** Think well of this before you are tempted to buy a Player without pedals. The real joy of a Player Piano lies in the fact that you can play it yourself, whereas with the wireless or the Gramophone you can only listen. Therefore, say we, but a Player Piano!

#### TERMS OF PURCHASE.

Hupfeld Player Pianos can be bought either for cash or by instalments spread over any period up to three years. Only a small charge for interest is made; the extortionate methods sometimes associated with Deferred Payments are not countenanced by us. Any model, whether in the Blüthner or the less expensive Pianos will be delivered immediately on receipt of the first instalment (a heavy deposit is not demanded) and the purchase can be completed while you enjoy the use of the instrument.

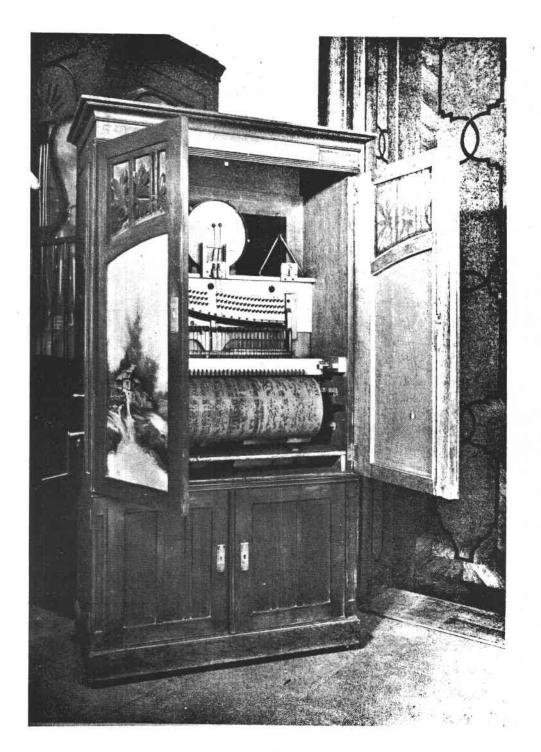
ANY MAKE OF PIANO WILL BE TAKEN IN PART PAYMENT.

#### ANIMATIC ARTIST ROLLS.

The **Hupfeld Solophonola** can be used with any standard 88 note Roll, but the Animatic Artist Rolls give the best results. We have already described above how the Rolls for the Duophonola and Triphonola are manufactured. Rolls made in similar fashion are also supplied for the Solophonola. Although of course, the touch or dynamic force with which the note is struck is in the case of the Solophonola controlled by the operator, the phrasing and tempo are provided by the skilled musician who has made the record. Thus all trace of mechanical effect is eliminated. You can still control the tempo by means of the levers, but the general "shape" of the composition is properly set out and a really bad performance is an impossibility. There are thousands of rolls in existence made from records of the world's greatest Pianists.

It should be added that these rolls can be supplied on the Circulating Library system on terms set out over-leaf.

A complete catalogue and list of artists will be sent on application.



this monograph.

# ČESKÉ AUTOMATOFONY ЧЕШСКИЕ АВТОМАТОФОНЫ CZEH AUTOMATOPHONES

When, in 1922, Alfred Schnerich discovered original compositions by Haydn on the cylinder of a flute-playing clock made for Prince Esterhazy by his Librarian, a Czech called Primitiv Němec, music historians turned their attention to the automatophonic instruments.

Hitherto, however, no monograph has yet been written about them. This has been due partly to the fact that people with a musical education have always been against mechanically produced music and partly because automatophonic instruments were not considered as musical instruments proper. Meanwhile, these grew fewer and fewer every day as soon as the modern gramophone and radio came upon the scene. Museums did not pay much attention to this aspect of musical culture and before they realized it, it was too late. Only a few automatophonic instruments have been preserved, most of which are of exquisite make and considerable artistic value, bearing vivid testimony to man's skill and wit. These are scattered about in the collections of various museums and most of them have never been expertly catalogued.

In 1948, the National Museum in Prague did not possess a single automatophonic instrument and the National Technical Museum, where these instruments would have been equally in the right place because of their mechanisms, was not much better off. To-day the Music Department of the National Museum has 75 such instruments which are mainly of Czech origin and it is the study of these instruments which has led me to write

In order to play a musical instrument one needs a certain amount of talent which is not granted to everybody. So, from time immemorial, people have sought to create such musical instruments as could be played by anybody having neither skill nor any previous musical education. The mechanisation of musical instruments is as old as music itself. At the beginning man was content to perfect his own voice and the technique of playing on musical instruments. But then, however, primitive musical instruments miraculously began to develop into instruments which were technically becoming more and more complicated and to-day, all musical instruments are really mechanical.

The development of musical instruments shows that man has constantly added to the mechanical devices he used in the production of music and that each addition bettered the quality of music produced. The playing on any musical instruments involved a certain amount of mechanism and all music becomes more and more mechanical the less it involves the

use of any part of the human body, such as lungs, mouth or hands, in its production. The following instruments mark the rising scale of mechanisation: string instruments, tinkling instruments with a finger-board, wind instruments, pianos and organs. At the head of this scale is the human voice used in singing which is absolutely non-mechanical, and, at the bottom, are the automatophonic musical instruments which stand for the absolute mechanisation of music playing. Just as the singer produces music only with his own self, so the automatophonic instrument plays only upon its own self and requires no outside intervention.

