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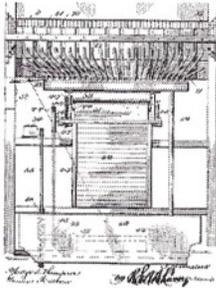
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1900 WHITLOCK Self Playing Musical Patent 20565

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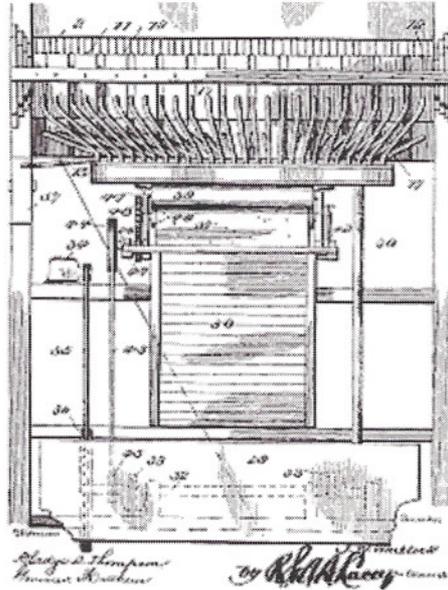
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No. .
Patented Sept. 18 1900.
J. W. WHITLOCK.
SELF PLAYING MUSICAL INSTRUMENT.
(Application filed Sept. 16 1899.)
(No Model.) 3 Sheets—Sheet I.

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Patented Sept. 18 1900.
J. W. WHITLOCK.
SELF PLAYING MUSICAL INSTRUMENT.

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(No Model.) 3 Sheets—Sheet 2.

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No. .

Patented Sept. 18 1900.

J. W. WHITLOCK.

SELF PLAYING MUSICAL INSTRUMENT.

(Application filed Sept. 16 .)

(No Model.) 3 Sheets—Sheet 3.

UNITED STATES PATENT OFFICE

JOHN W. WHITLOCK OF RISING SUN INDIANA. SELFPLAYING MUSICAL INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. dated September 18 1900.

Application filed September 16 1899 Serial No. (No model.)

To all whom it may concern.

Be it known that I JOHN W. WHITLOCK a citizen of the United States residing at Rising Sun in the county and State of Indiana have invented certain new and useful Improvements SelfPlaying Musical Instruments hereby declare the following to be a full clear and exact description of the invention such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to musical instruments which are automatic in their action starting upon the introduction of

15 a coin of a certain value into a slot or passage and stopping automatically when the piece is finished.

The particular class of musical instruments

15 embraced within the purview of this invention is stringed and the vital feature of the invention resides in the action mechanism for sounding the strings said action mechanism comprising pickers and actuating mechanism for the pickers. 25 The pickers may be applied to any nature of stringed instrument by slight changes and modifications to adapt them to the particular location pattern and make of instrument and they may be operated mechanically in any way and by any means depending upon the size and character of instrument to be mechanically played.

The style of instrument for which the action is designed is of the harp type the strings are of varying length and diameter or gage one string for each note and attached to a frame approximating the outline as nearly as practicable and chromatically tuned.

The actuating mechanism is of the pneumatic

40 type and comprises a tracker bar perforated note or music sheet feeding mechanism therefor vacuum suction bellows pneumatic action and motor bellows.

The chief object of the invention is the provision

45 of a picker mechanism which will be quick in action responsive to its actuating mechanism effective operation and not liable to derangement.

A further purpose of the invention is to provide

50 a mechanism of the character aforesaid

which will be compact reliable and effective

and accessible for inspection and repairs.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and the drawings hereto attached.

While the essential and characteristic features of the invention are necessarily susceptible of modification

preferred embodiment of the invention is illustrated in the accompanying drawings in which Figure 1 is a rear view of the vitals of the instrument. Fig. 2 is a side elevation partly 65 in section. Fig. 3 is a of a series of pickers. Fig. 4 is a detail perspective view of the end portion of a picker. Fig. 5 is a section of the mechanism for the music or note strip the action and the sup 70 ports for the pickers and their actuating me Fig. 6 is a section of the actioncase. Fig. 7 is a sectional perspective view of the actioncase. Fig. 8 is a detail view circuitclosing mechanism. 75

Corresponding and like parts are referred to in the following description and indicated in all the views of the by the same reference characters.

It is to be understood that the frame bear 80 lug the musical strings and the action are in practice suitably in protect them from dust and interference the casing being omitted from the drawings for the sake of simplicit order to show more clearly 85 the relative arrangement of the parts comprising the action.

