

No. 698,198.

Patented Apr. 22, 1902.

G. E. HILL.
TROUSERS SUPPORTER.

(Application filed Sept. 16, 1901.)

(No Model.)

Fig. 1.

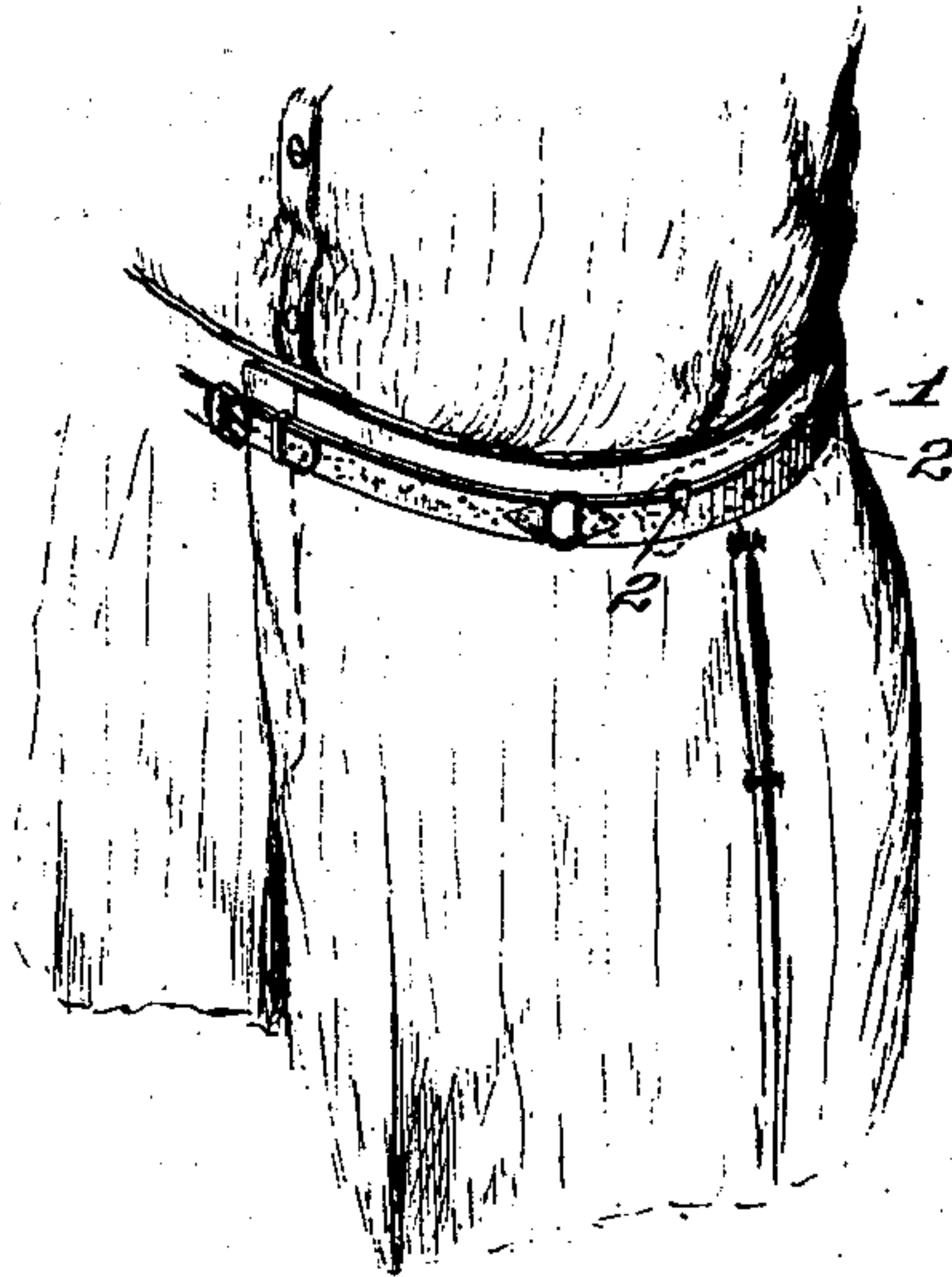


Fig. 2.