Musical instruments such as the gramophone and radio that are now constantly within man's reach throughout his life, have had their origin in automatophonic musical instruments. Up to the first thirty years of our century, hand-organs, mechanisms with nail-studded cylinders, orchestrones, pianolas and other automatophonic instruments have reigned supreme among music-rendering mechanisms that enjoy a tradition of many centuries upon European soil and whose history is joined to the his-

tory of the evolution of mechanics in general.

There exist only some isolated reports concerning the efforts made to impersonalize music and render it independent from the individuality of the musician during the Middle Ages in Europe. Such instruments spread wider afield during the tempestuous and artistically sensitive Renaissance which raised mechanics above art. Of course the idea to render music through some exact mechanism could only be carried out when the art of clock-making replaced sand and water clocks with artistic clock mechanisms. That is why the history of automatophonic instruments is so closely connected with that of the art of clock-making.

During the seventeenth century automatophonic instruments became the subject of much thought on the part of contemporary scientists and writers. The vigorous spread of automatophonic instruments during the eighteenth century kept pace with the lively interest which music enjoyed during this century. A penchant for creating queer and eccentric things, so typical of this century, found a full outlet also in automatophonic musical instruments. Longing for what is transcendent, for the exciting utterances and manifestations it involved and the eager willingness to take part in any sudden intervention by the power of God such as a miracle, caused people to readily accept mysticism and superstition, thus lending themselves without difficulty to deception and illusions. They heard supernatural and mysterious powers in the sounds produced by Aeolian Harps and automatons were transformed into living beings in their eyes. They were now no longer content to imitate human motion, but wanted the automaton to speak and sing as well.

Towards the end of the eighteenth century a talking machine made by Wolfgang von Kempelen of Pressburg caused a great sensation. This imitated the voice of a child and uttered distinctly simple words. At the beginning of the nineteenth century Prof. Robertson produced his phonoaugon. Joseph Faber's Talking Turkish Woman who could not only pronounce whole sentences in various languages, but could also sing, was considered by contemporary specialists as a triumph for human inventiveness. The German physiologist, Johann Müller tried to lure melodies out of a



carefully treated throat by blowing through it. Here threads and weights replaced muscle action. Müller suggested to the opera theatres to buy the throats of dead men and women singers which, after being treated, would sing the most beautiful songs and a r i a s and so fees paid to living singers could be saved. This fantastic suggestion shows how great was the human longing for the preservation of sound. J. N. Forkel and the French theorist for the production of automatophonic instruments, F. Engramelle, wanted to preserve the music played by great artists and the works of composers with the help of automatophonic musical instruments. Engramelle, for instance, expressed his regret that works by Lully, Rameau, Couperin and other famous composers have not been preserved in this way.

The literature of music is rich in works composed for automatophonic musical instruments. Hans Leo Hassler composed a song for "a kind of organ which would play of itself without any interference from another singer whatsoever!". A. Kircher published a Ricercata by the German composer J. K. Kerll as an example of what kind of compositions are suitable for automatophonic organs.

Automatophonic instruments flourished considerably during the period of the Vienna classics when there even came into being a considerable independent musical literature formed of compositions by the greatest masters. It has only recently been discovered that Joseph Haydn composed at least 32 works for flute-playing clocks. W. A. Mozart has also composed pieces for automatophonic instruments. Altogether three such compositions by Mozart have been preserved. Mozart entered the first of these composition into his list of themes as "Ein Stück für ein Orgelwerk in einer Uhr" (K.V. 594). The second (K.V. 608) he called "Orgelstück für eine Uhr" and the third is marked as "Für eine Walze in eine kleine Orgel" (K.V. 616). Even Beethoven did not avoid composing for a flute playing clock. His four compositions for this instrument are to be found in his copy-book where are also four out of six variations for four hands on the theme of Goethe's song: "Ich denke Dein!". Beethoven's work "Wellingtons Schlacht bei Vittoria" had originally been composed for Mälzel's automatophonic instrument called the panharmonikon. The Viennese pianist and favourite composer at the time, A. Eberl, as well as Cherubini and Salieri wrote compositions for the automatophonic instruments of the Mälzel brothers.

At the beginning of the nineteenth century when the mentality of the period was reflected everywhere, whether in the delicate porcelain bibelots or in the house interiors, the automatophonic instruments with nail-studded cylinders came into being. In a short time these began to compete seriously with all other automatophonic instruments hitherto produced, because of their small size and charming sound.

The rapid rise in production power created favourable conditions for solving problems which people had earlier attempted to solve in vain. Capitalism, which developed practical sciences on a hitherto undreamed-of scale, had at its disposal numerous outstanding scientists and famous inventors who could satisfy human longing for new scientific knowledge and discoveries. Thus even where automatophonic instruments were concerned,

there was no invention which was not used to further the developing pro-

duction practice.

