

No. 707,814.

Patented Aug. 26, 1902.

J. AHRENDT.
COLLAR FOR HORSES OR THE LIKE.

(Application filed Feb. 5, 1901.)

(No Model.)

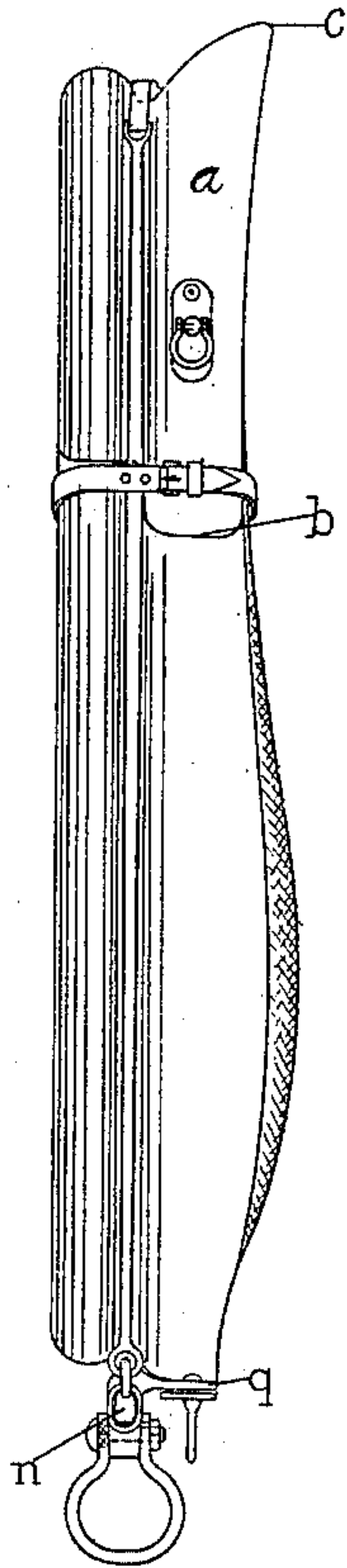


