

No. 836,964.

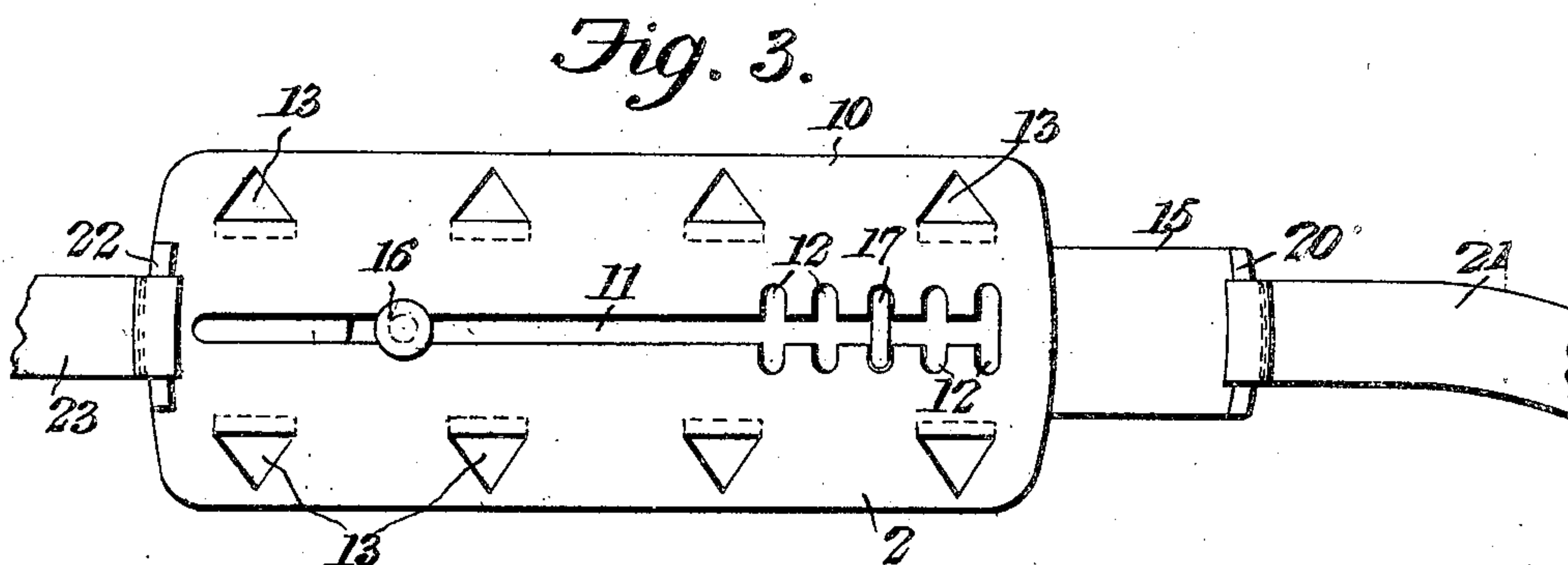
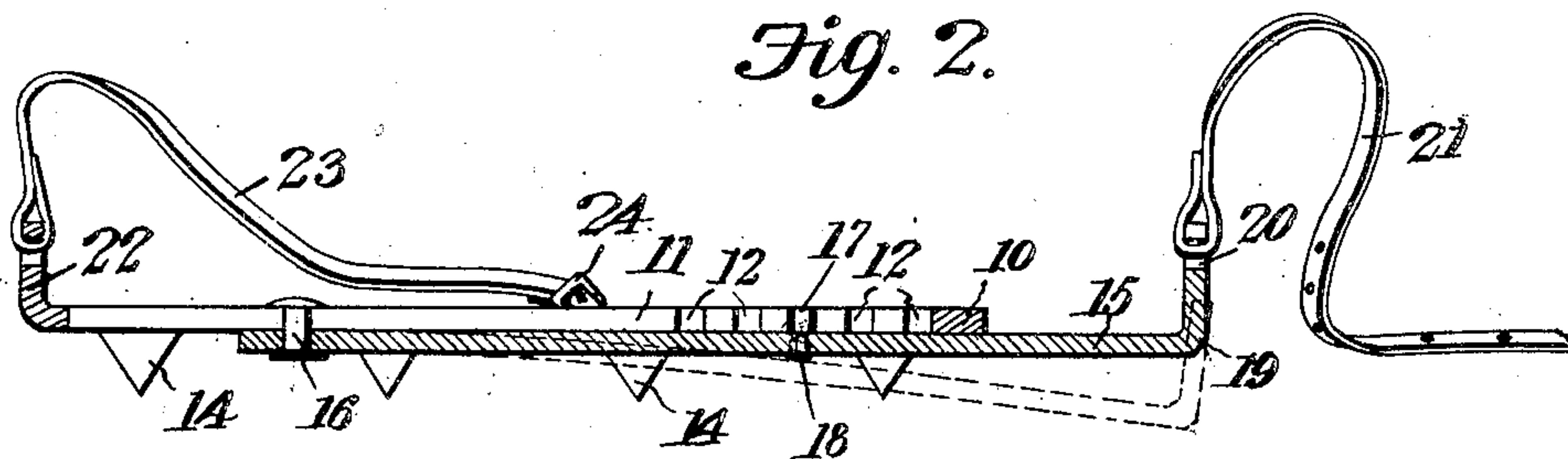
