

No. 686,812.

Patented Nov. 19, 1901.

A. KISS, JR.
SKATE.

(Application filed June 10, 1901.)

(No Model.)

Fig.1.

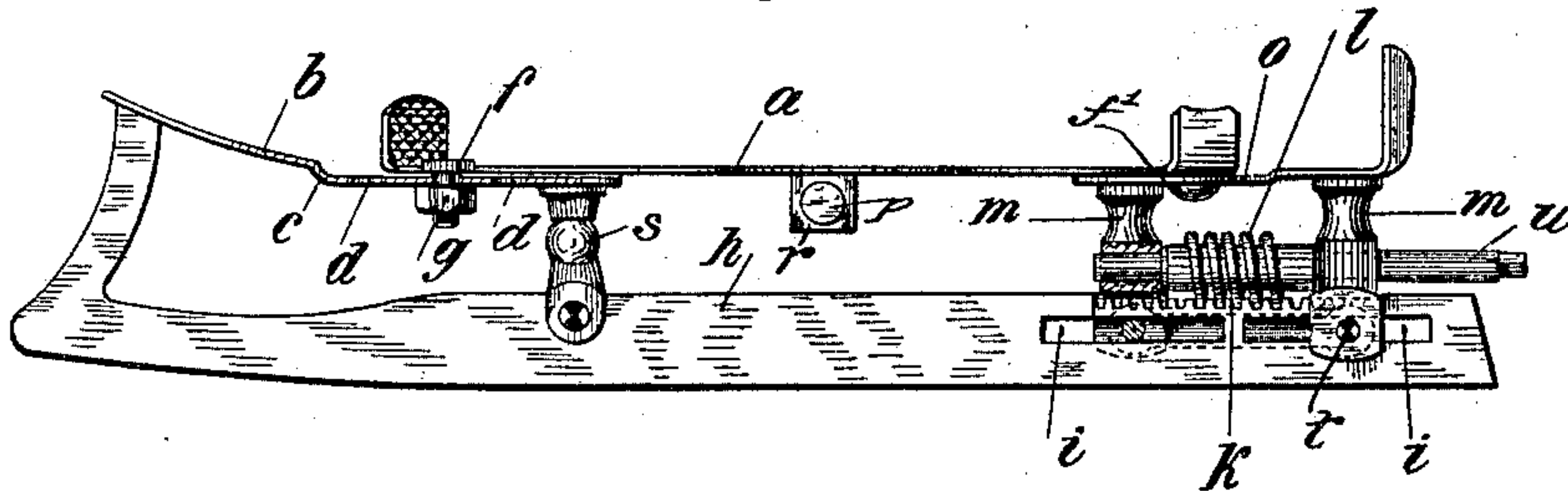


Fig. 2.

