

No. 752,925.

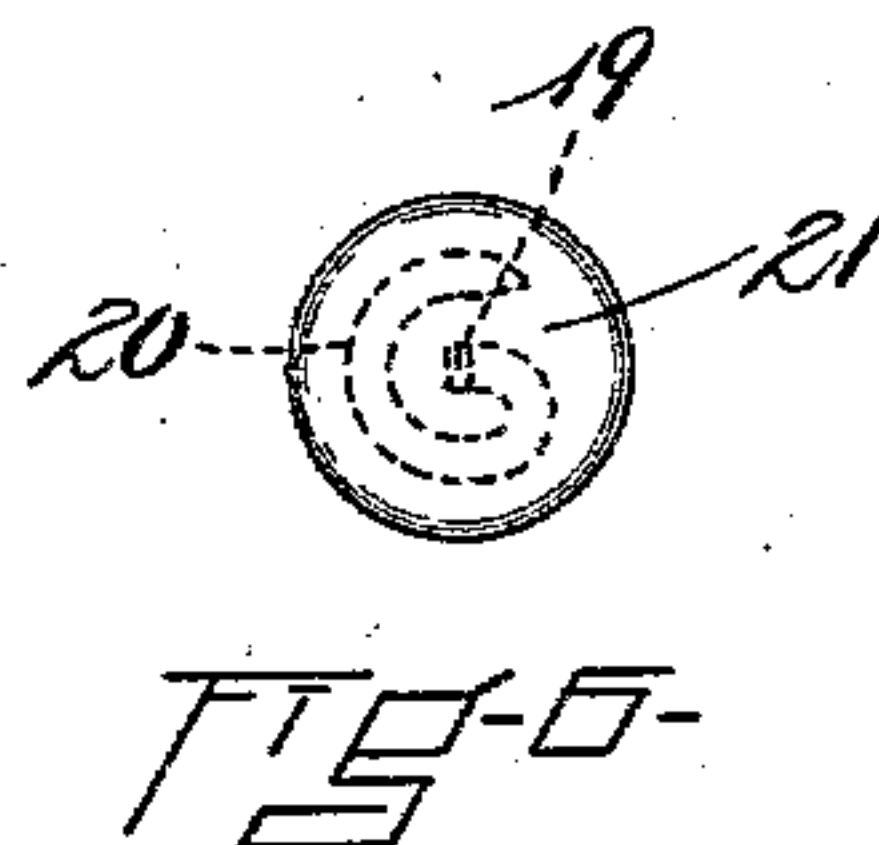
