

(Specimens.)

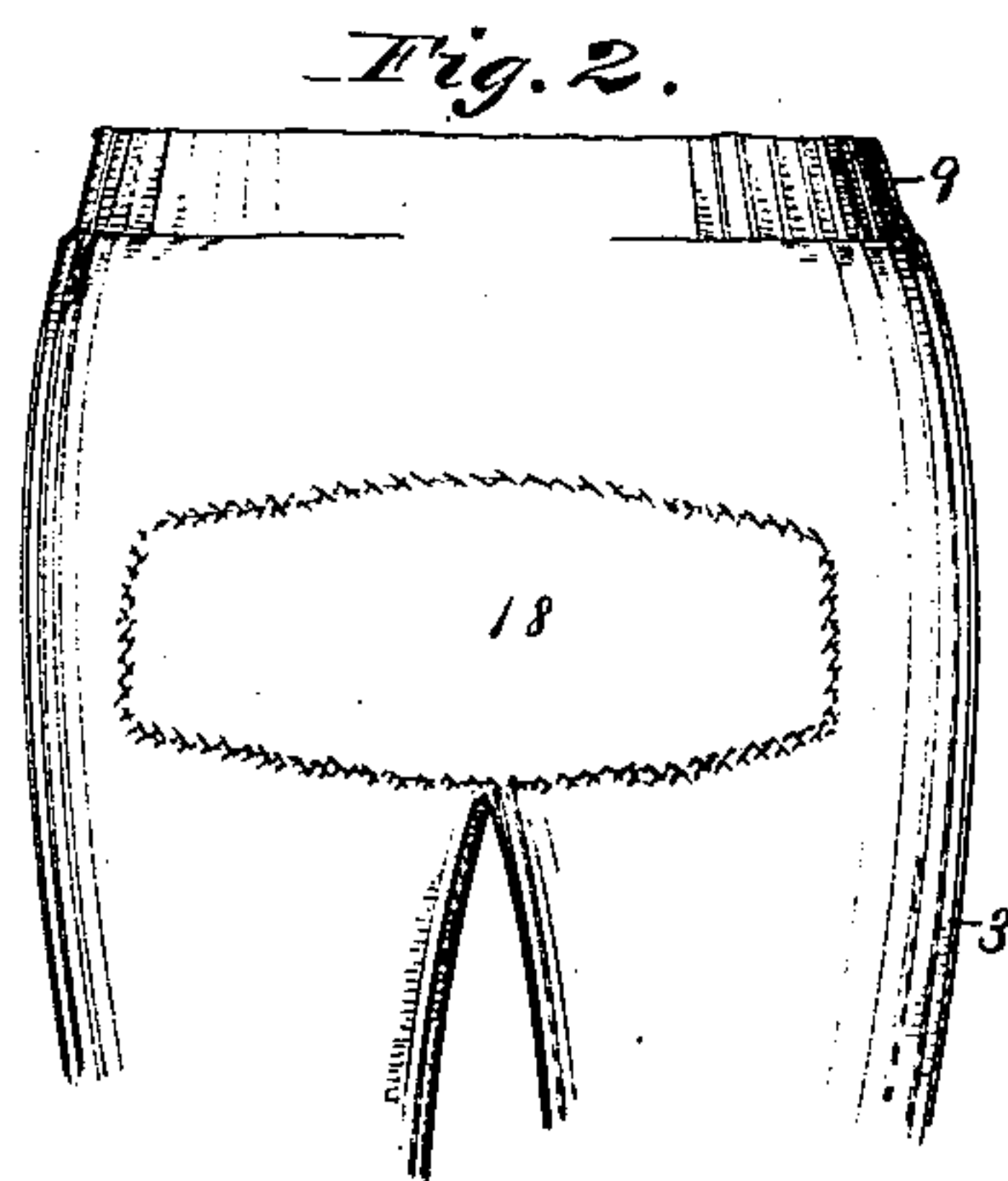
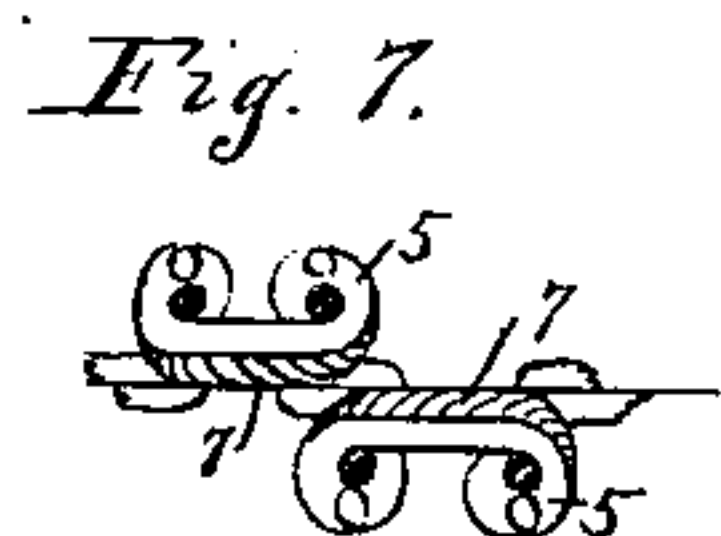
