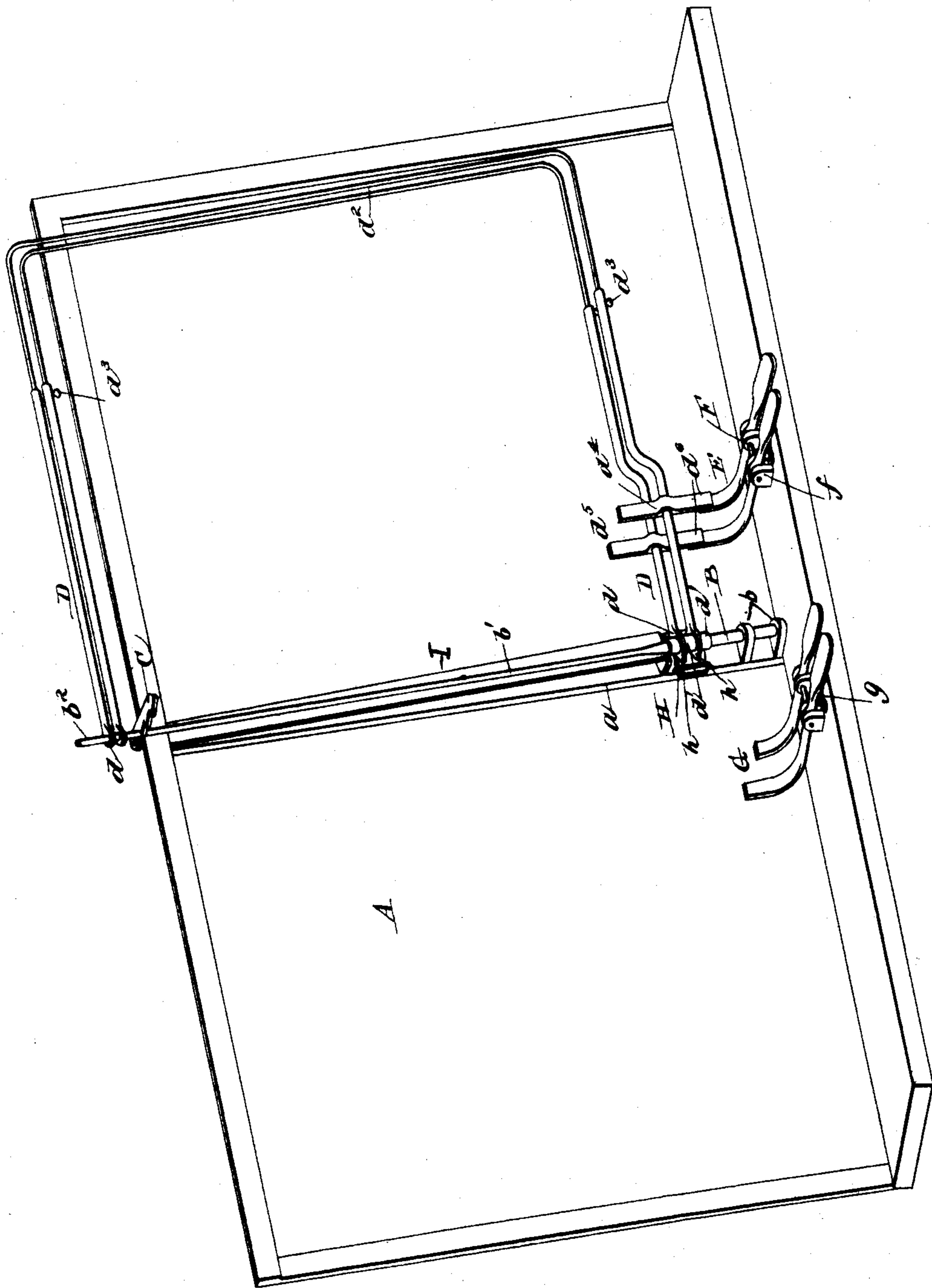


(No Model.)

E. R., D. J. & G. DAVIS.
MUSIC LEAF TURNER.

No. 539,671.

Patented May 21, 1895.



Witnesses;

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UNITED STATES PATENT OFFICE.

EDWIN R. DAVIS, DAVID J. DAVIS, AND GRIFFITH DAVIS, OF IRONDALE,
OHIO.

MUSIC-LEAF TURNER.

SPECIFICATION forming part of Letters Patent No. 539,671, dated May 21, 1895.

Application filed November 22, 1894. Serial No. 529,632. (No model.)

To all whom it may concern:

Be it known that we, EDWIN R. DAVIS, DAVID J. DAVIS, and GRIFFITH DAVIS, citizens of the United States residing at Iron-
dale, in the county of Jefferson, State of Ohio,
have invented certain new and useful Im-
provements in Music-Leaf Turners; 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 same.

Our invention relates to improvements in
music leaf turners.

The invention will first be described in con-
nection with the accompanying drawing, and
then particularly pointed out in the claims.

In the drawing, the figure is a perspective
view of a device embodying our invention.

