

No. 703,232.

Patented June 24, 1902.

F. E. BROWN.

ICE SKATE.

(Application filed Mar. 17, 1902.)

(No Model.)

Fig. 1.

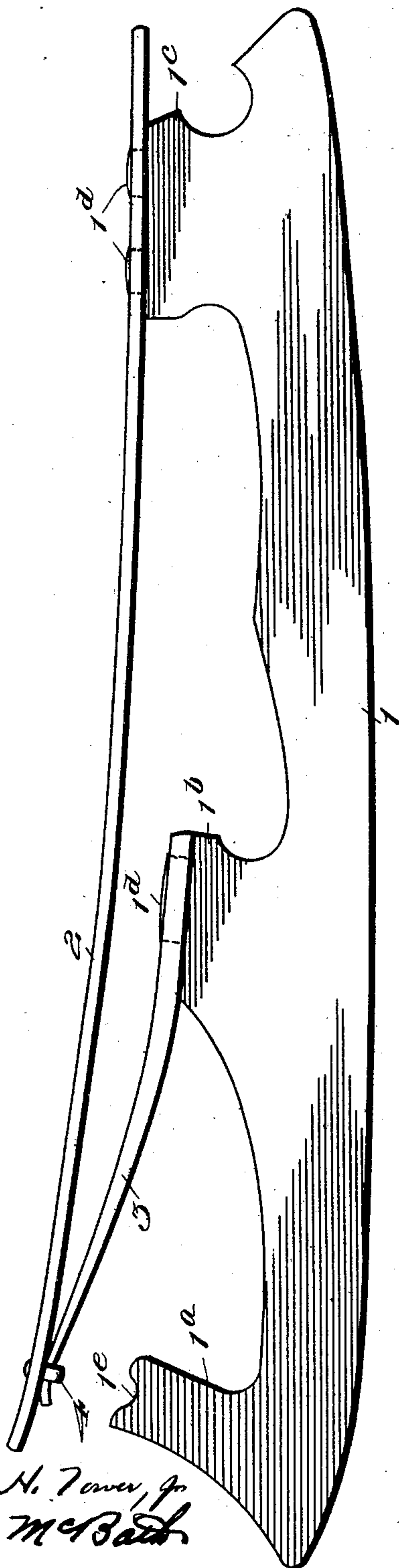
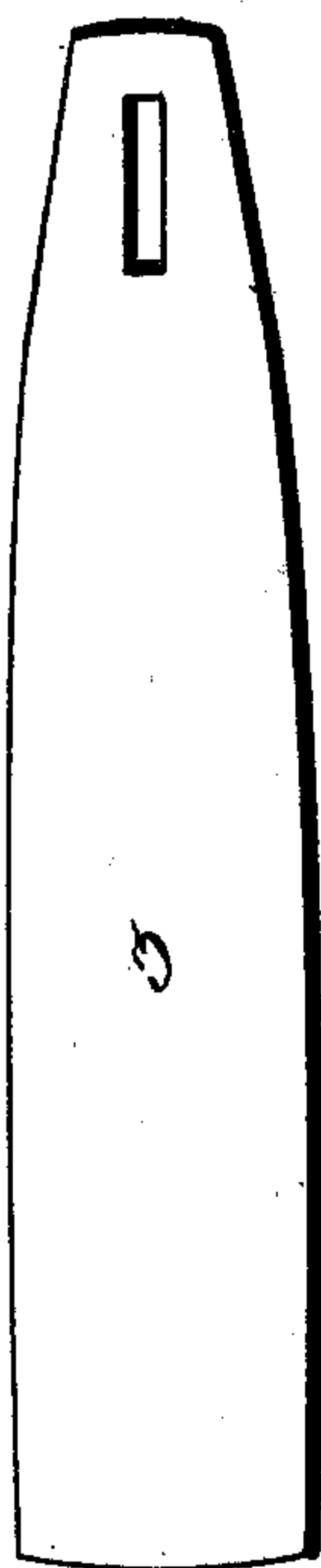


Fig. 2.



Witnesses

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# UNITED STATES PATENT OFFICE.

FRANK E. BROWN, OF ANAMOSA, IOWA.

## ICE-SKATE.

SPECIFICATION forming part of Letters Patent No. 703,232, dated June 24, 1902.

Application filed March 17, 1902. Serial No. 98,566. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK E. BROWN, a citizen of the United States, residing at Anamosa, in the county of Jones and State of Iowa, have invented certain new and useful Improvements in Ice-Skates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-  
10 pertains to make and use the same.

My invention relates to improvements in ice-skates, and particularly to that class thereof having yielding foot-plates.

It has for its object to simplify and improve  
15 the construction of devices of this character.

Broadly my invention consists of a runner having a foot-plate secured thereto at the heel and a flat spring fixed at one end to said runner and having its opposite or free end bearing  
20 against the under side of the toe of said foot-plate.

In the accompanying drawings, illustrating the preferred embodiment of my invention, Figure 1 is a side view of my skate, and Fig.  
25 2 is a plan view of the spring.

In carrying out my invention I provide a runner 1, having upward extensions 1<sup>a</sup> 1<sup>b</sup> 1<sup>c</sup>, arranged at the toe, central portion, and heel thereof. The upward extensions at the heel  
30 and central portion are provided with lugs 1<sup>d</sup>, and the extension at the toe has preferably a recess 1<sup>e</sup>. A foot-plate 2, having any desired means for securing it to the shoe of the user, is secured to the upward extension  
35 at the heel of the runner, preferably by riveting the lugs 1<sup>d</sup> thereto. The toe of the foot-plate normally stands above the runner and out of contact therewith.

A flat spring 3 is secured to the upward ex-

tension 1<sup>b</sup> at the central portion of the runner, preferably by being riveted thereto over the lug. The forward free end of the spring bears against the toe of the foot-plate and is adapted to slide within a keeper 4, which is adapted to rest within the recess 1<sup>e</sup> in the up-  
45 ward extension at the toe of the runner to steady the foot-plate and limit the movement thereof to prevent it from breaking or being sprung out of shape.

While I have described the flat spring as  
50 riveted to the runner, it is obvious that other means may be employed, such as screws, bolts, &c.

I do not wish to limit myself to the details of construction herein shown and described,  
55 as I am fully aware that changes may be made therein without in any way departing from the spirit of my invention and the same remain intact and be protected.

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

An ice-skate comprising a runner, a foot-plate secured to said runner at the heel and adapted to spring therefrom, a keeper secured  
65 to the toe of said foot-plate, a flat spring secured to said runner and adapted to slide within said keeper, and a stop upon said runner having a recess in its upper face adapted to receive said keeper to steady the foot-  
70 plate, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK E. BROWN.

Witnesses:

S. C. MONGER,  
W. E. BROWN.