

(No Model.)

E. H. KOHR.
LEAF HOLDER.

No. 505,771.

Patented Sept. 26, 1893.

Fig. 1.

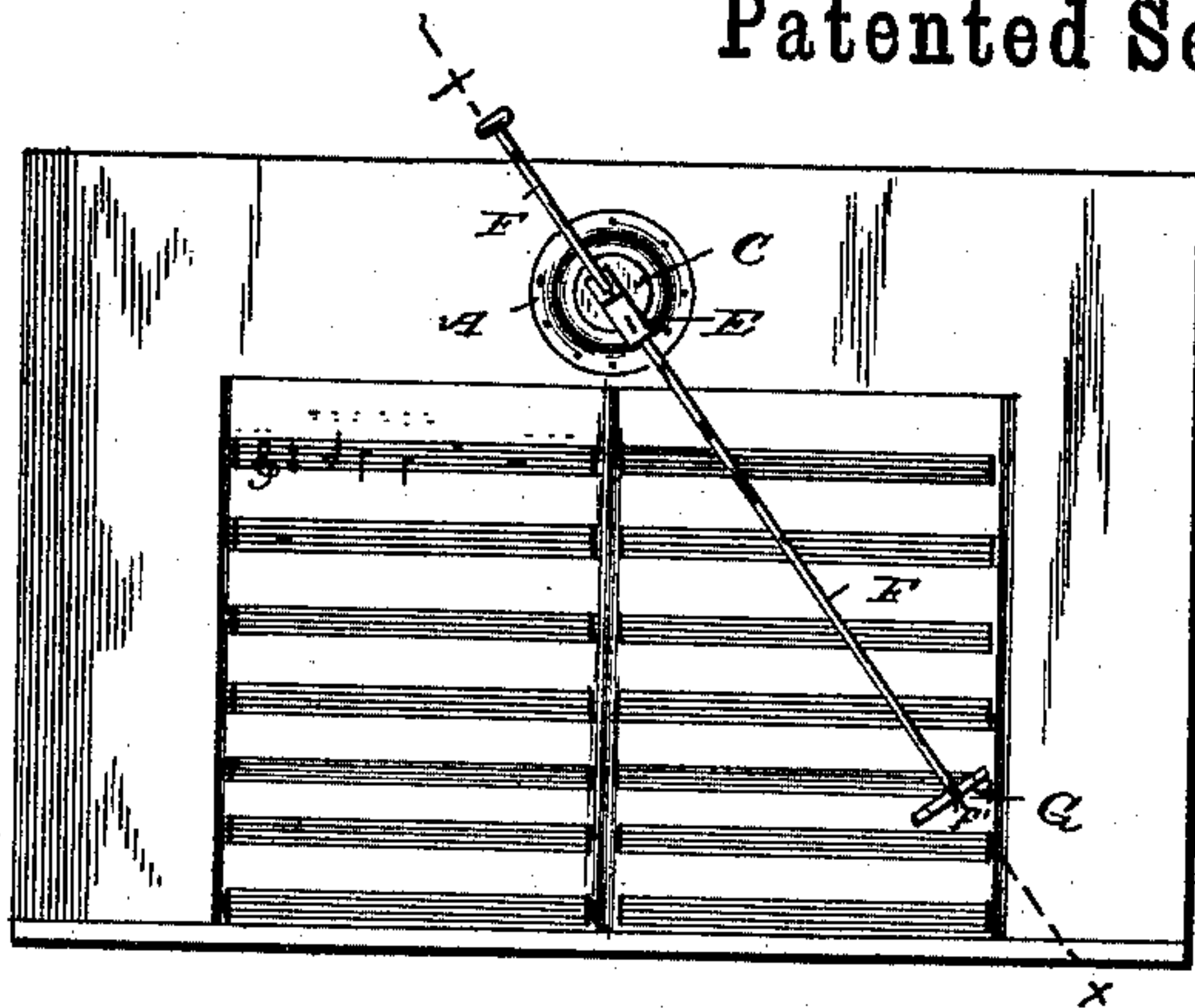


Fig. 2.

