

(Model.)

J. GROSSMANN.  
HYGIENIC BANDAGE.

No. 387,159.

Patented July 31, 1888.

Fig. 3.

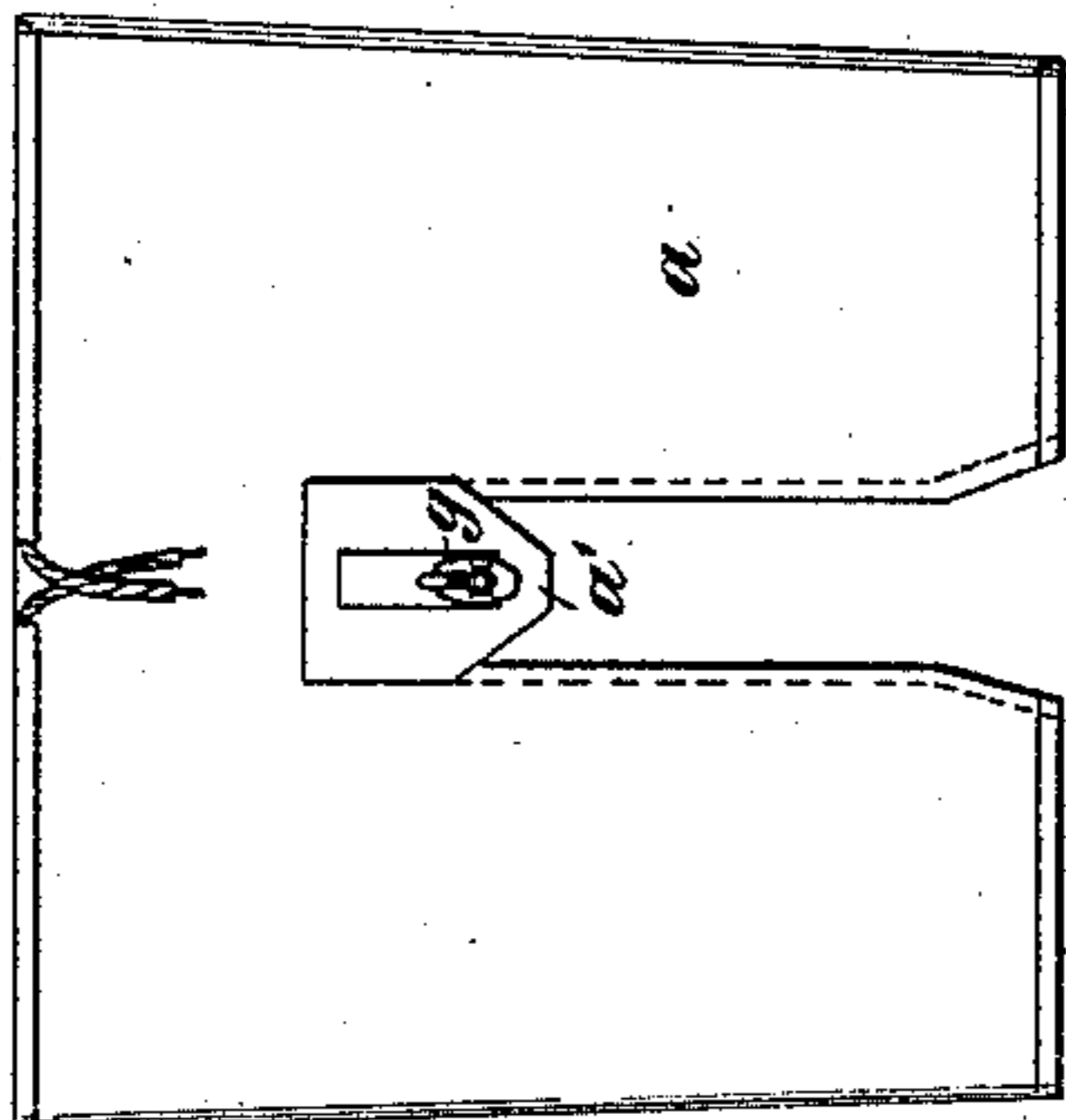


Fig. 6.

