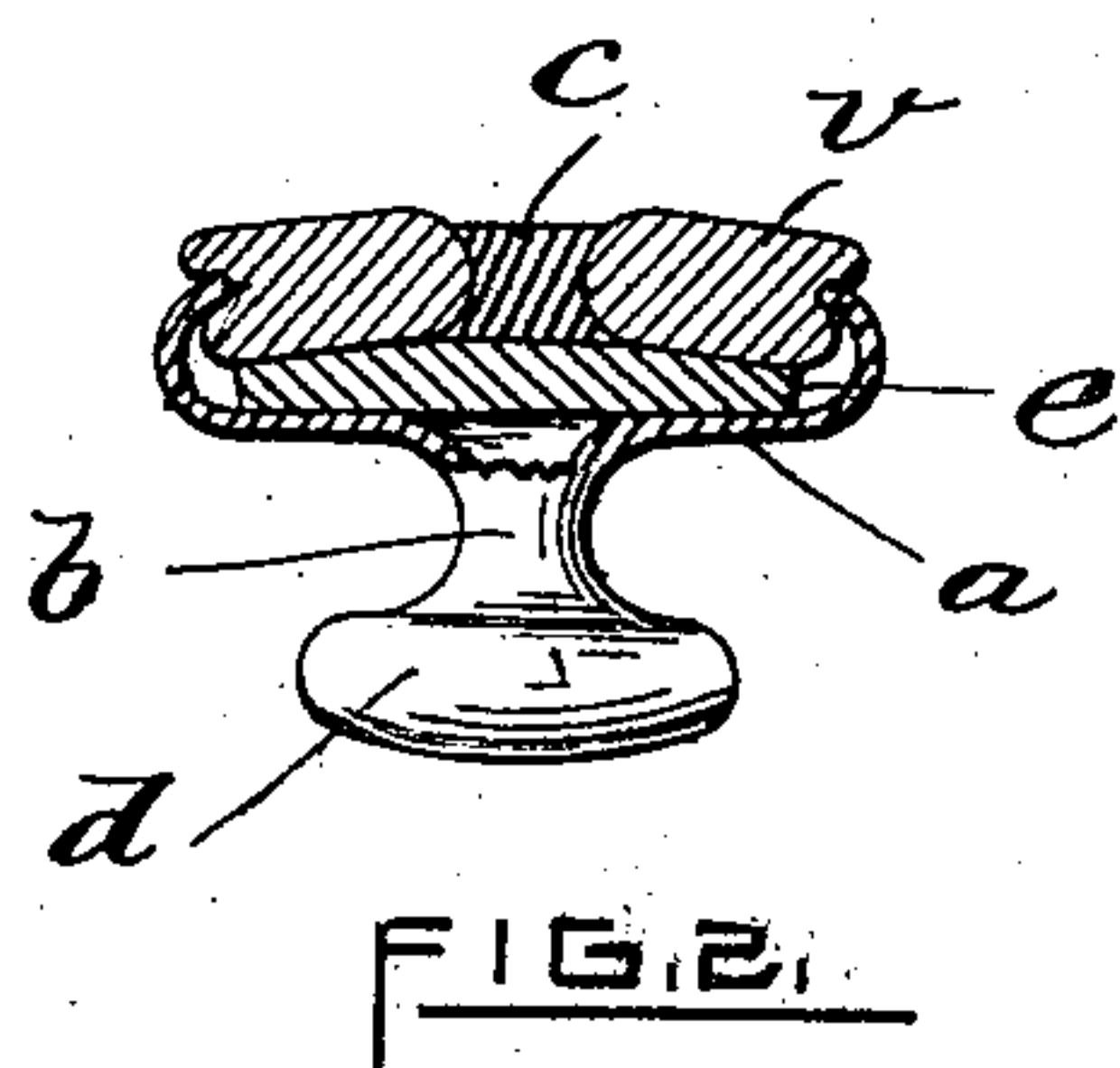
