(No Model.)

E. S. KINGSTON.

COASTING SKATE.

No. 334,954. Patented Jan. 26, 1886.

Fig. 1.

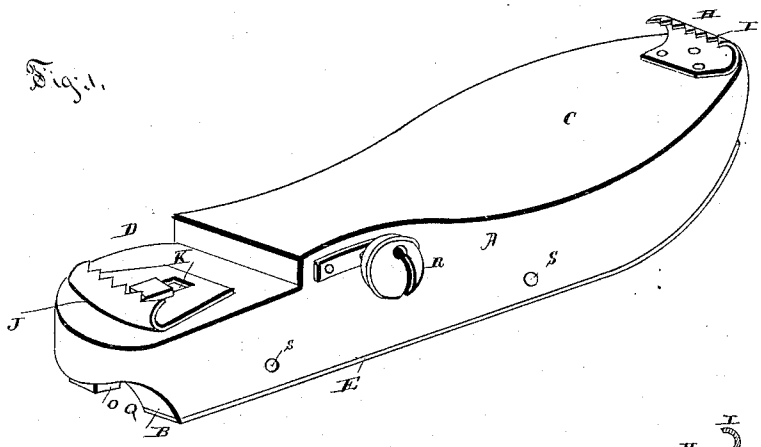


Fig. 2.

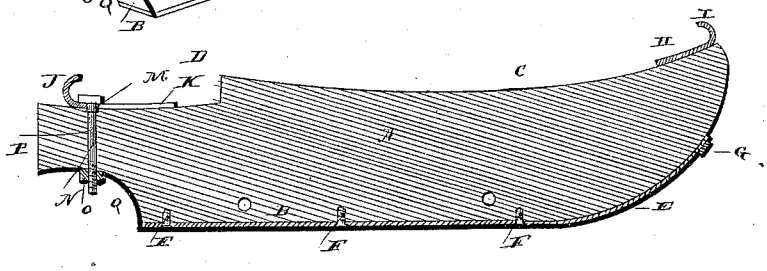


Fig. 3.

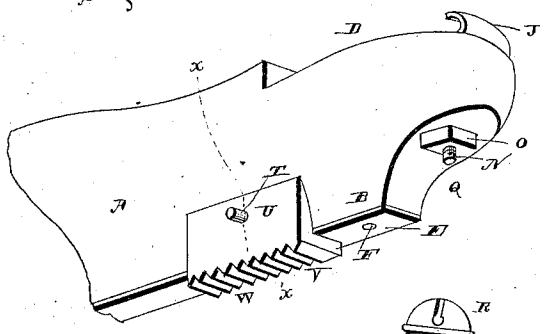


Fig. 4.

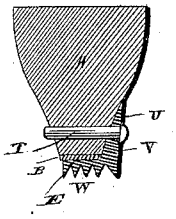
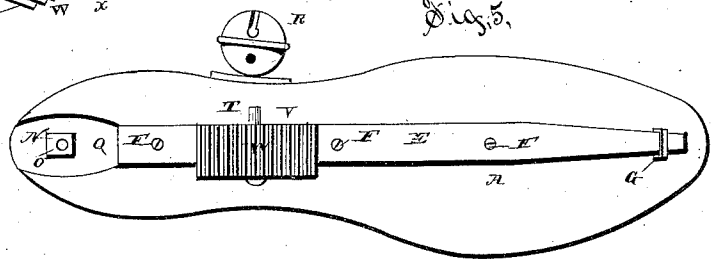


Fig. 5.



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UNITED STATES PATENT OFFICE.

EDWARD S. KINGSTON, OF LITTLE FALLS, NEW YORK.

COASTING-SKATE.

SPECIFICATION forming part of Letters Patent No. 334,954, dated January 26, 1886.

Application filed December 12, 1885. Serial No. 185,486. (No model.)

To all whom it may concern:

Be it known that I, EDWARD S. KINGSTON, a citizen of the United States, and a resident of Little Falls, in the county of Herkimer and State of New York, have invented certain new and useful Improvements in Coasting-Skates; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved coasting-skate. Fig. 2 is a longitudinal vertical section of the same. Fig. 3 is a perspective view of a portion of the skate, showing the brake applied. Fig. 4 is a cross-section on line *x x*, Fig. 3; and Fig. 5 is a bottom view of the skate.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to skates for coasting or similar use upon a snow-covered surface, combining the properties of a skate and a sled; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the body of the skate, which is preferably made of wood, turned upon a Blanchard lathe for turning articles of irregular form, and which is made of a shape similar to a boat or canoe, having a flat keel portion, B, and an upturned tapering bow. The upper side of the body is shaped to correspond to the sole of a boot or shoe, having the forward portion, C, concaved and the heel portion D cut down to make room for the heel of the boot or shoe. A strip, E, of iron or steel, is secured to the flat keel portion by means of screws F, and the tapering forward portion of the strip is retained upon the upwardly-curved toe or bow portion of the body by means of a staple, G. A clamp or dog, H, is secured with its base-plate at the toe of the body, having an inwardly-bent and preferably serrated flange, I, which is adapted to clamp over the sole of the boot or shoe at its toe, and a similarly-shaped heel-clamp, J, has a longitudinal slot, K, with which it slides upon the square shank M of a bolt, N. This bolt passes through a perforation, P, in the heel end of the skate, and is provided at its lower end with a nut, O, which bears against the cut-away portion Q of the under side of the heel portion, so that the clamp may be adjusted upon the heel end of the skate by means of this nutted bolt. A bell, R, is secured loosely to the outer side of the shank portion of the skate, sounding when the skate is moved.