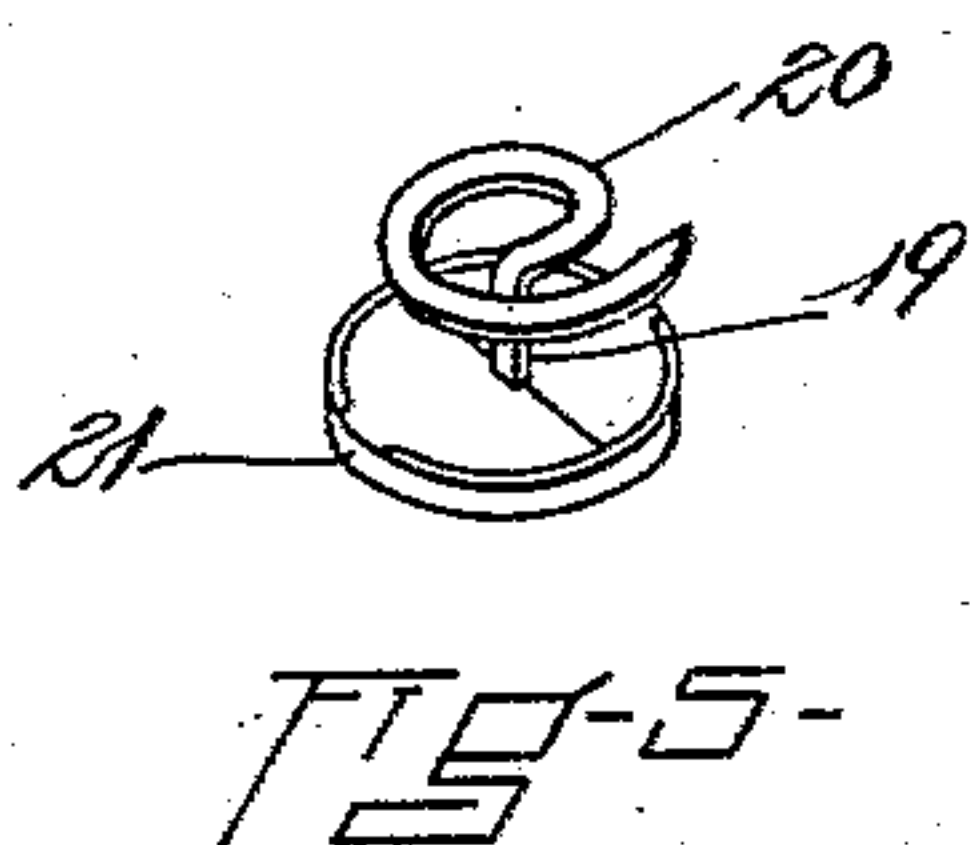
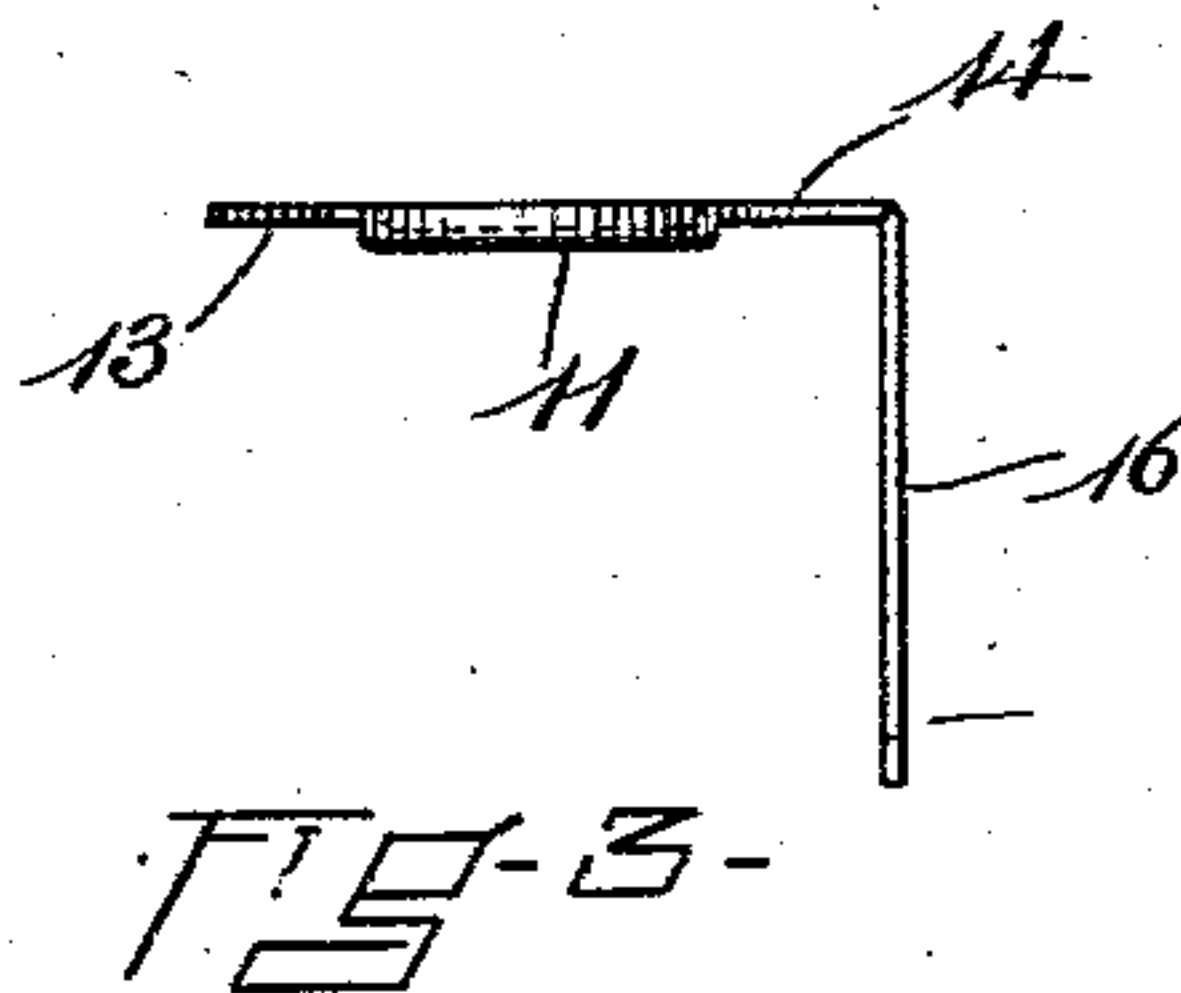
