

J. WILMSHÖFER.
DETACHABLE HEEL.
APPLICATION FILED AUG. 18, 1910.

989,679.

Patented Apr. 18, 1911.

Fig. 1.

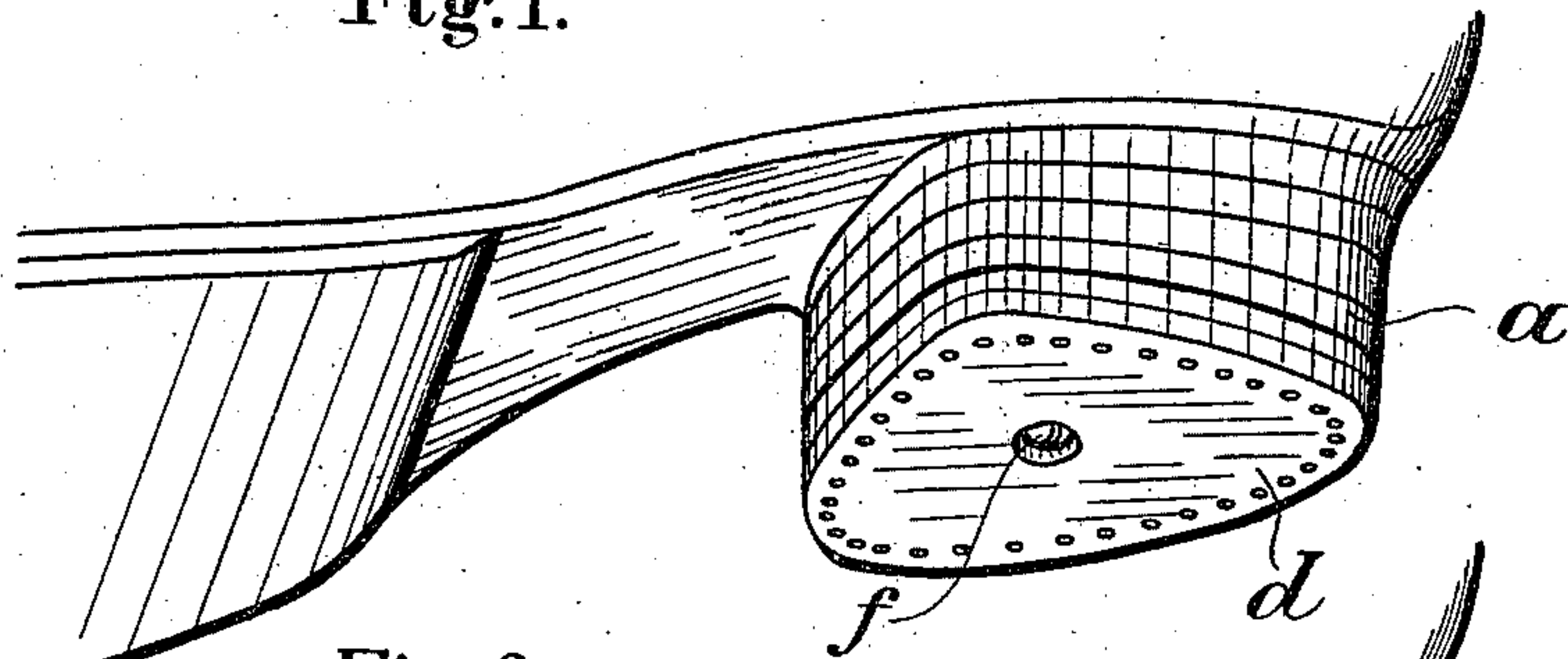


Fig. 2.