For the purpose of enabling the wearer of these skates to climb hills with the skates on, the body of the skate is formed with one or more transverse perforations, S, into which may fit a bolt, T, which passes through the upwardly-projecting flange U of a plate or flat block, V, the under side of which is serrated or otherwise roughened, as shown at W. The upper side of this brake-block fits against the keel of the skate, and the inner side of the upwardly-projecting flange is shaped to bear and fit against the inclined side of the skate, and the bolt is so inserted through the flange and into the perforation in the skate that it may be easily inserted and removed, while it will prevent any longitudinal play of the brake upon the skate. It will thus be seen that the skate may be secured to the boot or shoe by placing the boot upon the upper side of the skate, with the toe end of the sole projecting under the serrated flange of the toe-clamp, and the heel-clamp may now be so adjusted against the rear side of the heel that by tightening the nut upon the bolt the plate will bite into the heel with its flange, and thus secure the skate to the boot. The wearer of the skate may now move about upon the surface of the snow in the same manner as upon an ice-skate, while the much broader keel provided with the metallic strip will prevent the skate from cutting through the surface of the snow, the skate running upon the snow or ice covered surface like a sled, while the wearer is able to move about as upon skates.

When the wearer desires to climb a hill, the brakes may be placed upon the skates in a moment of time, and he may ascend the hill as easily as without the skates, or with greater ease, the brake affording a superior hold upon the snow and ice covered surface.

These skates may even be used upon a rather soft surface of snow, the sharp bows or

toe portions cutting through the snow, and the flat keels and tapering under sides of the skates preventing them from cutting very deeply through the snow, the skates in fact combining the advantages of a sled with the advantages of a skate.

The skates may be manufactured at a very low cost by turning them upon a lathe for turning irregular forms, and will be very durable, consisting of very few parts, which all are simple and strong of construction, and easily replaced in the case of an accident to any of them.

The bells, although not essential to the operation of the skates, will render their use attractive, and will by their sound not only warn other persons of the approach of the skater or coaster, but will also add an attractive music or sound to their use, which, if not increasing the usefulness of the skate, will add to the attractiveness of the same.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. A coasting-skate having a boat-shaped body formed with a flat keel portion, as an improved article of manufacture.

2. In a coasting-skate, the combination of a boat-shaped body formed with a flat metal-covered keel portion, a rigid toe-clamp having an inwardly-bent serrated flange, and a heel-clamp having an inwardly-bent flange and means for adjusting it longitudinally, as and for the purpose shown and set forth.

3. In a coasting-skate, the combination of a boat-shaped body formed with a flat metal-covered keel portion, a rigid toe-clamp having an inwardly-bent serrated flange, a heel-clamp having an inwardly-bent serrated flange, and having a longitudinal slot in its base portion, and a screw-bolt having a square shank fitting in the slot of the clamp and passing through a perforation in the heel of the skate, and provided with a nut bearing against the under side of the heel portion of the skate, as and for the purpose shown and set forth.

4. In a coasting-skate, the combination of a boat-shaped body, formed with a flat keel portion and an upwardly-turned tapering bow, with a metallic strip secured to the keel by means of screws, and at its tapering forward end by means of a staple driven into the upturned tapering bow, as and for the purpose shown and set forth.

5. In a coasting-skate, the combination of a boat-shaped body formed with a flat metal-covered keel and with a cut-away portion upon the under side of its heel portion, a rigid toe-clamp having an inwardly-projecting flange, a heel-clamp having an inwardly-bent flange and a longitudinally-slotted base-plate, and a nutted bolt having its square shank fitting in the slot of the heel-clamp and passing through a perforation in the heel portion of the skate, and having its nut bearing against the cut-away portion of the heel portion of the skate, as and for the purpose shown and set forth.

6. In a coasting-skate, the combination of a boat-shaped body formed with a flat metal-covered keel portion and having transverse perforations near the keel, a brake consisting of a flat block having its under side roughened, and an upwardly-projecting flange having its inner side inclined, and a bolt fitting into a perforation in the flange of the brake and in the aperture in the skate, as and for the purpose shown and set forth.

7. In a coasting-skate, the combination of a boat-shaped body formed with a flat metal-covered keel, and with the forward portion of its upper side concave to fit the sole and the heel end of the upper side cut away to fit the heel of a boot or shoe, a rigid clamp at the toe of the skate, and an adjustable clamp at the heel end of the skate, as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

EDWARD S. KINGSTON.

Witnesses:
CHARLES W. KNAPP,
GEORGE F. BAKER.