Fig. 1

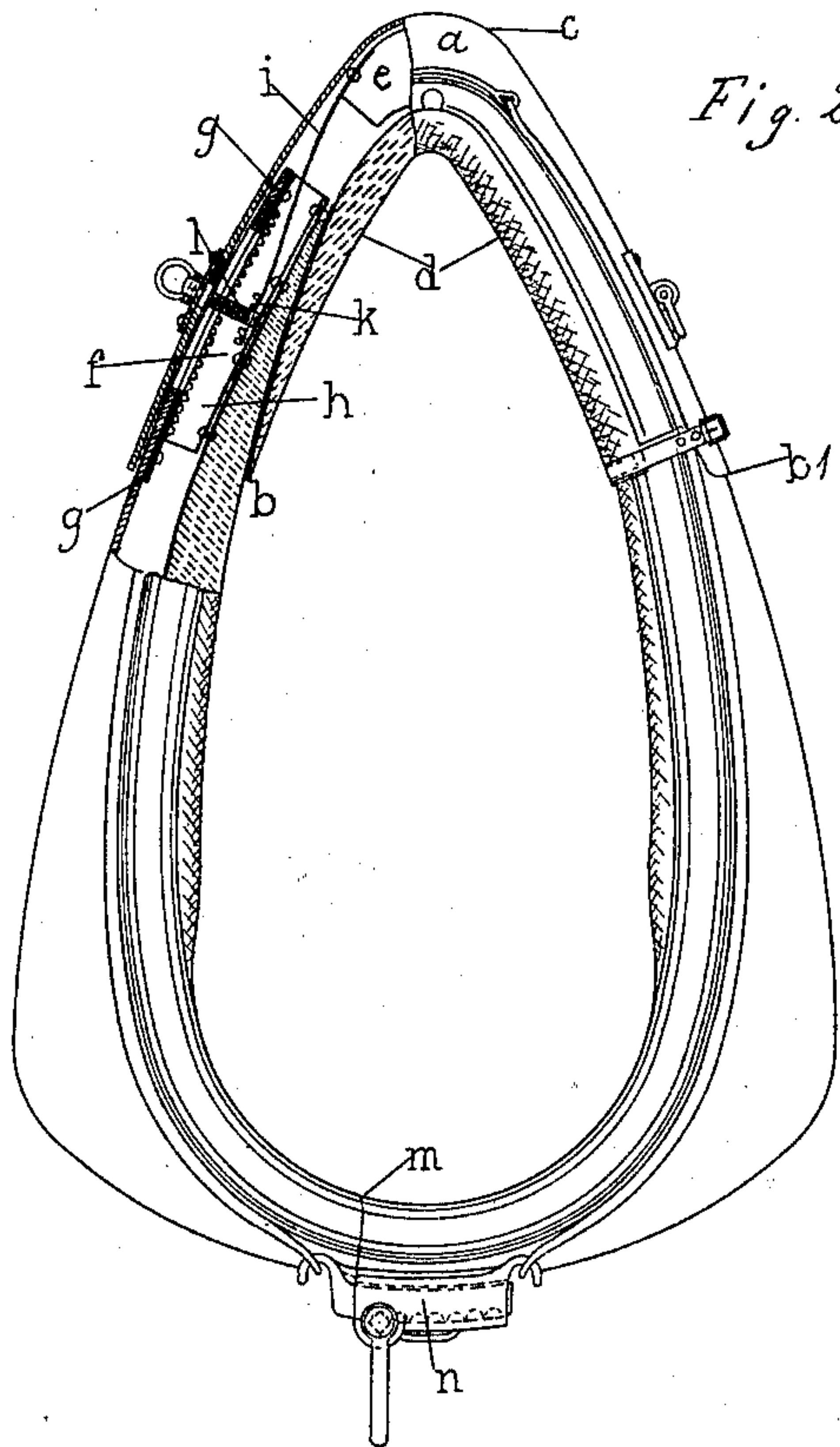


Fig. 2

Fig. 3