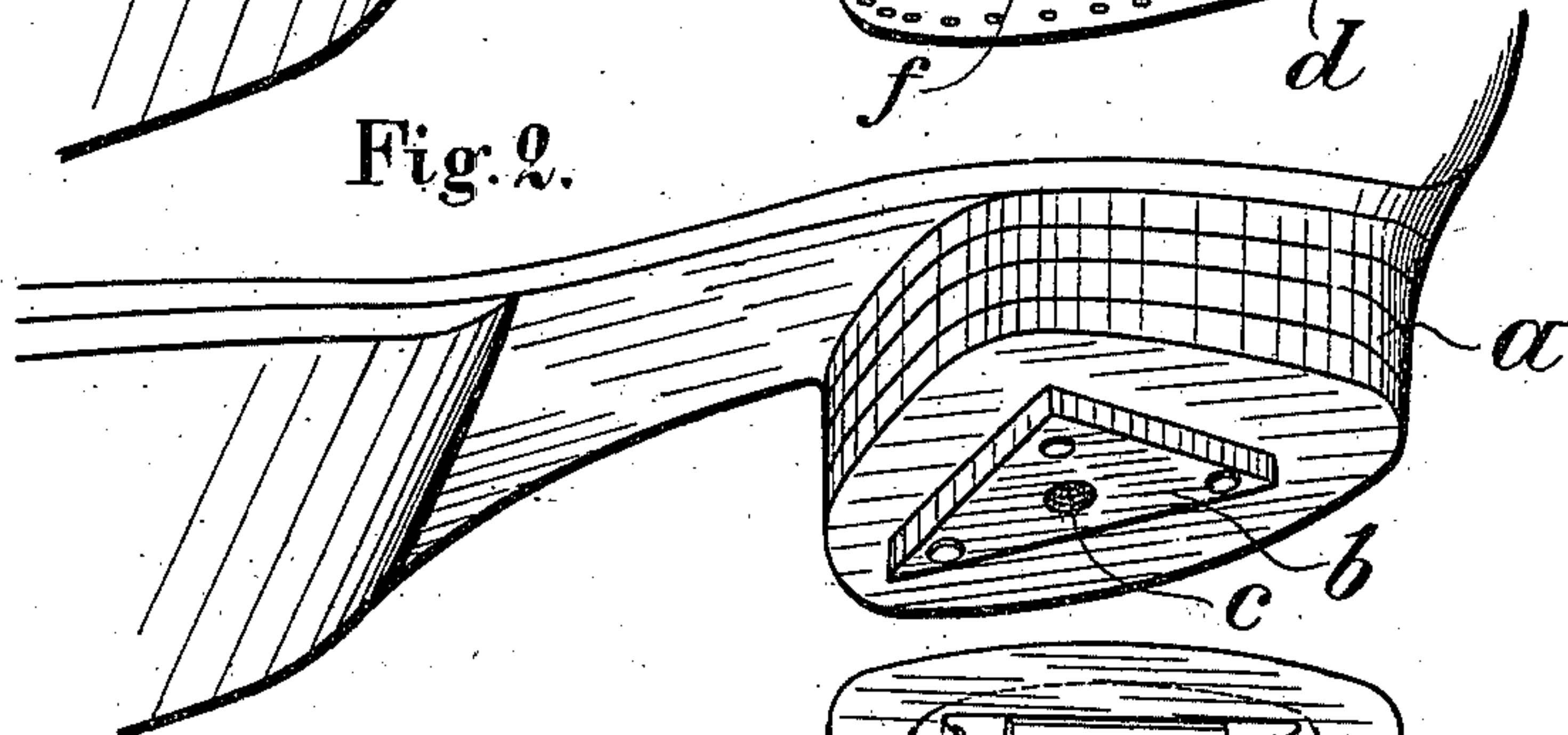


Fig. 3.