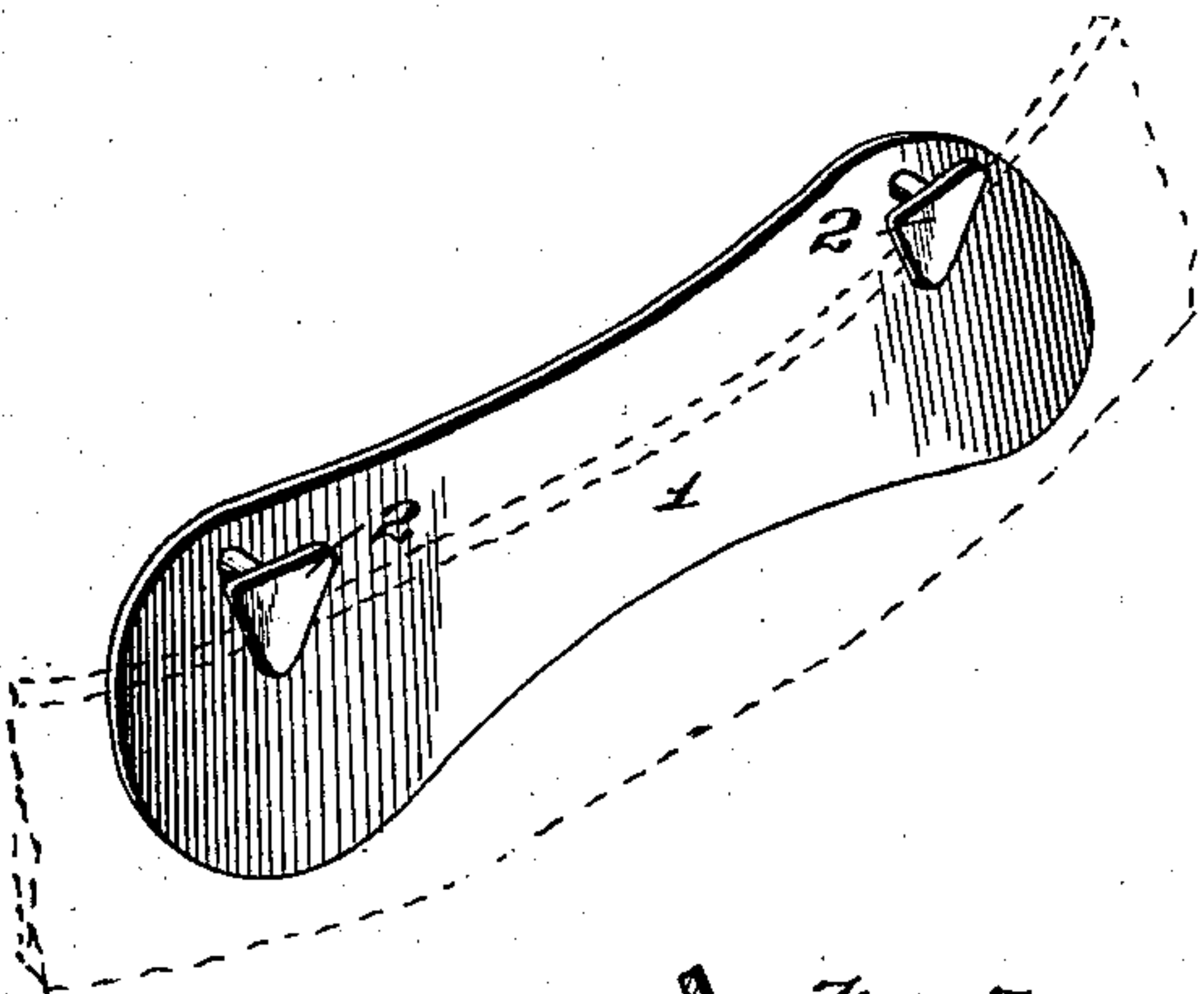


Fig. 3.

