

No. 785,394.

PATENTED MAR. 21, 1905.

P. WUEST, JR.
MECHANICAL MUSICAL INSTRUMENT.
APPLICATION FILED OCT. 21, 1904.

FIG. I.

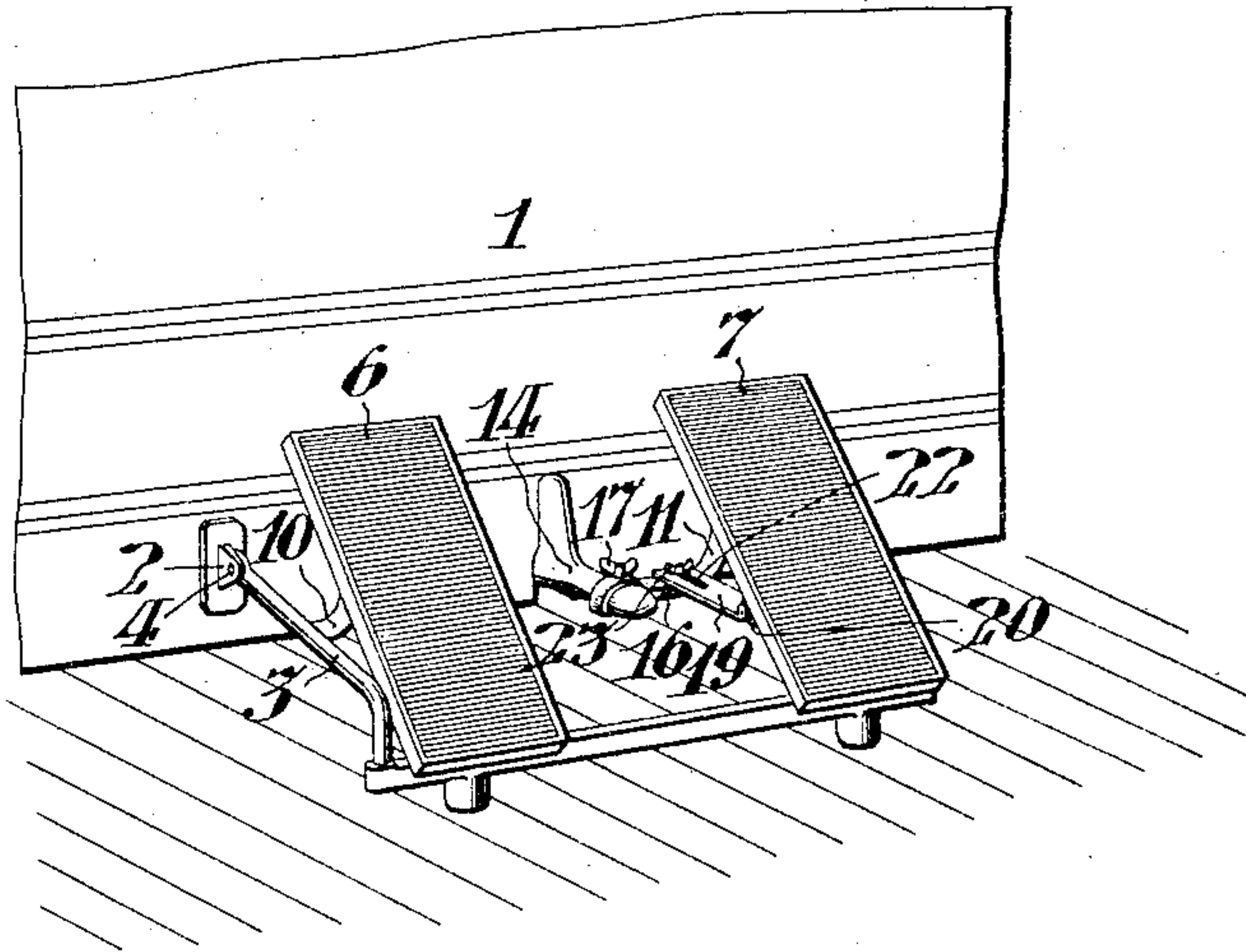
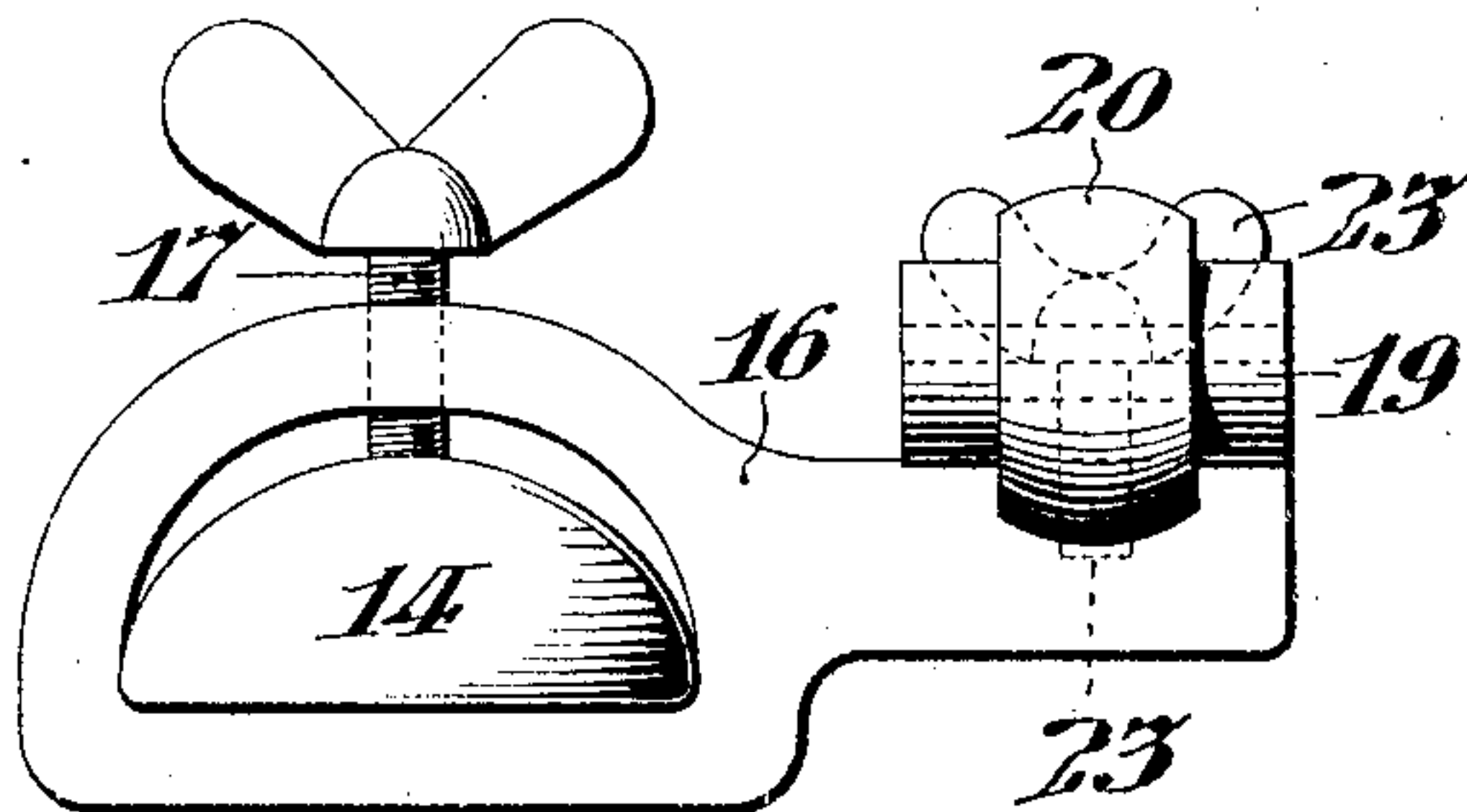