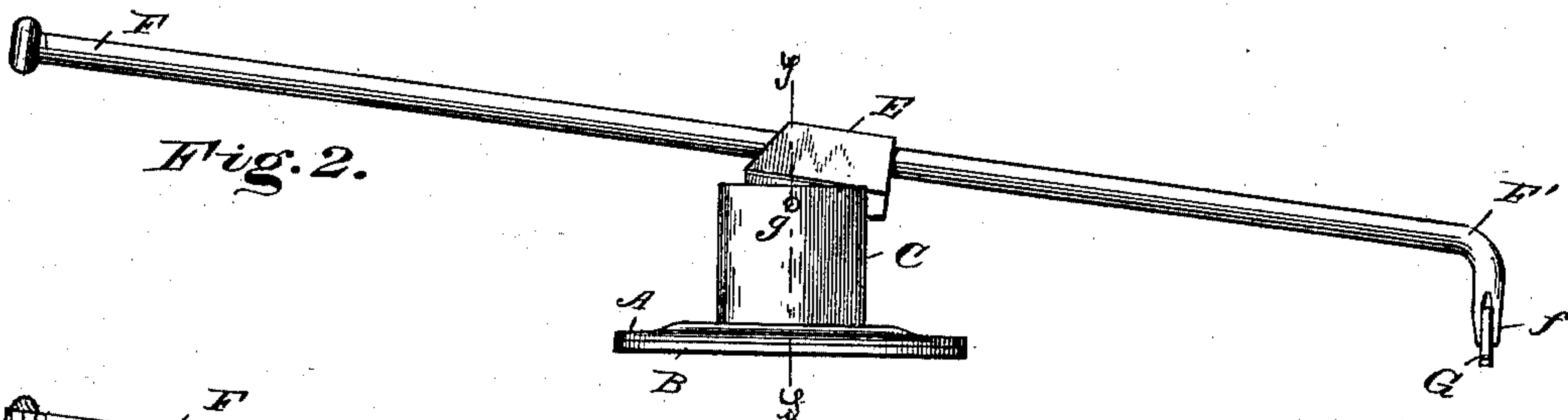


Fig. 3.

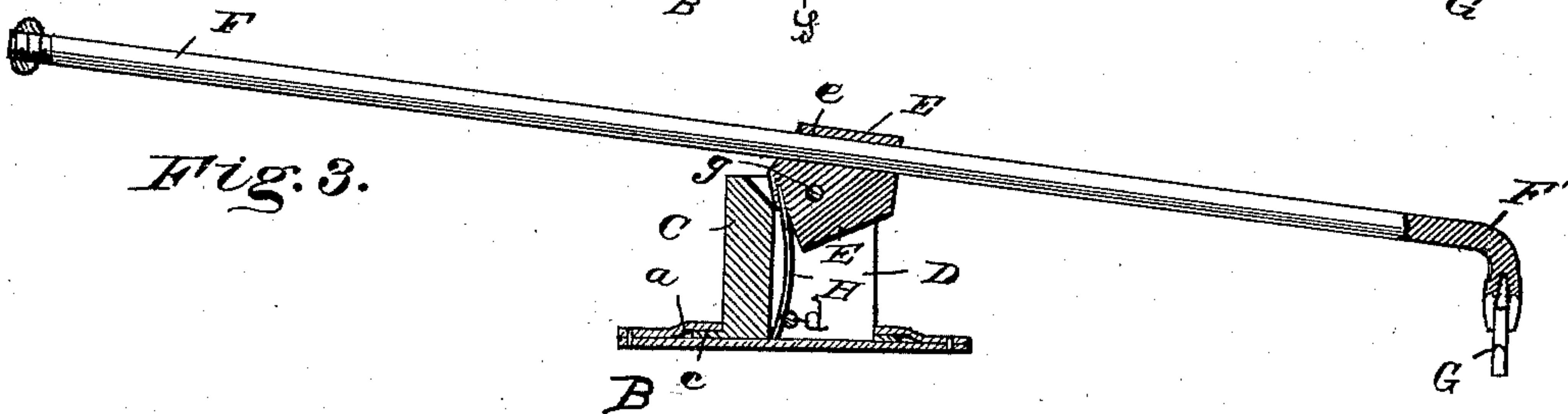


Fig. 4.