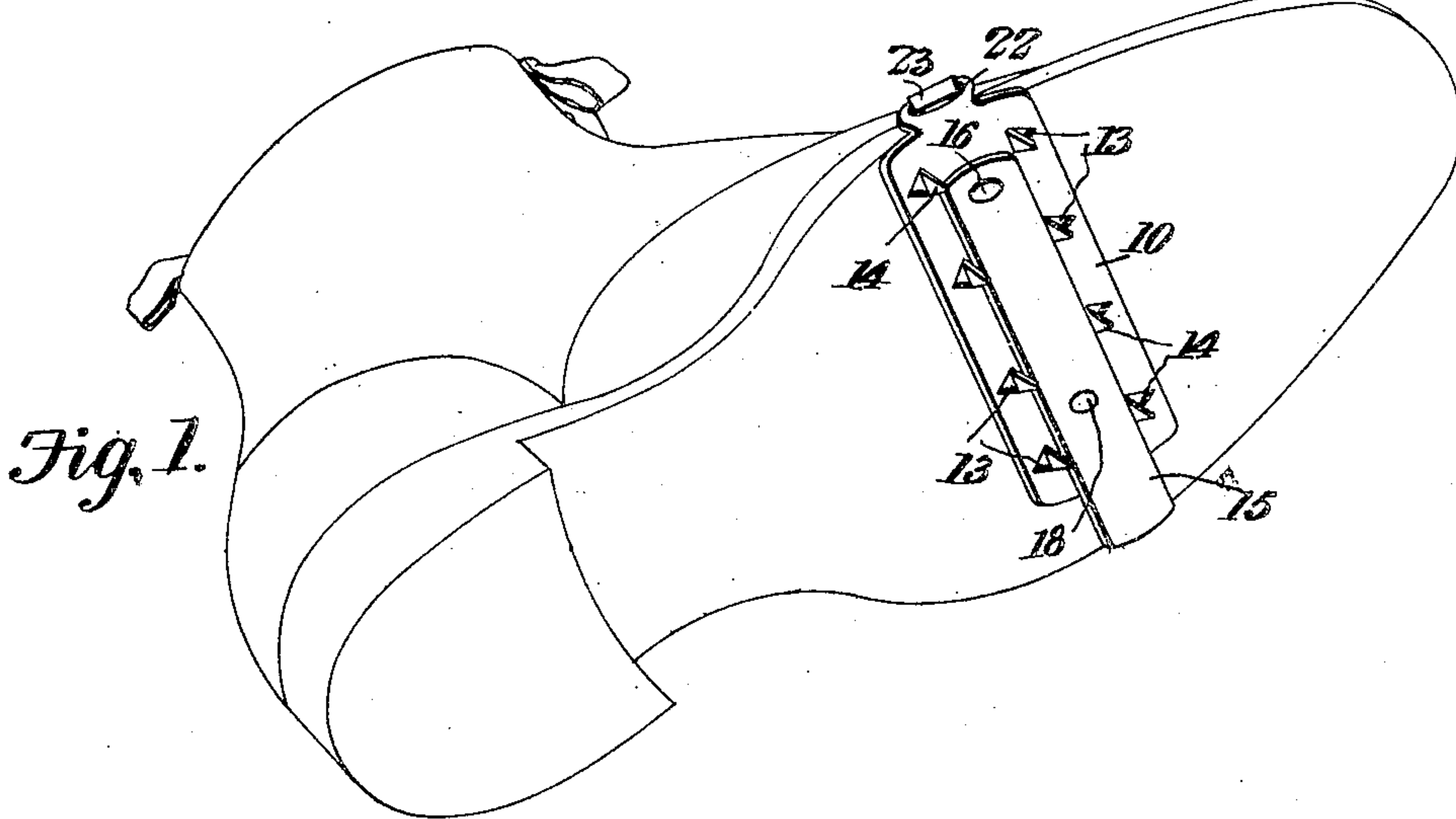
PATENTED NOV. 27, 1906.