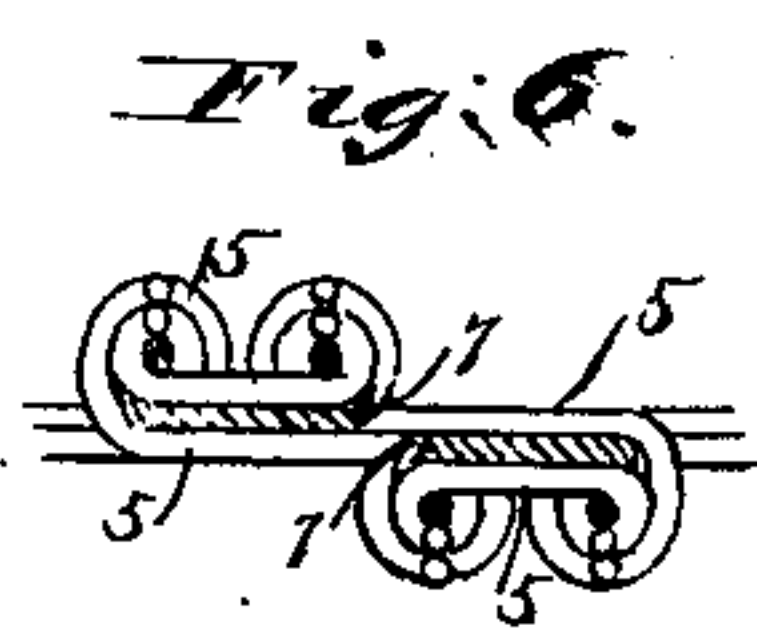
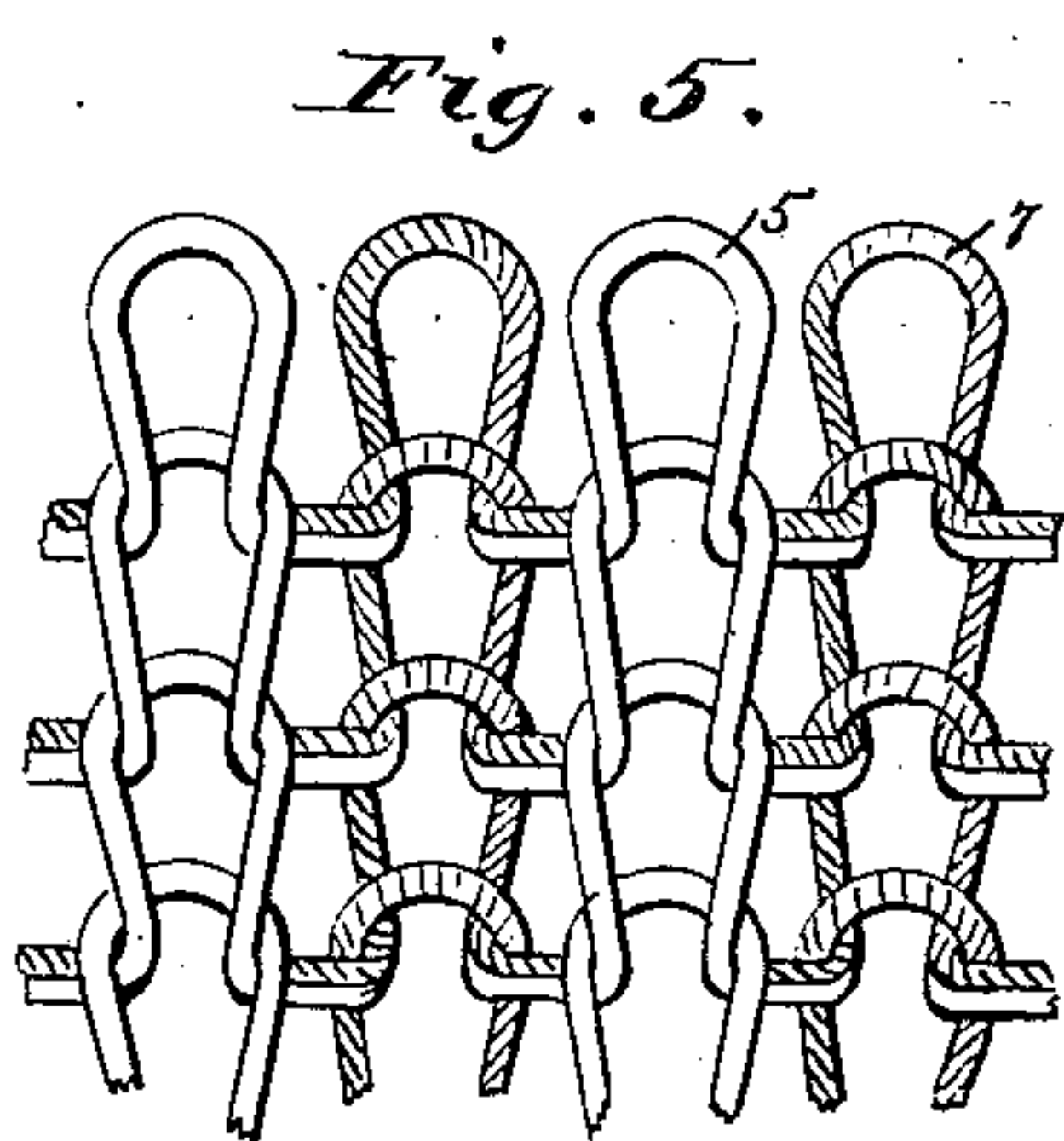
