

A. Kipp, Jr.,
Grinding Skate Runners.

N^o 66,853.

Patented July 16, 1867.

Fig. 2.

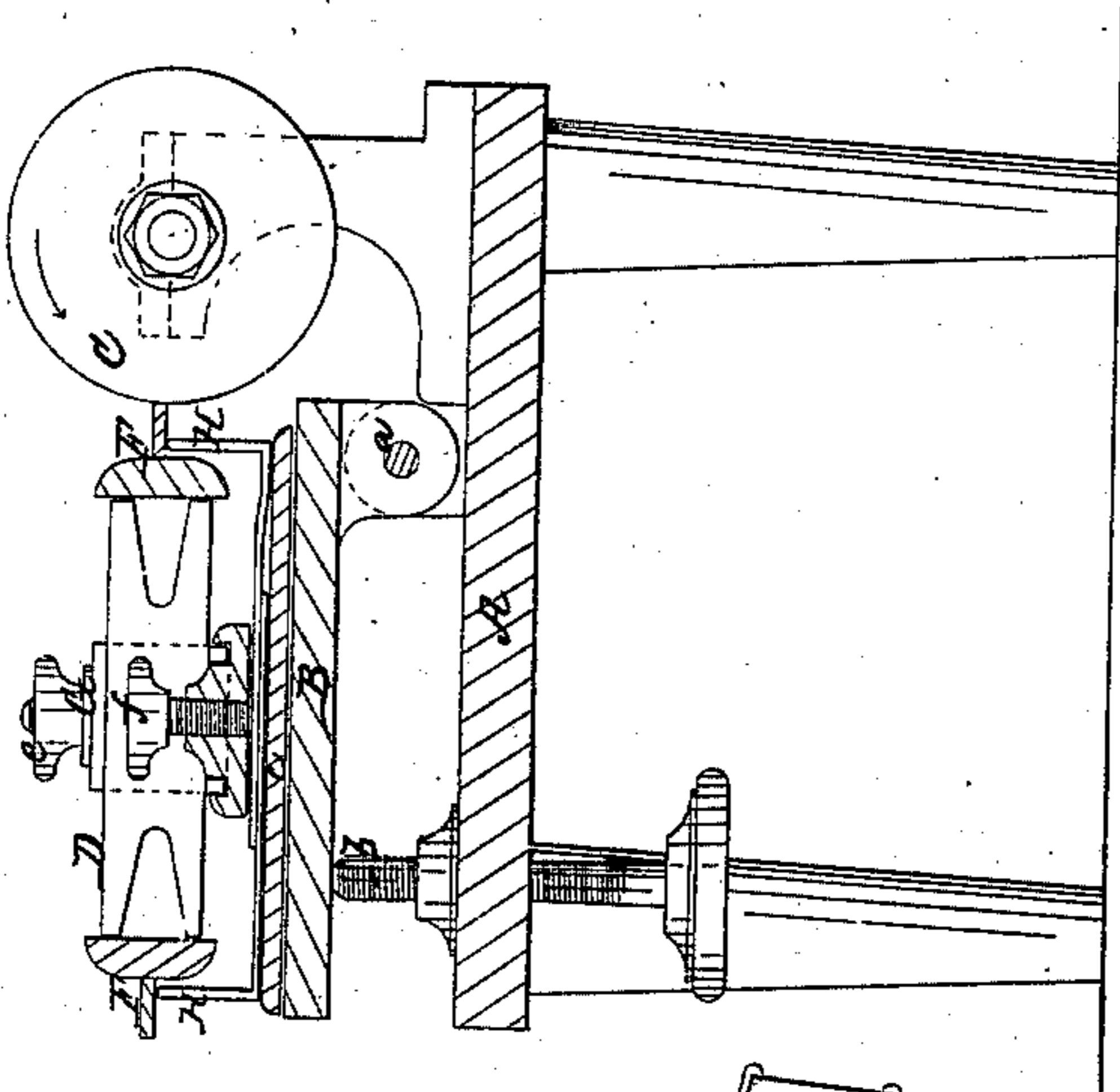


Fig. 1.

