

(No Model.)

2 Sheets—Sheet 1.

A. LAKE.

FILE FOR BILLS, MUSIC SHEETS, &c.

No. 341,252.

Patented May 4, 1886.

Fig. 1,

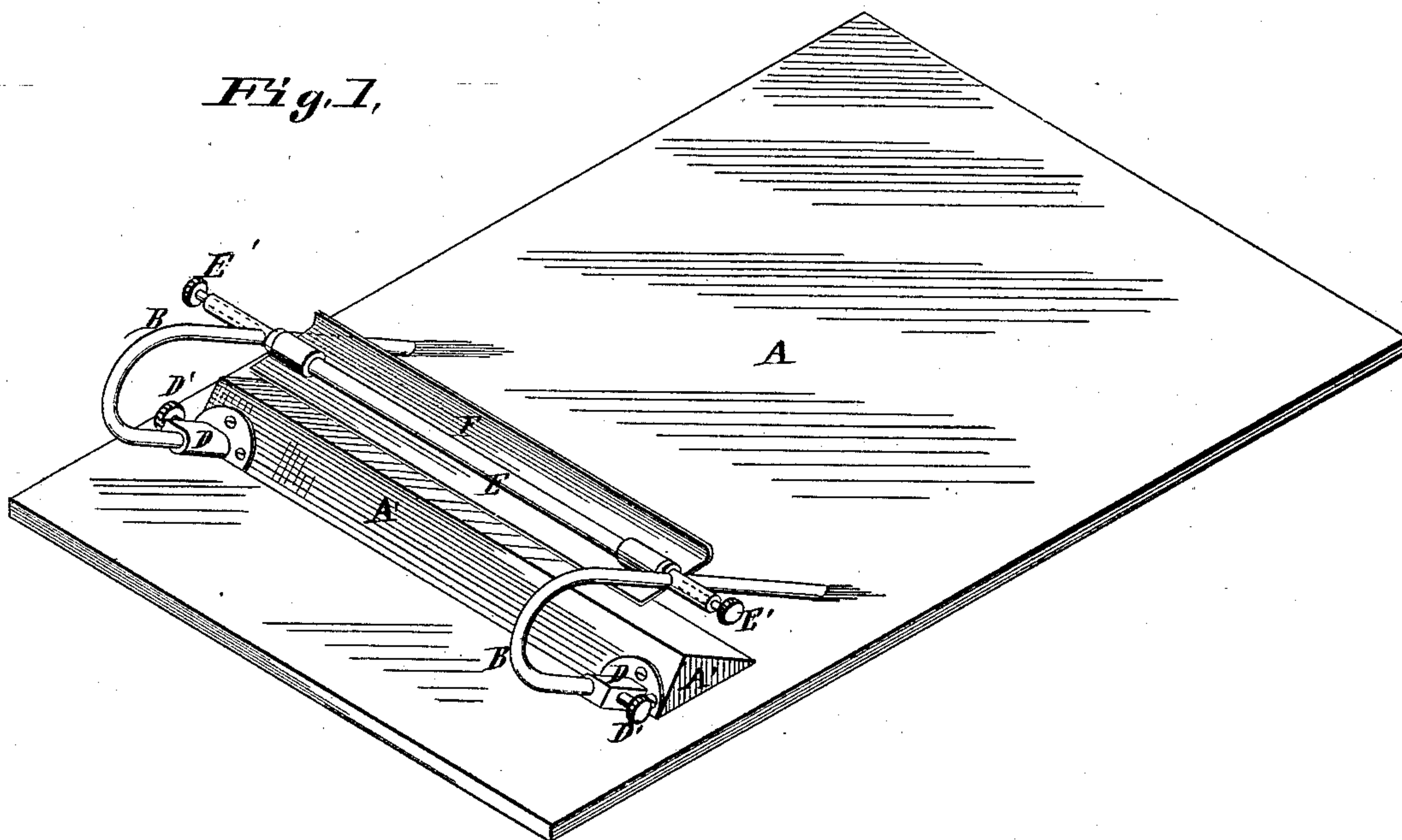