The most important of these inventions was a pneumatic mechanism which was put to full use in the production of all automatophonic instruments and of the pianola in particular, which could be controlled by man in so far as timing and dynamic effects were concerned. The electric pianola and the trifonola were capable of reproducing to some extent the music of the artist who "played" the perforated rolls. Hence the people's growing preference for the playing of famous piano virtuosos to that of mediocre interpreters. The Berlin radio broadcast pianola music side by side with that of gramophone records as late as 1930.

Hitherto, inventors and constructors of automatophonic instruments had been driven by the ambition that their instruments should play music that came as near as possible to that interpreted by living artists. The music played by automatophonic instruments had been composed mostly for other musical instruments. However, when pneumatic instruments were introduced, this encouraged the composition of music only for these instruments—a music which could not even have been played by man, but only by an automatophonic musical instrument. And only from this moment on, has the automatophonic instrument been placed on a basis of equality with other musical instruments and become capable of producing a music of its own, for there now existed a music for it just as there existed

piano or orchestral music.

P. Gaubert composed scenic music for Calderón's "The Miraculous Magician". This composition is for a small choir and orchestra, the chief instrument of which is the pianola. Igor Stravinskij mentions a piece he composed for the pianola. His interest in this instrument was revealed not only by his efforts to help pianists in the correct interpretation of his works, but also by the fact that the problems which pianola music presented, enriched his creative work. G. Antheil followed in Stravinskij's footsteps with his "Ballet Mécanique" and so did P. Hindemith and E. Toch, who, in 1925, presented their compositions for automatophonic instruments at the chamber music celebrations in Baden, and a year later at Baden's Donaueschingen. However, the tendency to consider the pianola not merely as an automatophonic kind of piano, but also as a new instrument for which it is necessary to compose in a quite different manner than for the piano and for which it is even necessary to compose in a new way, taking into account its specific peculiarities, began to gain ground already at a time when musical instruments were swiftly and irretrievably driving it into the background. That which followed the trifonola was already a new art, the art of perfect sound registration and its faithful reproduction, the art of musical instruments.

If we follow the development of music in Europe beginning from the Middle Ages, we see that it emerges from vocal music and develops into instrumental music, i. e. it emerges from organic music and moves in the direction of mechanical music. This effort to eliminate from the production of music the intervention of man whose technical performance is subject to so many physical and spiritual shortcomings has been best rewarded by the automatophonic musical instruments. The capable mechanics and

courageous inventors who created and fashioned them often had to suffer for their skill and courage at the stake, for they were considered to be magicians and charlatans.

Automatophonic instruments alone have preserved for us the practice of music in olden times. Their playing cylinders and perforated rolls served the same purpose and fulfilled the same function as modern sound registration. They afford us, therefore, valuable information concerning the tuning of musical instruments and the ornaments and tempo of the composition of the time. The constructors of orchestrones rendered a valuable service to the instrument trade by the use of new mensural organ pipes with which they tried to gain a tone-colour more similar to that of orchestral instruments than those of organ stop pipes. Automatophonic instruments with tongues have contributed a great deal to the development of musical instruments where freely vibrating tongues produce the tone.

The research work hitherto undertaken in this field leaves us no doubt that organology can give a satisfactory explanation of the origin of piercing tongues only after the so-called "pipe" automatophonic instruments have

been thoroughly examined.

Winkel's genial automatophonic instrument, the componium, marks a considerable step forward in freeing music from the individuality of man. Winkel has shown with his instrument that certain compositional processes, such as variations, can be confided to mechanism. The pneumatic automatophonic instruments of our century have emphasized these possibilities still further. The use of the pneumatic mechanism has made actual the old problem of "scientifically perfect music" which has sprung from the assumption that music as had been rendered hitherto was not perfect. The pneumatic automatophonic instruments replaced the interpreter's playing by a perforated roll on which the notes were registered in the manner of a melogram. If the notes on this roll were registered by different artists playing the same piece, various deviations resulted. And it was these deviations from the standard, that is, from the geometrical precision of the drafted picture of this same composition that expressed the "personality" of the playing and, if need be, the personality of the player. The finer and more sensitive the registration, the better did it register the individuality of the artist. But when the composition was not played by another artist but was registered direct by the composer himself, then the melogram showed a most perfect picture of geometrical exactitude with its corresponding sound effect: an exactness which could never be achieved by human interpretation—a perfect realisation and a perfectly dehumanised playing.

The doom of automatophonic instruments has not, however, spelt an end to the tendency of replacing man by a mechanism in music. On the contrary, the process of dehumanisation has been strengthened by a development which is following two separated ways, the one leading to musical and the other to electrophonic instruments. There is no doubt that automatophonic musical instruments have played a great part in this evolution which has made the most daring dreams of acousticians and inventors

of the past become a reality.

To-day music is being reproduced mechanically with absolute fidelity and the voices of famous singers are preserved to posterity without the need of treating their throats after death as was suggested by the physiologist Müller. And although to-day automatophonic instruments have only a historical value, we nevertheless view them with respect. For it is solely to the tireless efforts of their creators—the real pioneers in the use of the technique of music—that we owe the wonderful achievements we have reaped in the technique of sound registration.

