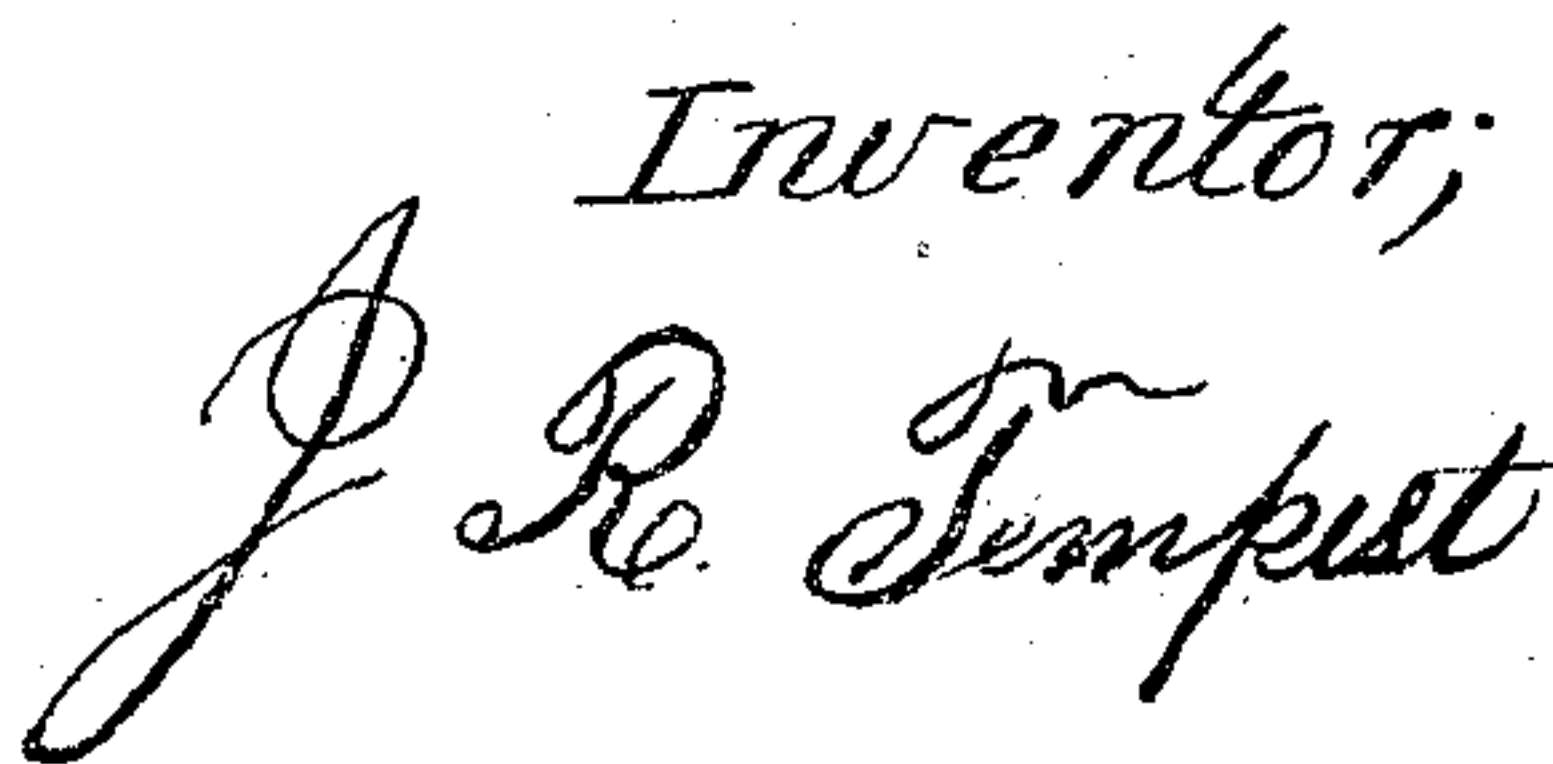


Patented Feb. 13, 1866.



UNITED STATES PATENT OFFICE.

J. R. TEMPEST, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVED SKATE.

Specification forming part of Letters Patent No. 52,624, dated February 13, 1866.

To all whom it may concern:

Be it known that I, J. R. TEMPEST, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Fastenings for Skates; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a vertical longitudinal section on the dotted line *w x* of Fig. 2; Fig. 2, a plan view of the foot side of the same; and Fig. 3, a vertical transverse section on the dotted line *y z* of Fig. 2, like letters of reference indicating the same parts when in the different figures.

The nature of my invention consists, substantially as hereinafter described and specified, in the employment of transversely-sliding bolts between the heel and sole of a boot or shoe and metallic plates slotted and fixed to the said heel and sole, respectively, so as to receive through them suitable staples fixed in the sole-plate of the skate in such a manner that the said sliding bolts can be readily inserted so as to hold the skate tightly on the bottom of the boot or shoe and be readily withdrawn to release it, as occasion may require, thus dispensing with all the straps heretofore required over the foot, and increasing the facilities for either attaching or detaching the skate.

In the drawings, A is the sole-plate of the skate; B B', the slotted plates; C C', the sliding bolts; D D', the staples for the bolts, and E E' extra soles or packing fixed to the plates B B', so as to come between them and the sole and heel of a boot or shoe, the latter being indicated in the drawings by the faint lines in Figs. 1 and 3.

Projecting from the upper side of the sole-plate A, two staples, D D, are fixed near the heel end, and two, D' D', near the toe end.

The plates B B' are made to correspond, respectively, with the heel and the forward part of the sole of the boot or shoe, is about a sixteenth of an inch thick, and slotted so as to ad-

mit through them the projecting portions of the staples D D and D' D', and allow the bolts C C' to be afterward pushed into them, (see Fig. 2,) so as to bind the said plates and the sole-plate A of the skate tightly together. The plates B B' are intended to be permanently fastened by means of screws *b² b²* to the heel and sole, respectively, of the boot or shoe; and in order to afford sufficient room for the tops of the staples D D' without cutting into the sole or heel of the boot or shoe, thin extra soles of leather, cork, or other poor conductor of heat, E E', are attached on each side of the slots of the plates, so that they shall come between the said plates B B' and the bottom of the boot or shoe when the former are attached to the latter. (See Figs. 1 and 3.)

The bolts C C' are simply flat pieces of iron or steel bent up at one end for handling, and made of proper width to fit the staples and of sufficient thickness and taper to force the sole-plate A tightly against the plates B B' when the said bolts are pushed firmly into place, as seen in the drawings.

A spring, *c²*, or a set-screw, may be attached to each of the bolts to keep them from working out in use, if required. This is a very simple, cheap, and reliable fastening for skates, and enables the skater to either attach or detach the skates with the greatest facility and ease; and, moreover, it not only dispenses altogether with straps which check the circulation of the blood in the feet, but the intervening packing, E, serves to retard the passage of heat from the foot to the skate.

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

The employment of the sliding bolts C C', in combination with the staples D D D' D' in the sole-plate A of the skate, and with the slotted plates B B', fixed to the bottom of a boot or shoe, the said parts being arranged to operate together as and for the purposes described.

J. R. TEMPEST.

Witnesses:

BENJ. MORISON,
JAS. WINSMORE, Jr.