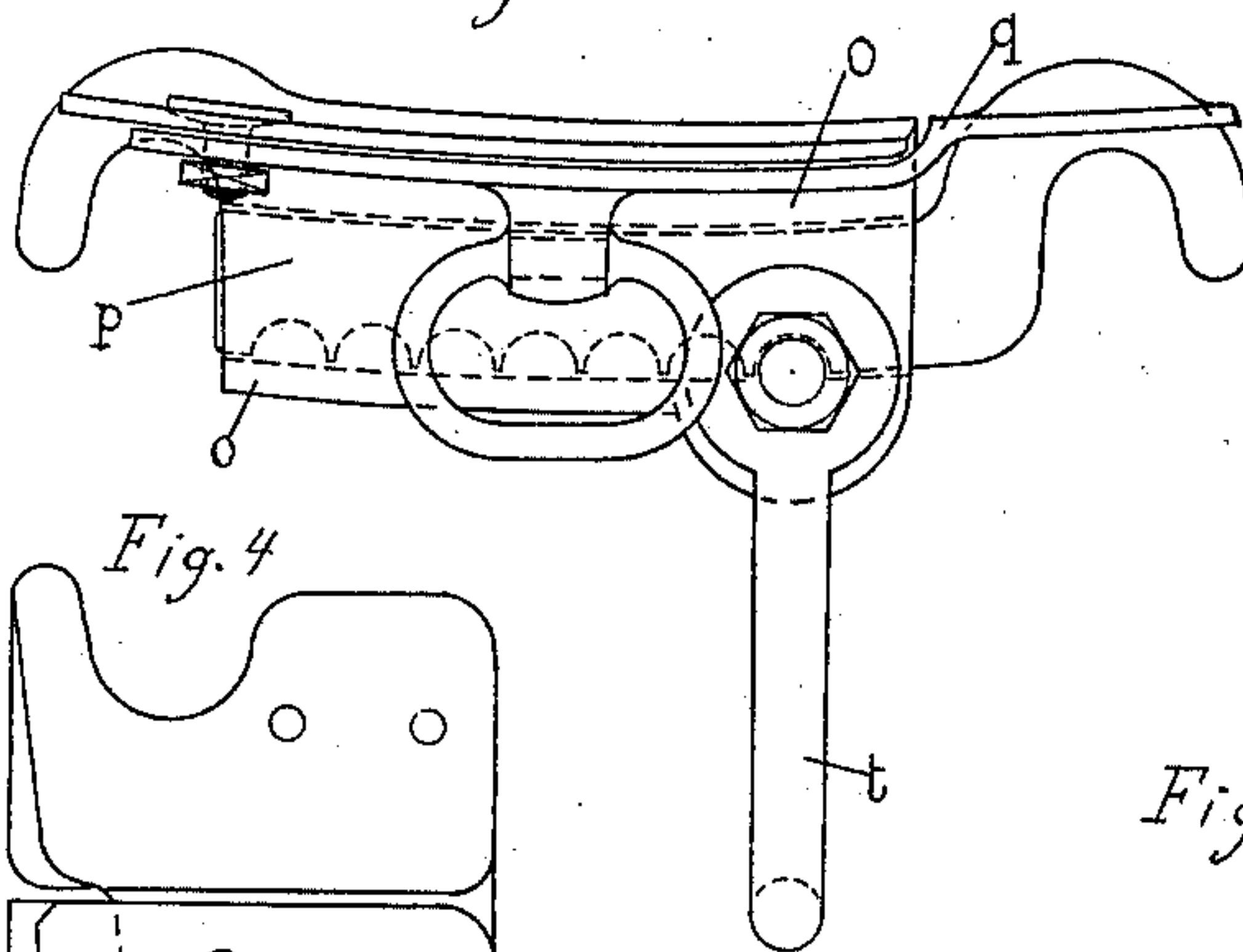


Fig. 5

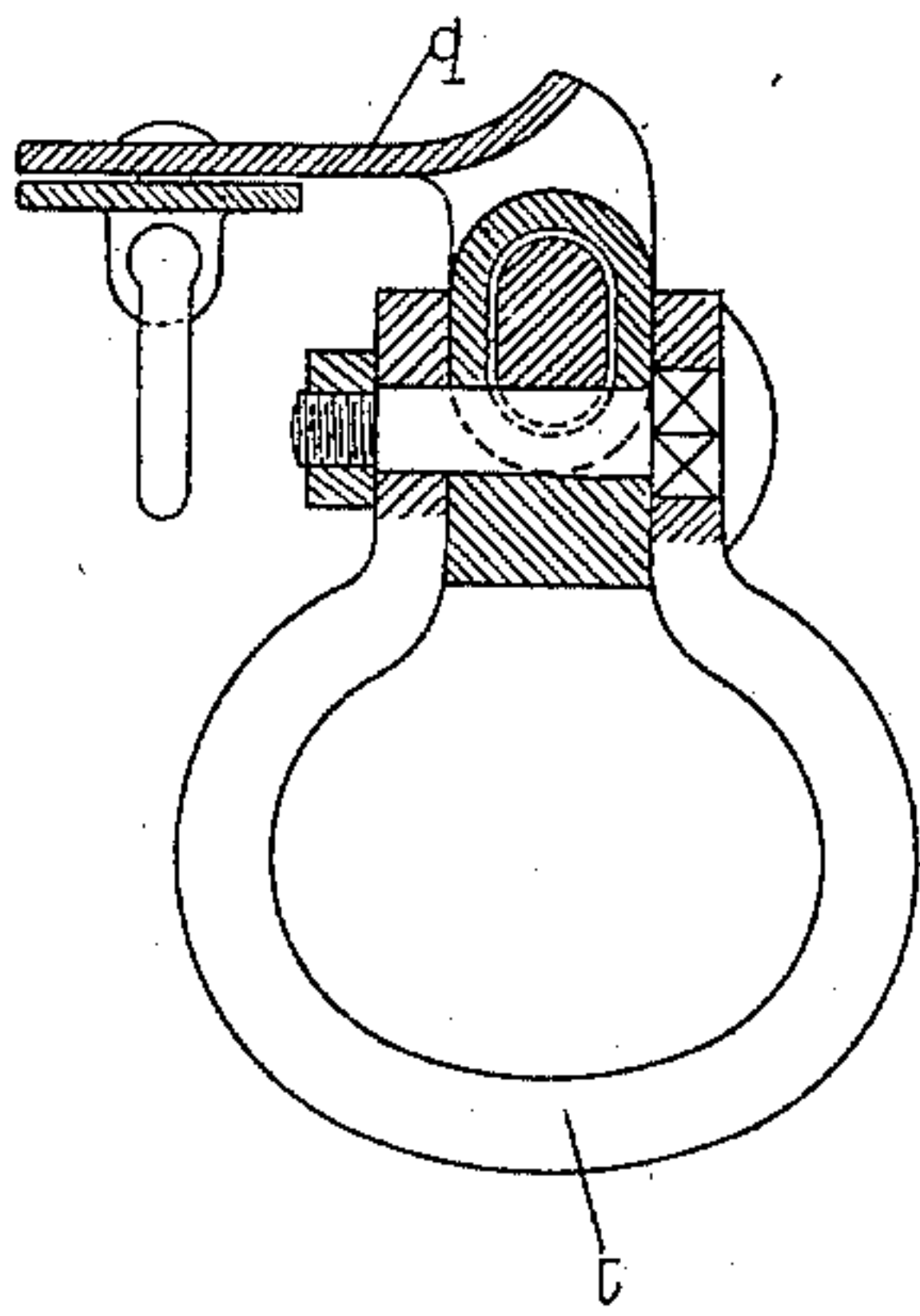


Fig. 4