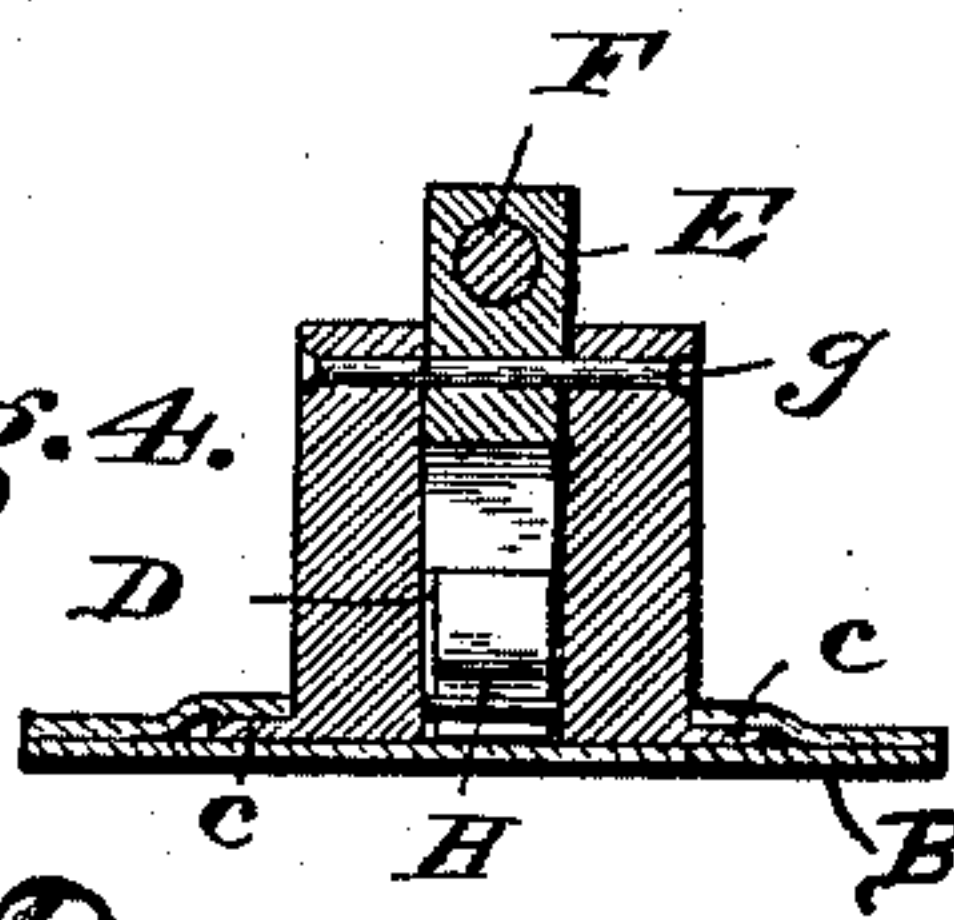


Fig. 5.

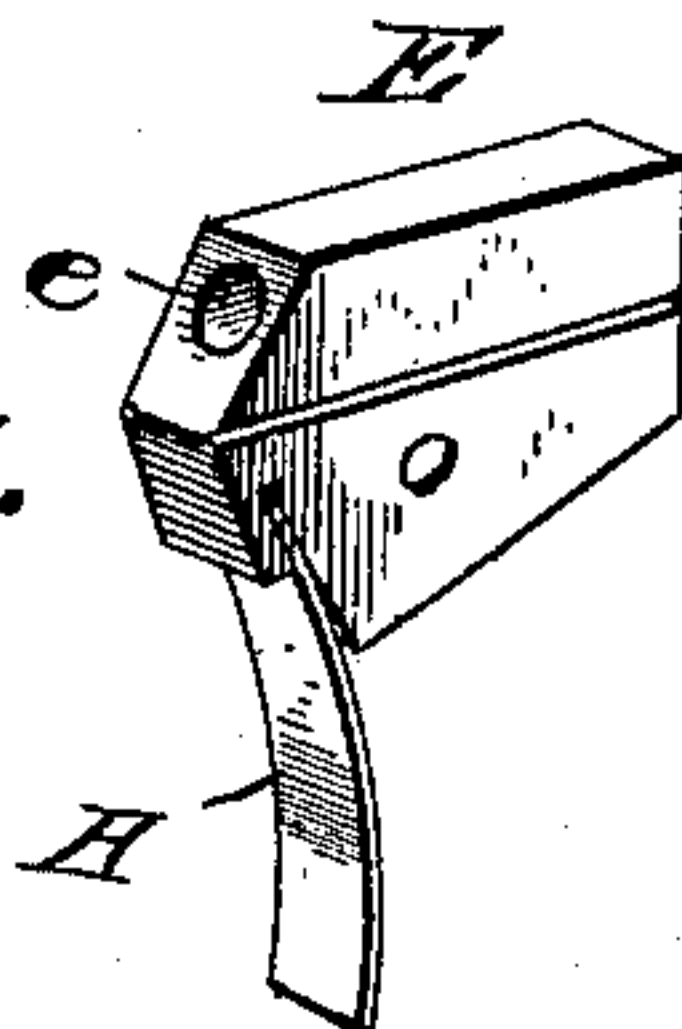


Fig. 6.