C. L. EDWARDS.

ICE CREEPER.

APPLICATION FILED SEPT. 22, 1905.

2 SHEETS—SHEET 1.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 4.

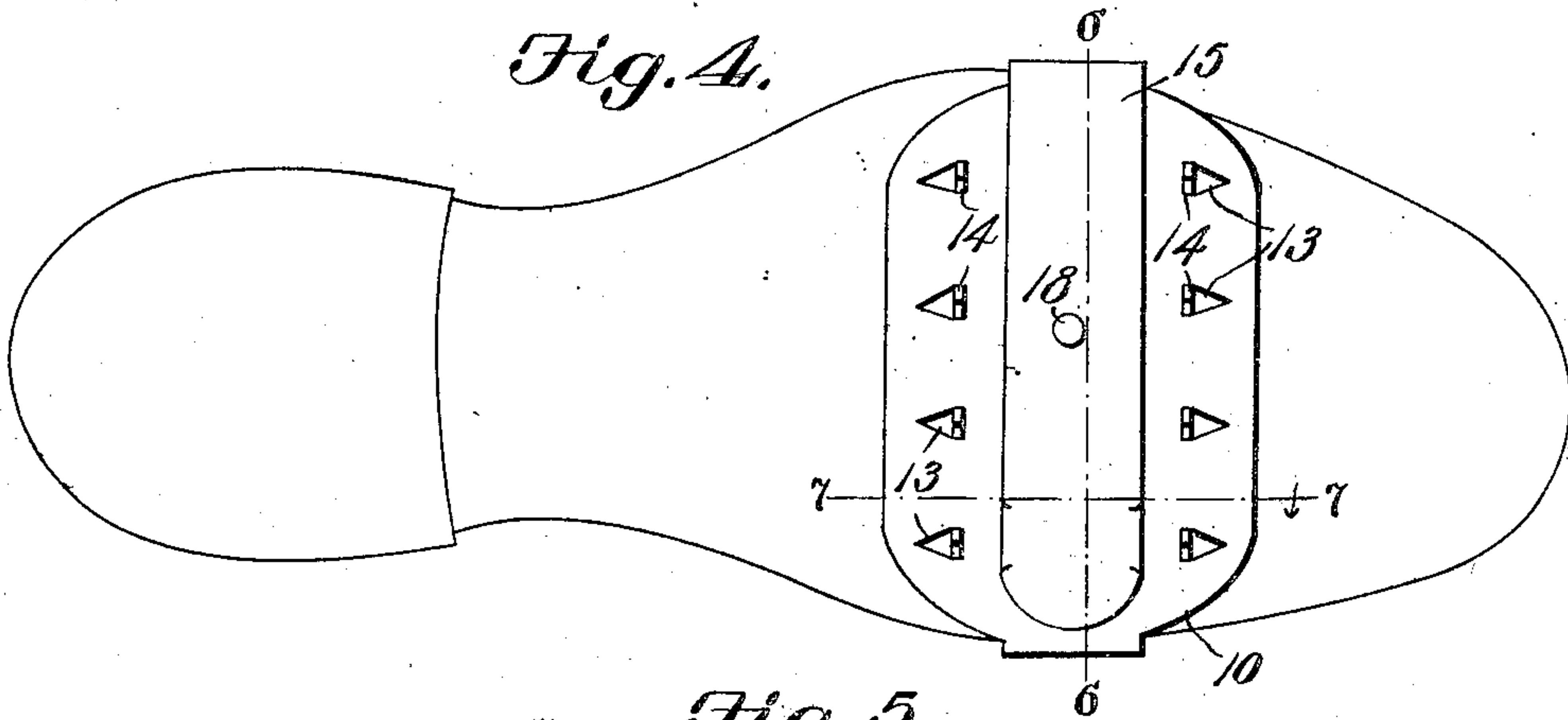


Fig. 5.

