

UNITED STATES PATENT OFFICE.

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TO WILLIAM KNABE & COMPANY MANUFACTURING COMPANY OF BALTIMORE CITY, OF
BALTIMORE, MARYLAND, A CORPORATION OF MARYLAND.

AUTOPNEUMATIC GRAND PIANO.

No. 867,840.

Specification of Letters Patent.

Patented Oct. 8, 1907.

Application filed January 13, 1906. Serial No: 295,987.

To all whom it may concern:

Be it known that we, JOHN HENRY SANDLAS, and JOHN W. DARLEY, Jr., citizens of the United States, residing at Baltimore, in the State of Maryland, have
5 invented certain new and useful Improvements in Auto-
pneumatic Grand Pianos; and we do 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
10 same.

Our invention relates to improvements in auto-
pneumatic grand pianos, and the object of our inven-
tion is to provide a simple pneumatic attachment ap-
plicable to grand pianos.

15 With this object in view, our invention consists in
the construction and combinations of parts as herein-
after described and claimed.

In the accompanying drawing, the figure represents
in cross section the front part of a grand piano.

20 *a* represents the bottom of a grand piano, *b* the piano
action thereof, *c* the strings, *d* the rolls for carrying the
perforated sheets, *e* the keys, and *f* the pneumatic
tubes, all these parts being of the usual well known
construction.

25 The front of the piano frame is supported on a remov-
able base portion, such as indicated in Design Patent
No. 37,591, dated October 24, 1905, and the rear of the
piano is supported by a removable leg in the usual
manner. The base portion includes pillar shaped
30 parts *g* connected in front by cross pieces *h*, and in the
rear by a removable flat part or board *i* which is dow-
eled into the part *f* attached to the rear pillars.

k represents a spring for holding the board *i* so that
it can then easily be removed and access be obtained
35 to the interior portion which contains the pneumatic
devices.

The front part of the movable base piece is closed by
boards *l* and *m* and a movable door or foot board *n*.

40 *o* represents the pneumatic case, *p* the wind chest,
p' the bellows, and *q* a spring, these parts being of the
ordinary construction. Attached to the front part of
the wind chest by a pivot *r* is a link *s* which is con-
nected by means of a link *t* to the rear part of the bel-
lows *p'*. The pedal board *u* is connected by means of
45 the link *v*, with the lower end *w* of the link *s*, the whole
folding out into the position shown in dotted lines in
the figure.

If the piano is to be played in the ordinary manner,
the pneumatic attachment is thrown out of use, as is
shown in the full lines in the figure. When it is de- 50
sired to use the pneumatic attachment, the foot board *n*
is unlocked and folded down.

The means for locking and unlocking the foot board
areas follows:—The foot board *n* has a hole near its top,
and is provided with a projection *x* with which a hook *y* 55
on a sliding bar *z* engages. A spring *l* presses the bar *z*
in contact with the projection *x*, and holds the pedal
board locked. The upper part of the bar *z* is bent as
shown at 3, and with this bent portion a pivoted cam 4
is adapted to engage. This cam is operated by means 60
of a rod 5, attached to a bar 6 extending across the
piano, which bar is at each end, by means of a bent
connecting bar 7, connected to the pivoted slip 8. It
is obvious that by folding the slip 8 outwardly, the bar *z*
will be pushed down, by the connections just described, 65
releasing the foot board *n*, which may be then folded
out into the position shown in dotted lines in the figure.

The piano frame *o* is provided with downwardly pro-
jecting side portions or rails such as 10, which fit over
the removable base or support. 70

Having thus described our invention what we claim
as new and desire to secure by Letters Patent is:—

1. In an auto-pneumatic grand piano, the combination
of a piano frame provided with the usual keys and piano
action, with a removable base therefor carrying the pneu- 75
matic devices, a pedal board normally locked and con-
nected to said pneumatic devices, a movable slip attached
to the piano frame, and connections operated by said slip
for unlocking said pedal board, substantially as described.

2. In an auto-pneumatic grand piano, the combination 80
of a piano frame provided with keys and piano action,
with a removable base therefor carrying pneumatic de-
vices, said base being detachably connected with said
piano frame and comprising movable parts whereby ready
access may be had to the interior thereof, pneumatic de- 85
vices supported in said base, a folding pedal board nor-
mally locked, connections between said pedal board and
said pneumatic devices, means for unlocking said pedal
board and allowing it to be folded out, said means includ-
ing a folding slip, a spring operated bar provided with a 90
catch normally locking said pedal board, and connections
between said slip and said bar, substantially as described.

In testimony whereof, we affix our signatures, in pres-
ence of two witnesses.

JOHN HENRY SANDLAS.
JOHN W. DARLEY, Jr.

Witnesses:

CHARLES R. BOETTGER,
E. A. DOLB.