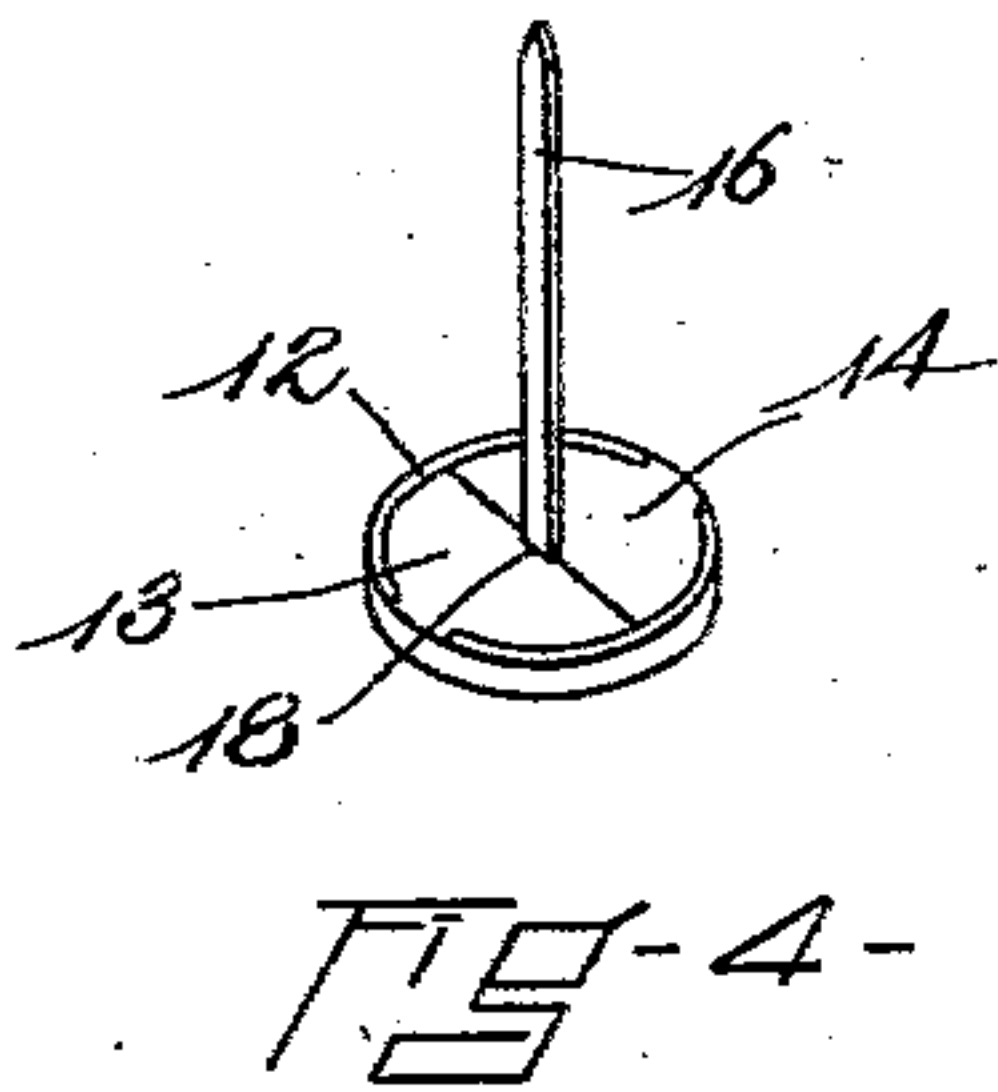
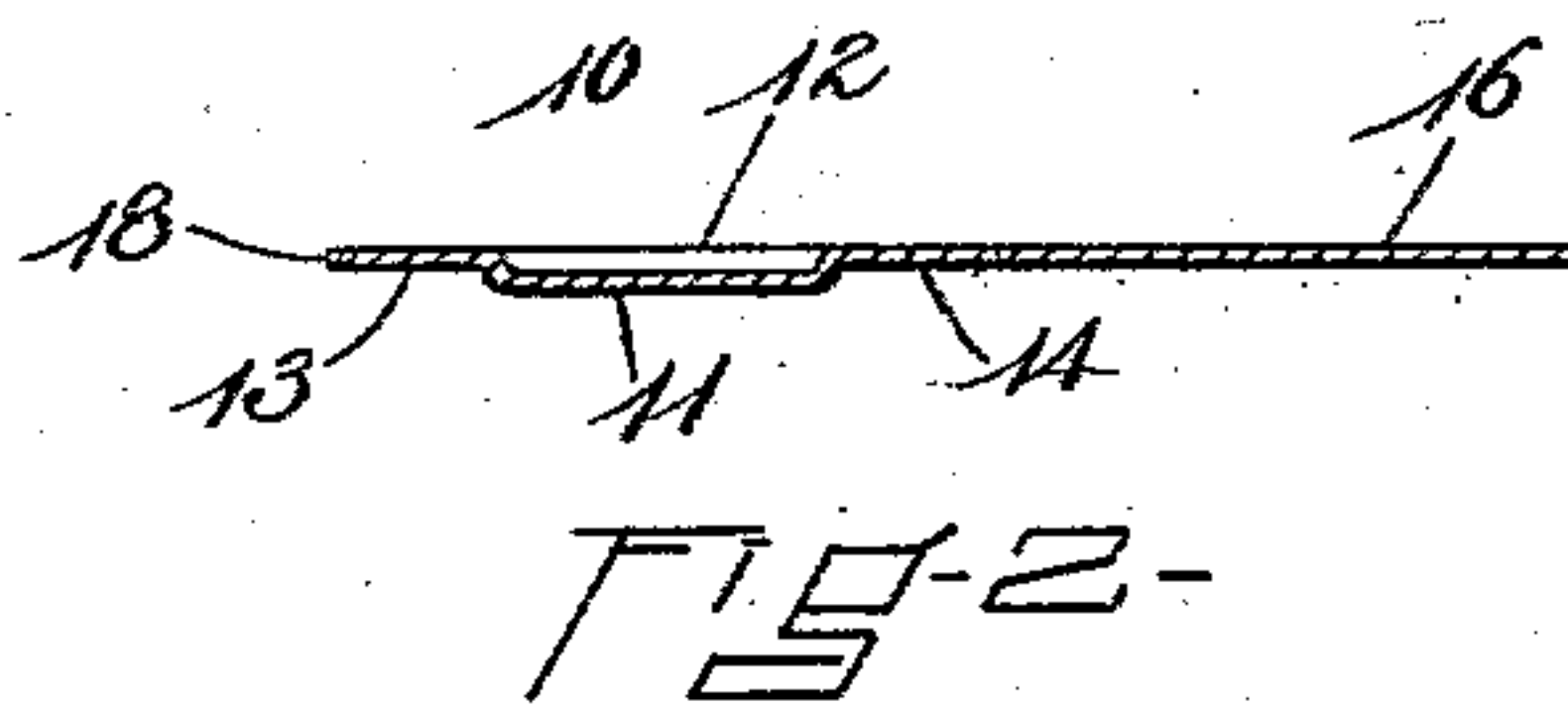