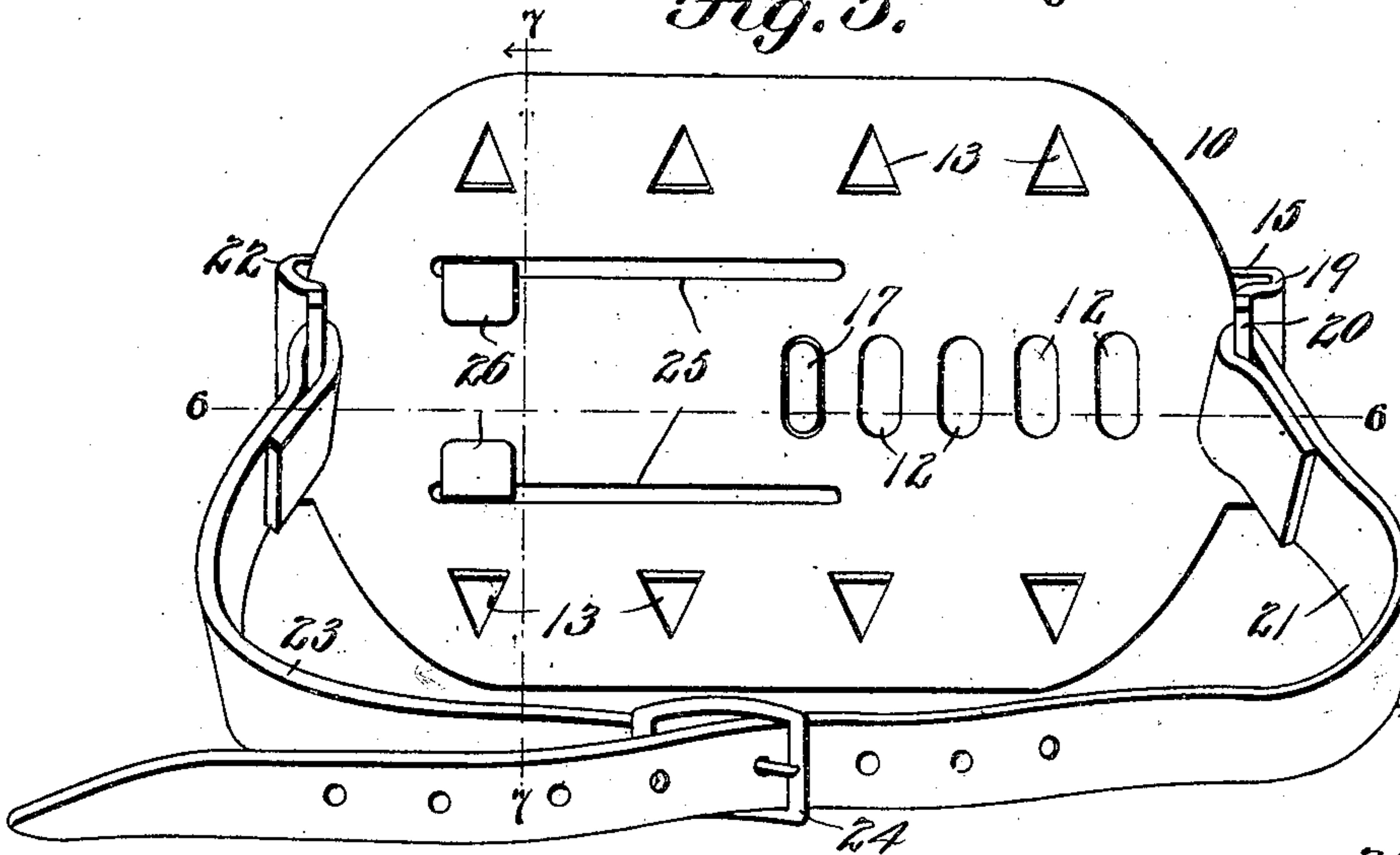


Fig. 6.