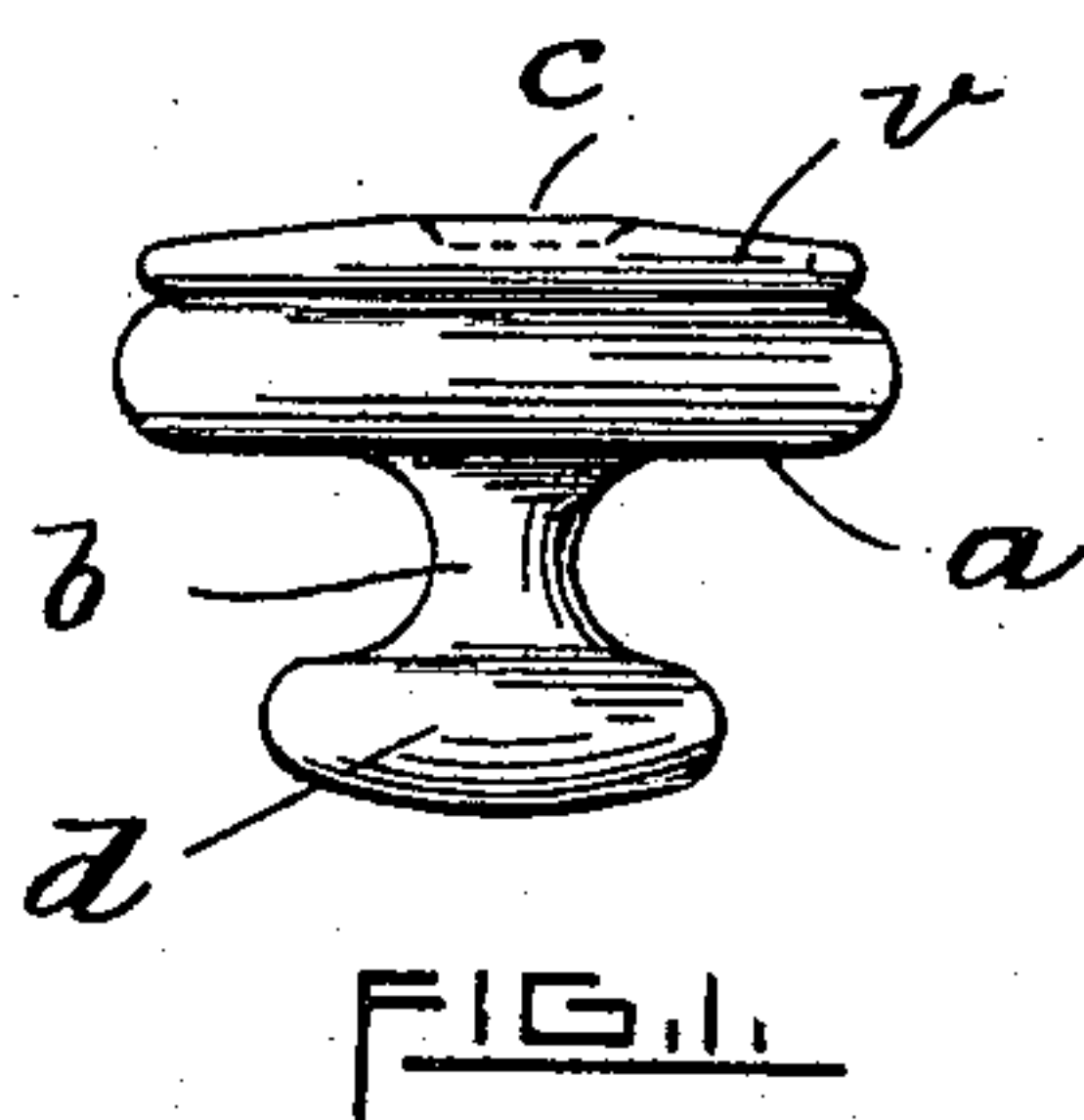