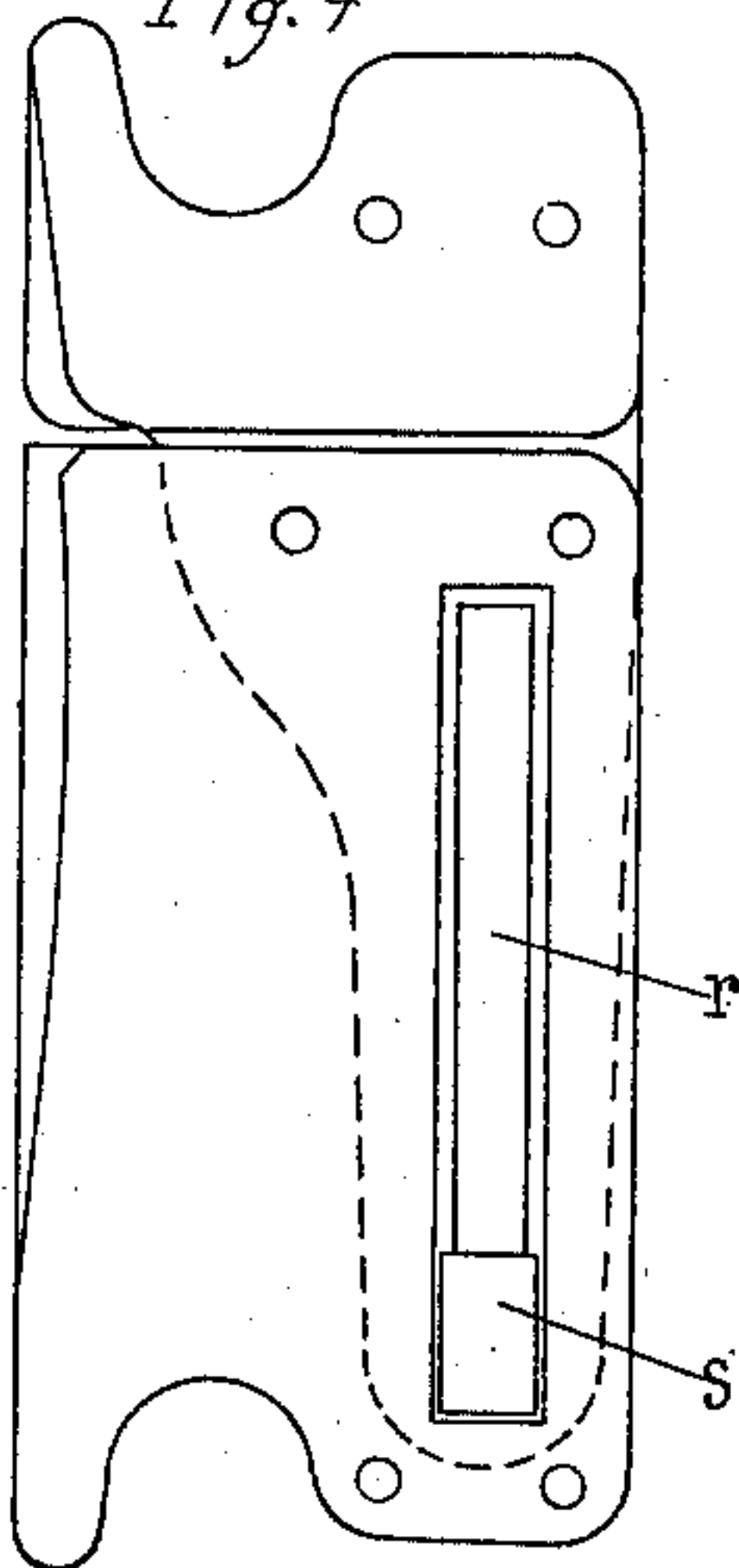
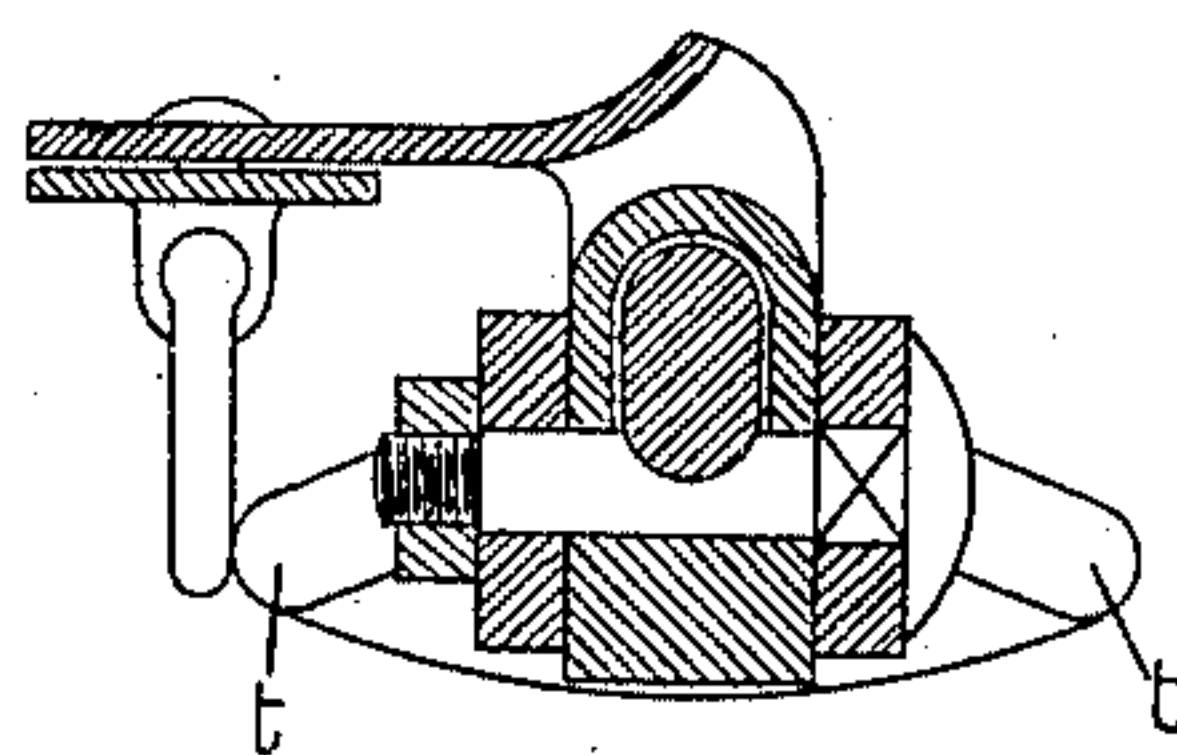