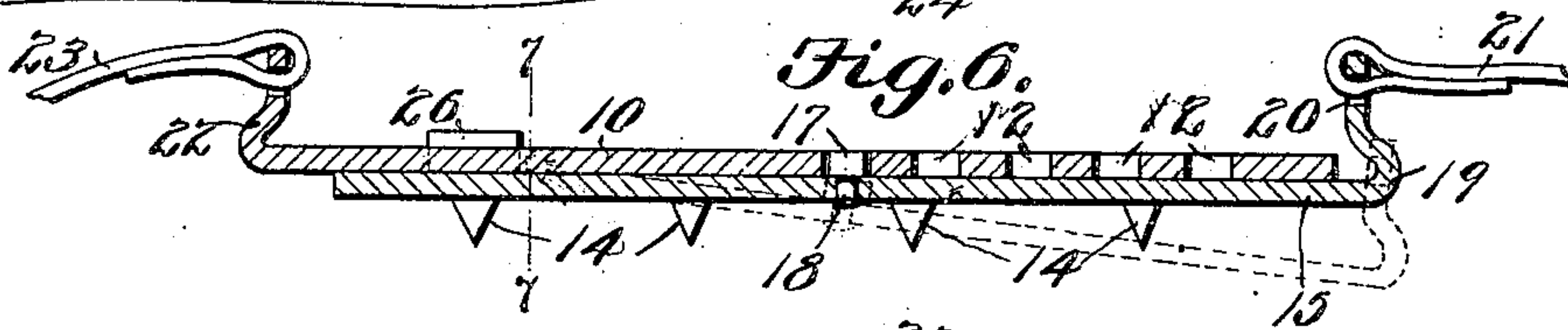
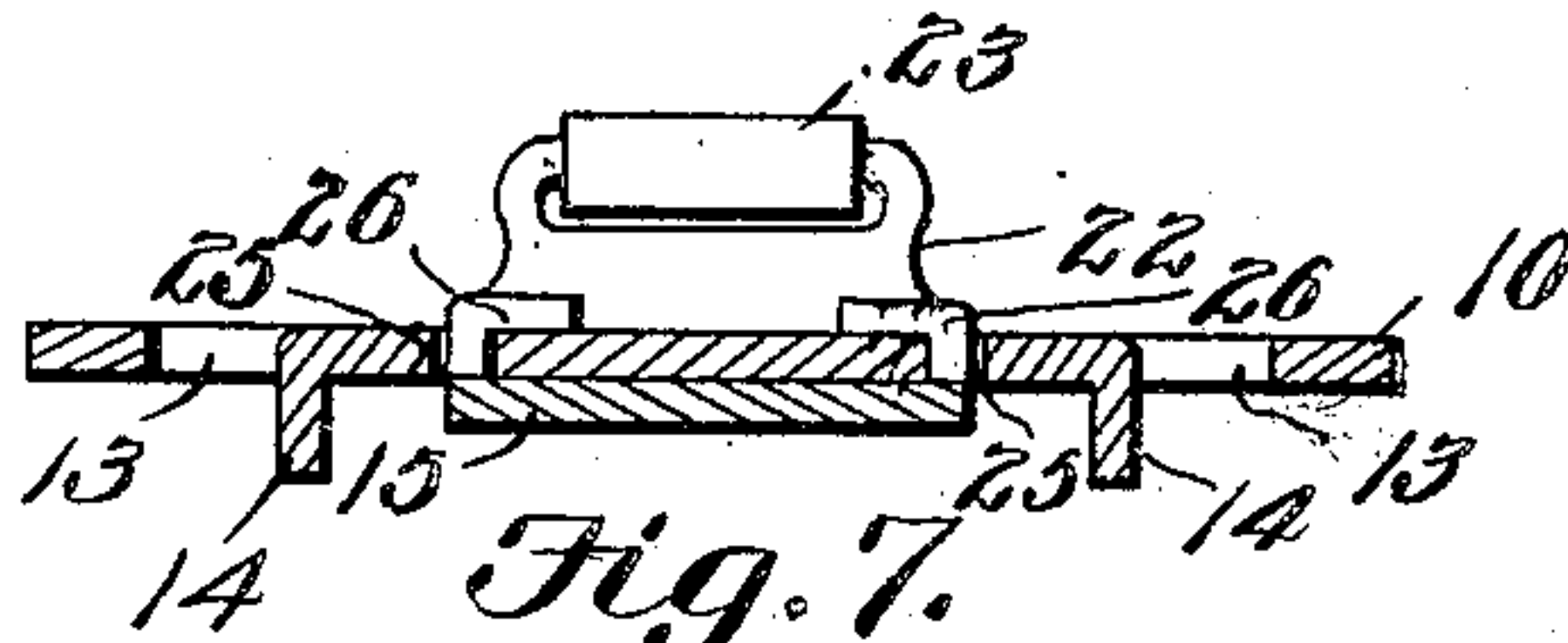


Fig. 7.