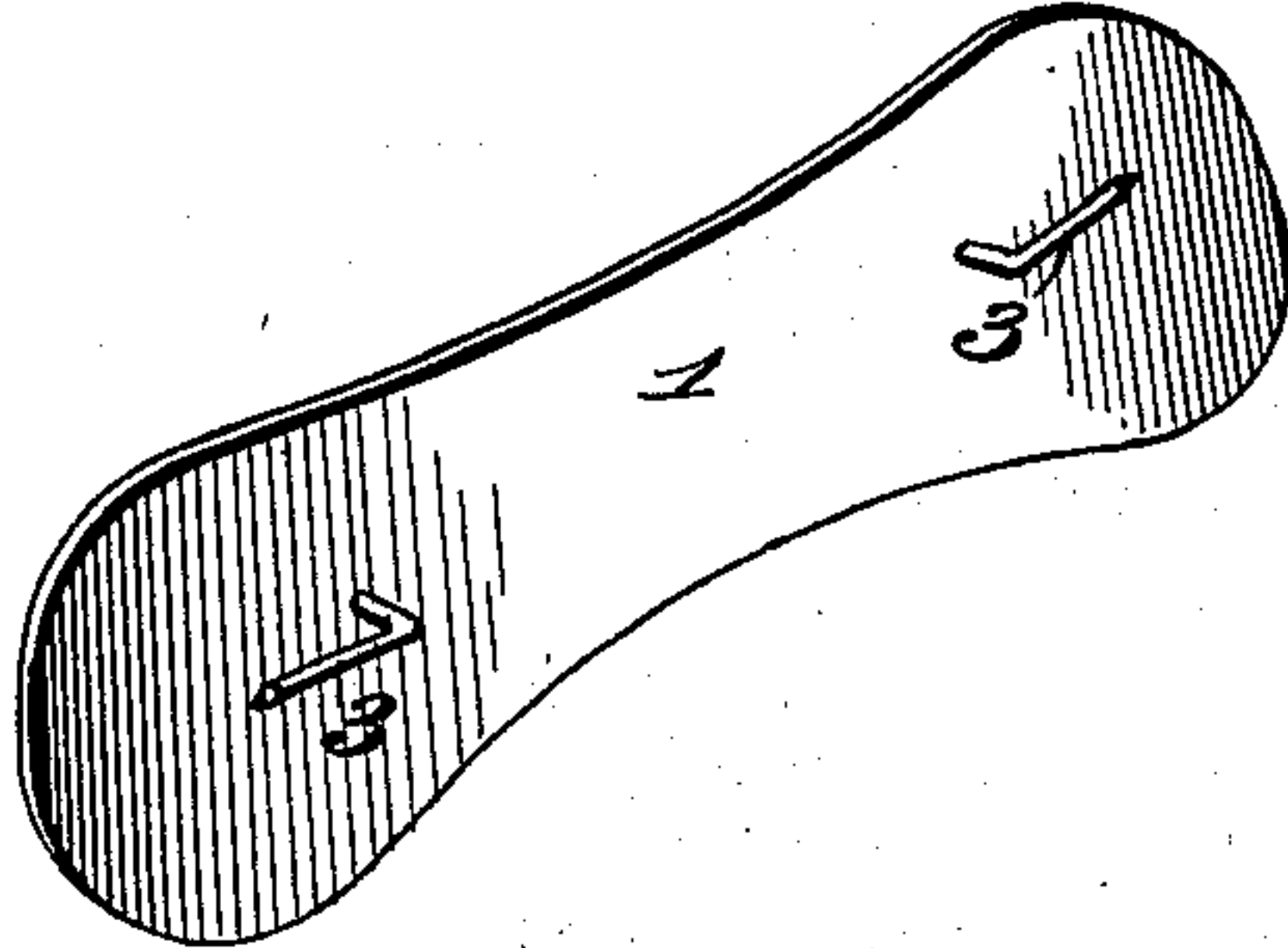


Fig. 5.

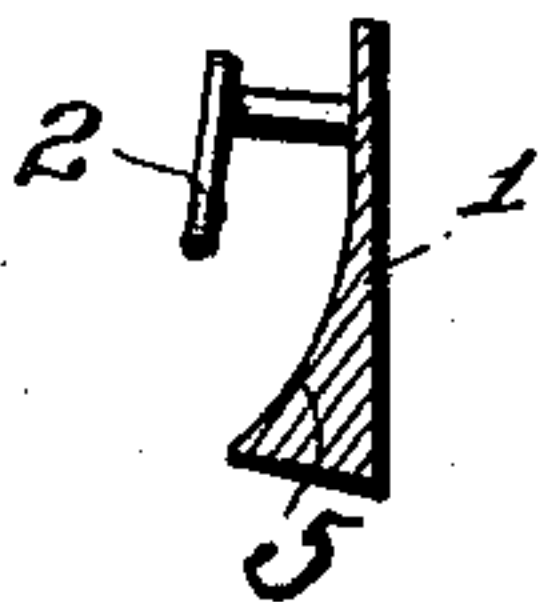


Fig. 7.



Fig. 4.