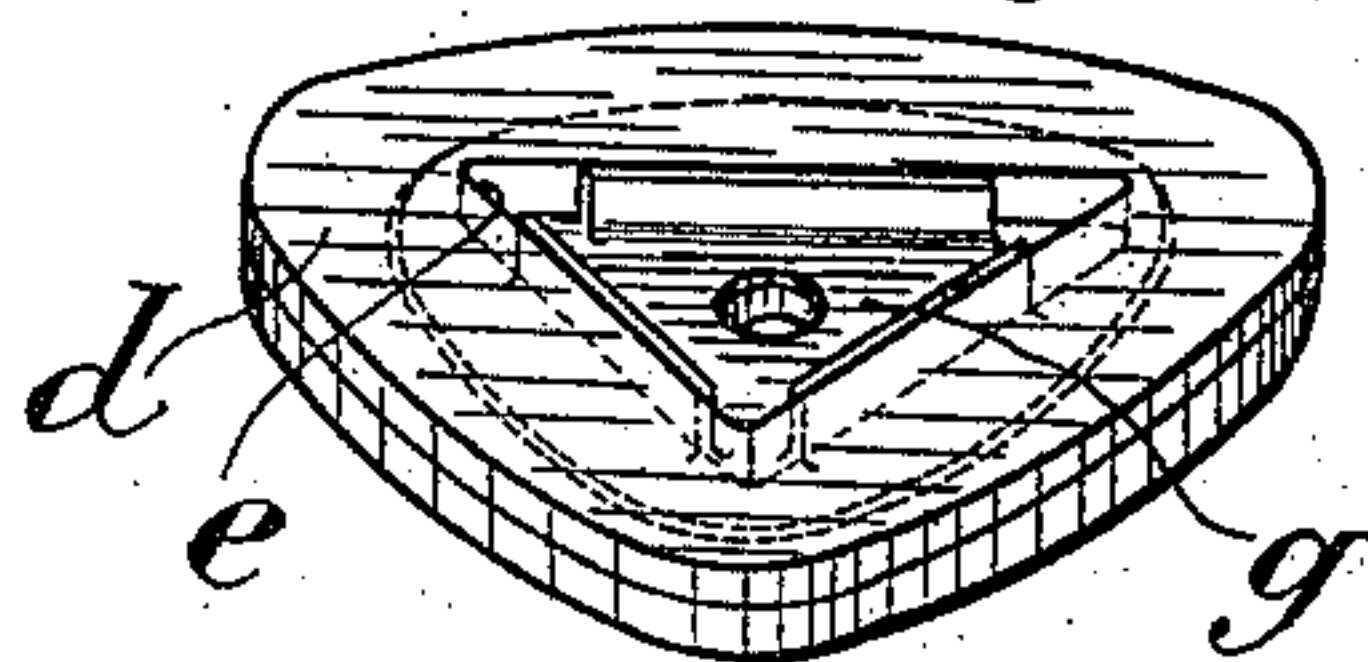
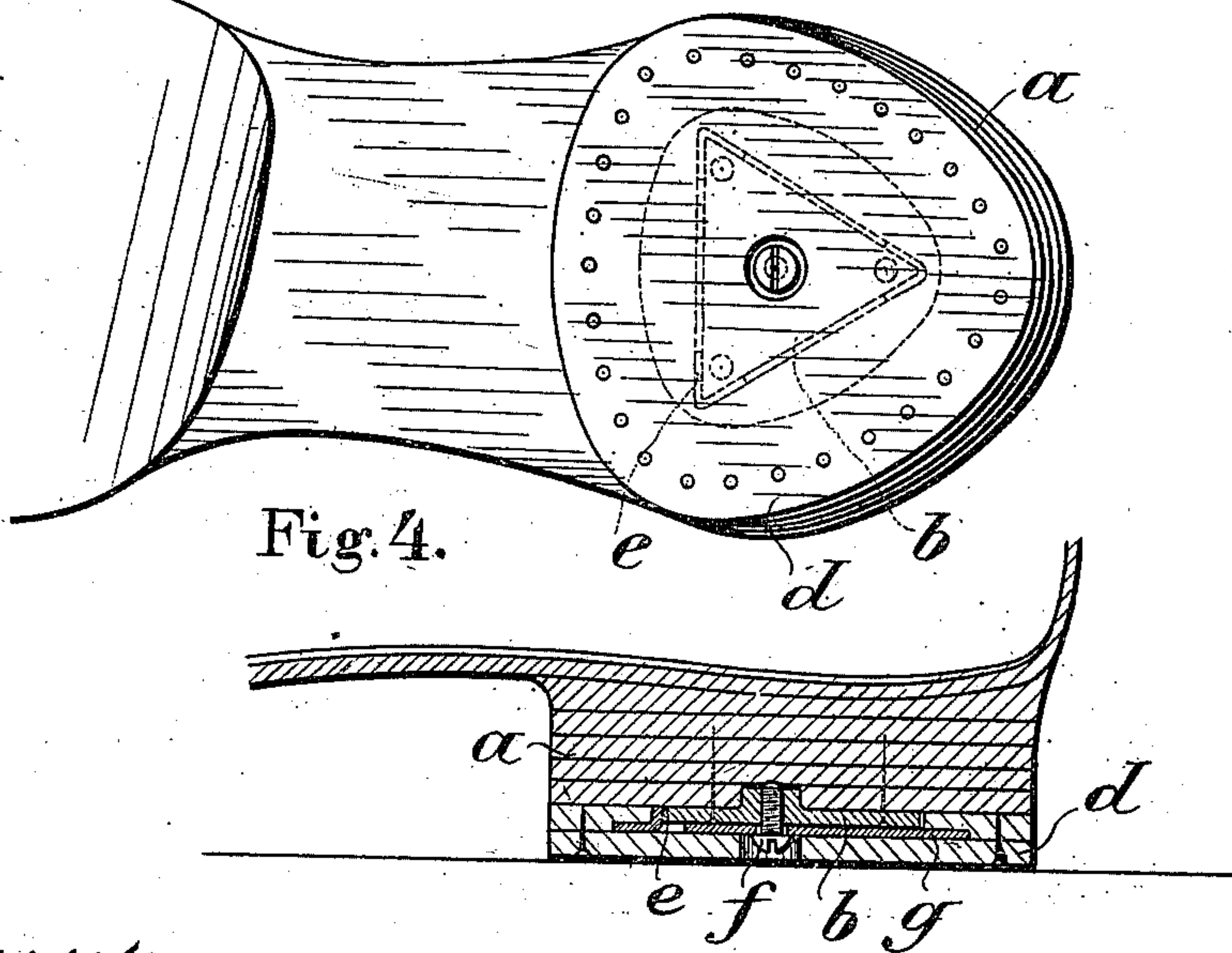