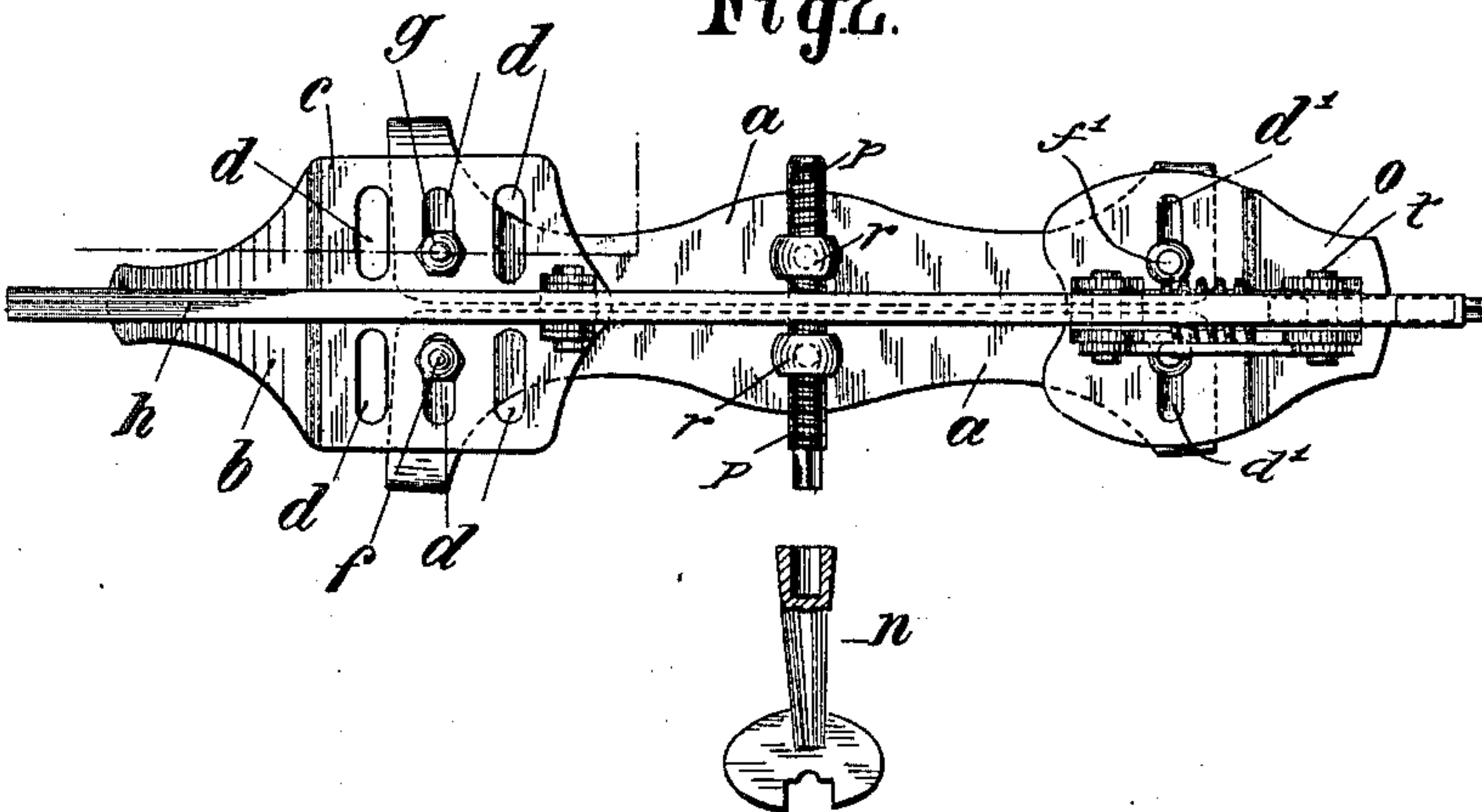
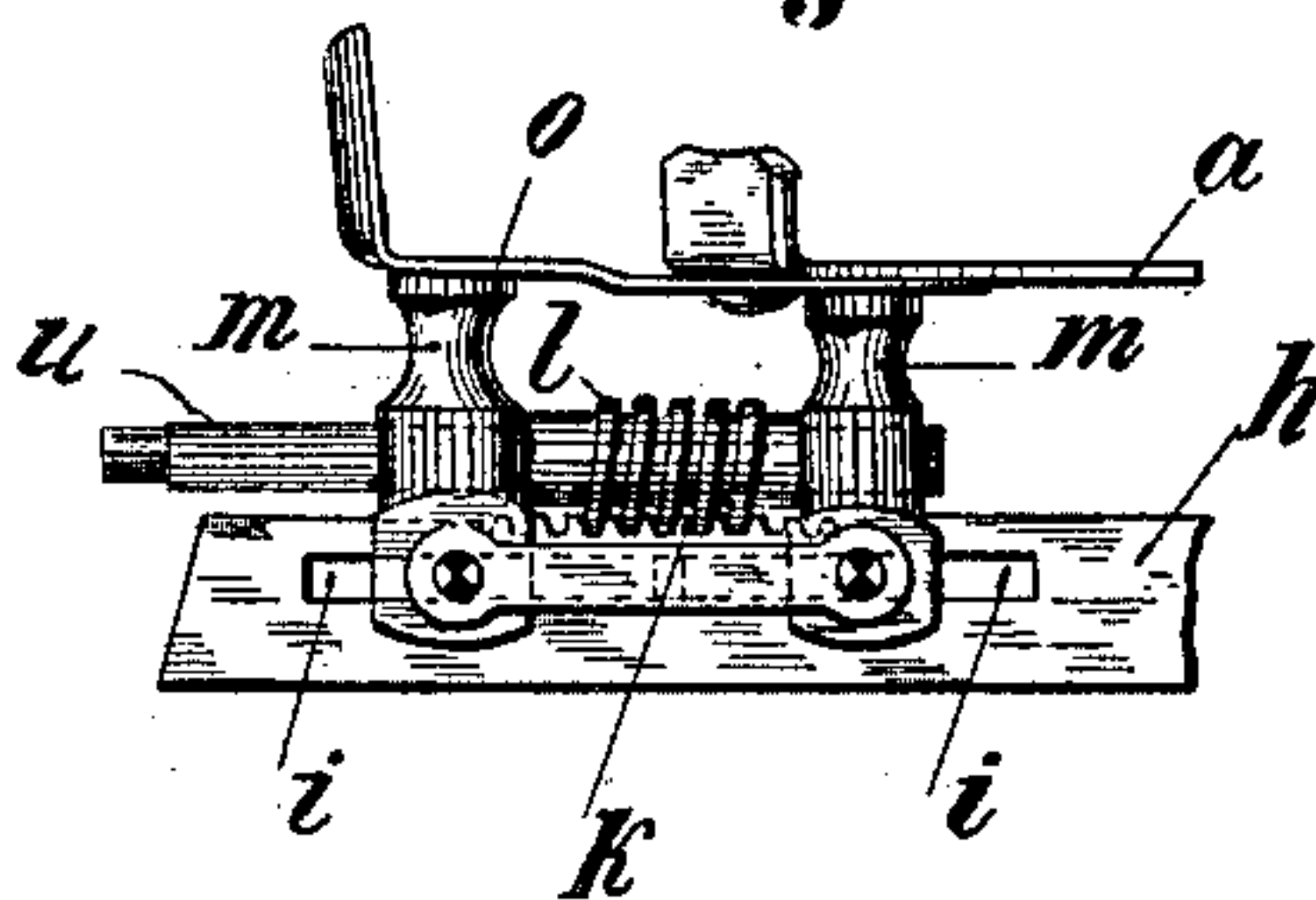