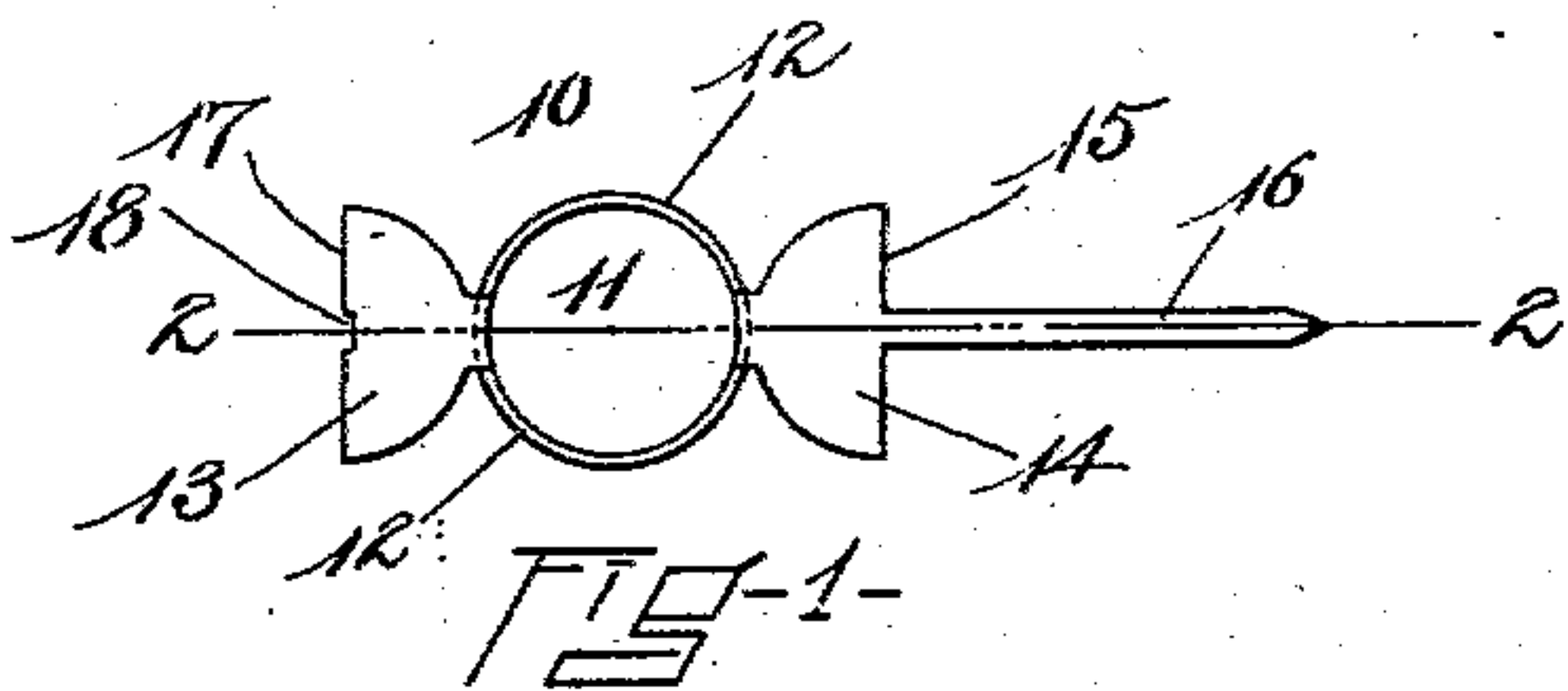
PATENTED FEB. 23, 1904.