The frame 1 upon which the rn usical strings 2 are strung may be of metal or wood or a combination of the t ordinary frets and 90 bridges being employed wherever feasible in order to secure the best results in quality character of tone. The pins and agraffes will approximate in arrangement the outline of a harp as nearly as practicable because in the 95 preferred form of the instrument the strings will be mounted and strung after t fashion of the method of stringing a harp.

The pickers one for each string consist essentially of bars 3 and hooks or pickers 4 roe secured to the outer ei bars 3 and having their projecting ends curved and disposed to project across the path of the musical strings in the operation of the

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pickers said strings will be sounded. Inasmuch as the series of pickers are constructed exactly alike a detailed description of one only will be given. The bar 3 is obliquely

5 disposed and is supported upon a ledge or shelf 5 and its inner end passes loosely through a keeper 6 and it end plays between stops 7 and 8 spaced apart a greater distance than the lateral extent of the bar.

to A damper 9 is applied to the forward end of the bar 3 and may consist of a piece of felt chamois or like ma commonly employed in musical instruments for producing a clamping effect of the strings when sounded. A

5 notch 10 of approximately V form is provided in the outer side of the damper 9 and forms a seat for the mu string and prevents said damper producing an appreciable thud or sound when coming in contact with the

20 string after the latter has been sounded by the picker. The picker 4 consists of a metal pin preferably of st into the bar 3 and having its projecting end flattened and curved the bill portion of the picker over

25 hanging the damper 9 and projecting across the path of the string to be sounded thereby. A rod 11 connec outer end of the bar 3 with the motorbellows 12 provided for operating the picker in the operation of the in

30 strnment.

A motorbellows will be provided for each picker and the series of bellows are arranged in rows and sets the r the sets alternating in order to secure compactness of ar

35 rangement. One set of bellows will be disposed in a relativelyhigher plane than the other this being necess: order to economize space and locate the bellows to the best possible advantage with reference to the size

40 of the cabinet and the location of the pickers. The motorbellows are normally expanded and are collapsed exhausting the air therefrom by means of the pneumaticaction in the manner presently to be described. The

45 movement of the motorbellows imparts a reciprocating motion to the rods 11 and the latter in turn move 1 3. In the normal position of the pickers the bars 3 bear against the pins 7 and the dampers against

50 the musical strings. When the motorbellows is collapsed the rod 11 connected therewith moves inward and the bar 3 against the pin S and causes the hooked end of the picker 4 to come in contact with the

55 musical string and sound the latter. As the motorbellows expands the rod 11 will move outward and bring into contact with the pin 7 thereby causing the picker to clear the musical string on its return stroke which

60 is necessary in order not to sound the note on the forward or return stroke of the picker. The relativelylat of the bar 3 at its outer end results in throwing the picker into and out of the path of the string whereby

65 upon the instroke of the picker it will come in contact with the string and upon the outstroke it will clear s

string.

The actioncase 13 is an elongated box subdivided horizontally by means of a partition 14 into longitudinal chambers one of which constitutes an exhaustchest 15 and the other being subdivided to form a series of valvechambers being in communication with a certain motorbellows by means of a tube 17. There will be as many valvechambers as there are motorbellows and each will be in valved communication with the exhaustchest 15 by means of an opening 18 formed in the partition 14. Each valvechamber will be provided with two openings 80 or ports 19 and 20 from the top plate or

side of the actioncase the openings 19 having free communication with the external air and the openings 20 being in communication with the motorbellows by means of the tubes 85 17. The openings 19 and 18 are in alinement and provided at their inner ends with valveseats against which valves 21 are adapted to alternately close said valvechambers double ended and having each end of conical form whereby they are self centering and seating so as to thoroughly and effectively close the respective openings 18 and 19 according to their position.

The primaries located in the exhaustchest and cooperating with the valves 21 consist essentially of cylinders 22 and plungers 23 the latter being connected with the stems 24 of the valves 21 in such a manner as to admit of the plungers 23 having a relatively lateral movement to compensate for any variation in alinement of the openings 19 and 18 by means of the cylinders 22 thereby obviating binding which would result if the parts were rigidly connected and said openings 19 and 18 were out of alinement. Vents 25 are formed

in the bottom piece or closure of the actioncase and establish communication between the inner ends of the cylinders 22 and the exhaustchest. The cylinders 22 are let into seats formed in the top side of the lower piece of the actioncase and may be of any desired material found best suited to answer the purpose. Nipples or short tubes 26 extend from the lower ends of the cylinders 22 through the bottom side of the actioncase and are connected by tubes 27 with openings formed in the trackerbar 28.