Fig.3.



Witnesses:

Wm Noble
Jacob Keller

Inventor.

Anton Kiss Junior
by P. Singer.
Att'y.

UNITED STATES PATENT OFFICE.

ANTON KISS, JR., OF KALOCSA, AUSTRIA-HUNGARY.

SKATE.

SPECIFICATION forming part of Letters Patent No. 686,812, dated November 19, 1901.

Application filed June 10, 1901. Serial No. 63,912. (No model.)

To all whom it may concern:

Be it known that I, ANTON KISS, Jr., merchant, residing at Föuteza 255, Kalocsa, Austria-Hungary, have invented a new and useful
5 Improvement in or Relating to Skates, of which the following is a specification.

The present invention relates to a skate which is so constructed that it may be readily adjusted to several sizes of boots or shoes, this
10 adjustment being effected according to the present invention by moving the blade with the toe-plate to or from the heel-plate by means of a screw device.

In the accompanying drawings, Figure 1 is
15 a side view of the skate, partly in section. Fig. 2 is a bottom plan view of the skate and a side view, partly in section, of the key for adjusting the same; and Fig. 3 is a detail side
20 view of the rear end of the skate, showing the screw for adjusting the skate to various lengths.

The sole of the skate consists of the central grip-plates *a*, which are laterally adjustable, the toe-plate *b*, which is rigidly secured to the
25 forward end of the runner or blade *h*, and the heel-plate *o*, which is adjustable longitudinally of the blade. The part *c* of the toe-plate is made wider than the forward end of said plate, as shown, and is formed with a series
30 of laterally-extending slots *d* on each side of the blade, the slots on each side of the blade being arranged one in front of the other. A pair of laterally-extending slots *d'* are also
35 arranged on opposite sides of the plate. These slots form guideways for studs which are secured to the grip-plates. As shown, studs or guide-pins *f* extend through the centrally-located slots in the plate *c* and are provided
40 with nuts *g*, by which the plates may be secured. Similarly studs or guide-pins *f'*, secured to the grip-plates, extend through the slots *d'* in the heel-plate. The movement of the grip-plates *a* from and toward each other
45 is effected by means of a right and left hand screw *p*, which fits into threaded openings in projections *r*, secured to the under sides of the plates. The toe-plate *b* is supported at its inner end by a post *s*, which is rigidly se-
50 cured to said toe-plate and to the blade of the skate. The heel-plate *o* is also supported by two posts *m*, the lower ends of which are ver-