That is why the glory of to-day's mechanical art—by this is meant the art which is transmitted from the artist to he public by mechanical means, i. e. the film, radio or gramophone record—is really due to the discoverers and inventors of earlier times. Radio and television, electrophonic instruments and modern sound-registering machines would certainly not be existing to-day, were it not for the courageous discoverers and inventors of the automatophonic musical instruments.

## **Book Review**

# Church and Chamber Barrel-Organs

Their Origin, Makers, Music and Location

A Chapter in English Church Music

SECOND REVISED OF ENLARGED EDITION



by
Lyndesay G. Langwill
and the late Canon Noel Boston

When Lyndsay Langwill and Canon Noel Boston decided to collaborate on preparing a book on church barrel-organs, fate alone knew that Canon Boston would pass on ere their task would be complete. The work was completed by the former author, published in 1967 and reviewed in THE MUSIC BOX vol. 3, page 210. Privately published with the help of a guarantee from the Marc Fitch Fund, it speaks well both for the interest in the barrel organ and in Langwill and Boston's book that the first edition was sold out inside a year.

Now we have before us a second, revised and enlarged edition. Much of the doubtful typography of the preceding edition has been revised and the layout markedly improved. Six new illustrations bring the number of plates to 33 and two further appendices are included which provide fifteen specimen tunelists and a listing of the sources and composers of sacred tunes. Also new is a short foreword by W.L.Sumner of Nottingham University who rather surprisingly makes reference to the Dutch "dray-organ". The present reviewer cannot record ever having seen a musical beer cart, be it Dutch or Austro-Musicale! The editor of THE MUSIC BOX, Arthur Ord-Hume, has one again provided a chapter on barrel organ mechanisms.

One critiscism remains of Mr. Langwill's book — and, indeed, could there be a kinder one? It is, simply, that the title of his work may deter the interested but unadventurous reader. This book may be "a chapter in English church music". — it is also a most interesting peek into the history of a oncemaligned and now very collectable instrument.

R.A.

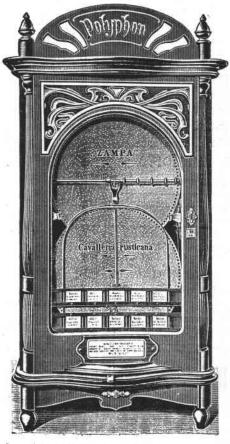
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# WINWICK CHURCH BARREL ORGAN

by K. G. Parrott

FIRST heard of Winwick Church Barrelorgan in July 1968 but the story really began three years earlier, for it was in 1965 that I first became aware of Mechanical Musical Instruments. It was during my second visit to a traction engine rally that I first saw the wonderful Golden Gallopers with a fair organ in the centre. For many years I had enjoyed music of various sorts, though I could not distinguish a minim from a semi-quaver. But here was a mechanical device which could play the most wonderful music all by itself – it was from this point that my interest in mechanically produced music began.

Unable to afford — or accommodate — a fair organ, I bought a player piano. It was about forty years old and had not been used for some time, Before long the air motor developed leaks and then more and more notes refused to play as the old and brittle fabric on the pneumatics began to crack. I knew nothing about the "works" of the instrument so I decided to learn "the hard way" and set about stripping it down to re-cover all the pneumatics. By the time I had finished I knew how it operated, and had a fully working instrument once more.

After the player piano came two musical boxes. Firmly believing that these instruments should be heard and appreciated by as many people as possible, various friends were invited in to hear them. It was from one of these friends that I learned of the existence of the Winwick barrelorgan, and some weeks later I made the first of many visits to Winwick Church. There was the organ, standing in a corner of the South Transept. The bats had left their marks upon it, as had the decorators and it had clearly been neglected for many years. Two or three barrels stood in the corner, dirty and battered with countless bridges reduced to broken bits of wire. All I could do was look at them, saddened by the thoughts of such neglect.

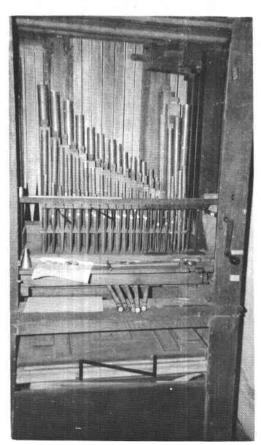
More weeks passed and then I received a message that the Vicar was interested in having the organ restored. I met him at the church, checked over the organ, and finding that the most serious defect was a shortage of wind due to leaky bellows, decided that although I had not worked on an organ before it was a job I could attempt having gained so much experience on the player piano.



The Winwick organ was presented to the chuch by the then Rector about the year 1864, but there is reason to believe that it may have been built twenty or thirty years earlier. The "maker's" label is that of William Prowse, late Keith Prowse and Co., 48 Cheapside, London, and this is the only barrel-organ known to carry his label.

I do not propose to describe here the detailed operation of a barrel-organ as this has already been done in Chapter 2 of Church and Chamber Barrel-Organs by Langwill and Boston, and elsewhere. I shall therefore give only the details applicable to the Winwick organ.