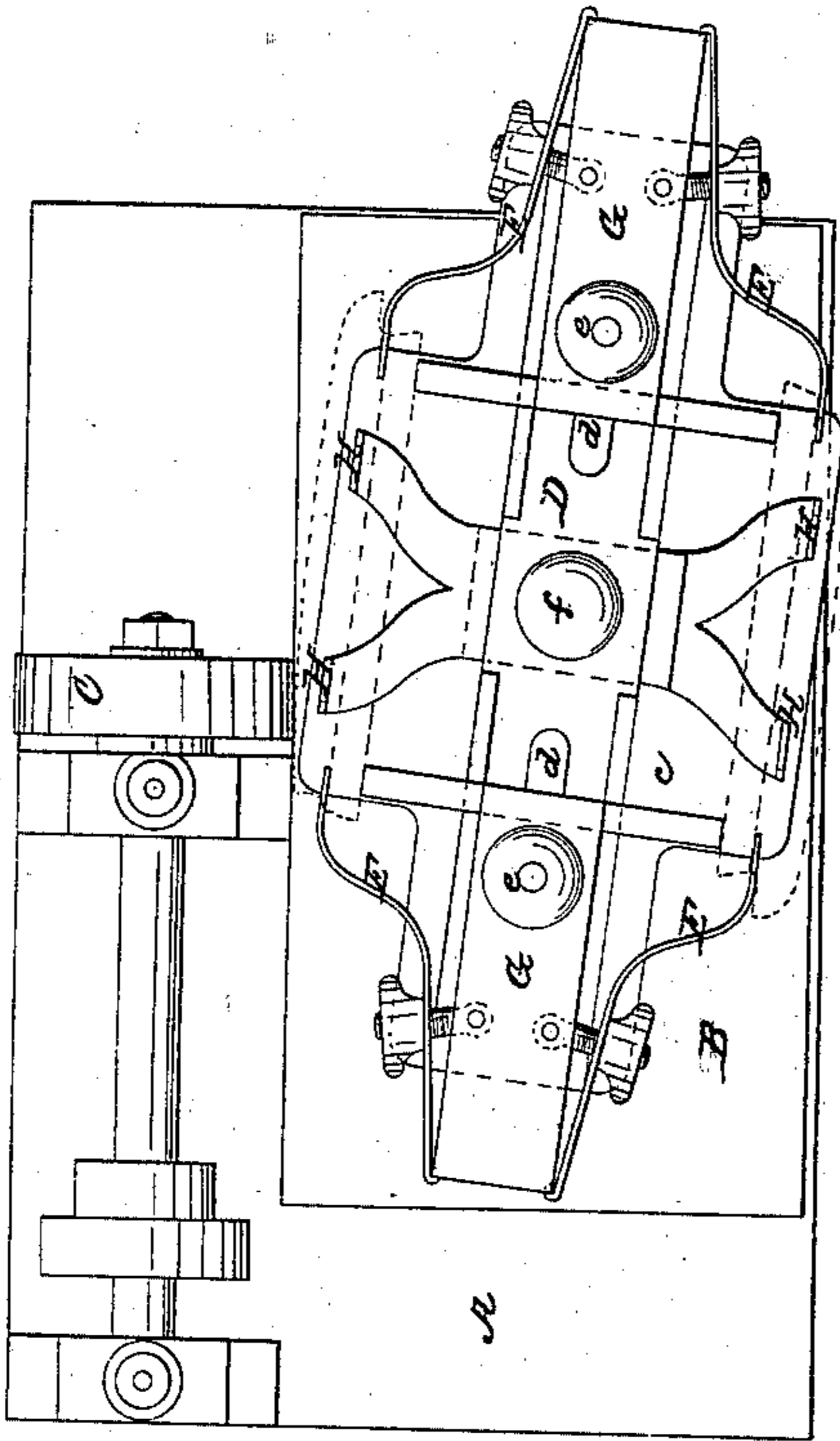
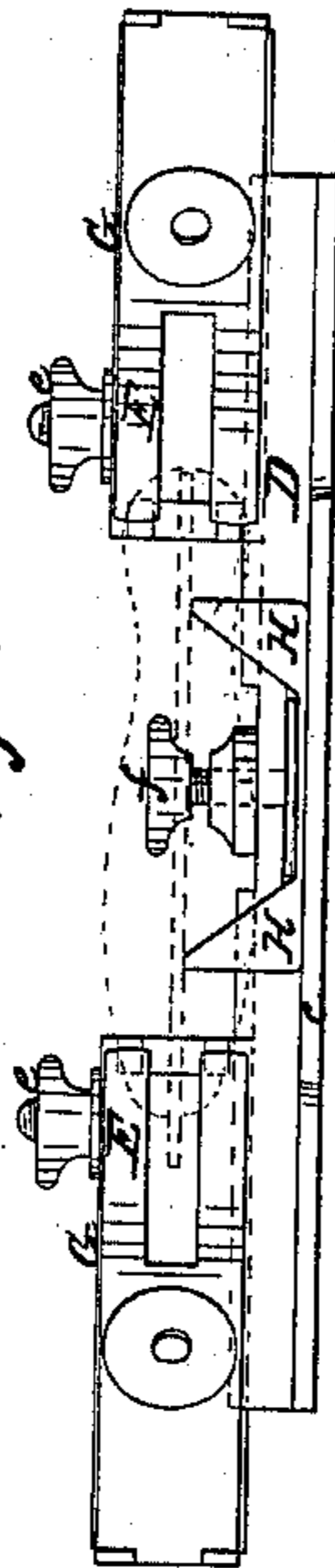


Fig. 3.