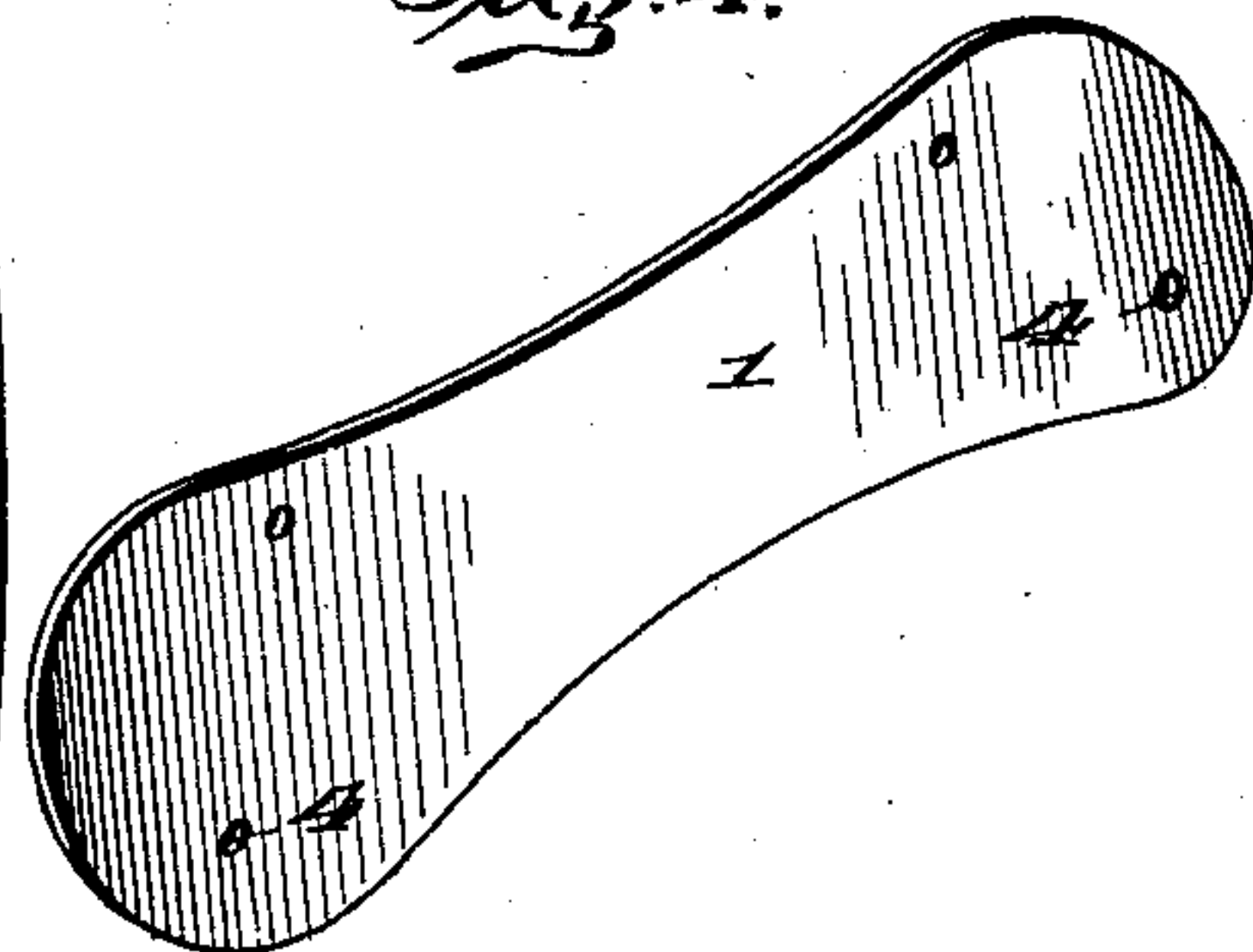
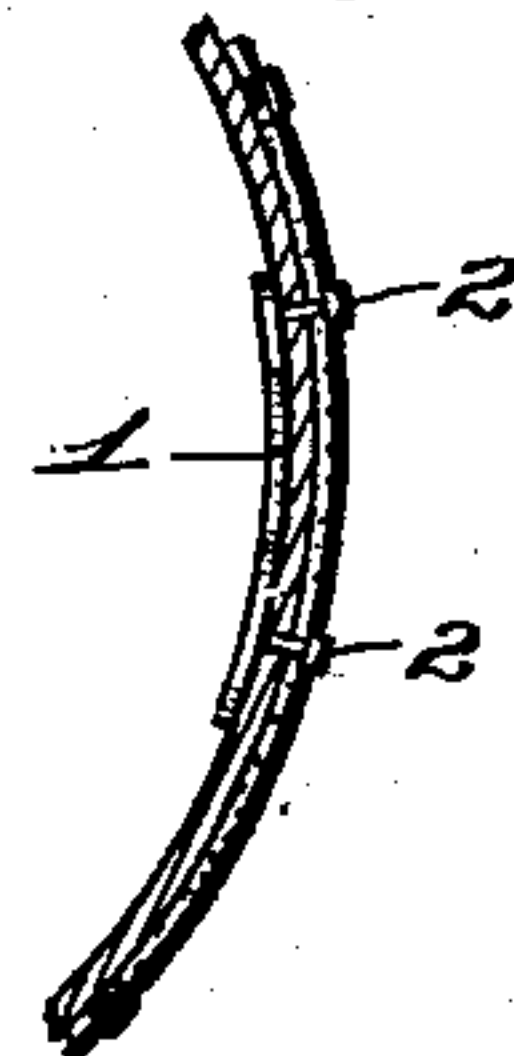