There are eighty-four pipes arranged in five stops-Bourdon, Diapason, Stopped Diapason, Principal and Fifteenth. There is a dual use of pipes at the lower end of the diapason stops but basically the Bourdon and Stopped Diapasons are wooden flue pipes, the remainder being metal. Twenty-one keys are operated from the barrels which are rotated by a detachable crank handle. The notes do not form a chromatic scale but are only those needed to play tunes in the keys of G and D. Wind is provided from a weighted reservoir



and bellows operated by a foot lever. The organ was unusually well provided with music, having seven barrels each of ten tunes, one barrel being chants, the remainder hymns. Fortunately complete lists of all the tunes still existed in good condition.

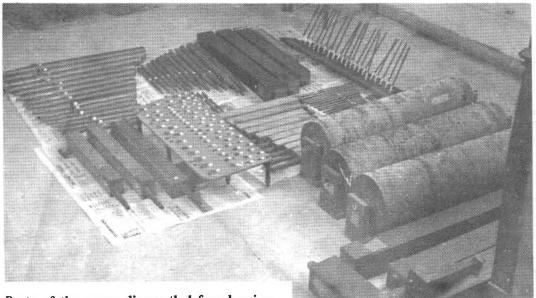
The first step in restoring the organ to working order was to remove the incredible amount of dirt which had found its way inside. They key frame, pipes and pipe rack were removed from the organ case, a careful note being made of the position of each pipe before removal. Taking out the sound board was a fairly lengthy job as many of the screws were badly corroded, but once this was done the slides were exposed. A few minor repairs were carried out on the key frame and then all parts thoroughly cleaned and reassembled.

Despite the removal of all obvious foreign matter from the pallet facings a number of notes persisted in sounding without the keys being operated. At one stage I was convinced that there must be leaks due to cracks in the woodwork, but closer inspection revealed some very tiny particles of plaster left in the pallets and once these were removed the trouble ceased.

The organ was still short of wind due to holes in the white skin corner pieces of the bellows which had obviously been patched by some previous repairer. All the old skin was removed and replaced with new material, a satisfactory wind pressure then being obtained. At last the time had come to really try the organ. A barrel was inserted — and at that point I realised I had left the crank handle at home!

While all the above work was being done I had also been searching for a cource of rectangular section wire for repairing the damaged bridges on the barrels. This I eventually discovered from a fellow member of the Fair Organ Preservation Society who had done a similar job on a barrel operated fair organ. Although the tunes on the barrels were recognisable not one was complete so I chose fourteen of the best known tunes from three barrels and set about repairing each of these. Fortunately in most cases the bridges were only cracked at one of the corners or had the top of the bridge missing so that it was easy to remove the old wire, leaving two holes in the wooden barrel for insertion of the new. Some bridges, however, had broken flush with the surface of the wood, and these were a little more difficult, in the first place to find, and when found, to remove. The number of bridges to be replaced varied considerably from tune to tune and barrel to barrel but on average it took about two hours per tune to replace all damaged bridges.

All that remained to be done was to check the tuning of the pipes, and this was a job for someone with experience. My interest in barrel-organs had led me into correspondence with Mr. L.G. Langwill and in checking the present condition of some of the other local church barrel-organs for the second edition of his book I met Mr. E.W.Timmins, an organist and choirmaster in Rugby, who had done a great deal of work on organs and who offered to tune the Winwick organ. The wooden pipes, being stopped, are readily tuned by adjustment of the



Parts of the organ dismantled for cleaning.

stopper in the end of the pipe. The metal pipes are tuned by coning, that is the pipes are cut by the organ builder to almost the exact length for the note to be sounded, final adjustment being made by bending over the top edge of the pipe to give exactly the right effective length, Normally only very small adjustments are required, but over the years and apparently due to inexperienced tuners, a number of pipes had been severely distorted and the ends split so that it was no longer possible to obtain the correct pitch. In these cases the damaged tops had to be cut off and new pieces soldered on to bring them back to the proper length. In some cases too, excessive hammering of the coning tool had caused the hole in the foot of the pipe (by which the air enters) to close up, and these had to be opened up again to enable the pipe to sound correctly. A few pipes also required some adjustment of the mouth. All this work on the pipes was done by Mr. Timmins as a preliminary to the actual tuning procedure.

The organ was now in usable condition and it was felt that the occassion should be marked by using it in some kind of special service. A service of Evensong followed by Hymn Singing was therefore arranged for a Sunday evening in August 1969 and the use of the organ for this service was announced in the Parish Magazine and a Rugby paper. After the many hours of labour by Mr. Timmins and myself with the assistance of our respective families the interest aroused was most gratifying. We were interviewed by Coventry and Northampton newspapers and given a most generous amount of space including a large photograph in each. The B.B.C. learnt of our activities and as a result an interview and recording of the organ was broadcast on the Midland Region

programme on the morning after the service — a broadcast heard by friends as far away as Edinburgh and the Welsh coast. Two special demonstrations of the organ were also arranged and these were attended by a total of just over forty people.

Although the organ had been made usable, there was still room for improvement in the condition and adjustment of certain parts. During the following winter months there was little opportunity for using the organ so these parts were dismantled for further work to be done. Several of the wooden pipes had split at the joints and have been stripped down and remade. They key frame had warped and was no longer parallel to the surface of the barrel so that some kevs were lifted more than others. By prolonged natural drying it has become nearly straight once more and we hope that sealing it with varnish will prevent it warping again. With this work and a few other minor repairs and adjustments completed the organ can again be put into playing order. This done, attention may once more be concentrated on repairs to the barrels, so that we can hear the hymns and chants as our predecessors heard them a hundred or more years ago.