Fig. 2,

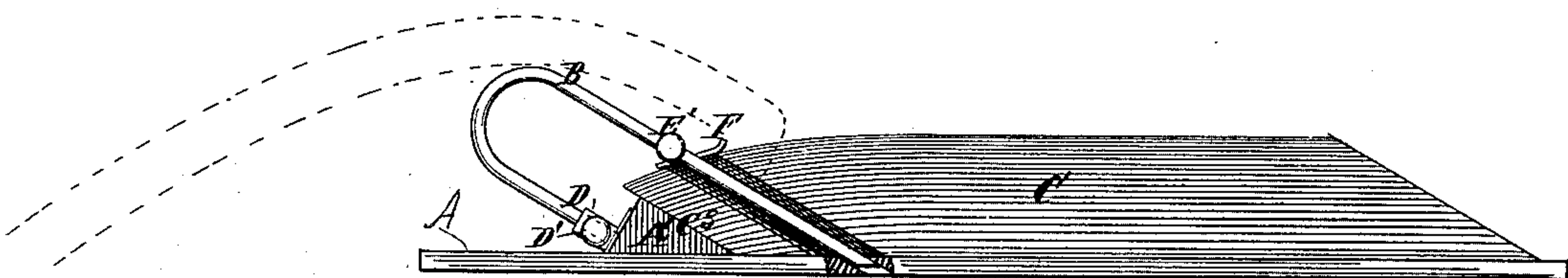
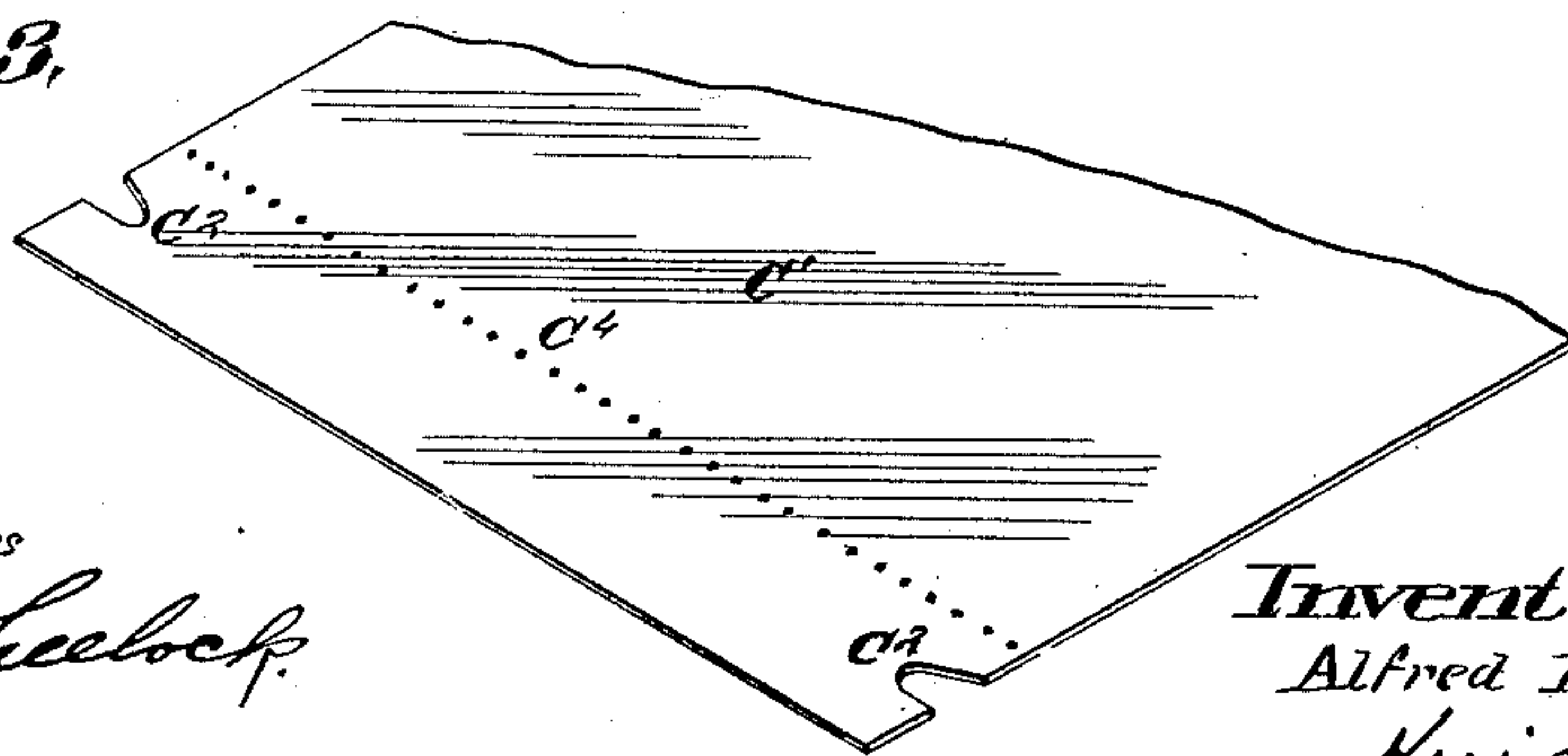


Fig. 3,



Attest;

Charles Pickles

Gen. L. W. Wheelock.

