

(No Model.)

R. C. ABBOTT.

CONVERTIBLE ICE CREEPER AND SKATE.

No. 377,131.

Patented Jan. 31, 1888.

Fig. 1.

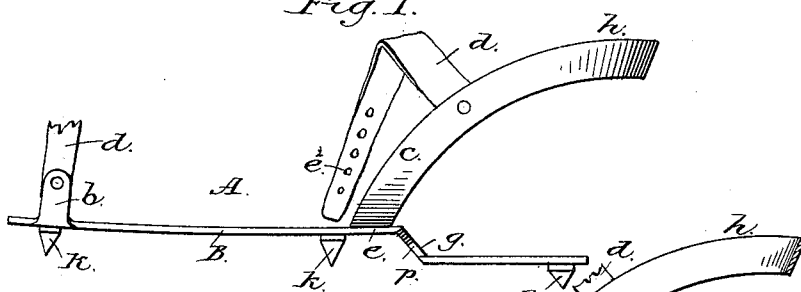


Fig. 2.

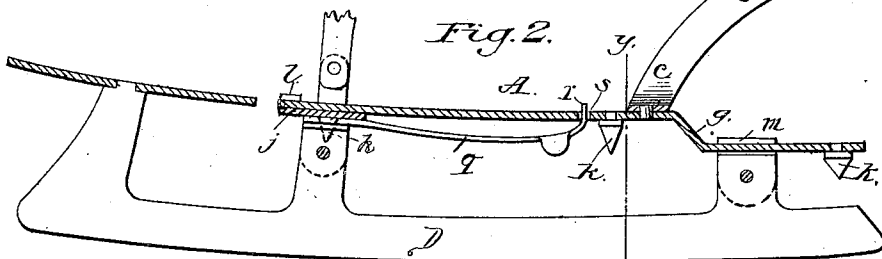


Fig. 3.

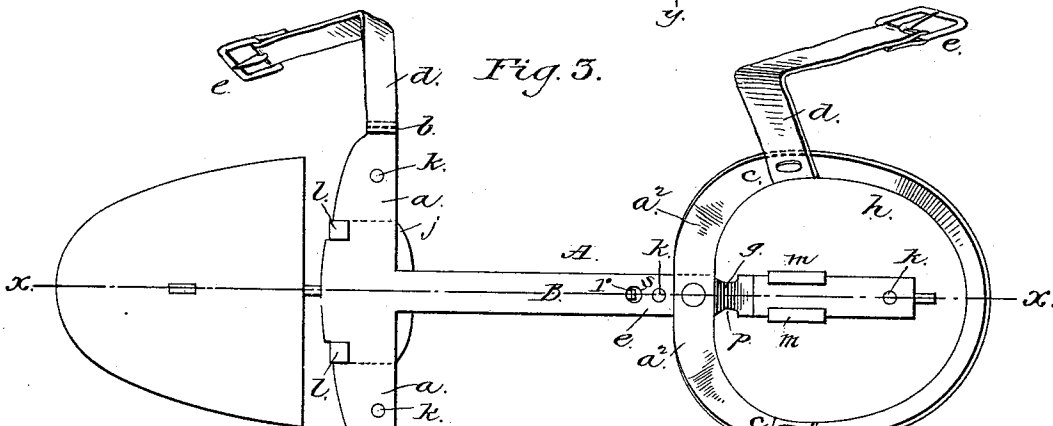
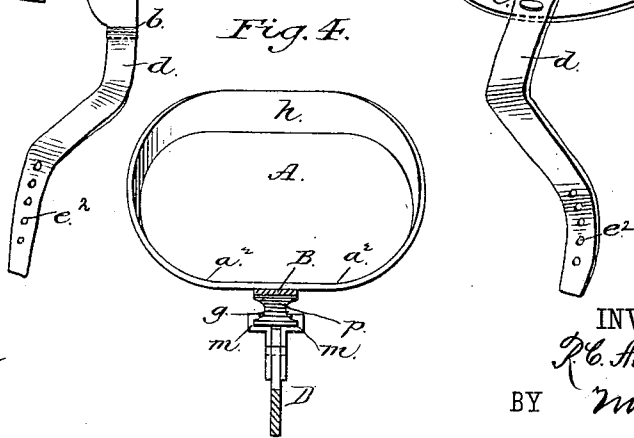


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

RICHARD CLARK ABBOTT, OF EAST BLUE HILL, MAINE.

CONVERTIBLE ICE-CREEPER AND SKATE.

SPECIFICATION forming part of Letters Patent No. 377,131, dated January 31, 1888.

Application filed September 13, 1887. Serial No. 249,572. (No model.)