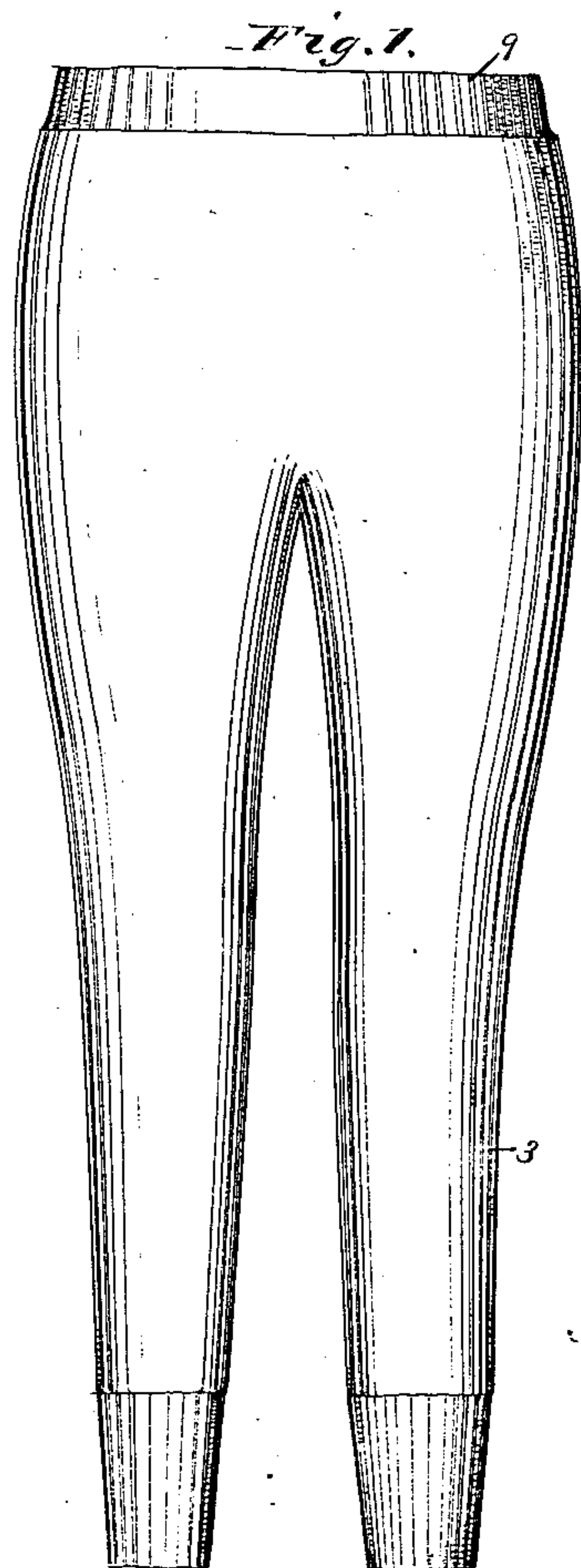
2 Sheets—Sheet 1.