Inventor;

Alfred Lake.

By Knight Bros

attys.

(No Model.)

2 Sheets—Sheet 2.

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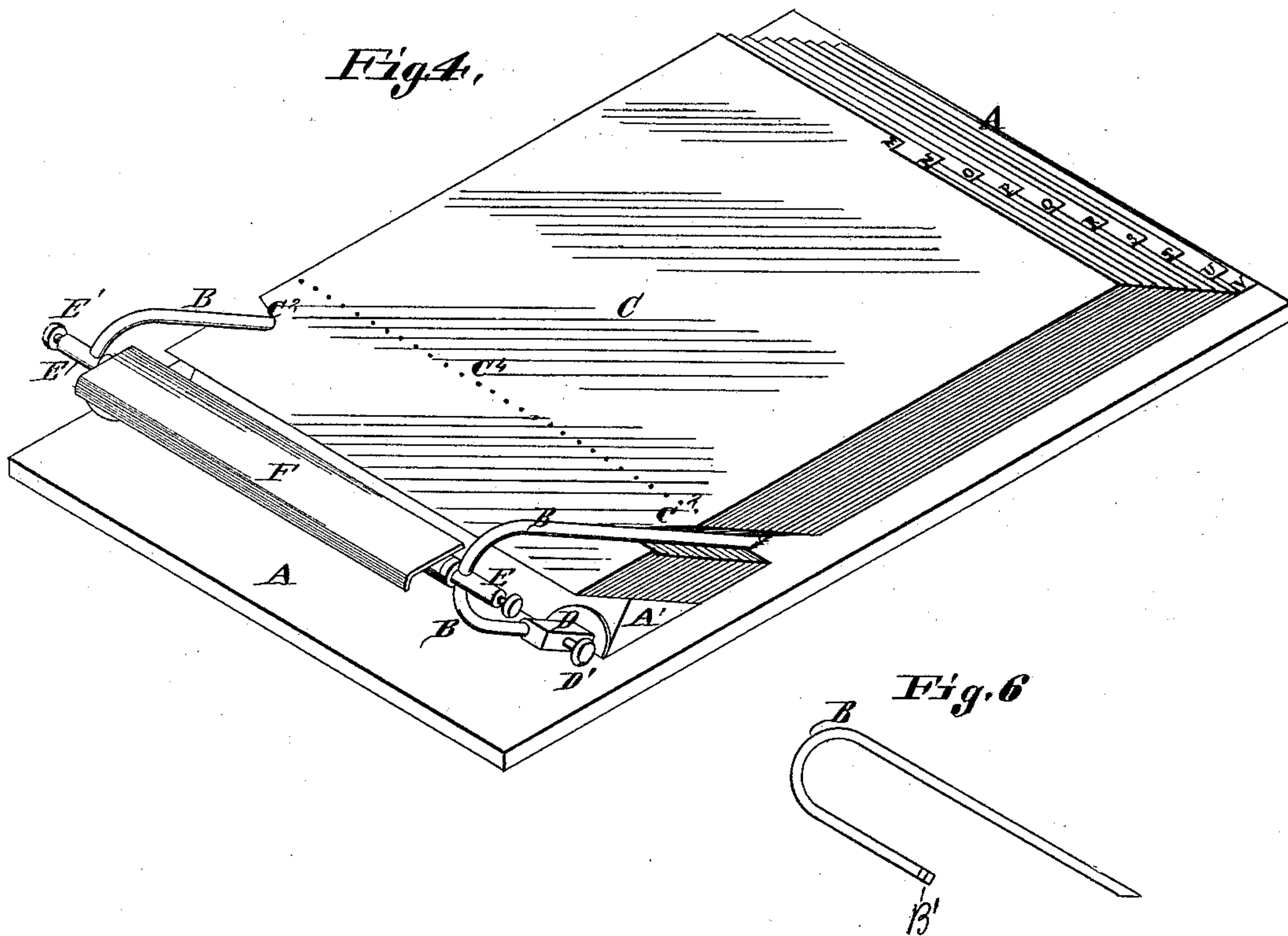
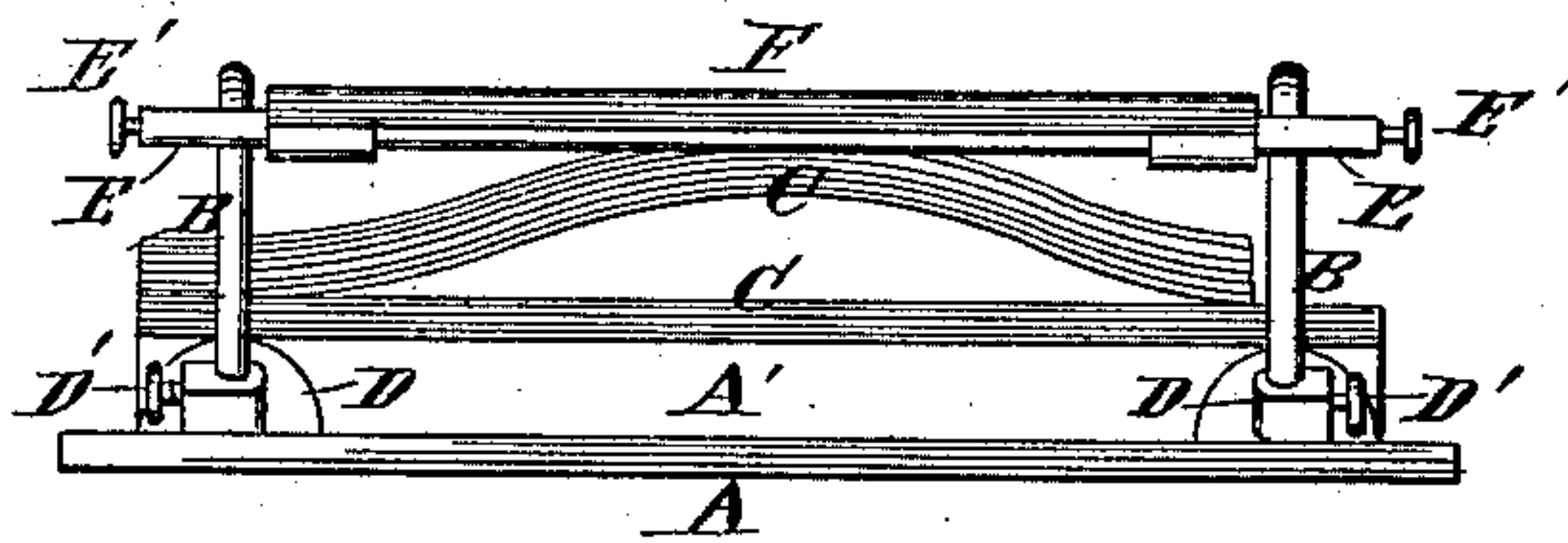