To all whom it may concern:

Be it known that I, RICHARD CLARK ABBOTT, of East Blue Hill, in the county of Hancock and State of Maine, have invented a new and Improved Interchangeable Ice-Creeper and Skate, of which the following is a full, clear, and exact description.

This invention pertains to certain improvements in combined ice-creeper and skates; and it consists in the convertibility of the same, substantially as hereinafter more fully set forth, and pointed out in the claims.

Figure 1 is a side view of the ice-creeper. Fig. 2 is a central longitudinal vertical section through the ice-creeper and the attached skate. Fig. 3 is a plan view of same; and Fig. 4 is a cross-section on line *y y*, Fig. 2.

In the drawings similar letters of reference indicate corresponding parts in all the views, in which—

A represents the ice-creeper, shown as consisting of the sole-bearing strip or plate B, having lateral extensions *a a'*, with upward projections *b b* and *c c*, each provided with straps *d*, having buckles *e* and eyes *e'*, for attachment of the creeper to the shoe, &c. The sole-bearing rib or plate has a downward offset, as at *g*, for the better rest of the treading-face of the heel, its side and upward projections *a'* *c* being located in advance of said offset in a position under the instep or shank, and the upward projections *c* are continued upwardly and to the rear as one band, *h*, to embrace the heel at a considerable distance above the treading-face, and thereby to form a rest for the shoe upon the creeper. Spurs *k* are disposed upon the lower surface of the creeper in any suitable number and arrangement, and, as shown, are provided under the side projections *a*, the heel portion *g*, and at the shank.

D represents a skate-blade adapted to be engaged with the creeper by being provided with horizontal lateral extensions *j*, arranged to lie under and against the extensions *a* of creeper, and having ear-pieces *l* on the forward edge that project upwardly and over the forward edge of the extensions *a*, preventing forward and upward movement of the creeper on the skate; also, by being provided with upwardly and inwardly extending ear-pieces *m*, arranged

at its heel portion and adapted to overlap the edges and top of the sole-bearing strip B, insertion of said strip within said ear-pieces being facilitated by the narrowing of the offset portion *g*, as at *p*; and also by the employment of the spring-plate *q* on the skate-blade, arranged to lie under the strip B, and at its free end provided with the upwardly-extending stud *r* to enter a hole, *s*, in the plate of creeper, so located as to be opposite said stud when the skate and creeper are attached, the stud serving to prevent any longitudinal movement of the creeper on the skate, or vice versa, unless it is pressed downwardly to free it from engagement with the hole *s*.

The creeper may be provided with clamps at heel and sole to enable it to be secured to the shoe, &c., in lieu of strap and buckles, as shown, and in either case is perfectly adapted for attachment to boots, shoes, or rubbers, does not, when attached, cramp the foot, the metal projections *a b*, sole-bearing, and rigid heel-rest *h* precluding any such results, and a skate may be applied to the foot without removing the creeper, all of which is found particularly advantageous for use by ice-harvesters.

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

1. The combined ice-creeper and skate, consisting of a sole and heel bearing plate and a skate-runner, which are convertible to form either a skate or ice-creeper, substantially as set forth.

2. The herein-described interchangeable ice-creeper and skate, comprising the sole-bearing plate having spurs on its under side, and provided with means for securing it to the foot, and a skate-blade provided with means for its attachment to said sole-bearing plate, substantially as described.

3. An interchangeable ice-creeper and skate, comprising the sole and heel bearing plate B, provided with an aperture, *s*, and spurs on its under side, and with means for its attachment to the foot, and a skate-blade provided with upwardly and inwardly extending ear-pieces, and a spring-bar having a stud, *r*, suitably located and adapted to engage with and be dis-

engaged from said apertured sole and heel bearing plate, substantially as and for the purpose described.

4. An interchangeable ice-creeper and skate,
5 comprising the sole-bearing plate having spurs on its under side and the downwardly-offset heel-bearing portion *g*, narrowed, as at *p*, and provided with means for its attachment to the shoe, and a skate-blade provided with upwardly and inwardly extending ear-pieces suitably located and adapted to engage said sole and heel bearing plate, substantially as and for the purpose described.

5. An interchangeable ice-creeper and skate,
15 comprising the sole-bearing plate B, having

spurs on its under side and provided with the aperture *s*, and having the downwardly-offset heel-bearing portion *g*, narrowed, as at *p*, the side projections, *b*, and heel-embracing rest *h*, and provided with means for attachment to the foot, and a skate-blade provided with upwardly and inwardly projecting ear-pieces *l m*, and a spring-bar, with stud *r*, suitably located and adapted to engage with and disengage from said apertured sole and heel bearing plate B, substantially as and for the purposes described.

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Witnesses:

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