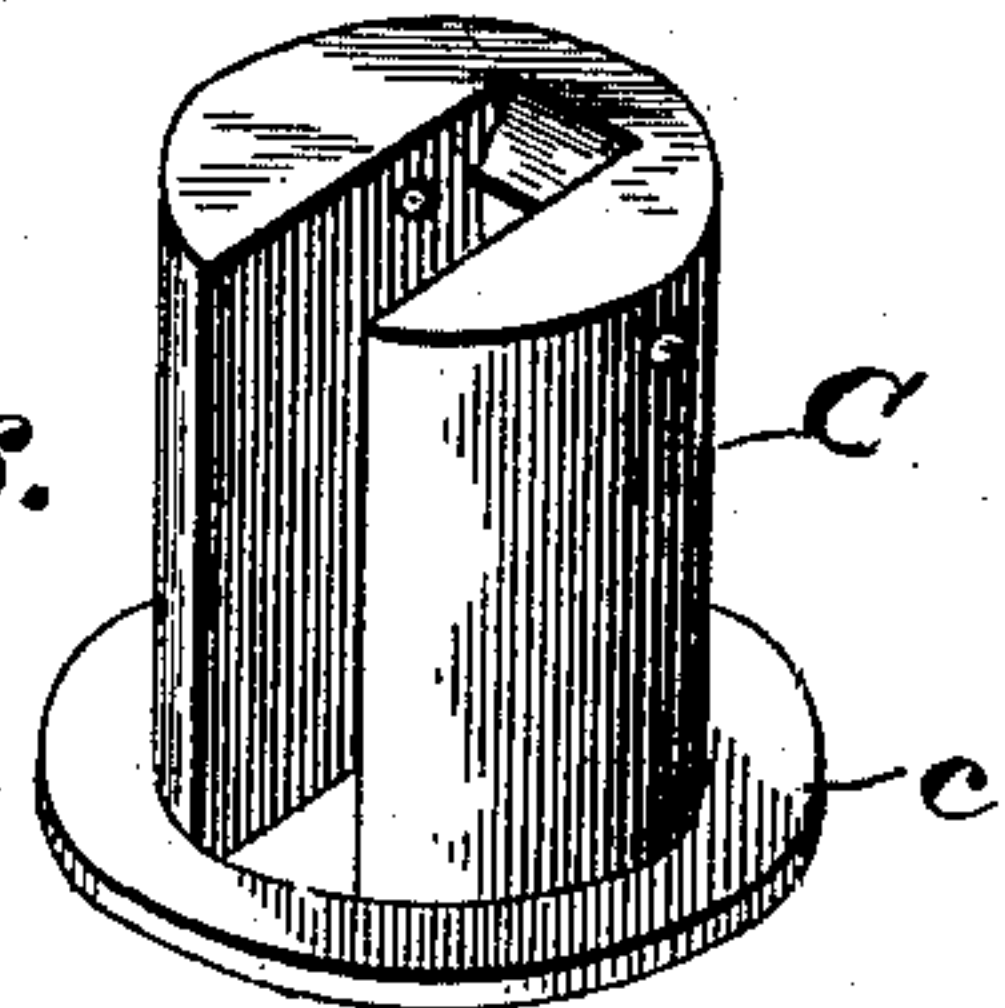
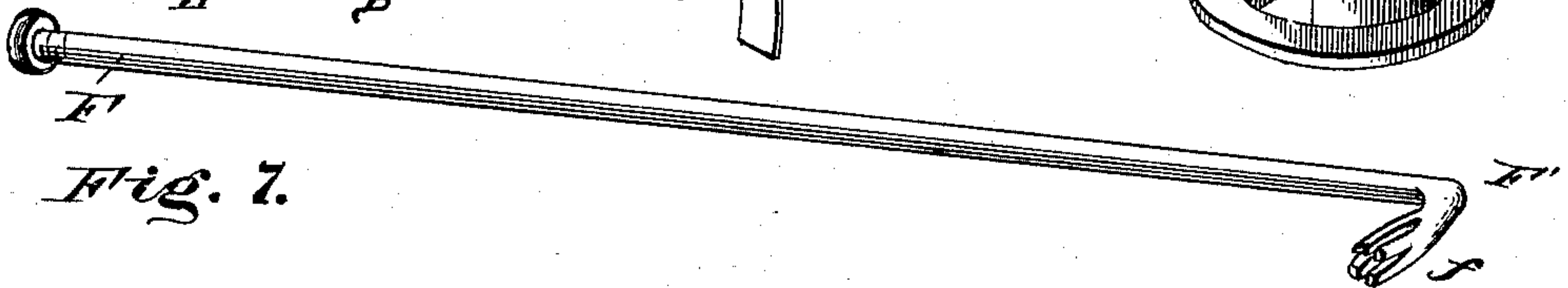


Fig. 7.