G. D. MUNSING.

KNIT DRAWERS.

No. 391,007.

Patented Oct. 9, 1888.



Witnesses,
A. M. Gaskell.
S. J. Beardslee.

Inventor
George D. Munsing
By A. Paul, atty.

(Specimens.)

2 Sheets—Sheet 2.

G. D. MUNSING.

KNIT DRAWERS.

No. 391,007.

Patented Oct. 9, 1888.

Fig. 3.

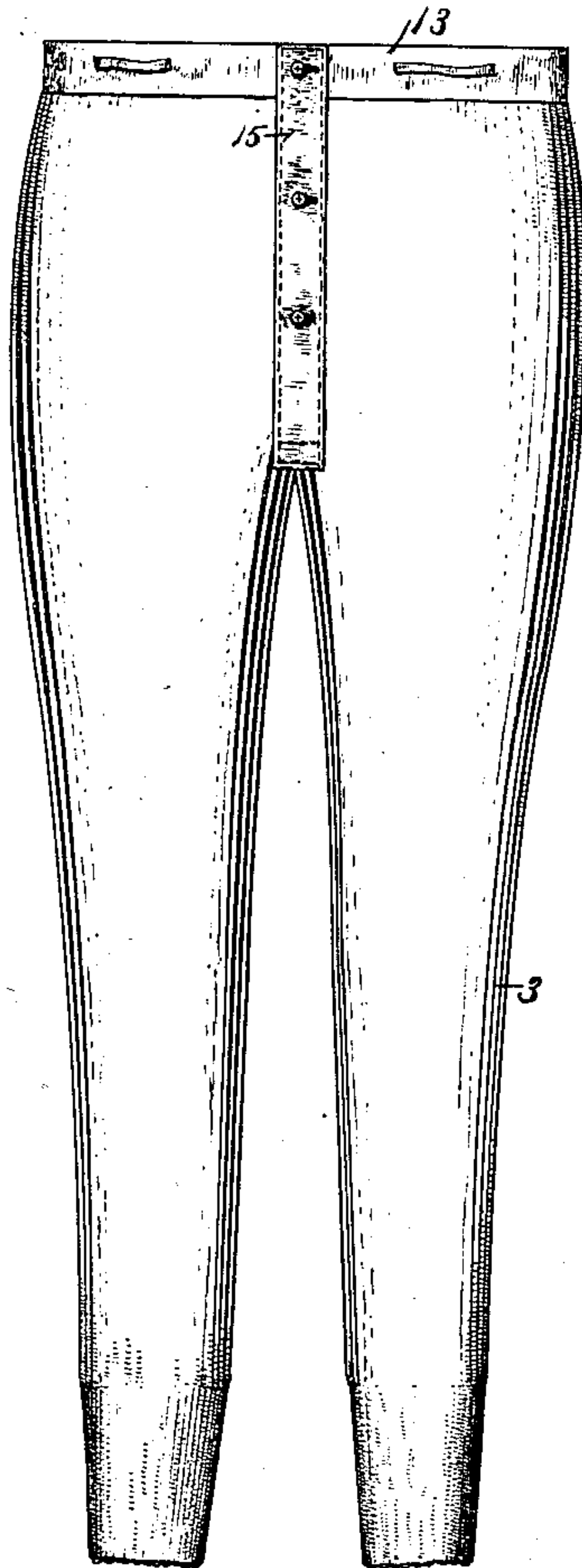
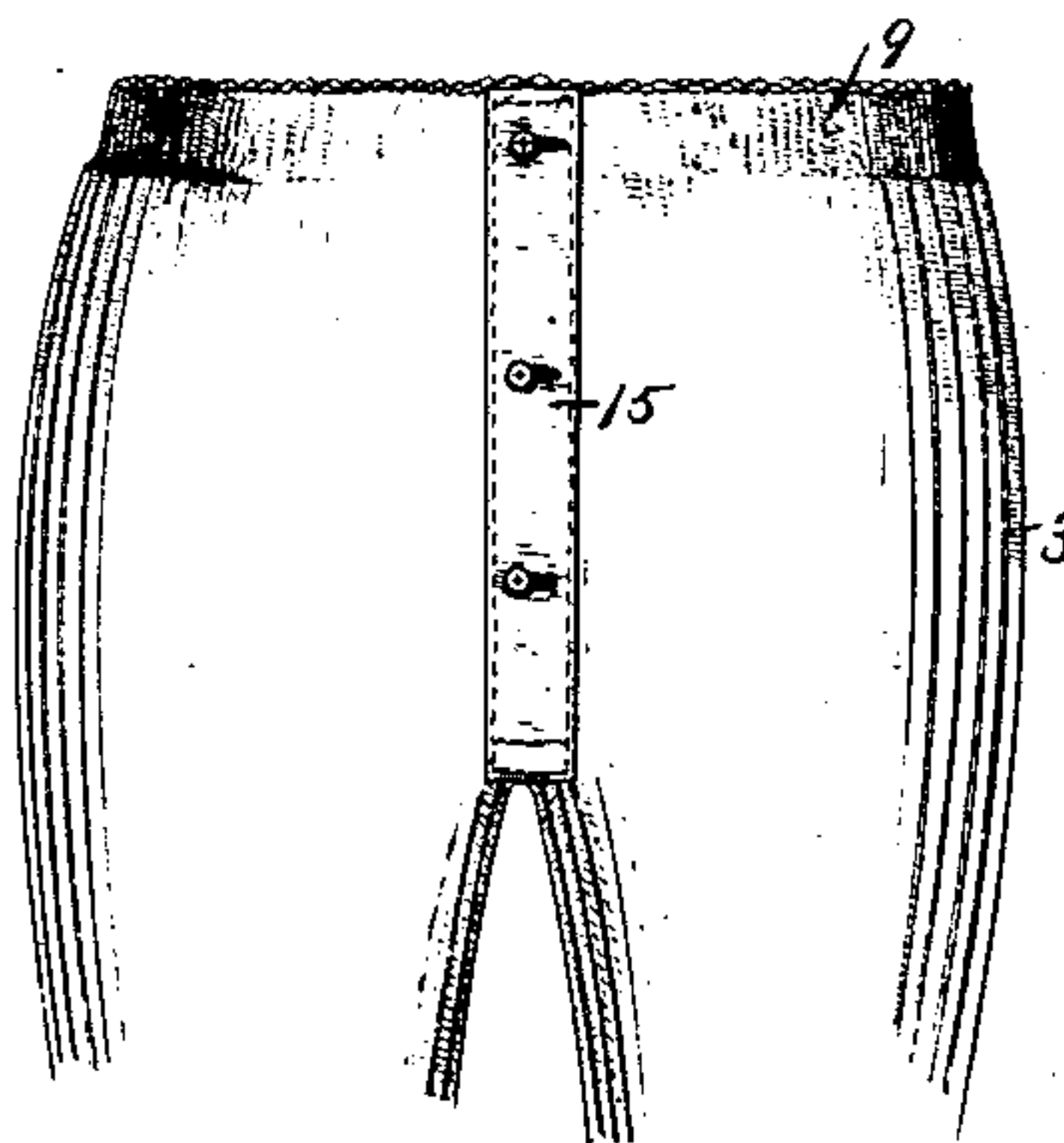