FIG. II.



WITNESSES:

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UNITED STATES PATENT OFFICE.

PHILIP WUEST, JR., OF PHILADELPHIA, PENNSYLVANIA.

MECHANICAL MUSICAL INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 785,394, dated March 21, 1905.

Original application filed July 20, 1904, Serial No. 217,345. Divided and this application filed October 21, 1904. Serial No. 229,367.

To all whom it may concern:

Be it known that I, PHILIP WUEST, Jr., of Philadelphia, in the State of Pennsylvania, have invented certain new and useful Improve-
5 ments in Mechanical Musical Instruments, whereof the following is a specification, reference being had to the accompanying drawings.

My invention comprises subject-matter divided from my application, Serial No. 217,345,
10 filed July 20, 1904, and relates particularly to instruments provided with automatic playing mechanism, comprising a series of levers in operative relation to sounding devices, such as
15 the strings of a piano, arranged to be actuated in any predetermined sequence by means of independent pneumatic mechanisms controlled by a web of perforated paper which is progressed with respect to a pneumatic tracker-
20 bar provided with a series of apertures corresponding with the series of levers.

It is the object of my invention to provide means to operate the pedals of a piano or similar instrument, particularly the loud pedal,
25 by connecting the same with the pumping mechanism employed to maintain the pneumatic pressure or partial vacuum required for the automatic playing mechanism. Such
30 pumping mechanism usually comprises two pedals independently connected with respective bellows, and, as hereinafter described, I find it convenient to operate the piano-pedal by connection with one of said pumping-pedals independently of the other.

35 My invention comprises the various novel features of construction and arrangement hereinafter more definitely specified.

In the drawings, Figure I is a perspective view of a portion of the front of a piano provided with automatic playing mechanism with-
40 in its casing and embodying a convenient form of my invention. Fig. II is a detail view of the member attached to the loud pedal of the piano in Fig. I.

45 The automatic playing mechanism is within the casing 1, having the brackets 2, in which the pedal-frame 3 is supported on pivots 4. The pumping-pedals 6 and 7 are pivotally supported on said frame 3 and are respectively
50 provided with link connections 10 11, extend-

ing to the bellows of the automatic playing mechanism within the casing 1. The pedal 14 of the instrument, which is arranged to modify the effect of the playing mechanism, is conveniently provided with the adjustable
55 and reversible member 16, which is detachably engaged therewith by the set-screw 17. The arm 19 of said member 16 is conveniently provided with the roller 20 to encounter the
60 pedal 7 and comprises the slot 22, through which it is connected to the member 16 by the set-screw 23, so that the extent and angular position of said arm 19 may be varied and
65 so that it may be swung into inoperative position when desired. Assuming that said pedal 14 is the loud pedal of a piano, it is to be understood that such a member 16 may be secured
on the adjoining soft pedal of the piano in operative relation with the pedal 6.

It is to be understood that I do not desire
70 to limit myself to the precise details of construction and arrangement herein set forth, as various modifications may be made therein without departing from the essential features
75 of my invention.

I claim—

1. In a piano, the combination with automatic playing mechanism, comprising a pump-
ing-pedal; of a member arranged to opera-
80 tively engage a pedal of the piano; and, means arranged to detachably secure said member to said piano-pedal in operative relation to said pumping-pedal, substantially as set forth.

2. In a piano, the combination with automatic playing mechanism, comprising a pump-
85 ing-pedal supported by the piano-casing; of an adjustable member supported by the loud pedal of the piano, in operative relation with said pumping-pedal; and, means arranged to
90 detachably engage said member with said loud pedal, substantially as set forth.

3. In a mechanical musical instrument, the combination with automatic playing mechanism comprising a pumping-pedal; of a mem-
95 ber arranged to operatively engage a pedal of said instrument; and, means arranged to detachably secure said member to said instrument-pedal in operative relation to said pump-
ing-pedal, substantially as set forth.

4. In a piano, the combination with auto- 100

matic playing mechanism comprising a pump-
ing-pedal; of a member arranged to opera-
tively engage a pedal of the piano; means ar-
ranged to detachably secure said member to
5 said piano-pedal in operative relation to said
pumping-pedal, comprising a set-screw; and,
means to adjust said member in operative re-
lation to said pumping-pedal, comprising a
set-screw, substantially as set forth.

10 5. In a piano provided with a pedal, the
combination with automatic playing mechan-
ism comprising a pumping-pedal; of means
operatively connecting said piano-pedal with
said pumping-pedal comprising a member
15 having a set-screw arranged to engage said
piano-pedal; an arm having a slotted connec-
tion with said member; and, a set-screw ar-
ranged to secure said arm and member in ad-
justed relation, substantially as set forth.

6. In a piano provided with a pedal, the 20
combination with automatic playing mechan-
ism comprising a pumping-pedal; of means
operatively connecting said piano-pedal with
said pumping-pedal, comprising a member 25
having a set-screw arranged to engage said
piano-pedal; an arm having a slotted connec-
tion with said member; a set-screw arranged
to secure said arm and member in adjusted
relation; and, a roller at the free end of said
arm arranged to encounter the pumping-pedal, 30
substantially as set forth.

In testimony whereof I have hereunto signed
my name, at Philadelphia, Pennsylvania, this
20th day of October, 1904.

PHILIP WUEST, JR.

Witnesses:

ARTHUR E. PAIGE,
E. L. FULLERTON.