The exhaustchest 15 is normally maintained under tension by withdrawing the air therefrom when the instrument is playing and the valves 21 are normally seated and close the openings 18. Upon disturbing the equilibrium upon opposite sides of any one of the primaries as by uncovering the opening in the trackerbar in communication with the primary the plunger 23 corresponding with said primary will move upward and cause the valve connected thereto to close the opening 19 and uncover the opening 18 thereby establishing communication between the motorbellows and the valvechamber corresponding with the valve operated whereby the air will be sucked from

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95 too

said motorbellows and the latter will collapse and cause a forward movement of the picker in the manner previously described. The instant the opening in the trackerbar is

covered the air will be withdrawn from the inner end of the cylinder through vents 25 and the plunger prevented from moving upward will return to a normal position and cause the valve attached thereto to move and uncover the opening 19 and close the opening 18 and establish communication between the motorbellows and the exhaustchest. The air through the tube 17 valvechamber and opening 19 as will be readily comprehended. As the motorbellows 15 expands it will return the picker to a normal position to be again actuated when the conditions just described are brought about by uncovering the opening or openings in the trackerbar which is effected by means of the openings 20 of a perforated music or note sheet.

The air is withdrawn from the chest 15 by means of any convenient mechanism and as shown a vacuumbellows is provided and is connected by means of a pipe 30 with the actioncase and leads into the chest 15. This vacuumbellows 29 is of the type expanded by means of suitably disposed springs. A pair of suctionbellows 31 is disposed for service in connection with the vacuum

bellows and have valved communication therewith and are alternately actuated so as to exhaust the air from the vacuumbellows 29 which constitutes an exhaustreservoir for the chest 15 to maintain the latter in a state of tension 35 when the instrument is playing. The suctionbellows 31 are alternately actuated preferably by means of a powerdriven crankshaft 32 having its crank portions oppositely disposed and connected by pitmen 33 with the

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parts being disposed to the best possible advantage so as to economize space and effect a saving in the length tubes necessary to connect the actioncase with the trackerbar and respective motorbellows. The pickers rest on the ledges or supportingshelves 5 are readily accessible for repairs or substitution when necessary to replace disabled one by a new one.

o Having thus described the invention what is claimed as new is

1. In selfplaying musical instruments the combination with the musical strings of pickers comprising bars having points to come in contact with the strings dampers applied to the bars and actuating mechanism for the pickers substantially as described.

2. In selfplaying musical instruments the combination with the musical strings of pickers comprising bars provided with points to come in contact with said strings dampers applied to the bars and having notches to receive the strings and actuating mechanism for the pickers substantially as specified.

3. In self playing musical instruments comprising musical strings the combination of bars provided with pickerpoints having their projecting ends curved and dampers applied to the said bars and having the curved 30 bills of the pickerpoints overlapping the said dampers substantially as set forth.

4. In self playing musical instruments comprising musical strings the combination of an obliquelydisposed bar provided with a pickerpoint at one end and having a combined pivotal and sliding movement at one end and a combined lateral and longitudinal movement at its opposite end which is provided with a pickerpoint a pair of spaced stops for the pickerbar to engage longitudinally and laterally between and actuating means connected to the picker end of the pickerbar and a travel in a line forming an acute angle therewith substantially as set forth.

5. In selfplaying musical instruments having musical strings an obliquelydisposed bar provided at one end with a pickerpoint a keeper at one end of said bar spaced stops at the opposite end of said bar and limiting the same lateral movements and actuating mechanism for reciprocating the pickerbar as and for the purpose set forth.

6. In selfplaying musical instruments having musical strings the combination of obliquelydisposed bars adapted to move longitudinally and having a limited lateral play and provided at the ends adjacent to the musical string pickerpoints rods connected with the ends of the bars carrying the pickerpoints and actuating mechanism for imparting a rectilinear movement to said rods as and for the purpose set forth.

7. In selfplaying musical instruments the combination with the operating mechanism for producing the music and including motorbellows of an actioncase having seats upon the inner face of a side and openings extending outward from the seats said case being subdivided into an exhaustchest and a series of valvechambers the latter in communication with the respective motorbellows cylinders secured in the seats and having ventopenings in communication with plungers operating in the cylinders stems projected from the plungers and entering 75 openings in opposite walls of the valvechambers double conicalended valves connected with the stems between the ends and cooperating with aligned openings leading from the respective valvechambers into the 80 exhaustchest the open air and means for creating a tension in the exhaustchest by sucking the air therefrom substantially as described.

