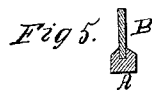
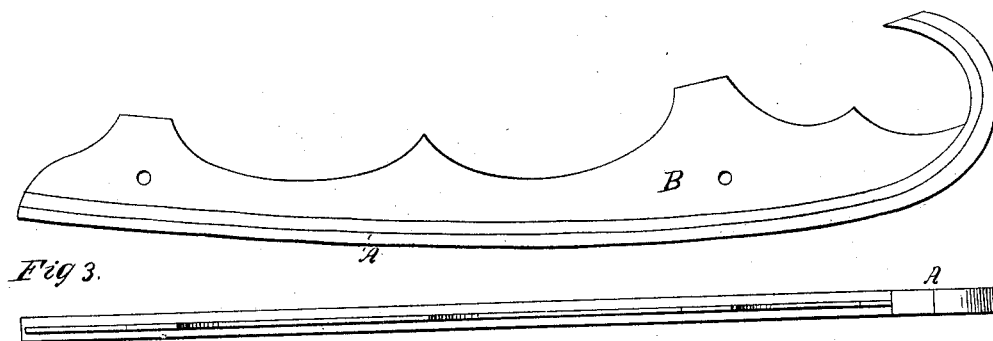
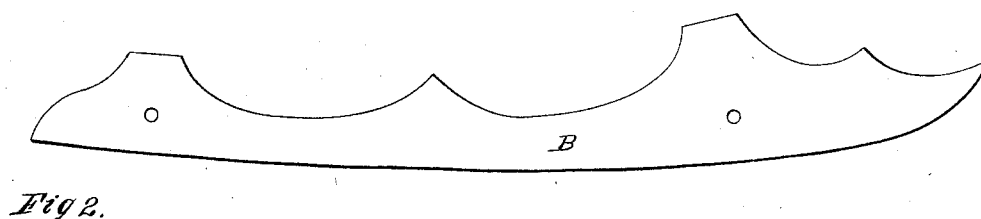
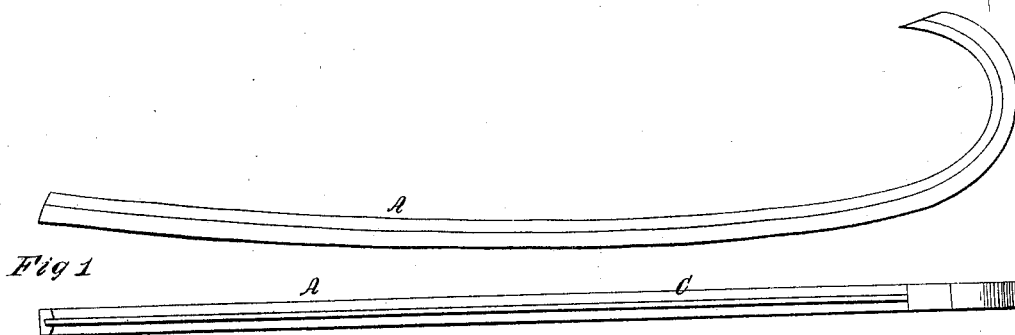


F. E. Drake,

Skate,

Nº 51,155.

Patented Nov. 28, 1865.



Witnesses.

J. L. Peyton
S. S. Fahnstock

Inventor.

F. E. Drake
by his atty
Baldwin & Son

UNITED STATES PATENT OFFICE.

FRANCIS E. DRAKE, OF CHICOPEE, MASSACHUSETTS.

IMPROVEMENT IN SKATES.

Specification forming part of Letters Patent No. **51,155**, dated November 28, 1865.

To all whom it may concern:

Be it known that I, FRANCIS E. DRAKE, of Chicopee, in the county of Hampden and State of Massachusetts, have invented a new and useful Improvement in Skates; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a side elevation and plan view of the runner; Fig. 2, a side elevation and edge view of the web. Fig. 3 is a side elevation and plan view of the runner and web united, and Figs. 4 and 5 are cross-sections, the former of the runner alone and the latter runner and web united.

It is the object of my invention to make the skate light, strong, durable, and neat; and to this end my invention consists in forming a groove in the runner to receive and hold securely a metallic web, upon which to fasten firmly the support for the foot; and my invention is capable of being applied to skates of any design or form.

To apply my invention to skates of any form, I groove the runner A, as at C, centrally from the heel to that point of the toe where the web is to terminate, the groove C being truly formed on the bottom and sides, so that when the web is fitted in place and fastened the runner and

web will come together with a close joint. I then form the web B of any suitable stiff metal, so that it shall extend the whole length of the groove C in the runner and fit the groove nicely in every part, while the top of the web may receive any waved line for ornament; but care must be taken to leave proper supporting points at the heel, ball of the foot, and toe, for the foot-piece, whether this be of wood or metal.

The web B and runner A being thus prepared, are united by inserting the web in the groove C of the runner and fastening them firmly together by solder, shrinking, or otherwise. The runner and web thus united may be finished in any way desired, and will be found light, strong, durable, and neat to a degree not hitherto attained in skates.

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

Inserting a web in a groove in the runner of a skate and fastening them firmly together, substantially in the manner and for the purpose described.

In testimony whereof I have hereunto subscribed my name.

F. E. DRAKE.

Witnesses:

G. H. KNAPP,
GEO. M. STEARNS.