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UNITED STATES PATENT OFFICE.

CHARLES L. EDWARDS, OF TROY, ILLINOIS, ASSIGNOR OF ONE-HALF TO
GEORGE P. NEUDECKER, OF TROY, ILLINOIS.

ICE-CREEPER.

No. 836,964.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed September 22, 1905. Serial No. 279,664.

To all whom it may concern:

Be it known that I, CHARLES L. EDWARDS, a citizen of the United States, residing at Troy, in the county of Madison and State of Illinois, have invented a new and useful Ice-Creeper, of which the following is a specification.

This invention relates to ice-crawlers, and has for an object to provide a device of the class embodying new and improved features of simplicity, convenience, durability, and utility.

A further object of the invention is to provide a device of the class embodying improved means for adjusting to the width of the foot and to secure the parts at the desired adjustment.

With these and other objects in view the present invention consists in the combination and arrangement of parts as will be hereinafter fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made without departing from the spirit or sacrificing any of the advantages of this invention.

In the drawings, Figure 1 is a perspective view of a shoe with the improved crawler applied. Fig. 2 is a longitudinal sectional view. Fig. 3 is a top plan view of the crawler. Fig. 4 is a bottom plan view of a foot with a crawler of slightly different form and construction applied. Fig. 5 is a perspective view of the form of crawler shown in Fig. 4. Fig. 6 is a longitudinal sectional view taken on line 6 6 of Figs. 4 and 5. Fig. 7 is a transverse sectional view taken on line 7 7 of Figs. 4, 5, and 6.

Like characters of reference indicate corresponding parts in all of the figures of the drawings.

In its preferred embodiment the improved ice-crawler forming the subject-matter of this application comprises a plate 10, having a slot 11 extending longitudinally thereof throughout the greater part of its length and coinciding substantially with the middle line. Adjacent one end a plurality of short transverse slots 12 are formed transecting the longitudinal slot at substantially their middles. Adjacent each longitudinal edge of the plate a plurality of openings 13 are cut, forming the spurs 14, which are bent to stand out

from and substantially perpendicular to the under side of the plate and aligned in rows parallel with the longitudinal slot 11.

Along the under side of the plate 10 is disposed the bar 15, slidably secured thereto by the rivet 16, rigid with the bar 15, and loosely engaged within the slot 11. The bar is also provided with a lug 17, rigidly secured, as by the rivet 18. The outer end of the bar is bent, as at 19, to form the upstanding eye 20, in which is secured a strap, as 21. The end of the plate opposite the eye 20 is formed into an upstanding eye 22, in which is secured a strap 23, supplied with a buckle 24, for engagement with the strap 21.

Instead of the slot 11 and rivet 16 the plate 10 may be provided with parallel slots 25, and the strip 15 may have ears 26 bent up from the edges and disposed in the slots 25.

To adjust the device to shoes of different widths, the bar 15 is sprung to the dotted position which releases the lug 17 from the transverse slots 12, when the bar and rivet 16 may be moved longitudinally of the plate to the desired width, when the resiliency of the bar will cause the lug to engage the slot, and when bound upon the foot it cannot become disengaged.

Having thus described the invention, what is claimed is—

1. An ice-crawler for shoes comprising a plate having outstanding spurs, said plate being slotted longitudinally and having transverse slots intersecting the longitudinal slot, a resilient bar interposed between the spurs and slidably mounted on the plate, a connecting device upon the bar and within, and overlapping the walls of the longitudinal slot, a lug upon the resilient bar and adapted to be seated in any one of the transverse slots, the plate being adapted to be confined in engagement with the lug by a shoe when secured thereto, and means upon the plate and bar for securing the crawler to a shoe.

2. An ice-crawler for shoes comprising a plate having outstanding spurs, said plate being slotted longitudinally and provided with transverse slots intersecting the longitudinal center of the plate, an imperforate resilient bar interposed between the spurs and slidably mounted on one side of the plate, means carried by the bar and longitudinally movable within the plate for engagement with the opposite side of the plate to slidably con-

nect the bar to the plate, a lug upon the resilient bar and adapted to be seated in any one of the transverse slots, the plate being adapted to be confined in engagement with
5 the lug by a shoe when secured thereto, and means upon the plate and bar for securing the creeper to the shoe.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CHARLES L. EDWARDS.

Witnesses:

P. M. DAVIDSON,

W. J. VETTER.