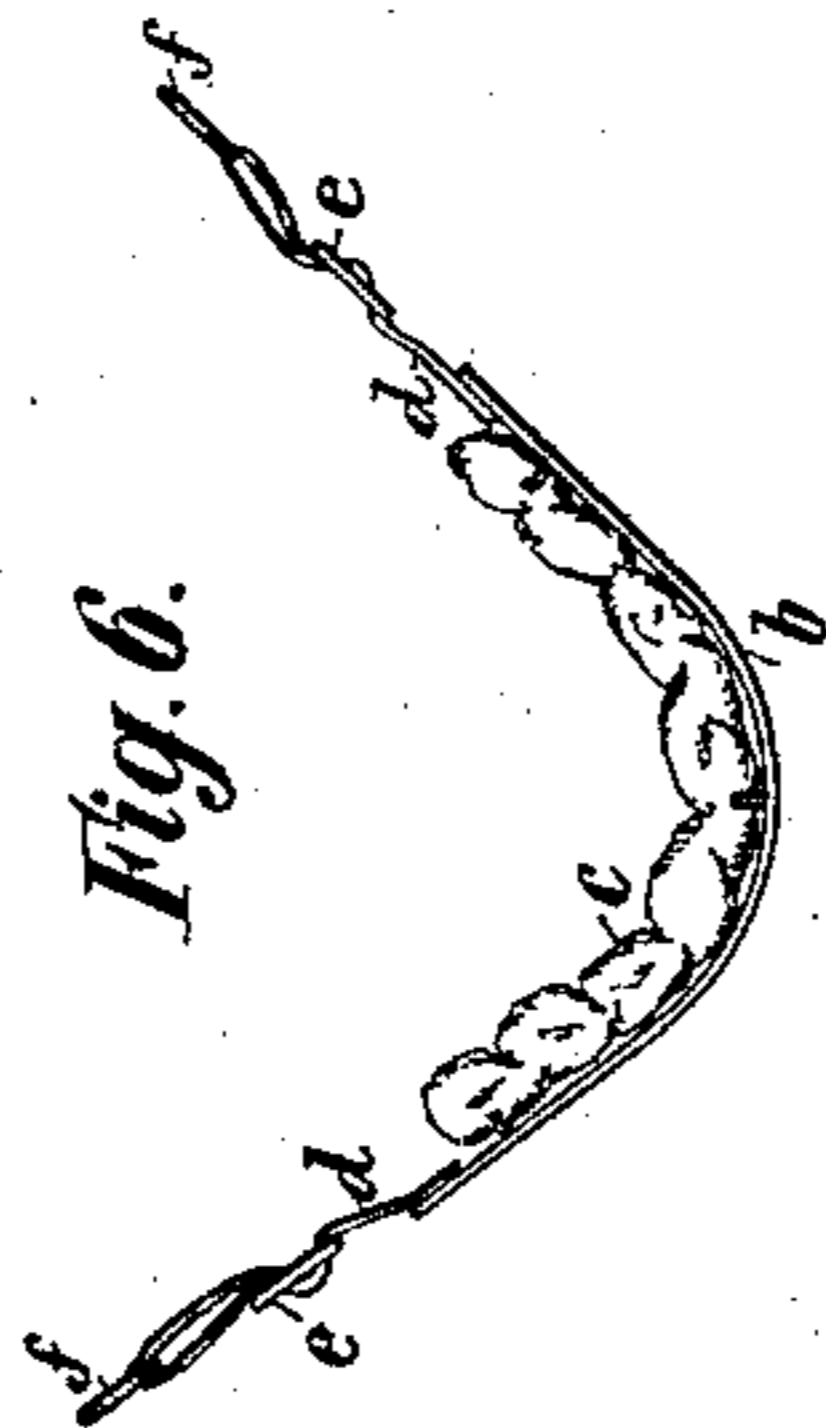


Fig. 5.



Fig. 4.