#### Acknowledgements.

I would like to thank the Rev. M.T. Porteus, Vicar of West Haddon with Winwick, for permission to work on the Winwick Barrel-Organ and to publish this article.

I would also thank Member L.G.Langwill for his interest and encouragement, and for including photographs and revised notes on the Winwick organ in the second edition of his book.

#### **CURIOSITIES**

FOR

#### THE INGENIOUS:

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#### Automaton Chess Player.

THE construction of machines, capable of imitating even the mechanical actions of the human body, shew exquisite skill; but what shall we say of one, capable not only of imitating actions of this kind, but of acting as external circumstances require, as though it were endowed with life and reason? This, nevertheless, has been done. M. de Kempelen, a gentleman of Presburg, in Hungary, has constructed an Androides, capable of playing at chess! Every one, who is in the least acquainted with this game, must know, that it is so far from being mechanically performed, as to require a greater exertion of the judgment and rational faculties than is sufficient to accomplish matters of greater importance. An attempt, therefore, to make a wooden chess-player might, à priori, seem almost as ridiculous as to make a wooden preacher, or counsellor of state. That such a machine really was made, however, the public have had ocular demonstration. The inventor came over to Britain in 1783, and exhibited his automaton to public inspection for more than a year. He paid this country a second visit in 1819, when his invention excited as much wonder as ever, notwithstanding the vast progress made in the interim in mechanical science.

The room where it was exhibited, when seen by the writer of this article, had an inner apartment, within which appeared the figure of a Turk as large as life, dressed after the Turkish fashion, sitting behind a chest of three feet and a half in length, two feet in breadth, and two feet and a half in height, to which it was attached by the wooden seat on which it sat. The chest was placed upon four castors, and, together with the figure, might be easily moved to any part of the room. On the plain surface, formed by the top of the chest in the centre, was a raised immovable chessboard, of handsome dimensions, upon which the figure had its eyes fixed, its right arm and hand being extended on the chest, and its left arm somewhat raised, as if in the attitude of holding a Turkish pipe, which was originally placed in its hand.

The exhibitor begins by wheeling the chest to the entrance of the apartment within which it stands, and in front of the spectators. He then opens certain doors contrived in the chest, two in front and two in the back, at the same time pulling out a long shallow drawer at the bottom of the chest made to contain the chessmen, a cushion for the arm of the figure to rest upon, and some counters. Two lesser doors, and a green cloth screen contrived in the body of the figure and its lower parts, are likewise opened, and the Turkish robe which covers them is raised, so that the construction both of the figure and chest internally is displayed. In this state the automaton is moved round for the examination of the spectators, and to banish all suspicion from the most sceptical mind that any living subject is concealed within any part of it, the exhibitor introduces a lighted candle into the body of the chest and figure, by which the interior of each is in a great measure rendered transparent, and the most secret corner is shewn.

The chest is divided by a partition into two unequal chambers. That to the right of the figure is the narrowest, and occupies scarcely one-third of the body of the chest. It is filled with little wheels, levers, cylinders, and other machinery used in clock-work. That to the left contains a few wheels, some small barrels with springs, and two quarters of a circle placed horizontally. The body and lower parts of the figure contain certain tubes, which scem to be conductors to the machinery. After a sufficient time, during which each spectator may satisfy his scruples and his curiosity, the exhibitor recloses the door of the chest and figure, and the drawer at bottom, makes some arrangements in the body of the figure, winds up the works with a key inserted into a small opening on the side of the chest, places a cushion under the left arm of the figure, which now rests upon it, and invites any individual present to play a game of chess.

To avoid, however, the obstructions which might be occasioned by the inattention of stranger antagonists, in moving the pieces as required exactly to the centre of the squares, the adversary does not play at the same board with the automaton, but has a chess-board to himself, on which he copies the automaton's moves and makes his own; while a person, who attends at the automaton's board, copies with due precision for the automaton the adversary's moves.

The automaton makes choice of the white pieces, and always gives the first move. It plays with the left hand, the right arm and hand being constantly extended on the chest behind which it is seated. This slight incongruity proceeded from inadvertence in the inventor, who did not perceive his mistake till the machinery of the automaton was too far completed to admit of the mistake being rectified. At the commencement of a game, the automaton moves its head as if taking a view of the board; the same

motion occurs at the close of a game. In making a move it slowly raises its left arm from the cushion placed under it, and directs it towards the square of the piece to be moved. Its hand and fingers open on touching the piece which it takes up, and convey it to any proposed square. The arm then returns with a natural motion to the cushion, upon which it usually rests. In taking a piece, the automaton makes the same motions of the arm and hand to lay hold of the piece which it conveys from the board, and then returning to its own piece, it takes it up and places it on the vacant square. These motions are performed with perfect correctness, and the dexterity with which the arm acts, especially in the delicate operation of castling, seems to be the result of spontaneous feeling, bending at the shoulder, elbow, and knuckles, and cautiously avoiding to touch any other piece than that which is to be moved, nor ever making a false move.