WITNESSES

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LEAF-HOLDER.

SPECIFICATION forming part of Letters Patent No. 505,771, dated September 26, 1893.

Application filed October 14, 1892. Serial No. 448,873. (No model.)

To all whom it may concern:

Be it known that I, EMANUEL H. KOHR, a citizen of the United States, residing at Tyrone, in the county of Blair and State of Pennsylvania, have invented certain new and useful Improvements in Leaf-Holders, of which the following is a specification, reference being had therein to the accompanying drawings.

Figure 1. is a front elevation of my improved leaf-holder applied to a music rack or stand. Fig. 2. is an enlarged view of the holder detached from the rack. Fig. 3. is a vertical section on line $x x$ Fig. 1. Fig. 4. is a section on line $y y$ Fig. 2. Figs. 5, 6, 7, are detached views of separate parts.

The object of my invention is to produce an economical and efficient device adapted to be applied to a music rack or other support, for the purpose of holding leaves or pages of music against accidental displacement, while permitting them to be intentionally moved without danger of injury thereto.

The invention consists in certain features of construction and arrangement of parts, as will be referred to in the claims.

Like reference letters refer to like parts in all the figures of the drawings.

A, B, is a base having a chamber or recess, a , formed therein with an opening which is preferably circular in form. I prefer to make this base in two parts the upper collar shaped member A, being centrally concaved so that when the flat part B, is united to the part A, these two will constitute the walls of the chamber. In practice I prefer to make these parts of sheet metal struck into proper shape by dies; but they may be made of malleable iron or other suitable material, the two members being united by solder or rivets. Thus there is formed a flat thin base adapted to be secured to the face of a music rack or other piece of furniture.

C, is a rotatory or swiveling post adapted to be inserted through the circular opening of the member A, and provided at its lower end with a flange c , which fits somewhat closely within the chamber a , so that the post

can turn upon its axis while the base remains stationary.

D, is a recess formed in the rotatory post and extending from one side of its peripheral wall nearly through to its opposite wall. This recess extends from the top of the post downward, and by reason thereof is adapted to receive a rod carrier to be described and which is seated in the recess, and projects some distance above the top of the post.

E, is a rod carrier of a thickness about equal to the width of the recess, D, in transverse section, and pivoted in the recess so as to oscillate freely about its pivot in a plane which is perpendicular to the plane in which the post C, rotates upon the base. This rod carrier is provided, near its upper edge, with a seat at e , for a rod or arm F F'. The part F, of the rod is preferably round in cross section to correspond with the seat e , within which it fits loosely enough so that it (the rod) can slide freely endwise and can also turn freely upon its axis. The part F' is made, preferably, by bending the end of the rod at a right angle to the main portion F, and then splitting the bent end transversely and afterward splitting both halves so as to form four claws or spurs f, f , as shown in Fig. 7.

G, is a foot piece or pad, preferably of rubber or some similar elastic material whereby it is adapted to be clasped between the spurs f , which take hold upon opposite sides of its upper edge. Thus these parts constitute an elastic foot piece or pressure.

g , is the pivot which connects the rod carrier with the rotatory post, these parts constituting, practically, a universal joint connecting the rod with the base in such manner that the rod is free to move in every direction within certain limits.

As will be seen the elastic foot or presser rests upon one page of the music near its edge; and in order to insure a sufficient frictional grip of the foot upon the music under the varying thicknesses of books and sheet music, I propose to employ a spring of proper character. In the drawings I have shown, for that

purpose, a simple tongue spring H, connected at its upper end to the rod carrier with its lower end engaging with a stop which, in this instance consists of a pin *d* seated in the walls of the recess. As a convenient way of attaching the spring to the rod carrier I propose to slit the rear edge and insert the upper end of the spring in the throat thus formed. But of course I do not want to be limited to any particular kind or arrangement of spring, because many different sorts might be employed to oscillate the rod and its carrier about its pivot *g*.