Fig. 4.



Witnesses:
Daniel Holmgren
William J. Peterson

Inventor:
Joseph Wilmschöfer
by his attorneys
Bücher & Junge

UNITED STATES PATENT OFFICE.

JOSEPH WILMSHÖFER, OF DUSSELDORF, GERMANY.

DETACHABLE HEEL.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOSEPH WILMSHÖFER, a citizen of Germany, residing at Herzogstrasse 102, Dusseldorf, in the Province of Rhineland and Kingdom of Prussia, Germany, have invented new and useful Improvements in Detachable Heels, of which the following is a specification.

The present invention contemplates a detachable heel in which a disk, used as a heel-piece, is adjustably attached below the heel-body. When worn away at one part of its under surface, such disk is moved by turning or displacing it with another part to that side of the heel, which is more particularly subjected to wear and tear.

The essential feature of the invention lies in the fact, that the disk and the heel have at their lower part the form of an equilateral triangle having curved sides and rounded angles; thus the heel-piece or the disk, after being turned through 120° in one or the other direction, always coincides with the heel. So the arrangement allows of displacing two times or of using the disk or the heel-tap in three positions, without it being necessary that both parts differ remarkably from the form of the heel generally in use.

The accompanying drawing, in which similar letters refer to similar parts throughout the several views, shows the new arrangement in one form of embodiment.

The Figure 1 is illustrative of the heel in elevation. The Fig. 2 shows the heel likewise in elevation, but with disk removed and placed aside. Fig. 3 is an upper plan view and Fig. 4 a longitudinal section through the heel.

The heel *a* is shaped, at least at its lower part, in the form of an equilateral triangle having curved sides and rounded angles. The bottom of the heel has fastened thereto a triangular plate *b*, made preferably of metal. This is fitted with a tapped aperture *c*. The disk or the heel-piece *d* to be fastened to the heel has exactly the form and size of the lower heel-parts. It carries at top a recess *e* corresponding in size and

shape to the plate *b* and arranged in such a way that the disk *d* when pushed there- with over the plate *b* perfectly coincides with the heel. By this arrangement the disk *d* is kept from turning without further trouble. The disk can be fixed, as shown, by means of a screw *f* to be screwed into the tapped opening *c* of the plate *b* which with its head bears against a thin metallic plate *g* adapted at or in the disk *d*. This plate *g* may carry, as shown, upwardly directed lugs preferably formed by the punching process, with which it engages the recess *e* and embraces the sidewalls of plate *b*. When disk *d* is worn along one of its sides, screw *f* is slackened, the disk is lifted off plate *b*, and after being turned through an angle of 120° is re-attached. This operation may be repeated when the second side of the disk has become worn, so that all three sides of the disk may be consecutively utilized for standing the maximum wear.

The disk *d* may be made of one or several layers of leather or of rubber or of any other suitable material.

I claim:—

1. A device of the character described, comprising a heel, the lower portion of which is of equilateral triangular shape with rounded angles, a disk of like shape and size, and means for adjustably securing the disk to said lower heel portion.

2. A device of the character described, comprising an equilateral triangular heel having curved sides and rounded angles, a disk of like shape, and means for adjustably securing the disk to the heel.

3. A device of the character described, comprising a heel, a triangular bottom plate secured thereto, an equilateral triangular disk having curved sides and rounded angles, and recessed to receive the bottom plate, and means for adjustably securing the disk to the heel.

JOSEPH WILMSHÖFER. [L. s.]

Witnesses:

WALTER VONNEGUT,
ALFRED HENKEL.