Fig. 5,



Attest;

Charles Pickles
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UNITED STATES PATENT OFFICE.

ALFRED LAKE, OF LEAVENWORTH, KANSAS.

FILE FOR BILLS, MUSIC-SHEETS, &c.

SPECIFICATION forming part of Letters Patent No 341,252, dated May 4, 1886.

Application filed October 19, 1885. Serial No. 180,335. (No model.)

To all whom it may concern:

Be it known that I, ALFRED LAKE, of Leavenworth, in the county of Leavenworth and State of Kansas, have invented a certain new and useful Improvement in Files for Bills, Music-Sheets, &c., of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

10 Figure 1 is a perspective view of my improved file. Fig. 2 is a vertical longitudinal section showing the papers thrown back in dotted lines. Fig. 3 is a detail perspective view of one of the sheets of paper. Fig. 4 is
15 a detail perspective view showing the follower turned out of using position to allow removal of papers. Fig. 5 is an end view showing part of block buckled for removal of sheets, and Fig. 6 is a side view of the wire removed to
20 show the retention-notch in its heel.

My invention relates to certain improvements in files for way-bills, bills, music-sheets, &c.; and my invention consists in features of novelty hereinafter fully described, and pointed
25 out in the claims.

Referring to the drawings similar letters of reference in the various figures indicate like parts.