Fig. 4.



Witnesses.
A. M. Gaskell.
S. J. Beardslee.

Inventor.

George D. Munsing.

By A. C. Paul atty.

UNITED STATES PATENT OFFICE.

GEORGE D. MUNSING, OF MINNEAPOLIS, MINNESOTA.

KNIT DRAWERS.

SPECIFICATION forming part of Letters Patent No. 391,007, dated October 9, 1888.

Application filed June 7, 1887. Serial No. 240,497. (Specimens.)

To all whom it may concern:

Be it known that I, GEORGE D. MUNSING, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain Improvements in Knit Drawers, of which the following is a specification.

This invention relates particularly to improvements in drawers; and the objects I have in view are to produce garments of this kind of superior quality and finish that shall be durable, that will not shrink, that will fit closely to the body of the wearer, and that shall be elastic but sufficiently firm to retain their shape even after they have been worn for a considerable period of time.

Other objects of the invention will appear from the following detailed description taken in connection with the accompanying drawings, in which—

Figure 1 is a front elevation of a pair of gentlemen's drawers made in accordance with my invention. Fig. 2 is a rear view of a portion of the same. Fig. 3 is a view similar to Fig. 1, but showing the drawers provided with a fly and with a non-elastic waistband. Fig. 4 is a front view of a portion of the same, but showing an elastic waistband. Figs. 5, 6, 7, and 8 are details showing the arrangement of the threads.