Fig. 6.



Witnesses

L. S. Handy

A. M. Meyner

Inventor

George E. Hill

By Mason Smith

Attorneys

UNITED STATES PATENT OFFICE.

GEORGE E. HILL, OF SCRANTON, PENNSYLVANIA.

TROUSERS-SUPPORTER.

SPECIFICATION forming part of Letters Patent No. 698,198, dated April 22, 1902.

Application filed September 16, 1901. Serial No. 75,538. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. HILL, a citizen of the United States, residing at Scranton, in the county of Lackawanna and State of Pennsylvania, have invented certain new and useful Improvements in Trousers-Supporters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a supporter for trousers; and it consists of two plates of thin hard material shaped to conform to the anatomy of a person at the hips, so that the plates when applied to the inside of a pair of trousers will rest in and fit snugly the concavity just above the pelvis and rest on and be supported by the upper edge of the pelvis, the plates being secured to the trousers in any suitable manner, so as to be hidden from view, and in addition to supporting the trousers without the aid of suspenders giving to the pants the proper shape at the waist-line and the proper fit and hang.

In the accompanying drawings, Figure 1 is a perspective view of a portion of a male figure, showing my improved trousers-supporter in position on the pants. Fig. 2 is a similar view of one of the plates, showing in dotted lines the relative position of a belt which can be worn with said supporter to give a finished appearance to the trousers at the waist-line. Fig. 3 is a similar view showing a modified means of securing the supporter to the trousers. Fig. 4 is a similar view showing another modified attaching means; and Fig. 5 is a vertical sectional view through a modified construction of one of the plates, the plate in this instance being thickened at its lower edge and curved on its inner face to receive the belt. Fig. 6 is a vertical section through a portion of a pair of trousers, showing one of the plates in position on the inside of the same and a belt in position on the outside of the trousers and its relation with respect to the supporter. Fig. 7 is a longitudinal section through a slightly-modified form of plate, showing the same thickened at one end as well as at its lower edge.

Many attempts have been made and are

still being made to provide a means of supporting a pair of trousers without the aid of suspenders and at the same time secure a neat appearance around the waist and without binding the wearer and causing other inconveniences and ill effects, but many of such attempts have proved unsuccessful. At least they have not come into general use.

I have devised a means whereby the use of suspenders can be dispensed with and at the same time the trousers will be given a natural fit at the waist-line without undue pressure upon the wearer and without the use of elastic or spring means and without changing the construction of the trousers except to the extent of the means provided for securing the supporter in place, the supporter at all times being hid from view. To accomplish this object, I provide two thin hard plates 1, of any suitable material—such as metal, hard rubber, celluloid, and the like—which are carefully shaped to conform to the anatomy of the body at the hips, so that they will rest snugly on and press gently on the inside of the crest of the ilium or pelvis bone and be supported thereby. These plates will be made in different sizes for men and boys of different ages, as it is very important that the proper sized and shaped plates should always be employed. Two of these plates are employed with each pair of trousers, said plates being secured to the inside of the same at the waist-line and at the sides thereof, as shown in Fig. 1, so that when the trousers are in position upon the wearer the plates will occupy the position on the hips just above described. The plates can be secured to the trousers in several different ways, as by the use of headed pins or buttons 2, as shown in Fig. 2, or by means of bent pins or hooks 3, as shown in Fig. 3, or by sewing through holes 4, as shown in Fig. 4.