Fig. 6



Witnesses
E. H. L. Mummendorf
Otto Hillerich

Inventor:
Johannes Ahrendt
By G. Sittman
Atty

UNITED STATES PATENT OFFICE.

JOHANNES AHRENDT, OF HAMBURG, GERMANY.

COLLAR FOR HORSES OR THE LIKE.

SPECIFICATION forming part of Letters Patent No. 707,814, dated August 26, 1902.

Application filed February 5, 1901. Serial No. 46,095. (No model.)

To all whom it may concern:

Be it known that I, JOHANNES AHRENDT, a citizen of Hamburg, residing at Hamburg, Germany, (whose post-office address is 7
5 Grosse Theater Strasse,) have invented certain new and useful Improvements in Collars for Horses or the Like, of which the following is a specification.

This invention relates to collars for horses
10 and like animals.

In collars requiring hames, whether adjustable or not, the weight of the combined collar and hame and the rigidity of the same prevent a yielding and easy fitting upon the
15 neck of the animal and often result in discomfort, pain, and injury.

This invention has for its object an improved collar without hames which shall be adjustable all around and fit yieldingly and
20 easily to all parts of the neck and the conversion of the ordinary close-fitting collars into such all-around-adjustable easy-fitting collars.

With these objects in view the invention
25 consists in the improved construction, arrangement, and combination of parts herein-after fully described and afterward specifically claimed.

In the accompanying drawings, Figure 1 is
30 a view in side elevation of a collar constructed in accordance with my invention. Fig. 2 is a view of the same in front elevation, partly broken away and in section. Figs. 3, 4, 5, and 6 are detail views to be hereinafter re-
35 ferred to.

Like letters of reference mark the same parts in all of the figures of the drawings.

In order to make the collar longer or shorter, the neck part of the collar is made in the
40 form of a padded pocket *a*, as shown in the accompanying drawings in Figs. 1 and 2, which is open at both ends *b* and *b'*. The neck-pocket consists of an upper elastic bent piece *c* and an under stiffened neck-pad *d*.
45 Between the neck-pad and the part *c* there is a short insertion *e*, while the part *c* and the neck-pad *d* are connected with one another at the sides. In the socket-shaped ends of the neck-pad thus formed the upper ends of
50 the sides of the collar are inserted, which are provided with an adjusting device *f*. The adjusting device is formed, as shown in Fig.