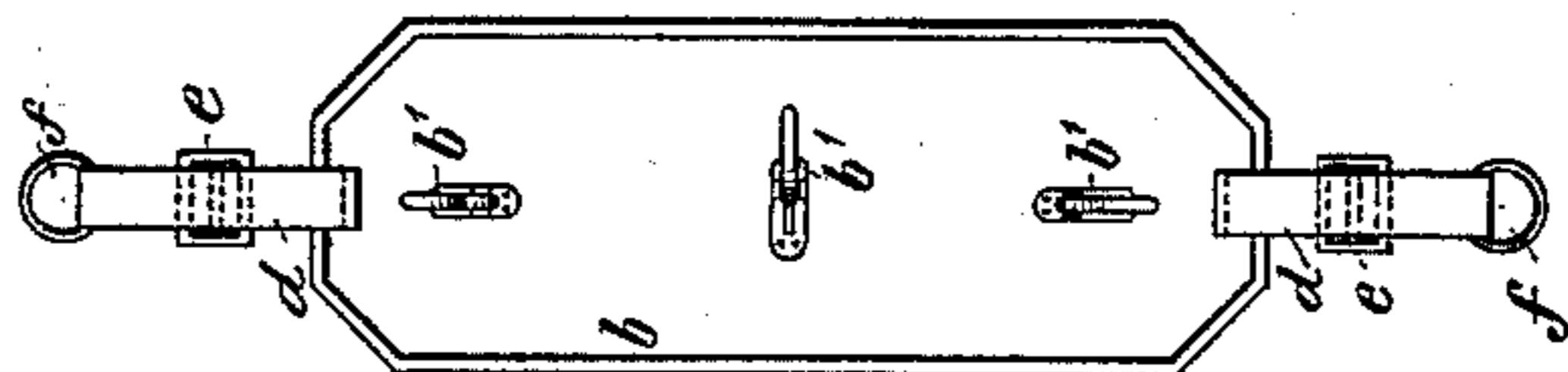


Fig. 2.