tically slotted, as shown, and fit over the upper side of the blade, while their upper ends are rigidly secured to the heel-plate. Longi- 55 tudinal guide-slots *i* are formed in the rear end of the blade, and guide-pins *t* extend through the forked ends of the posts *m* and through said slots, as shown. The upper edge of the blade *h* is formed with a rack *k*, which 60 is engaged by a screw *l* upon a spindle *u*, which is journaled in the posts *m*. The spindle *u* is provided with a squared end, by which it may be turned with a key *n*. The right and left hand screw *p* may also be operated by 65 means of said key.

To adjust the length of the skate, the nuts *g* are removed and the guide pins or studs *f* of the grip-plates *a* are withdrawn from the slots *d*. The worm *l* is then turned by means 70 of the key, and the blade *h* and the connected toe-plate *b* are thereby moved forward or backward relatively to the grip-plates and the heel-plate, according to the direction in which the screw is turned. When the studs *f* are 75 brought opposite the desired slots *d* in the toe-plate, the latter is again secured to the grip-plates by inserting the studs through the slot and replacing the nuts *g*. By operating the right and left hand screw *p* the grip-plates 80 may be drawn toward each other to grip the sole of the boot or shoe.

Having described my invention, what I claim, and desire to secure by Letters Patent, is— 85

1. In a skate adjustable for shoes of different lengths, the combination with a blade and a toe-plate connected thereto, said blade having a rack upon its upper edge and guide-slots near its rear end, of a heel-plate and supports 90 therefor, said heel-plate and supports being adjustable bodily along the blade and said supports having guide-pins extending through the slots, and a screw journaled in said supports and engaging the rack on the blade. 95

2. A skate comprising a toe-plate, having a plurality of laterally-extending slots arranged at different distances from the front of the skate, a blade to which said plate is rigidly secured, a heel-plate adjustable longitudinally 100 of the blade and having laterally-extending slots therein, and a pair of central grip-plates having studs at their opposite ends adapted to fit into the slots in the heel and toe plates.

3. A skate comprising a toe-plate having a plurality of laterally-extending slots arranged at different distances from the front of the skate, a blade to which said plate is rigidly secured, said blade having a rack upon its upper edge, a heel-plate adjustably supported on the rear end of the blade and having laterally-extending slots therein, a pair of central grip-plates having studs at their opposite ends adapted to fit into the slots in the heel and toe plates, and a screw connected with said heel-plate and engaging the rack on the blade.

4. A skate comprising a blade having a toe-plate rigidly connected therewith, said blade having a rack upon its upper edge and said toe-plate having a plurality of laterally-extending guide-slots, a heel-plate, also having laterally-extending guide-slots, supports connected to said heel-plate and resting upon said blade, an adjusting-screw journaled in said supports and engaging the rack, and a pair of central grip-plates, having guide-pins at their

opposite ends fitting into the slots in the toe and heel plates.

5. A skate comprising a blade having a toe-plate rigidly connected therewith, said blade having longitudinal guide-slots near its rear end and a rack upon its upper edge and said toe-plate having a plurality of laterally-extending guide-slots, a heel-plate also having laterally-extending guide-slots, supports connected to said heel-plate and having forked ends resting upon the blade, guide-pins upon said forked ends extending through the guide-slots in the blade, an adjusting-screw journaled in said supports and engaging the rack, and a pair of central grip-plates having guide-pins at their opposite ends fitting into the slots in the toe and heel plates.

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

ANTON KISS, JUNIOR.

Witnesses:

JOSEF WIEKMANN,
ÖDÖN MOLNÁR.