30 A represents a suitable base or support, and A' is an inclined bracket secured to the base, to which are attached metallic sockets D, into which the heels of the file-wires are entered, and in which they are securely held by set-screws D', that enter retention-notches in the
35 wires.

B represents the curved needle-wires for the retention of the file. They are made of various lengths to accommodate various thicknesses of blocks.

40 B' are notches in the heels of the wires, and D' are set-screws, that engage in said notches to hold the wires in the metallic sockets D, that are secured to the inclined bracket a suitable distance apart to suit the width of the
45 sheets or block.

C is the file-block, and C² are notches in the sheets C', composing the block, through which the wires pass, and by which they retain their grip of the block.

50 C³ represents the overhanging angle back of the block, which with C⁴, the perforate line in

the sheets, facilitates the opening of the same and enables the leaves to lap back, so as to overcome the tendency to reclose, which is a great hinderance and annoyance in searching
55 through many bill-files at present in use.

E is a follower with perforations near its ends, through which the wires pass. The said follower sliding on the wires binds the sheets
60 of the block.

E' are set-screws, that turn in the ends of the follower and engage the wires to hold the follower to its work.

F is a curved rocking plate, secured to and with rotary action on the follower, that while
65 it holds the block from slipping in the file, also freely allows it to open, the plate rocking to accommodate itself to the varying position of the opening sheets.

When the file is to be filled, or it is desired
70 to take out certain bills or sheets, or insert others when necessary, the set-screws in the follower are loosened, and it with its rocking plate is thrown back, as seen in Fig. 4.

It will be seen that when the follower is
75 thrown back, if any sheet is desired to be taken out or inserted, the sheets above can be readily lifted by raising one side or buckling the portion of the papers to be removed, as shown in Fig. 5, until the notch disengages
80 from the wire, when the required sheet can be taken out or blank sheets added, and the sheets above returned to their place in the block; or the superincumbent sheets may be lifted without disengagement from the wires and sheets
85 extracted or inserted beneath.

The inclined bracket makes a firm base for the attachment of the sockets that secure the wires and for the support of the overlap of the angle back of the block, preventing an undue
90 endwise strain on the block in the process of opening. It will also be seen that the overlap in the back of the file-block causes an underlap in its front edge, which is utilized by bringing to view a lettered index on said edge,
95 so that the file can be opened at the exact initial of the party whose account is required, or, if a block of music-sheets, &c., at the name of the piece that is desired.

I am aware that it has been proposed to cut
100 notches in the opposite edges of sheets or cards, so that when a number of cards are placed in

a bunch a continuous groove or channel will be produced for the reception of a cord or elastic band by which they are conveniently held together for future reference; and I do not
 5 therefore claim such notched sheets as my invention, except in combination with other elements, as hereinafter specifically pointed out, which, when assembled, make a temporary binder, from which any sheet or sheets may
 10 be taken from or inserted in any part of the block with very little trouble.

I claim as my invention—

1. In a file for bills, &c., the combination of the base A, inclined brackets A', wires B,
 15 sheets C', having notches C², adapted to receive said wires, sockets D, and follower E, all constructed and arranged to operate substantially as and for the purpose set forth.

2. In a file for bills, &c., the combination
 20 of the base rocking plate F, follower sliding on wires B, inclined bracket overlapping back C³, resting against bracket, and sheets C', having perforate line C⁴, arranged to facilitate the opening and retention in open position of the
 25 sheets, all substantially as described, and for the purpose set forth.

3. In a file for bills, &c., the combination

of the base, inclined bracket, overlaying back, perforated sheets, wires with retention-notches B', in which set-screws D' engage to retain
 30 the wires, follower with perforations through which the wires pass on which it slides, set-screws E', to hold the follower to its work, and rocking plate F, that adjusts itself to the
 35 varying position of the sheets in opening and closing, all substantially as described, and for the purpose set forth.

4. In a file for bills, &c., the combination, with a base having binding-wires and an inclined bracket secured thereto, substantially
 40 as described, of the block or sheets indexed at the end opposite the inclined bracket, for the purpose set forth.

5. The combination, with the sheets notched at their edges, of the base having wires secured thereto and occupying said notches, and
 45 a movable follower adapted to rest upon said sheets and prevent their buckling, substantially as set forth.

ALFRED LAKE.

In presence of—

JOSEPH WAHLE,
 EDW. S. KNIGHT.