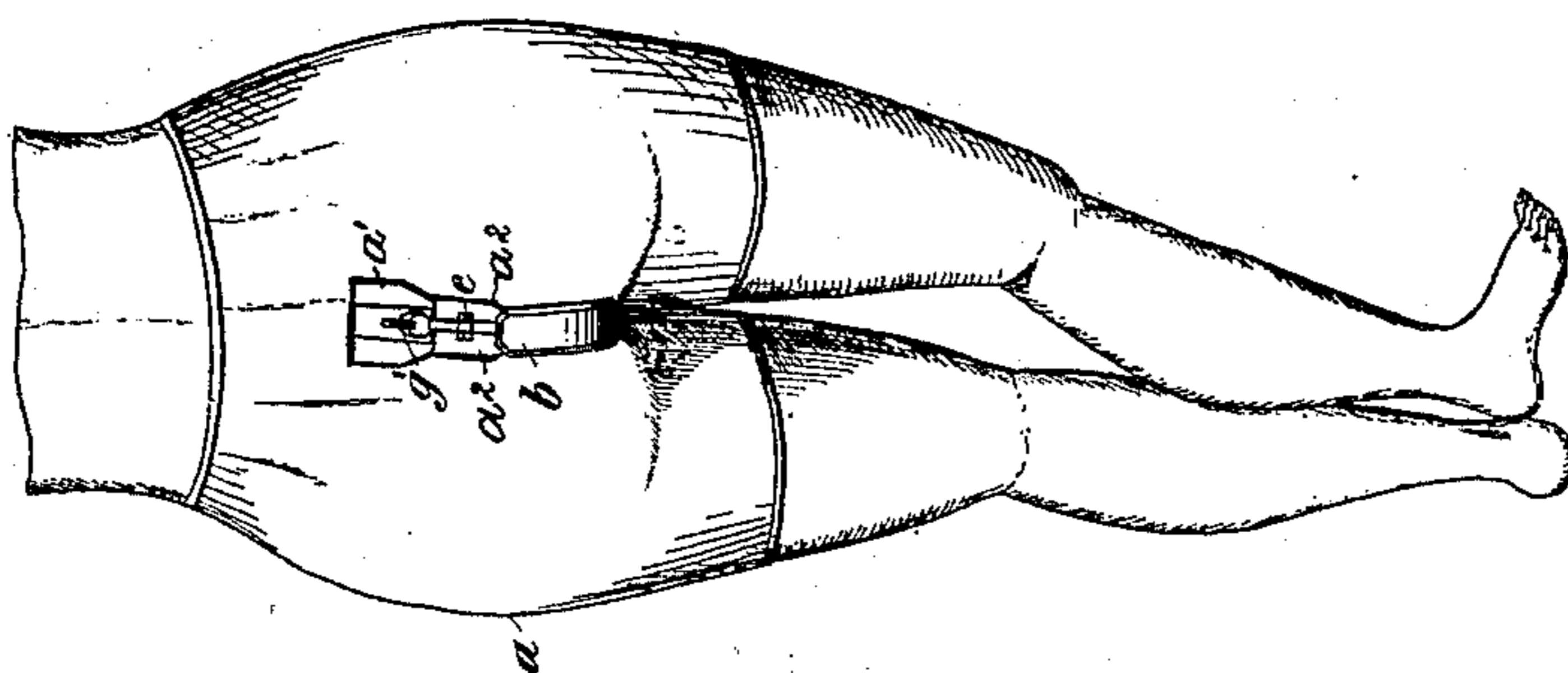
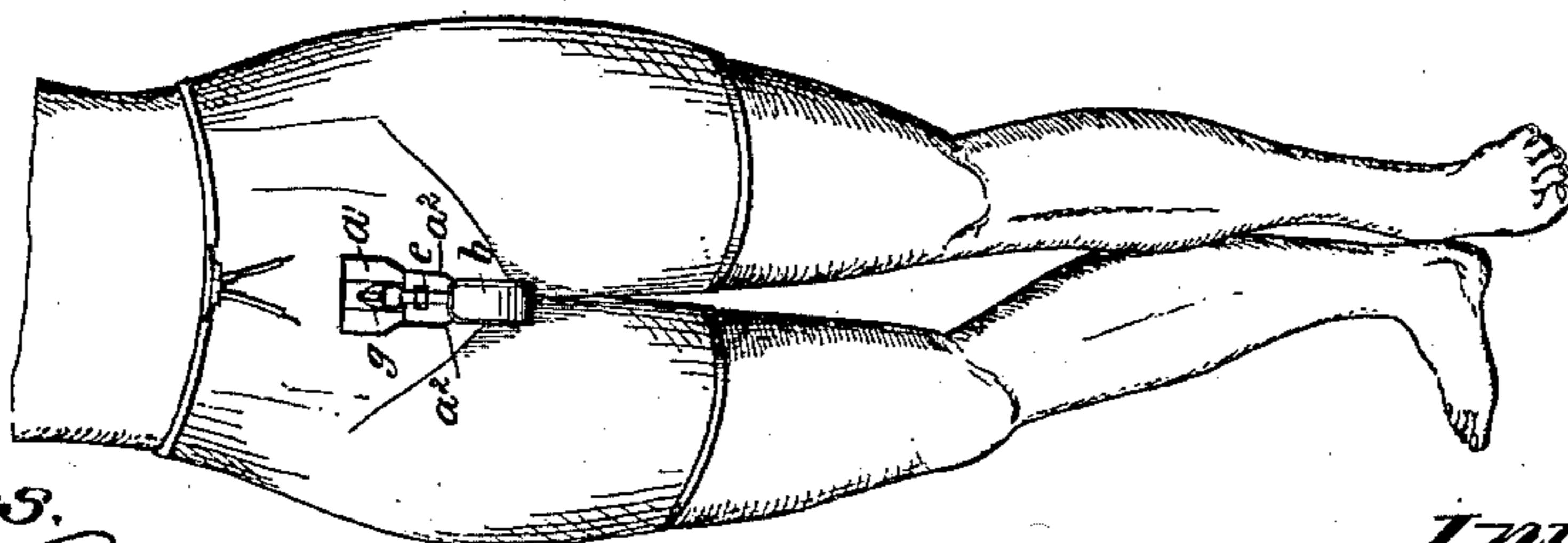


Fig. 1.



Witnesses.

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Inventor.

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# UNITED STATES PATENT OFFICE.

JONAS GROSSMANN, OF BERLIN, GERMANY.

## HYGIENIC BANDAGE.

SPECIFICATION forming part of Letters Patent No. 387,159, dated July 31, 1888.

Application filed February 4, 1888. Serial No. 262,969. (Model.)

*To all whom it may concern:*

Be it known that I, JONAS GROSSMAN, M. D., of the city of Berlin, in the Kingdom of Prussia and German Empire, have invented a certain new and useful Improvement in Hygienic Bandages, of which the following is a specification, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The invention relates to an improvement in hygienic bandages for women, and comprises two parts—that is to say, the “open” or ladies’ drawers and the bandage proper or pellet.

My said invention is illustrated in the accompanying drawings, in which—

Figure 1 is a front view of the drawers applied to the person; Fig. 2, a rear view of the same; Fig. 3, a front detail view of the drawers; Fig. 4, a detail plan view of the cushion or pad-supporting band; Fig. 5, a detail inside view of the cushion or pad, and Fig. 6 an edge view of the cushion or pad applied to its supporting-band.