M. B. RYAN.

BUTTON.

APPLICATION FILED FEB. 13, 1903.

NO MODEL.



WITNESSES:
Franklin E. Low.
Sydney C. Taft.

INVENTOR:
Michael B. Ryan.
by his Attorney, Charles S. Fording.

UNITED STATES PATENT OFFICE.

MICHAEL B. RYAN, OF BOSTON, MASSACHUSETTS.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 752,925, dated February 23, 1904.

Application filed February 13, 1903. Serial No. 143,238. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL B. RYAN, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Buttons, of which the following is a specification.

The object of this invention is to provide a button which may be readily attached to or detached from clothing, boots and shoes, or the like.

The invention consists in a button formed and constructed as described in the following specification, and particularly set forth in the claims thereof.

Referring to the drawings, Figure 1 is a plan view of the blank from which my improved button is formed. Fig. 2 is a longitudinal section taken on line 2 2 of Fig. 1. Fig. 3 is a side elevation of the blank shown in Figs. 1 and 2 with the prong bent at right angles to the main portion of the blank. Fig. 4 is a perspective view of the button-head and the prong before said prong is bent to form a shank and foot. Fig. 5 is a perspective view of the completed button inverted. Fig. 6 is a top plan view of the button.

In the drawings, 10 is a blank of sheet metal from which my improved button is formed. Said blank consists of a circular central portion 11, formed with a rim 12 integral therewith and having two semicircular portions 13 and 14 joined to said rim 12 at diametrically opposite sides thereof, the curved portion of said semicircular portions being attached to said rim. The straight side 15 of the semicircular portion 14 has a prong 16 integral therewith and extending at right angles therefrom. The straight side 17 of the semicircular portion 13 has a notch 18 therein to receive the prong 16 when the button is completed, as hereinafter described.