After a move made by its antagonist, the automaton remains for a few moments only inactive, as if meditating its next move, upon which the motions of the left arm and hand follow. On giving check to the king, it moves its head as a signal. When a false move is made by its antagonist, which frequently occurs through curiosity to observe in what manner the automaton will act (as, for instance, if a knight be made to move like a castle), the automaton taps impatiently on the chest with its right hand, replaces the knight on its former square, and not permitting its antagonist to recover his move, proceeds immediately to move one of its own pieces, thus appearing to punish him for his inattention. The little advantage in play which is hereby gained makes the automaton more of a match for its antagonist, and seems to have been contemplated by the inventor as an additional resource towards winning the game.

When a move is once made, no alteration in it can take place, and if a piece be touched it must be played somewhere. This rule is strictly observed by the automaton. If its antagonist hesitates to move for a considerable time, it taps smartly on the chest with the right hand, which is constantly extended upon it, as if testifying impatience at

his delay.

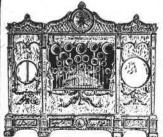
During the time the automaton is in motion, a low sound of clock-work running down is heard, which ceases soon after its arm returns to the cushion, and then its antagonist may make his move. The works are wound up at intervals after ten or twelve moves, by the exhibitor, who is usually employed in walking up and down the apartment in which the automaton is shewn, approaching, however, the chest from time to time, especially on its right side. It is pretended, indeed, that the automaton cannot play unless M. de Kempelen or his substitute is near to direct its moves; but it is very certain that the whole mystery lies in the chest, and that there can be no connexion with the floor or any part of the room, as the inventor advertises his willingness to exhibit at private houses. A person, who could beat M. de Kempelen, was of course certain of conquering the automaton. It was made in 1769. His own modest account of it was "that it was a mere bagatelle, not without some merit as a piece of mechanism, but the effects of which depend chiefly on the happy means employed to produce illusion.'

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From L. G. Langwill, 7 Dick Place, Edinburgh EH9 2JS.

Patrick McCrossan of Wallington. Surrey, writes:-

In response to your article on Nicole Freres in the last issue, I would like to offer some further information gained from the examination of a considerable number of boxes by this maker. In particular I suggest that Nicole did not cease production of their own boxes around 1880, but continued manufacture until 1903.

Firstly if we look at Clark's list of serial numbers and dates, it appears that in the twenty years from 1843 to 1863 they produced about 15,000 boxes, yet in the following FORTY years, 1863 to 1903, they produced only 12,000 boxes. This includes an output of only two thousand boxes in the last five years 1888-1903.

These figures suggest that ther must have been some sort of a re-organisation as early as the 1860-70 period. As the demand for boxes was still very good at this time, it is likely that Nicole started handling boxes of other makes then, to supplement their own output. This could explain the existence of some boxes bearing a genuine Nicole tune sheet, but with a movement quite definitely not of Nicole manufacture. It is also significant that even today, in spite of their greater age, just as many earlier pre-40,000 series boxes turn up as do later ones.

Looking at the construction of the movements, they are unquestionably "typically Nicole" up to at least the middle of the 46,000 series, or about 1882. A twelve air two-per-turn No.46684, apart from being leverwind, is basically the same as two-per-turns of thirty or more years earlier. After this date bigger changes do creep in. Movements of all makes tend to take on a coarser and more standardised appearance at this time, and Nicole was no exception.

I believe there may have been firms that the big manufacturers sub-contracted to, churning out nothing but governor assemblies, mainspring assemblies etc. S.B.I. certainly was doing a roaring trade in bedplates and comb bases for most makers.

A straightforward 8 air box No.47172, c.1885, with cast iron bedplate, has a completely anonymous design of governor, untypical of earlier Nicole products that could lead one to think that the movement was not of Nicole make. However, the musical arrangement is typical and the comb is stamped Nicole Freres in the same style of lettering, about 1/16" high, as has been used from the beginning. The name is stamped in larger capitals a little later. Another feature that runs right through their production from 1839 to 1903 is the practise of neatly stamping the serial number on the end of the cylinder at the extreme edge. Nicole were also the only make to consistently stamp the serial number on the bedplate during the cast iron period. It is presumably easier to put a stamp on brass than cast iron, therefore most other makers were content to put numbers on the cylinder bridges etc.

I have seen a forte piano box No. 52784 with the forte comb having the base teeth on the left and the piano comb having the base teeth on the right, as in all their earlier forte piano boxes. This

# LETTERS TO THE EDITOR

particular comb arrangement seems to be unique to Nicole. Though made right at the end, the musical quality of this instrument was superb.

My conclusion is that from the early 1880's Nicole ceased to manufacture all the component parts of their boxes, but in most cases used standardised parts obtained from specialist manufacturers, and were just responsible for the combs and cylinders. In fact Clark states that some of the cylinders were set up at the London premises after 1888.

I am keeping a record of the serial number, type, programme, and other details of each Nicole that I handle, and from this one can establish quite accurately when certain constructional changes took place.