The drawers *a* are made with a “patch” or piece of fabric, *a'*, inserted in front and behind between the two leg parts, as seen in Fig. 3 of the drawings, the said patch or inserted piece serving the double purpose of keeping the leg parts the proper distance from each other and of enabling the wearer to occupy any desired position without thereby being liable to tear the drawers at the joints of the leg parts. Moreover, the said inserted pieces will allow of extending the drawers in an upward direction, so that the same will likewise serve the purpose of keeping the lower part of the belly warm. The drawers are of the open style—that is, they are open at *a<sup>2</sup>* and for a short distance down the inside of each leg, and the front and rear patches *a'* are made so as to be less elastic than the material of the drawers. The front patch is provided with an attached hook or equivalent fastening device, *g*, and the rear patch is also provided with a similar hook or equivalent fastening, *g'*. These fastening-hooks are preferably of the elastic kind now generally employed as fastenings for gloves, for the purpose of connecting with the drawers *a* the said bandage proper or pellet. The latter consists of a band, *b*, of suitable fabric, Fig. 4, preferably rendered impervious to water and

carrying the cushion *c*, detachably connected with the fastening catches or hooks *b'* of the said band *b* by means of the eyes *b<sup>2</sup>*, the cushion *c* consisting of antiseptic wadding contained within a bag of gauze.

The band *b* is provided at each end with a rubber band, *d*, having an eye or ring, *f*, and allowing of being lengthened or shortened at will by means of the buckle *e*.

When it is intended to apply my improved hygienic bandage, the antiseptic cushion *c* is attached to the impervious band *b* by catching the eyes *b<sup>2</sup>* of the former upon the hooks *b'* of the latter, by which means the bandage proper or pellet is formed. This being done, one of the eyes *f* of the strip *b* is hooked upon the fastening-catch *g'* in the rear of the drawers *a*, which are then put on by the patient, whereupon the bandage proper or pellet is passed between the leg parts to the front, so that the other eye *f* of the said strip *b* may now be attached to the other fastening-hook, *g*, in the front part of the drawers. If required, the said pellet or bandage proper may be readily removed by separating the said front hook *g* from the front eye *f*, and will then be carried by the rear hook *g* only, and it may be readjusted easily and fastened in its former position by passing the front eye *f* over the elastic front hook *g* again.

The advantages obtained by the said improved hygienic bandage as compared with those heretofore employed are chiefly as follows: By the insertion of the pieces *a'* the leg parts are kept apart, so that the opening between the said leg parts is prevented from being drawn together while the drawers are stretched in being put on, which otherwise would take place and cause the said opening and its adjoining rims to underlie the cushion *c* and hold the latter out of contact with the body; but the effect of the said pieces *a'* is to cause the said opening to remain extended laterally, so as to afford plenty of room to the said cushion *c* or the bandage proper. Consequently the drawers cannot be soiled by dirt or secretion, and after an operation there cannot be any contact between the said drawers and the parts of the body under medical treatment. Moreover, the keeping apart of the leg parts of the drawers by means of the in-

serted patches *a'* will allow of readily and at any time passing the said pellet or bandage proper between the legs when the same is to be temporarily removed, and will prevent any lateral displacement of the said pellet or bandage while being worn. Lastly, by reason of the said arrangement the drawers *a* can be made to form a sash for keeping the lower part of the belly warm in connection with their office of forming part of a hygienic bandage. The arrangement described of the fastening-hook *b'* and eyes *b''* allows of readily composing, and that of the similar hooks, *g*, and eyes *f* of readily connecting and disconnecting the bandage proper or pellet, while the rubber bands *d* and buckles *e* allow of making the said pellet shorter or longer and to make the same available in a moment for persons of any size.

By the use of this improved hygienic bandage the complicated and expensive bandages hitherto employed after operations on the female sexual organs—the perinaeum and the

anus—may not only be dispensed with, but the said use will also allow of a better and easier inspection of the parts under medical treatment, and of a ready, quick, and cheap exchange of the soiled bandage proper or pellet for a fresh one.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a hygienic bandage, the combination of the ladies' open drawers having the front and rear patches *a'* inserted between the legs and front and rear fastenings or hooks, *g g'*, with the sustaining bandage or holder *b*, detachably engaging said hooks, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JONAS GROSSMANN.

Witnesses:

ROBERT R. SCHMIDT,  
A. D'HEUREUSE.