The garment is formed of a ribbed jersey fabric composed of two threads of different grades or qualities, as silk and wool, knit together with the thread of superior quality lying over the other on the tops of the ribs and passing through the fabric from the top of the ribs on one side to the top of the ribs on the other side. The garment thus formed is very attractive in appearance, resembling closely a garment formed entirely of the superior quality of thread. It is sufficiently elastic to conform readily to the shape of the wearer, while it is firm enough to prevent its being permanently stretched and drawn out of its normal shape. As soon as the garment is removed from the body of the wearer it returns to its original shape.

I prefer to form the main part of the garment of a "one-and-one" rib fabric, 3, as shown in the several figures of the drawings. This one-and-one-rib fabric is composed of two threads, preferably one of silk and one of wool. In

the detail drawings, 5 represents the silk thread and 7 the woolen thread. The silk thread lies outside of the woolen thread and passes from the top of each rib on one side of the fabric through to the top of the next rib on the opposite side of the fabric. The body portion of the drawers is preferably made continuous, (that is, without any fly,) as shown in Figs. 1 and 2. In this instance I prefer to provide the drawers with a continuous waistband, 9, of a similar fabric, but more elastic than the main part of the drawers. The body and leg portions of the drawers being formed of a one-and-one-rib fabric, the waistband is formed of a "two-and-two" rib fabric, composed, however, of two threads arranged in the manner described. This waistband is more elastic than the other parts of the garment; but being formed of the two threads, arranged as described, the ribs are sufficiently firm to contract to their original form as soon as the stress that has distended them is removed. The drawers are, as will be seen, without buttons or straps. The body portion is sufficiently elastic to pass over the hips of the wearer, and the waistband, being more elastic than the other part, will draw closely around the body above the hips and hold the garment in place.

As shown in Fig. 1, the waistband is preferably formed integrally with the body portion of the garment and of the same width of web, but as a two-and-two-rib fabric, such as shown in Fig. 8, instead of a one-and-one. The two-and-two-rib fabric of the same width on the machine will normally be much narrower than the one-and-one rib, and hence this waistband will draw more closely to the body of the wearer, while it is at the same time capable of being distended to a greater extent. In some instances the drawers may be formed with an ordinary waistband, 13, and a fly, 15, as shown in Fig. 3, or with the two-and-two-rib waistband and a fly, 15, as shown in Fig. 4.

The bottoms of the legs are in each instance preferably formed of a two-and-two-rib fabric, as shown in Figs. 1 and 3, which is made integrally with the one-and-one-rib fabric of the legs in the manner already described for making the waistband.

In order to strengthen the garment in the

seat at the part where it will be subjected to the most wear, I introduce one or more extra threads into this part of the fabric, knitting the three or more threads together, as shown in Fig. 6. In this way a part, 18, of the garment is made thicker and heavier than the other parts without making any difference in the appearance of it. As shown in Fig. 6, this portion of the garment is composed of one woolen thread, 7, and two silk threads, 55.

The main portion of the garment may be formed as a two and two-rib fabric, in which case the bottoms of the legs and the waistband will preferably be formed as a similar fabric, but of a different degree of elasticity.

I make no claim herein, broadly, to the fabric shown and described, as I have claimed the same in a prior application for patent, Serial No. 231,630, filed March 21, 1887; but

What I do claim, and desire to secure by Letters Patent, is—

1. The herein-described knit drawers having the legs and body portion formed of a one-and-one-rib fabric, with a continuous waistband of a two-and-two-rib fabric, substantially as described.

2. The herein-described knit drawers having the legs and body portion formed of a one-and-one-rib fabric composed of two threads of dif-

ferent grades or qualities knit together, with the thread of superior quality lying over the other on the tops of the ribs and passing through from the top of one rib to the top of the next rib on the other side, and having the bottoms of the legs formed of a two-and-two-rib fabric, also composed of two threads of different grades or qualities, substantially as described.

3. The herein-described knit drawers formed of a ribbed jersey fabric composed of threads of different grades or qualities, arranged as described, and having the waistband and bottoms of the legs of a similar fabric of greater elasticity than the other parts of the drawers, substantially as described.

4. The herein-described knit drawers formed of a ribbed jersey fabric of two threads of different grades or qualities, arranged as described, and having a portion thereof formed of three or more threads, substantially as described.

In testimony whereof I have hereunto set my hand this 28th day of May, 1887.

GEORGE D. MUNSING.

In presence of—

A. C. PAUL,

A. M. GASKELL.