

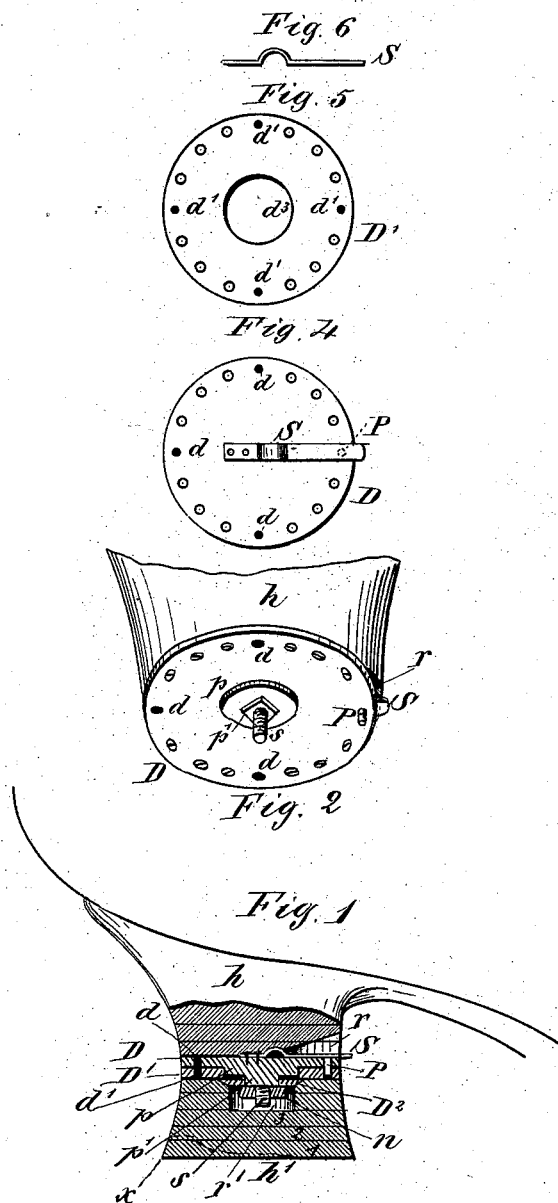
(No Model.)

A. H. CHRISTENSEN & G. LUND.

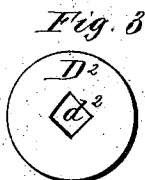
HEEL FOR BOOTS OR SHOES.

No. 261,428.

Patented July 18, 1882.



Witnesses
Wm. C. McAlister
John B. Fulton



Inventors
Albert H. Christensen
Gustav Lund
per Myer Orth atty.

UNITED STATES PATENT OFFICE.

ALBERT H. CHRISTENSEN AND GUSTAV LUND, OF CRÖS-KJOBING,
DENMARK.

HEEL FOR BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 261,428, dated July 18, 1882.

Application filed May 25, 1882. (No model.) Patented in Denmark June 12, 1881.

To all whom it may concern:

Be it known that we, ALBERT HANSEN CHRISTENSEN and GUSTAV LUND, subjects of the King of Denmark, residing at Crös-Kjobing, in the Kingdom of Denmark, have invented certain new and useful Improvements in Heels for Boots or Shoes; and we 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

The object of our invention is to provide means whereby the heel of a boot or shoe may be rotated for adjustment in case of wear at one point of its tread more than at another, and to hold it firmly in position when so adjusted.

The invention consists in a novel construction of heel and in combination therewith of appliances whereby the object above set forth is attained, as hereinafter more fully described, pointed out in the claims, and shown in the accompanying drawings, in which—

Figure 1 is a vertical transverse section of so much of a heel of a boot or shoe as will be necessary to illustrate our invention; and Figs. 2, 3, 4, 5, and 6 are detail views thereof.

Like letters of reference indicate like parts wherever such may occur in the above figures of drawings.

In practice we preferably construct the heel in two sections, the section *h* being rigidly connected with the boot or shoe, and the section *h'* being rotatably secured to the section *h*. This latter section has a metallic face-plate provided with four holes, *d*, equidistant from each other, (for a purpose presently explained,) besides the holes for the reception and passage of the screws, by means of which it is attached to the heel-section. This disk has an annular central projection, *p*, a smaller square projection, *p'*, and a central screw stud or shank, *s*, on its lower face, and a spring, *S*, on its upper face, which spring carries a downwardly-projecting locking stud or pin, *P*, of sufficient

length to pass through one of the holes *d* of the disk and project into a corresponding hole in the face-plate or disk of the movable heel-section *h'*. In order to admit of the spring being raised, the heel-section *h* is provided with a suitable notch or recess, *r*, in its front face. The heel-section *h'* also has a face-plate or disk, *D'*, provided with an annular central opening, *d'*, for the reception of the projection *p* of disk *D*, said projection serving as a pivot upon which the disk *D'* and the heel-section *h'*, attached thereto, may be rotated. As above stated, the disk *D'* of section *h'* has four holes, *d'*, (besides the holes for the screws or other securing devices whereby said disk is attached to the heel-section *h'*,) corresponding in number and location with the holes *d* in disk *D*, and into which holes the locking-pin *P* of the spring *S* projects to lock the section *h'* against rotation upon section *h*. The two sections of the heel are rotatably secured together in the following manner: The heel-section *h'* has a central recess, and over said recess, below the disk *D'*, is a disk or retaining-plate, *D²*, that has a square central opening, *d²*, that fits over the square projection *p'* around the screw-shank *s*, which, when the sections are united, passes through said plate and receives the nut *n*, which holds the two sections firmly together, said nut being applied before the lower pieces of leather, 1 2 3, of the heel-section *h'* are secured to those to which the face-plate *D* is attached.

The operation of the device is as follows, assuming the parts to be in the position shown in Fig. 1: Should the heel wear more at a point, *x*, for instance, than elsewhere, it will only be necessary to raise the end of the spring *S* to disengage the locking-pin *P* from the disk *D'*, so that the heel-section *h'* may be rotated one-fourth or more. When brought to the desired position the spring *S* is released and the locking-pin *P* will pass through one of the holes *d* of the disk *D*, and project into a corresponding hole, *d'* of the heel-section *h'*, and lock the latter section against further rotation, as clearly shown in Fig. 1. In this manner, the section *h'* of the heel may be locked into four different positions. Of course it will be under-

stood that the two disks may be provided with a greater or less number of such holes for the purposes stated.

Having now described our invention, what we claim is—

1. In a sectional heel, the combination of the section *h*, its disk *D*, provided with holes *d*, and the spring *S*, carrying the locking-pin *P*, with the section *h'* and its disk *D'*, provided with holes *d'*, substantially as and for the purposes specified.

2. The combination, with the section *h* of the heel, and its disk *D*, provided with a projection, *p*, of the section *h'*, and its disk *D'*, having a central aperture, *d*³, adapted to fit around said

projection *p* to form a pivot for the disk *D'*, substantially as and for the purposes specified.

3. The combination of the section *h*, its disk *D*, having square projections *p'*, and a screw-shank, *s*, of the disk or locking-plate *D*², having a square opening, *d*², adapted to fit over said square projection, and the nut *n*, substantially as and for the purposes specified.

In testimony whereof we affix our signatures in presence of two witnesses.

ALBERT HANSEN CHRISTENSEN.
GUSTAV LUND.

Witnesses:

A. P. GAAREN,
M. P. BIRKHOLM.