Inventor

A. Kipp, Jr.
Per his attorneys,
Brown, Corbridge

Witnesses.

J. W. Corbridge
G. W. Reed

United States Patent Office.

ABRAHAM KIPP, JR., OF SING SING, NEW YORK.

Letters Patent No. 66,853, dated July 16, 1867.

IMPROVEMENT IN MACHINES FOR GRINDING THE RUNNERS FOR SKATES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ABRAHAM KIPP, Junior, of Sing Sing, in the county of Westchester, and State of New York, have invented a certain new and useful Improvement for Dressing and Re-dressing the Running-Edges of Skate-Blades, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification, and in which—

Figure 1 represents a plan of a machine or device constructed according to my improvement.

Figure 2, a vertical transverse section of the same; and

Figure 3, a longitudinal side or edge view of the work-holder, detached.

Like letters indicate like parts throughout the several figures.

The nature of my invention, which is specially applicable to redressing the running-edges of skates or skate-blades, consists in a combination of a loose or free skate-holder, having a plain or bevel bearing-surface, and bed or table having a similar surface, forming, when resting the one upon the other, two planes or level surfaces, with a rotating grinding-wheel or stone, against which the skate-blade at its running-edge is worked by manipulation of the holder on or over the bed; that may be set either horizontal or at any desired angle. Said invention also consists in a peculiar construction of such holder for clamping and securing the work.

Referring to the accompanying drawing, A represents a frame or bench having arranged upon it a bed or table, B, presenting an upper plane or level surface, and preferably hinged along its one side or edge, as at *a*, also adjustable at its opposite side or edge, say by a screw, *b*, to vary its angle from a horizontal position relatively to a grinding-wheel or stone, C, arranged and operated to revolve either horizontally or vertically, accordingly as the running-edge of the skate requires to be fluted or otherwise. Upon this bed or table B is placed a loose or free holder, D, formed with a bottom plate, *c*, the under surface of which constitutes a plane or level, resting on the bed or table B, which latter, in connection with the same, form working-planes for manipulation of the holder and direction of the work to the grinding-wheel or stone. This loose or free holder I prefer to make of a shape that shall form handles at either end for the more easy manipulation of it, and the same should be provided with adjustable spring or hinged end clamps E to (if made double) a pair of skates F, said clamps being attached to slides G, working in slots *d*, and secured by set-screws *e*, to adapt them to hold different lengths of skates, and also provided with under rests H to the skate-blades, adjustable in or out, and secured by a set-screw, *f*, situated within the holder, and round which the straps of the skates being re-dressed might be wrapped.

By this combination, with a grinding-wheel or stone, of a loose or free holder and bed or table, forming working-planes or levels, the skates may have their running-edges dressed or redressed at any desired angle by simply moving about on the bed or table, either in a straight line across the grinding-wheel or in curvilinear directions, to redress the toe or toe and heel, the holder D, which, having a firm bearing on the bed B, secures a regular and perfect grinding action, while the loose or free character of the holder not only affords every facility for manipulation or adjustment of the skates to the grinding-wheel, but allows of the workman, from time to time, examining the work by lifting the holder, with a certainty that when replacing it the same grinding-angle will be preserved, instead of the uncertainty which attaches to the ordinary method, and in which no such holder is used and the workman forced to stoop close to the work to watch its progress, to his great inconvenience and injury, by the inhalation, to which he is exposed, of injurious dust or particles flying off in the grinding process.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In combination with a grinding-wheel or stone and loose holder to the work having a level bearing-surface, as described, a bed or table on which said holder rests and over which it is moved, hinged or made adjustable, to vary its angle relatively to a horizontal position, essentially as herein set forth.

2. The loose or free holder D, forming a base or bearing-plane, provided with adjustable clamps E and rests H, for securing and supporting the work, all constructed and arranged substantially as specified.

ABRAHAM KIPP, JR.

Witnesses:

WM. F. HULL,

C. W. HULL.