Referring to the drawing, A is a rack to
receive the sheet music, being made of wood
or metal as preferred, and arranged to rest
upon the ordinary piano rack or be secured
to the top of a stand for use with such instru-
ments as violins, &c. In the center of this
rack is secured a central style *a* to the lower
end of which is attached a pair of bearings, *b*
in which is mounted a spindle, B, passing
through the upper bearing and provided with
an elastic extension *b'* which forms a clamp-
ing rod and is adapted to be engaged by a
catch, C, pivoted to the upper edge of the
rack, this catch having a series of serrations
or teeth by means of which the wire may be
adjusted to or from the central style *a* of the
rack. The extreme end of the extension rod
b' projects above the catch C to form a top
spindle *b²* as shown.

On the spindles B and *b²* are mounted the
ringed ends of a series of tubular page-oper-
ators D, the said ringed ends *d*, being sepa-
rated, on the lower spindle B, by a series of
collars or washers *d'* while the outer ends of
the said tubular page-operators D are con-
nected by U-shaped frames or finger bars, *d²*,
which enter the tubes D and are secured
therein by set-screws *d³* by means of which
the finger-bars may be adjusted in or out to
rest on the outer margin of the music leaves
of any size, it being understood that the dis-
tance from the upper to the lower tubular

page-operators D is greater than the greatest
depth of the maximum size of sheet music.

To each of the lower tubular page-openers
D is secured a contact plate *d⁴* by any suit-
able means, such as solder or screws, said con-
tact plates extending upward from the catches
or fingers which rest upon the sheets of music,
as at *d⁵*, while the lower ends *d⁶* of said con-
tact plates extend down beyond the lowest
page operator and are arranged to engage each
with its respective tripper E of a series of
trippers which consist of bell cranks pivotally
mounted on a stud or spindle, F, which is
journaled in bearings, *f*, fixed to the bottom
of the rack. The contact plates *d⁴* are not ar-
ranged one over the other, but instead are
each placed a little nearer the spindle B than
is the one attached to the page opener above
it, whereby each contact plate will be en-
gaged by its respective tripper only, and vice
versa. A similar set of trippers G is placed
on the opposite side of the music rack for a
purpose hereinafter explained.

The operation of our device is as follows:
The catch, C, at the top of the rack is released
and the clamping rod *b'*, which is elastic, is
sprung up, away from the central style *a*.
The book or folio of music is then opened and
placed with its center below the clamping rod,
the latter being then secured firmly against
the book or folio by engaging its end with the
catch, C, the said clamping wire engaging such
tooth of the said catch, as is best adapted for
holding the music tightly against the central
style *a*, or against a leaf-spring I secured to
the style, *a*. The page openers D with their
fingers *d²* are so moved as to bring one finger
d² between each page of music and all the
leaf-turners on the right hand side of the cen-
ter of the rack. When, now, it is desired to
turn a page of music, it is only necessary to
strike the projecting end of the tripper E,
which is farthest from the center style *a* a
sharp blow, whereupon its inner end will en-
gage its respective contact plate *d⁴* and cause
the first page opener to swing over, thus turn-
ing the page until it occupies a position on
the left of the central style *a*. The next page
is turned in a similar manner, by striking on
the next tripper and so on.

If it is necessary to turn the music backward, as in case of repetition of some passages, the proper trippers at the left are struck, the operation being plain from what has been
5 said before.

In order to return the trippers G to their normal positions each one is provided with a leaf spring *g* inserted beneath it and attached to the frame, the free end of each spring bearing on its respective tripper as will be plain
10 from the drawing. Furthermore, to insure the turning of each page when raised by the tripper, the rear face of the ringed end of each page-opener D has a projecting V-shaped
15 portion *h* which is arranged to bear against and compress a leaf-spring H secured to the central style *a* of the rack, whereby the springs will hold each page-operator down against the page of music, but when the said
20 page operators are raised by the trippers until past the central position, they will be carried beyond rapidly by the said springs H, as will be plain to those skilled in the art.

The leaf-spring I serves to force the music
25 sheets toward the rod *b'* and thus assist in holding the same.

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

30 1. In a music leaf-turner, the combination, with a central spindle having a flexible extension forming a clamping-rod, of a series of page turning devices pivoted on the spindle, a series of contact-plates secured to the page
35 turning devices, and a series of trippers ar-

ranged to engage the contact-plates, substantially as and for the purpose described.

2. In a music leaf-turner, the combination, with a central spindle, having a flexible clamping rod, and a series of tubular page operators journaled on the spindle, of a series of
40 U-shaped fingers adjustably secured in the page operators, a series of contact plates attached to the page operators, and a series of trippers arranged to engage said contact-
45 plates, substantially as and for the purpose described.

3. In a music leaf-turner, the combination, with a rack having a central style, of a spindle mounted on said central style and having
50 a flexible extension forming a clamping-rod, a catch on the rack and arranged to engage the top end of the said clamping rod, a series of tubular page-operators journaled on the spindle above and below the clamping-rod portion
55 of the same, a series of U-shaped frames adjustably secured in the page-operators, a series of contact plates secured to said page operators, one beyond the other, and a series of trippers secured to the rack and arranged to
60 engage with said contact plates, substantially as and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

EDWIN R. DAVIS.
DAVID J. DAVIS.
GRIFFITH DAVIS.

Witnesses:

A. McWILLIAMS,
J. W. BRANT.