(No Model.)

H. S. EVANS.

SKATE.

No. 601,013. Patented Mar. 22, 1898.

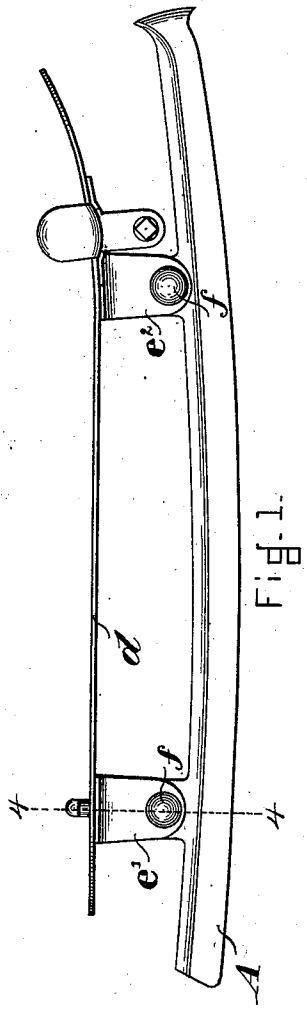


Fig. 1.

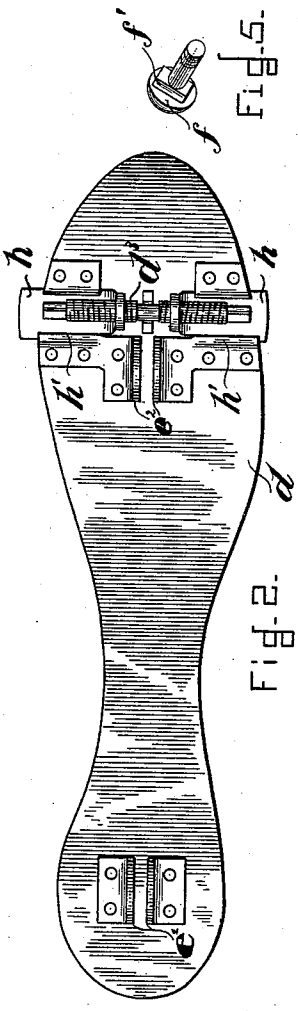


Fig. 2.

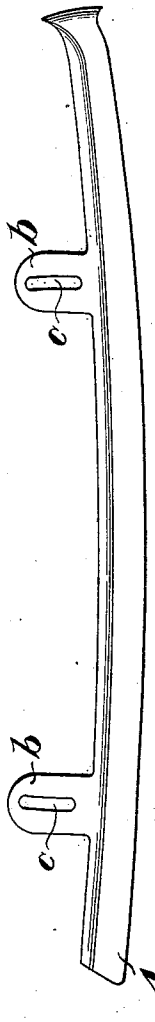


Fig. 3.

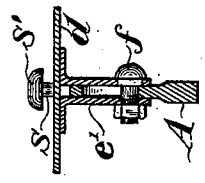


Fig. 4.

Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

HERBERT S. EVANS, OF BOSTON, MASSACHUSETTS.

SKATE.

SPECIFICATION forming part of Letters Patent No. 601,013, dated March 22, 1898.

Application filed February 20, 1897. Serial No. 624,493. (No model.)

To all whom it may concern:

Be it known that I, HERBERT S. EVANS, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Skates, of which the following, taken in connection with the accompanying drawings, is a specification.

The object of this invention is to improve the construction of skates to the end that the runner of the skate may be adjusted pivotally and vertically relative to the foot-plate, thus allowing the skater, while retaining the natural easy position of the foot, to adjust his balance over any part of the blade as desired or to correct any departure from his customary balance brought about by a difference in shoes, imperfect grinding of the runner in sharpening, &c.; and, furthermore, in case the skate is provided with clamps to engage the sole of the shoe, if the user should wear very wide shoes, vertical adjustment of the runner enables the foot to be raised to such an elevation that it can be tilted or inclined, as required, for curves, &c., without coming in contact with the ice.

The invention consists in the combination, with a foot-plate and attaching devices, of a runner and means for attaching said runner to said foot-plate and permitting pivotal and vertical adjustment thereof.

Figure 1 is a side elevation of a skate, showing the runner adjustably secured to the foot-plate. Fig. 2 is a plan view of the foot-plate and sole and heel clamps of a skate with the runner removed. Fig. 3 is a side elevation of the detached runner of a skate embodying this invention. Fig. 4 is a vertical section taken on the line 4 4, Fig. 1, showing the manner of securing the runner to the heel end of the foot-plate; and Fig. 5 is a perspective view of the bolt used to secure the runner to the plates.

A represents the runner of a skate, and *b b* two ears or projections made integral therewith or secured thereto. Said ears or projections *b b* are constructed and arranged to project upwardly from said runner A at or near the ends thereof. A vertical slot *c* is formed in each of said ears *b*, as shown in Fig. 3, and said runner A is adapted to be adjustably secured by said ears to a foot-plate *d*. Two pairs of downwardly-projecting ears e' e^2 are secured, respectively, to the under side of the foot-plate *d*, and each ear has a hole through it and each pair of ears is adapted to receive between them the ears or projections *b b*, formed upon the runner A. A bolt *f* is passed through the hole in each pair of ears e' e^2 and through the slots *c*, formed in said ears or projections *b b* of the runner, and said bolt when tightened clamps the parts together. The bolts *f* have a shoulder *f'*, which enters the slot *c* in said projections *b*, which will prevent said bolts from turning.

It is obvious that the runner A of the skate can be adjusted, and also either end thereof can be adjusted independently of the other. The drawings show a foot-plate adapted to be secured to the sole of a boot by a clamp having two jaws *h h*, adapted to slide in guideways *h'*, provided on the under side of said foot-plate, and said jaws *h h* have ears e^2 formed on their inner ends, which project downwardly, and right and left screw-threaded holes are formed, respectively, in said ears *d*, through which a right and left threaded screw d^3 works, the ends of said screw being squared to receive a key which is adapted to operate them. The heel end of the foot-plate may have a similar clamping device, or a stud, such as S, may be employed, having a head S', made longest on a line at right angles to the runner and projecting upwardly from said foot-plates and adapted to enter a socket formed in the heel of the boot, the said socket being longest in the direction of length of the boot.

The skate is applied to the boot at right angles thereto, and when said projection S' enters the socket the skate is turned into line with the foot, thus locking the skate to the heel of the boot; but I do not wish to limit myself to sole and heel clamping devices such as herein shown, as the foot-plate may be secured to the boot in many other ways.

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

1. In a skate, the combination of a foot-plate having means for securing the same to a shoe, with a runner therefor, and means for attaching the foot-plate and runner together, whereby said foot-plate may be adjusted and

held at any desired height with relation to said runner, at either end thereof, substantially as described.

2. In a skate, the combination of a foot-plate having means for securing the same to a shoe, and ears located at each end each having a hole therein, with a runner therefor having a vertical slot at each end, and a bolt and nut at each end of the skate for attaching the foot-plate and runner together, said bolt passing through the slots in the runner and holes in the ears of the foot-plate and having the nut screwed thereon, whereby said foot-plate may be adjusted and held at any desired height with relation to said runner at either end thereof, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 9th day of February, A. D. 1897.

HERBERT S. EVANS.

Witnesses:
ALBE C. CLARK,
ARTHUR W. EVANS.