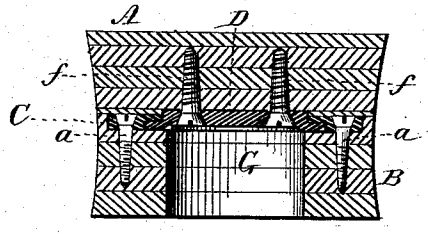
(No Model.)

J. F. WYNNE.

Swivel Heel for Boots and Shoes.

No. 237,356. **Patented Feb. 1, 1881.**

Fig. 1.



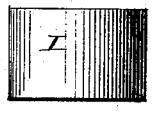


Fig. 4.

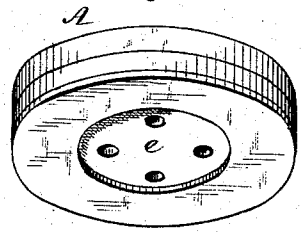


Fig. 5.

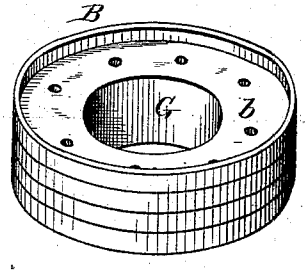
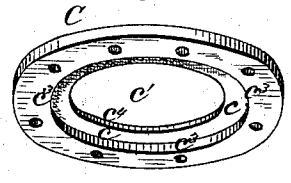


Fig. 2.



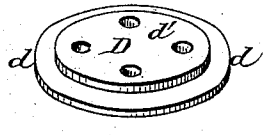
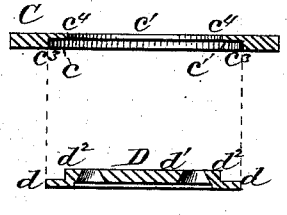


Fig. 3.



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F. Lloyd Norris

John F. Wynne
Inventor,
by Johnson and Johnson
Attys

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UNITED STATES PATENT OFFICE.

JOHN F. WYNNE, OF ST. LOUIS, MISSOURI.

SWIVEL-HEEL FOR BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 237,356, dated February 1, 1881.

Application filed October 4, 1880. (No model.)

To all whom it may concern:

Be it known that I, JOHN FRANCIS WYNNE, a citizen of the United States, residing at St. Louis, in the county of St. Louis and State of Missouri, have invented new and useful Improvements in Swivel-Heels for Boots and Shoes, of which the following is a specification.

The object of my invention is to prevent boots or shoes from careening or wearing off at one side faster than at the other, or from running down at the heel. I am aware that this is the common object of various inventions in the class of boot-heels; but in the means which I use to carry out my object I have departed from the general attempts in this direction, in that I dispense with the objectionable single pivot-screw, which has hitherto been the securing element in boot-heels of this class, as shown by the state of the art. In dispensing with this objectionable feature I have invented the device hereinafter described and claimed.

In the accompanying drawings, Figure 1 represents a vertical section taken through a swivel boot-heel embracing my invention, and Fig. 2 detached views of the annulus and disk constituting my invention when used in their relations to the fixed and movable parts of the heel, as shown and hereinafter described; Fig. 3, sections of the same; Fig. 4, the fixed section, and Fig. 5 the adjustable section, of the heel.

The heel is in two sections, A and B, the former being of solid lifts and fixed to the shoe, and the latter of annular united lifts, and capable of being turned or swiveled at the pleasure of the wearer, to attain the object of my invention, by means of the following devices and their combination with each other and with the two parts of the heel, as follows, viz: A metallic annulus, C, is fastened by a circle of screws, *a a a*, in the countersunk upper face, *b*, of the revoluble section of annular lifts B, and is formed with an under annular recess, *c*, around its central opening, *c'*, so as to form the downward shoulder c^3 on its under face, which recess and shoulder receives the flange *d* of a fixed disk, D, having a raised central part, *d'*, fitting the opening *c'* of the annulus, and fastened by screws *f* in a countersink, *e*, of the bottom face of the fixed section A, whereby the two sections are joined by a flush bearing, and one made capable of revolution on the other without the intervention of a fixed pivot-screw, which would always after wear, be liable to produce sagging and looseness of joint.

The parts are put together in the following manner: The annulus C is placed upon the countersunk face *b* of the movable section B and secured around the opening G formed by the annular lifts which compose it, and is secured by the screws *a*, the disk D being first placed within the shouldered recess *c* of said annulus C and secured by screws *f*, as above described, the screws *f* of the disk D being driven home through the opening or hollow G above described into the fixed section A, to secure the parts together. Thus, the shouldered disk D being fixed to the upper section and the shouldered annulus C to the lower or movable section, the relation is such that the lower section, with its fixed annulus, may be revolved upon two annular bearings in contact with the upper section with the fixed disk, all the while preserving the flush connection of the two sections in every part, and rendering it impossible that there should be any rocking or lateral looseness, as the bearing is distributed around the joining of the annulus and disk. The disk D, by means of the screws *f*, serves also to clamp the lower section, B, to the upper section, so that the two sections, when adjusted, are fixed together, while the disk D has a double annular bearing within the recessed face of the annulus, one, c^3, corresponding with *d*, and one, c^4, corresponding with d^2, as shown in Fig. 3, and when C and D are thus joined their opposite faces are flush, as shown in Fig. 1, which gives a flush joining of the heel-sections and of their uniting parts. By this construction the annulus serves to secure the disk to the adjustable section B by means of the annular recessed and shouldered joinings of the annulus and the disk, and the latter serves to secure the two heel-sections together, so that the lower section can be turned upon the disk D, and when properly adjusted it is clamped firmly to the upper section by the screws which secure said disk.

A plug, I, may be used to fill the central opening, G, in the lower heel part, if desired.

I claim—

The combination, in a swivel-heel for boots and shoes, of the annulus C, having the shouldered recess c c^3 on its under face around the opening c', and secured to the fixed section A, with the disk D, having the flange d and the shouldered central part, d', corresponding with the recess c and shoulder c^3 of the annulus, and secured to the adjustable heel-section B, whereby the annulus serves to secure the disk D to the bottom section and the disk to secure and clamp the two sections firmly together, the said annulus and disk forming annular bearings, and having their opposite faces flush, substantially as herein set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JOHN FRANCIS WYNNE.

Witnesses:
JAMES H. BANGS,
JOSEPH H. MCINTIRE.