By examining Fig. 3 it will be seen that the vertical wall of the recess D serves as a stop to limit, or restrict, the vibration of the carrier and the rod about the pivot *g*; and that if, from any cause, such as wear or looseness of parts, it becomes possible to so tilt the rod about the pivot as to raise the foot piece somewhat higher than is shown in that figure, then the swing of the rod in that direction will be limited by the engagement of the rod with the top of the post at some distance from the point at which the rod is seated in the carrier; whereby undue tension of the spring is prevented. It is obvious that if the rod were mounted in a closely fitting seat formed for its reception in the post itself instead of in the pivoted carrier, and the vibration of the rod were thus made dependent upon its own elasticity no such capability of guarding against undue tension would exist, or does exist.

As is illustrated in Fig. 1, the base may be attached to the rack, or other music holder, at its upper edge about midway between its ends, when the device may be employed for holding the leaves on the right hand side of the rack or upon the left hand side as may be desired and in connection with books of greatly differing sizes by reason of the combination with a rotatory post of an endwise sliding arm; or, two of these holders may be employed one at each end of the rack. It will be observed that by reason of the spring pressing the foot *F'* toward the rack, the frictional contact of the rod with its seat in the rod carrier will prevent accidental endwise movement of the rod under ordinary circumstances. While I prefer to make the rod round in cross section so that it shall turn freely in its seat to permit a proper engagement of the presser foot with the leaf; yet the shape of the rod might be such that it would not turn round, in which case it would be advisable to mount the presser foot on the rod with a pivot or hinge joint to attain the same end. By reason of the rod being mounted in the carrier whereby it is pivoted to the rotatory post it may be of such size and shape in cross section that it shall be practically rigid, so that it will not be bent under any handling to which it will ordinarily be subjected and will therefore slide freely endwise through

its seat in the carrier, whereas, if the carrier were not pivoted but were integral with, or rigidly connected to, the post, so that vertical vibration of the rod depended upon its own flexibility, there would be liability of its becoming permanently bent in such way as to interfere with its endwise movements. Of course accidental endwise movement of the rod might be prevented by a set screw in the carrier in which case the spring might be omitted, and the presser foot may be weighted.

Having thus described the best way known to me for carrying out my invention I will state that I do not wish to be limited to the precise details of construction shown and described, because many modifications will readily suggest themselves to persons skilled in the art to which my invention pertains without departing from the spirit thereof.

What I claim is—

1. The combination of the base provided with an internal chamber, a rotatory post provided at its lower end with an outwardly projecting flange seated in the chamber, and an arm pivoted to the post and adapted to vibrate in a vertical plane, substantially as set forth.

2. The combination of the base provided with a chamber, a rotatory post secured at its lower end within the chamber a carrier pivoted to the post, and an arm mounted in the carrier and adapted to vibrate in vertical planes, substantially as set forth.

3. The combination of a base, a rotatory post provided with a recess an arm carrier pivoted in the recess, and an arm vibrating with the arm carrier and movable relatively thereto, substantially as set forth.

4. The combination of a base, a rotatory post, a rod carrier pivoted to the post and provided with a seat for a rod, and a rod mounted in the seat and movable relatively thereto, substantially as set forth.

5. In a leaf holder, the combination of a base, a rotatory post mounted at its lower end in the base and provided at its upper end with a downward extending recess, a carrier pivoted in the recess and projecting above the post, and a rod mounted in the carrier, substantially as set forth.

6. In a leaf holder, the combination of a base, a rotatory post mounted at its lower end in the base and provided at its upper end with a downward extending recess, a carrier pivoted in the recess and projecting above the post, a rod mounted in the carrier, and a stop to limit the upward movement of that end of the rod which engages with the leaf, substantially as set forth.

7. In a leaf holder, the combination of a base, a rotatory post mounted on the base, a carrier pivoted at the upper end of the post, a rod mounted in the carrier, a spring to press one end of the rod down upon the leaf, and a

stop to limit the tension of the spring, substantially as set forth.

8. In a leaf holder, the combination of a base made in two parts of which the upper
5 one is collar shaped, the base having a chamber, a rotatory post provided at its lower end with an outwardly projecting flange seated in the chamber, a carrier pivoted at the up-

per part of the post, and a rod mounted in the carrier, substantially as set forth. 10

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

EMAMUEL H. KOHR.

Witnesses:

HARVEY A. KOHR,
B. F. NAILE.