2, first, of an upper covering part *g*, which is domed outward and provided with a slot and ribbed on its under side, and having a smaller
55 box or casing *h* attached thereto, the sides of the cover which project beyond it serving for attaching the adjusting device to the collar-roll and the pad; second, of a bar *i*, which, if desired, may be made as a spring, fixed in
60 the inner part of the neck-pocket, on the ends of which bar there is a milled screw-nut *k* with a screw *l*. The end of the screw projecting from the slot is provided with a knob or boss and also with a perforation.
65

The neck-piece *c* is provided with a hole in which the knob of the screw fits. Above this there is a small perforated plate which only allows the end of the screw above the knob
70 to pass through. A head provided with a perforation is formed on the end of the screw, and a small screw serving for fastening the head carries a ring to allow of the adjustment being more conveniently made. When
75 the screw is not tightened up, the side part may be pushed up and down longitudinally in the slot formed on the socket-shaped ends of the neck-pocket. When the screw which
80 is held fast in the perforated neck-piece *c* by means of the head and washer is tightened up, the screw-nut with its milled surface is drawn against the lower ribbed and slotted part, and thus the collar is adjusted into the
85 desired position. The neck-piece *c* has the same form as the corresponding part of the ordinary close-fitting collars without hames. As, however, the side pads must retain the
90 usual form, even any ordinary non-adjustable collar already in use may by means of the neck-pocket hereinbefore described be converted into a collar which is adjustable in length. It is only necessary to cut off the
95 point of the ordinary collar and to insert the adjusting device in the padding and then to fasten it up.

A collar provided with the arrangement hereinbefore described is still, however, an adjustable collar only in length. There is still required for this purpose a further arrangement to enable the collar to be made
100 narrower or wider in its lower parts. Devices of this kind have already been employed in collars; but no device has hitherto been known for adjusting the width of a collar

without hames which allows of an easy and rapid handling combined with a simple construction and a solid or firm connection of all the parts. In order to attain this, the collar, 5 which is adjustable in length by the use of the hereinbefore-described neck-pocket, is divided in the breast-pad at the point *m*, and the ends of the breast-pad are connected by a fastener *n* in two parts and are adjustable in 10 a peculiar manner. This fastener, which is shown in Fig. 3, consists of a socket-piece *o* and a bar *p*. Each part is fastened by means of projections formed thereon to one of the ends of the divided breast-pad, Fig. 1, and 15 they are hooked by means of hooks into loops at the end of the collar-band or a curved piece which runs around the collar or are otherwise connected therewith in a suitable manner. A slot *r*, Fig. 4, is formed in the 20 longer projection *q* of the socket-piece, and a pin *s*, fixed on the tongue-shaped continuation of the bar *p*, passes through the slot. The fastener, and thus the collar, is adjustable in width corresponding with the length 25 of the slot. The adjustment is effected by means of the pin which passes through the socket part (see Figs. 5 and 6) engaging in one of the recesses, Fig. 3, formed in the bar. A recess, Fig. 6, is also formed in the side of 30 the pin, which is turned upward into the socket by turning over laterally the ring *t*, which turns the pin. In this position of the pin with the recess brought to the top the bar is adjustable in the socket. A small jaw is 35 placed at each side of the strengthened part of the socket, which jaws prevent the unin-

tentional displacement of the adjusting device. A hameless adjustable collar, like any ordinary close-fitting padded collar, has a bent piece and a fastener. In order, there- 40 fore, to make an ordinary collar adjustable in width, it is only necessary to divide the breast-pad and to replace the ordinary fastener with the adjustable fastener hereinbefore described; but the simultaneous employ- 45 ment of both the arrangements hereinbefore described is necessary for producing a hameless collar which fits closely to the neck and is adjustable all around and also for altering the ordinary collar of this kind into an easy, 50 adjustable, close-fitting, hameless, flexible collar.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is— 55

A collar comprising an upper portion to fit over the neck and having socketed lower ends, said upper portion consisting of an elastic upper piece bent to the form of an inverted U, a stiffened under neck-pad of similar shape, 60 and a short middle piece between these bent parts, the lower portion of the collar having ends to fit the sockets of the upper portion, and means for adjusting and securing said ends in said sockets, substantially as de- 65 scribed.

In witness whereof I have hereunto set my hand in presence of two witnesses.

JOHANNES AHRENDT.

Witnesses:

E. H. L. MUMMENHOFF,
OTTO W. HELLMRICH.