G. W. Shearer,

Skate,

No. 70,906, Patented Nov. 12, 1867.

Fig. 2.

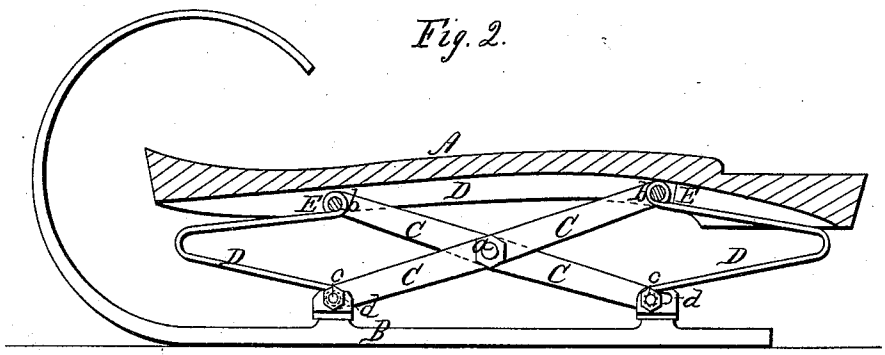


Fig. 1.

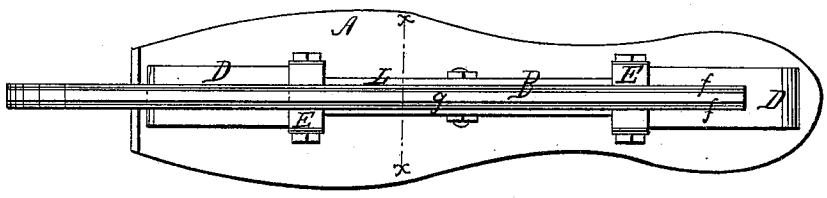


Fig. 3.



Witnesses;

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AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

United States Patent Office.

GEORGE W. SHEARER, OF CROWN POINT CENTRE, NEW YORK.

Letters Patent No. 70,906, *dated November* 12, 1867.

IMPROVEMENT IN 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, GEORGE W. SHEARER, of Crown Point Centre, Essex county, New York, have invented a new and useful Improvement in "Skates;" 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 drawings, forming part of this specification.

The present invention relates to a novel manner of connecting the runner or blade to the foot-rest or block of the skate, through an arrangement of springs and levers, whereby an easy and elastic movement is imparted to the skate, by the act of skating thereon; and also to so creasing or grooving the under or running surface of the blade to the skate as to combine all the advantages of both a plain and grooved runner. In the accompanying plate of drawings, my improvements in skates are illustrated—

Figure 1 being a plan view of the skate from its under side.

Figure 2, a central longitudinal vertical section; and

Figure 3, a transverse vertical section, taken in the plane of the line *x x*, fig. 1.

Similar letters of reference indicate corresponding parts.

A, in the drawings, represents the foot-rest or block to the skate; B, the runner or blade, which, through levers C and springs D, is secured to the under side of the foot-rest A, as will be now described. The levers C are two in number, and are hung upon a common cross-pin, *a*, at their centres, so as to cross or intersect one another between the rest and runner. In groove D, upon the under side of the foot-rest, the ends of the two levers C are hung to pins *b* of blocks E. The lower ends of the levers C, by pins *c*, are hung in slots *d* of the ear-pieces on the upper side of the runner or blade B. The springs D are bent into a V shape, and by one of their ends are hung to the pins at the ends of the levers joined to the runner or blade B, and by their others to the pins of the sliding-blocks, by which the levers are arranged in the groove upon the under side of the foot-rest. By the arrangement of the levers and springs above described, it is plain to be seen that the ease and elasticity of the skate to the foot is greatly increased, and that the skater can consequently skate with greater speed. L, the running or bearing-edge of the blade B to the skate, which edge is provided with two parallel grooves or creases *f* along its length, with the space or portion *g* of the edge between such grooves projecting slightly beyond the extreme edges to the skate-blade, whereby all the advantages of a plain and grooved runner are secured, as is obvious.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the levers and springs between the blade and foot-rest of a skate, when arranged and applied thereto substantially as and for the purpose described.

The above specification of my invention signed by me this 22d day of April, 1867.

GEORGE W. SHEARER.

Witnesses:

S. B. SPRAGUE,

EZRA W. SHEARER.