- (1) It is well known that the change over from keywind to leverwind took place at the end of the 39,000 series, about 1863. However, this only applies to the standard production 4, 6, 8, 12 air types. Lever winding seems to have appeared at least five years earlier on the more elaborate types of movement. I have recorded two examples in the 34,000 series. No.34915 hidden drum and bell, No.34924 six overture. Both have internal 3 lever control platform, date about 1857. Earlier boxes than these with leverwind seem to be converted keywind.
- (2) The third instant stop control was dropped on standard models in the 42,000 series, about 1872, but appears on more elaborate boxes as late as the 46,000 series, ten years later. No 46566 forte piano four overture is an example.
- (3) The smooth polished brass bedplate gives away to a ribbed bedplate early in the 44,000 series, about 1880 Cast iron bedplates first appear in the late 46,000 series, but brass bedplates continue on some elaborate movements to the end. Interchangeable full orchestral No.52119 is an example.
- (4) It seems that Nicole painted all their bedplates gold from the later 46,000 series whether made of cast iron or brass. I recently acquired No.46566 with painted bedplate and assumed it to be cast iron until removal of the combs showed that it was brass. I put this down to a later overhaul until a second box turned up with a similarly painted brass bedplate, No.52119 See (3).

This seems to be more than a coincidence so perhaps members owning a late Nicole with painted bedplate should examine it to see if it is brass.

(5) Nicole continued production of their familiar 10 and 12 air two-per-turn boxes into the

46,000 series, No.46,684 mentioned earlier being the latest example I have seen. Coarse comb 10 and 12 air boxes, with cylinders no longer than the two-per-turns, appear in the 42,000 series No.42,133 12 airs, 13" cylinder, normal diameter, is an example. Thus over a period they were offering boxes with long programmes in two qualities, a definite sign of the competition being felt from the makers of cheaper grade boxes. (Those I have heard are still quite good musically) Certainly from this time on Nicole did produce some slightly inferior boxes.

#### D.B.Ellison of Filey, Yorkshire, writes: -

I have recently unearthed a small musical box that I am rather curious about. It is a 'snuff box' fitted in a tin 'transit box', the bedplate is stamped 'Freres Nicole' and the comb is stamped 'F.Nicole'. With this information the date of manufacture should be about 1839/1840, but, the serial number is only 12638, which is much lower than the 17000 of the 1839 period.

Although the escapement is faulty, I have been able to identify the tune by turning the cylinder by hand, it is 'The Barber of Seville' overture, played in two revolutions of the cylinder without pause.

What I would like to know is, do I go by the serial number and assume that the box is earlier than 1839?. Were boxes made by one or other of the Nicole brothers in the 1820/1830 period stamped 'Freres Nicole'.?

I wonder whether you or any M.B.S. member have any observations as to the early serial number, considering that we are supposed to believe that Nicole Freres started numbering at about 17000 in the late 1830's.

#### RED FACES ...

Unfortunately, a large number of spelling mistakes crept into the last issue. Of more importance, however, was the omission of part of a paragraph in the article "Nicole Freres" by Arthur Ord-Hume on page 321. In the right-hand column, the second paragraph should read as follows:—

Several months ago, I was restoring two boxes, each stamped NICOLE FRERES and with serial numbers indicating the years of manufacture as being 1875 and 1885 respectively. There was an obvious and broadbanded difference apparent in almost every aspect of the two movements. As part of my examination, I scraped out a small amount of the cement from the inside of each cylinder. To my surprise, the earlier box produced a fine, dark brown-coloured cement and the later one a coarse, gritty red cement. This latter cement, when matched with that scraped from an acknowledged Paillard musical box of the same approximate date, appeared, without chemical analysis, to be similar in every way.

#### Cyril de Vere Green writes:

May I crave space in our Journal, please? I should like to thank all those Members who contributed so generously to the magnificent clock and the book presented to me at the A.G.M. Both are things that I shall always treasure with great affection, and I assure everyone that they will recall so many happy memories to Bertha and myself.

I hope one day to write personally a letter of thanks to each and every one but at this moment time — and the difficulty in reading some of the signatures — are against me!

Thank you all again.

Member Hugh Monington Miles happened to have his camera handy when our President, Bob Burnett, took part in the B.B.C. Television programme, Going For A Song, transmitted at the end of March. Whether or not the piece he is looking at was "early Woolworth's" or a Pheonician forte-piano musical box is not recalled......





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- 172 D. G. Evans, 8606-24, Pershing Drive, Playadel Rey, California, 90291, USA

#### CORRECTION TO NAME

130 Mrs. P. Wolford, 23, Bury Drive, Goring-by-Sea, Worthing, Sussex

## NEXT SOCIETY MEETING

The next meeting of the Musical Box Society of Great Britain will take place on Saturday, November 21st, at the Great Western Royal Hotel, Paddington, London, Details of the programme will be circulated in due course by our Secretary.

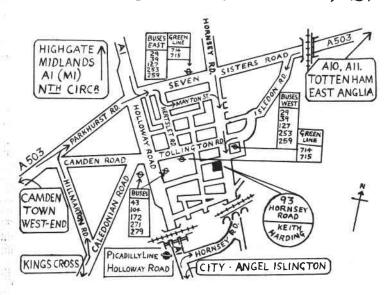
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