In forming the button from the blank 10 the prong 16 is bent at right angles to the main body of the blank, as shown in Fig. 3. The two sides of the two semicircular portions 13 and 14 are then folded over toward each other and against the central portion 11, as shown in Fig. 4. The prong 16 is then bent at right angles to the shank portion 19 and

coiled to form a spiral foot 20, the completed button consisting of a head 21, a shank 19, and a spiral foot 20, the convolutions of said spiral foot lying in a single plane at right angles to said shank. The semicircular portions 13 and 14, as hereinbefore described, are folded over toward each other and against the central portion 11, as shown in Fig. 4, and together fill the space encircled by the annular rim 12. The object of said semicircular portions is to form a finish for the under side of the button and also to lend strength thereto. The semicircular portion 14, lying within the recess surrounded by the annular rim 12, acts as a brace to prevent the lateral displacement of the shank 19 and the spiral foot 20 integral therewith. Said portion 14, therefore, in addition to forming a finish for the under side of the button performs the additional function of a lateral brace for the shank of the button. It will therefore be seen and understood that the portion 14 acts as a reinforcing portion integral with and bearing against the inner side of the annular rim 12, the shank extending at right angles from said reinforcing portion and terminating in a spiral foot whose convolutions lie in a single plane at right angles to said shank.

The advantages secured by my improved button are that it may be quickly and cheaply manufactured, that it is strong and durable in construction, and very easy to attach to any article of wearing-apparel and has a flat spiral foot which occupies a very small space between two thicknesses of material in proportion to its strength.

In carrying my invention into practical use the pointed end of the spiral foot 20 is inserted through the outer thickness of material of the coat between said outer thickness and the lining and is then turned toward the right until the entire foot has passed through the outer thickness of the clothing. The button is then turned, preferably, toward the left in order to securely attach the same to the clothing and prevent its unscrewing. In removing the button from the clothing or from a boot or shoe the prong of the spiral foot is bent away from the head of the button, so that the convolutions of said spiral do not lie

in a single plane. The button is then turned toward the left and readily unscrews and becomes detached from the clothing or other sheet material to which it may be fastened.

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

1. As an article of manufacture, a button having a head formed of a blank of sheet metal and comprising a circular central portion, a 10 semicircular portion integral with said central portion, the curved side of said semicircular portion joined to the periphery of said central portion, and a shank extending at right angles from the straight side of said semicircular 15 portion and terminating in a spiral foot whose convolutions lie in a single plane at right angles to said shank.

2. As an article of manufacture, a button 20 comprising a head, a shank, and a spiral foot formed of a blank of sheet metal, comprising a circular central portion, two semicircular portions integral with said central portion, the curved side of each of said semicircular portions joined, respectively, to said curved portion upon diametrically opposite sides there- 25 of, and a prong extending at right angles from the straight side of one of said semicircular portions.

3. As an article of manufacture, a button 30 comprising a head, a shank, and spiral foot formed of a blank of sheet metal comprising a circular central portion, two semicircular portions integral with said central portion, the curved side of each of said semicircular portions joined, respectively, to said curved portion upon diametrically opposite sides there- 35 of, and a prong extending at right angles from the straight side of one of said semicircular portions, the straight side of the other of said 40

semicircular portions provided with a notch to receive said prong.

4. As an article of manufacture, a button having a head formed of a blank of sheet metal and comprising a circular central portion, two 45 semicircular portions integral with said central portion, the curved side of each of said semicircular portions joined, respectively, to said central portion upon diametrically-opposite sides thereof, and a shank and spiral foot 50 fast to said head.

5. As an article of manufacture, a button having a head formed of a blank of sheet metal and comprising a circular central portion, two 55 semicircular portions integral with said central portion, the curved side of each of said semicircular portions joined, respectively, to said central portion upon diametrically opposite sides thereof and folded back in contact therewith, with said two straight sides ad- 60 jacent to each other, and a shank and spiral foot fast to said head.

6. As an article of manufacture, a button having a head formed of a blank of sheet metal and comprising a circular central portion, 65 provided with an annular rim, together with two semicircular portions integral with said central portion, the curved side of each of said semicircular portions joined, respectively, to said rim upon diametrically opposite sides 70 thereof and folded back with said two straight sides adjacent to each other, and a shank and spiral foot fast to said head.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses. 75

MICHAEL B. RYAN.

Witnesses:

CHARLES S. GOODING,
FRANKLIN E. LOW.