(No Model.)

J. GOLDSMITH.
COLLAR BUTTON.

No. 574,678.

Patented Jan. 5, 1897.



WITNESSES.

INVENTOR.

Charles T. Hannigan Joseph Goldsmith
L. J. Bush Benj Arnold
by Att'y.

UNITED STATES PATENT OFFICE.

JOSEPH GOLDSMITH, OF PROVIDENCE, RHODE ISLAND.

COLLAR-BUTTON.

SPECIFICATION forming part of Letters Patent No. 574,678, dated January 5, 1897.

Application filed December 16, 1895. Serial No. 572,229. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH GOLDSMITH, of Providence, in the county of Providence and State of Rhode Island, have invented certain
5 new and useful Improvements in Collar-Buttons; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference
10 marked thereon, which form a part of this specification.

This invention relates to that class of buttons called "collar-buttons."

Figure 1 shows the button in elevation.
15 Fig. 2 is a vertical section of the head of the button through the center, and the rest of it is shown in elevation.

The object of this invention is to produce a button to secure the collar to the neckband of
20 the shirt, especially on the back of the neck, where in many persons one of the bones of the vertebræ is so prominent just where the head of the button that holds the collar on comes as to prevent them from using the usual but-
25 ton with a hard-surfaced head, because it invariably causes a sore on the bone. I have found from experience that a surface of soft cork on the head of the button instead of a hard surface entirely obviates this trouble,
30 and in conjunction with a combination of two metals, copper and zinc, the corrosion of the outside metal of the stud, which is poisonous to the skin and aggravates any chafing of it, is entirely prevented.

35 Its construction is as follows: *a* is the cap or top of the stud, *b* is the stem, and *d* the foot. These parts may be made in most any of the usual shapes. In the cap *a* a disk of zinc *e* is secured by means of a little cement
40 under its center, and a stud *c*, preferably of copper, is soldered to the center of the zinc disk. The face of the button consists of a disk of soft cork *v*, which is held in the head of the button by the inturned edges that en-
45 ter into a groove in the edge of the cork disk and the concave sides of the button *c*, and if necessary a little cement under the cork may be used.

50 It is well known that the union of two different metals in the presence of moisture will

produce a galvanic action between them, and however slight that action may be it will be in exact proportion to the amount of corrosion produced, and that this corrosion will
be entirely confined to the most-easily cor- 55
roded of the two metals, which in this case is the zinc disk, and the other metal, both the copper stud and the outside case, will not be corroded. In this way the presence of poisonous corroded metal to assist in producing a
60 soreness of the skin is avoided and the button is found in use to avoid all trouble from this source. The cork disk can be changed if it becomes soiled or worn.

Having thus described my improvement, I 65
claim as my invention and desire to secure by Letters Patent—

1. The combination in a collar-button of a stem mounted on a foot and having a cap attached thereto containing a disk of zinc at
70 the bottom, with a central stud of copper soldered to the disk on its top, and a face of soft cork on the outside of the zinc disk, substantially as described.

2. A collar-button having a hollow or re- 75
cessed cap *a*, a plate of zinc secured in the bottom thereof, and a central stud *c* secured thereto and projecting outwardly beyond the outer edge of the cap, combined with a per-
80 forated piece of cork which is fitted around the stud, and secured in position in the cap, substantially as shown.

3. A collar-button having a hollow recessed cap having its outer edges turned inwardly, a
85 disk of zinc secured in the cap, and a stud of copper projecting from this zinc, combined with a circumferentially grooved and perforated piece of cork which surrounds the stud, and has the edge of the cap to catch in its
90 groove, substantially as described.

4. A collar-button having a recessed or hol-
low cap, and a stud projecting from the center thereof, combined with a perforated piece of cork which surrounds the stud and forms
95 a bearing upon the button for the neck, substantially as set forth.

JOSEPH GOLDSMITH.

Witnesses:

BENJ. ARNOLD,
L. J. BUSH.