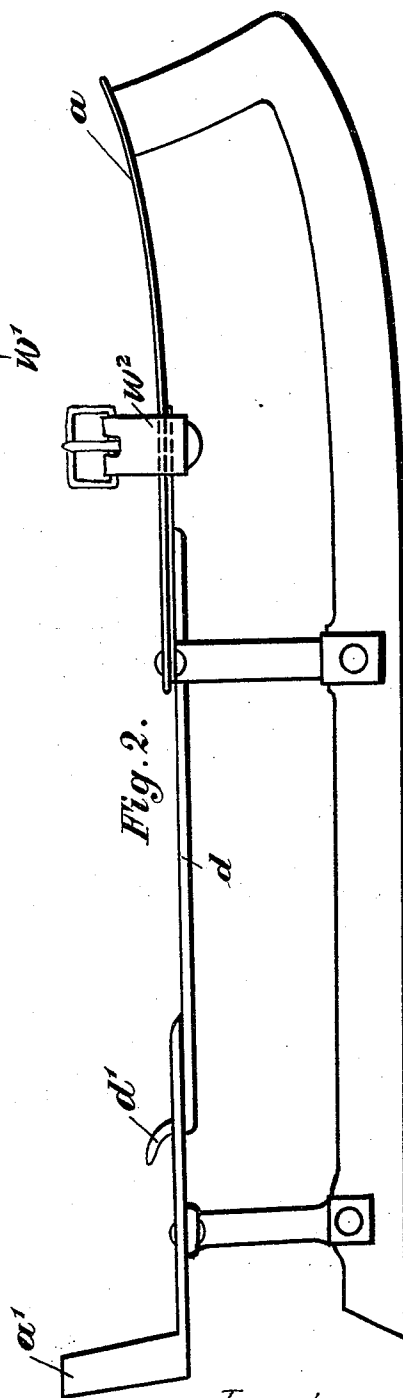
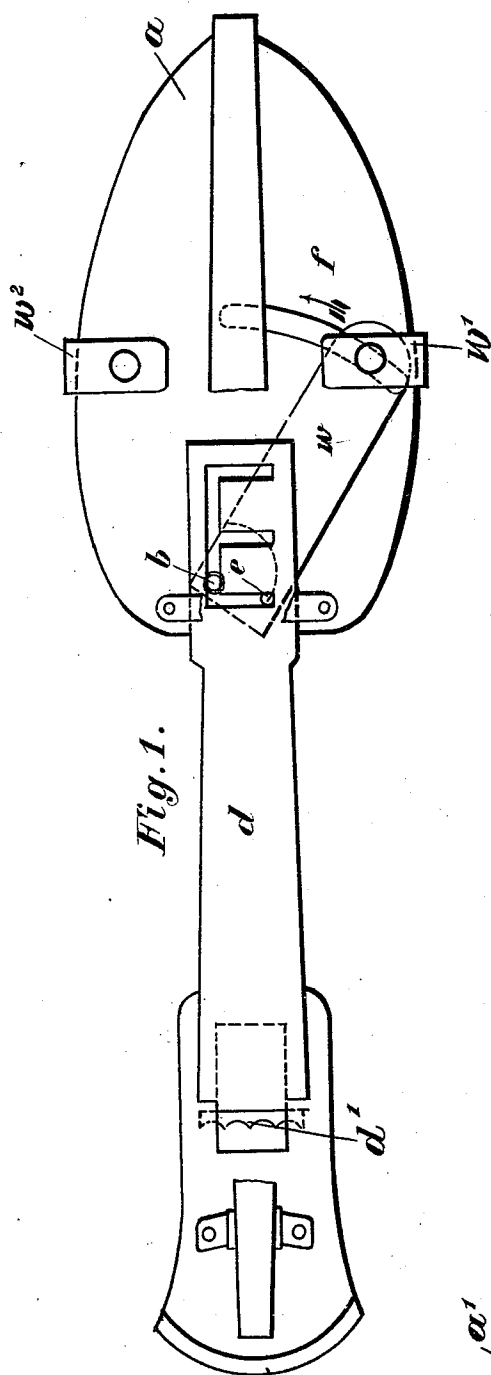


(No Model.)

F. KALKNER.
SKATE.

No. 518,251.

Patented Apr. 17, 1894.



Witnesses.
James M. Spear
F. L. Middleton

Inventor
Friedrich Kalkner
By Richard H. Coe
Atty.

UNITED STATES PATENT OFFICE.

FRIEDRICH KALKNER, OF HILDESHEIM, GERMANY.

SKATE.

SPECIFICATION forming part of Letters Patent No. 518,251, dated April 17, 1894.

Application filed September 23, 1893. Serial No. 486,296. (No model.)

To all whom it may concern:

Be it known that I, FRIEDRICH KALKNER, doctor of philosophy, of Hildesheim, in the Kingdom of Prussia, in the German Empire, have invented a new and useful Improvement in Skates, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a skate which is fixed to the foot by the action of a lever actuated by the pull of the fastening strap. The mechanism of this fastening and still more the manipulation thereof is characterized by great simplicity and the arrangements are such that adjustment to suit various sizes of the heels of the wearer's boots can easily be effected.

The construction of the skate is shown in the drawings hereto annexed, in which—

Figure 1 is a view of the under side of the skate with part of the blade broken away to show more clearly certain of the working parts, and Fig. 2 is a side elevation.

The lever w is pivoted on the pin b riveted to the sole plate a of the skate, and a pin e riveted to the same lever takes into an E-shaped slot in the sliding bar d which, at its hinder end is bent upward and formed into a claw d' adapted to press against the front part of the heel of the boot in order to secure the skate thereto. To the lever w is fixed one end w' of the fastening strap while the short length of strap w^2 to which the buckle is fixed is riveted to the sole a of the skate.

The mechanism acts as follows:—After the foot is placed on the opened skate the front part of the foot is secured by pressing the

free end of the strap w' over such front part of the foot and buckling it to the buckle on the strap w^2 . The pull on the strap w' in the direction of the arrow f over the top of the front of the foot to effect this buckling draws the lever w into the position, shown in Fig. 1 whereby the bar d is pressed backward with great leverage forcing the heel of the boot against the back wall a' of the skate so as to clamp the heel between such back wall a' and the claw d' .

Small differences in the length of heel are compensated for by buckling into, the various holes of the fastening strap. But to compensate for greater differences the lever w can be turned on the fulcrum b so as to bring the pin e into the longitudinal part of the E-shaped slot in the bar d from whence it may be shifted into any of the cross slots of the same so as to bring the hinder end of the bar d nearer to or farther from the back wall a' of the skate.

What I claim, and desire to secure by Letters Patent of the United States, is—

In a skate, a heel clamp consisting of a sliding bar d and claw, a pivoted lever w operating said sliding bar d , a stationary strap on one side of the skate and a second strap secured to said pivoted lever w at the free end thereof, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

FRIEDRICH KALKNER.

Witnesses:

M. SCHRAGENHEINY,
JOHN H. SCHNABEL.