In testimony whereof I affix my signature 85 in presence of two witnesses.

JOHN W. WHITLOCK. Witnesses:

V. B. 1: ILLYARD

C. C. MINES.

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Payment Method

4 respective bellows 31. The shaft 32 may be driven from any suitable source of power and in the present instance an electric motor is provided and is located within the cabinet inclosing the action mechanism. A drivebelt 45 35 connects the motor 34 with a pulley 36 applied to the shaft 32 and transmits motion thereto.

As previously stated the openings in the trackerbar 28 are uncovered by means of a perforation 50 in the music or note sheet 37 which is drawn past the trackerbar in the ordinary manner and which is of the endless type. The surplus portion of the music or note sheet is received in a box 38 located below the trackerbar. The feeding mechanism for the music or note sheet consists of draw rollers 39 and 40 between which said sheet passes the roller 40 being mounted in fixed bearings and the roller 39 in movable bearings consisting essentially of a swinging frame 41. A tensionspring 42 cooperates with the swinging frame 41 to hold the roller 39 in contact with the roller 40 with sufficient pressure to insure the positive movement of the musicsheet between the two rollers when the latter are rotated. Motion is imparted to one of the rollers as 40 from a powerdriven shaft 32 by means of a drivebelt 43 which passes around pulleys 44 and 45 the latter applied to the shaft 32 and the former to a shaft 46 having a pinion 47 in mesh with a gearwheel 48 applied to the outer end of the journal of the roller 40. The provision of the pulleys 44 and 45 enables the rollers 39 and 40 to move at any relative speed so that the piece may be played fast or slow as desired. The feeding mechanism is located at one side of the trackerbar and the direction mechanism is located at the opposite side and consists of companion rollers 49 and 50 the latter mounted in a fixed bearing and the former journaled to a swinging frame 51 to which a tensionspring 52 is applied to hold the roller 49 in intimate contact with the roller 50 whereby the musicsheet passing 85 between the rollers 49 and 50 is not permitted to move forward too rapidly and is normally maintained under tension between the direction and feeding mechanisms.

When the instrument is playing the feeding mechanism is operated and draws the musicsheet past the trackerbar and the perforations in said sheet corresponding to the notes effect an operation of the pneumatic action in the manner herein described where 95 by the musical strings are sounded and produce the effect of the composition.

A coin passage 53 communicates with a slot formed in a side of the cabinet and leads within the latter and is provided at its inner end with electric contacts 54 and 55 the former being fixed and the latter movable and both constituting the terminals of an electric circuit including the motor 34 therein. When a coin 56 of a denomination determined upon to operate the machine is introduced into the passage 53 and passes through to the inner end thereof it is caught between the contacts 54 and 55 and closes the circuit thereby setting the machine into motion and playing the piece provided upon the notesheet 37. At the finish of the piece the contact 55 is moved and releases the coin 56 which drops into a suitably placed receptacle thereby interrupting the circuit and causing the instrument to cease playing. A motorbellows 57 is connected with the movable contact 55 and normally holds the latter in position to arrest the forward movement of the coin 56 in conjunction with the contact 54 and is likewise connected by a tube 58 with a valvechamber 16 of the actioncase the notesheet being provided with an opening to register with an opening in the trackerbar whereby when the instrument has completed the playing of the piece the motorbellows will be actuated and release the coin 56 and effect a stopping of the machine in the manner stated.

From the foregoing it will be seen that the machine is entirely automatic, in its action being started by the introduction of a coin of predetermined value into the coin passage 53 and stopping when the piece is finished

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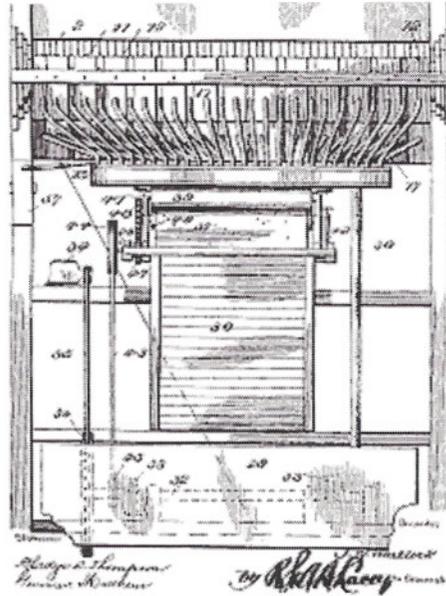
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