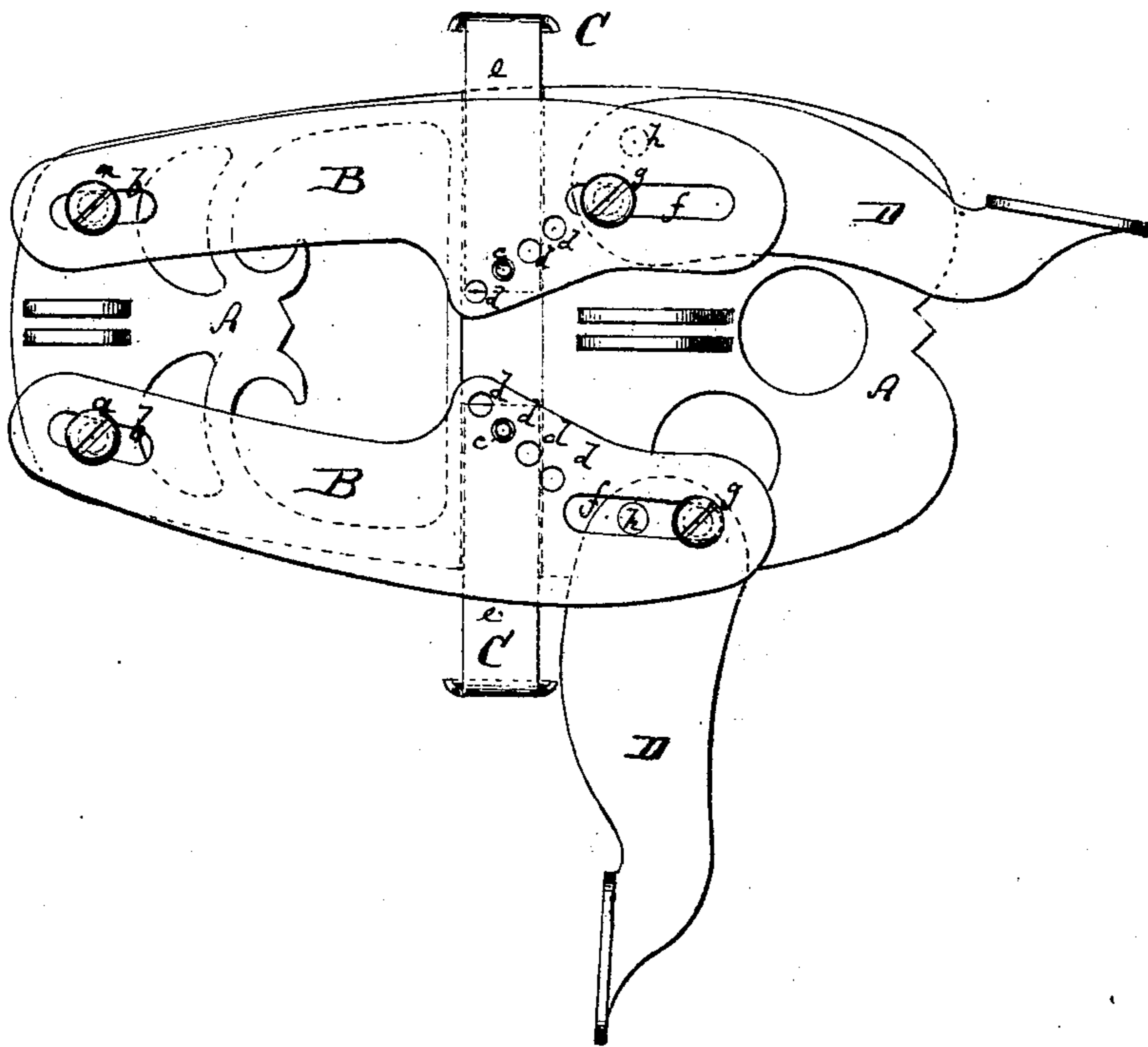


M. Kinsey,

State.

No. 103623.

Patented May 31. 1870.



Witnesses:

S. S. Mabee
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Inventor:

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United States Patent Office.

MOSES KINSEY, OF NEWARK, NEW JERSEY.

Letters Patent No. 103,623, dated May 31, 1870.

SKATE-FASTENING.

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, MOSES KINSEY, of Newark, in the county of Essex and the State of New Jersey, have invented a new and Improved Skate-Fastening; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

The drawing represents an inverted plan view of my invention.

This invention has for its object to provide a simple and reliable means for operating the toe-clamps of skates, and consists in the peculiar arrangement of two pairs of pivoted levers, and in the combination therewith of the sliding clamps.

A, in the drawing, represents a portion of the foot-support of a skate.

To its under side are pivoted, near to the front end of the same, two levers, B B, which extend backward, as shown.

The pivot-pins *a* of the levers B are made in form of screws, which pass through longitudinal slots *b* of the levers, as shown, allowing longitudinal adjustment of the levers.

C C are the toe-clamps; their shanks, *e*, fit into and slide in transverse grooves that are provided in the under side of the plate A A.

A pin, *c*, projects downward from each shank *e*, through one of a series of apertures, *d*, in the levers B. These apertures *d* are arranged in oblique lines, so that, by fitting the pins *c* through different ones, the clamps will be adjusted more or less far apart. The levers B are, by means of the slots *b*, made longitudinally adjustable, so that thereby either one of the apertures *d* can be brought in line with and under the pins *c*. The longitudinal adjustment of the levers

B serves, therefore, to regulate the position of the clamps.

Near the back end is, in each lever B, a longitudinal straight slot, *f*, through which a pin, *g*, projects from a lever D.

Two such levers, D, are pivoted, by pins *h*, to the under side of the plate A, and each has a projecting pin, *g*, as shown, so that there is one for each lever B. The pins *g* are eccentric to the pivots *h*.

By so turning the levers D that their pins *g* are about in line with the two pivots *h*, the levers B will be swung furthest inward, and the clamps brought as near together as they can be. By turning the levers D with their ends outward, the clamps will be opened. The straight slots *f* permit all the necessary motion of the levers D.

When the pins *g* are in line with the two pivots *h*, the clamps are closed, but they are locked by carrying the pins *g* a little further than the said line, as indicated in the upper part of the drawing. Thereby the spontaneous opening of the clamps is effectually prevented.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

1. The levers B, provided with the straight slots at their front ends, and with the apertures *d* arranged in oblique direction, to permit, by their longitudinal adjustment, the lateral adjustment of the clamps C, as set forth.

2. The combination of the pivoted levers D, which have the projecting pins, *g*, with the levers B, having the slots *f*, and with the sliding toe-clamps, all arranged as set forth.

Witnesses:

GEO. W. MABEE,
ALEX. F. ROBERTS,

MOSES KINSEY.