In applying the construction of securing means 2, as shown in Fig. 2, the trousers will be provided with buttonholes for the passage of the heads of said securing means, the heads being passed through the buttonholes from the inside of the trousers and only the head being exposed to view. These heads being neat in their appearance do not detract from the appearance of the trousers, and by this

construction and arrangement the plates are not only rendered removable, which is very important, but a means is provided for receiving the upper edge of a belt, which belt ; assists in holding up the trousers and also giving a finished appearance to the same at the waist-line.

The construction of plates shown in Fig. 3 is applied to the trousers in the same manner 10 as that shown in Fig. 2, except instead of buttonholes being provided eyelets may be employed. With this construction the plates may be removed.

The construction of plate shown in Fig. 4 15 can be readily secured to the trousers by sewing through the apertures 4, the plate being removable by severing the stitches.

It will be observed that with my construction of trousers-supporters the same can be 20 applied to trousers without changing the construction of the latter and that the trousers can be sewed in the first instance with the plates in position on the same, or the plates can be afterward applied thereto.

25 In Fig. 5 I have illustrated a slightly-modified construction, in which the plate is thickened at its lower edge, as at 5, and the surface of the plate which comes next to the inner face of the trousers slightly concaved. 30 This is a particularly good construction for stout men, as by the use of the same the pressure of the pants and the belt will force the thickened portion somewhat inward on the body, but without any injurious effect, and 35 thus aid in supporting the trousers, and the concaved portion will form a seat for the trousers and the belt and make a closer fit and give a neat appearance to the trousers and tend to press the plate more snugly against 40 the body.

In Fig. 7 I have shown another slightly-modified form of construction, in which the plate is thickened at one end, as at 6—that is, at its front end, which is farthest away 45 from the spine and which comes over the pelvis-bone when said plate is in position—said thickened portion being gradually reduced toward its rear end or the end nearest the spine, so that the pressure of the pants and 50 belt upon the plate will cause the thickened portion to bear against or in the concavity above the pelvis. This construction of plate is also thickened at its lower edge, as at 7, similar to the manner shown in Fig. 5 and 55 for the same purpose—namely, to facilitate the plate forming a better support for the trousers by pressure of the trousers and belt upon the thickened portion against the body above the upper edge of the pelvis-bone.

60 Having now fully described my invention,

what I claim as new, and desire to secure by Letters Patent, is—

1. A trousers-supporter consisting of two thin hard plates of suitable material shaped to conform to the anatomy of a person at the 65 hips so as to fit snugly and rest thereon, said plates being applied to the inside of a pair of trousers at about the waist-line, substantially as described.

2. A trousers-supporter consisting of two 70 thin hard plates of suitable material curved to conform to the anatomy of a person at the hips so as to fit snugly and rest thereon, said plates being removably applied to the inside of a pair of trousers at about the waist-line, 75 substantially as described.

3. The combination with a pair of trousers of a pair of plates applied to the inside thereof at or near the waist-line so that when said trousers are in position on the wearer the 80 plates will rest upon and be supported by the hips, said plates being made of the shape and size to conform to the anatomy of the body at these points, and said plates being provided with headed projections which ex- 85 tend through the trousers from the inside and project from said trousers so as to receive the upper edge of a belt beneath the same, substantially as described.

4. As a product of manufacture a supporting-plate for a pair of trousers constructed 90 from a single piece of hard material and shaped to conform to the anatomy of a person at the hips, the said plate being thickened on its lower edge and provided with 95 means for attaching it to the inside of a pair of trousers, substantially as described.

5. As a product of manufacture, a supporting-plate for a pair of trousers constructed 100 from a single piece of thin hard material, and shaped to conform to the anatomy of a person at the hips, the said plate being thickened at its lower edge and concaved on its face which comes next to the inner surface of a pair of trousers when applied thereto, 105 substantially as described.

6. As a new article of manufacture, a supporting-plate for a pair of trousers, constructed from a single piece of thin hard material and shaped to conform substantially to 110 the anatomy of a person at the hips, the said plate being thickened at its forward end and also at its lower edge, substantially as described.

In testimony whereof I hereunto affix my 115 signature in presence of two witnesses.

GEORGE E. HILL.

Witnesses:

M. A. BECKER,

JNO. N. HETRICK.