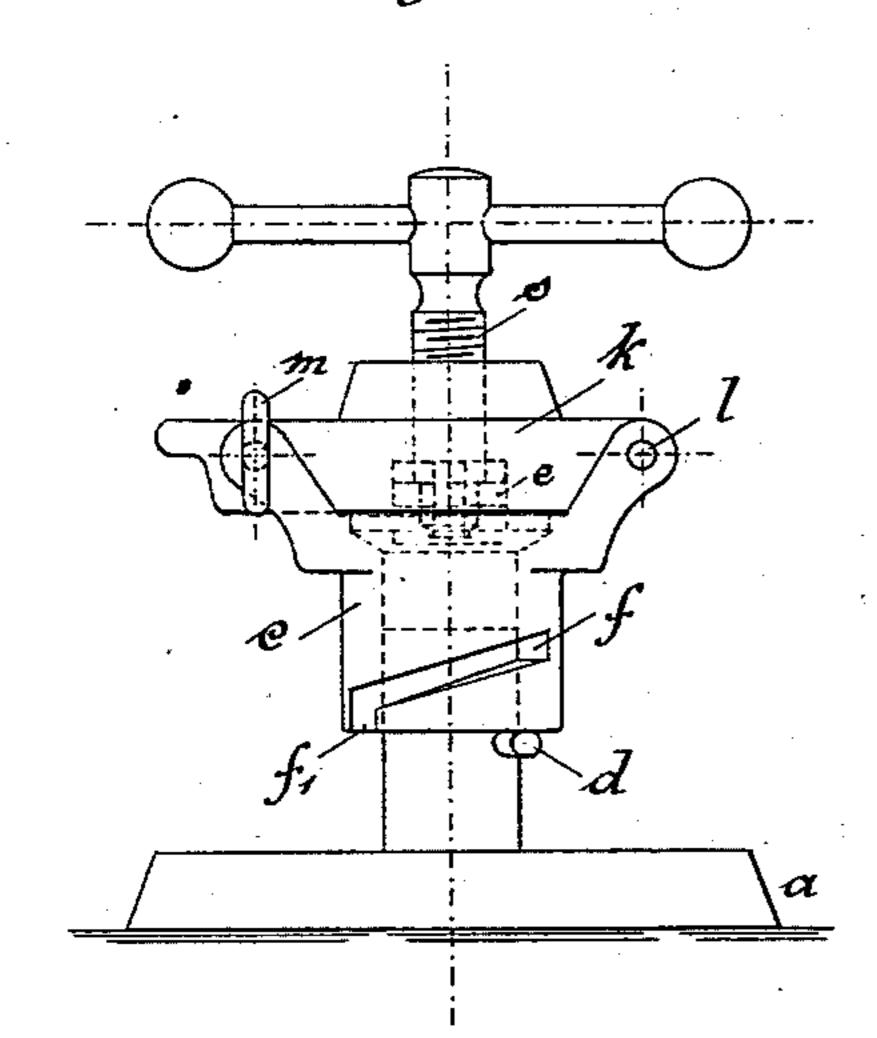
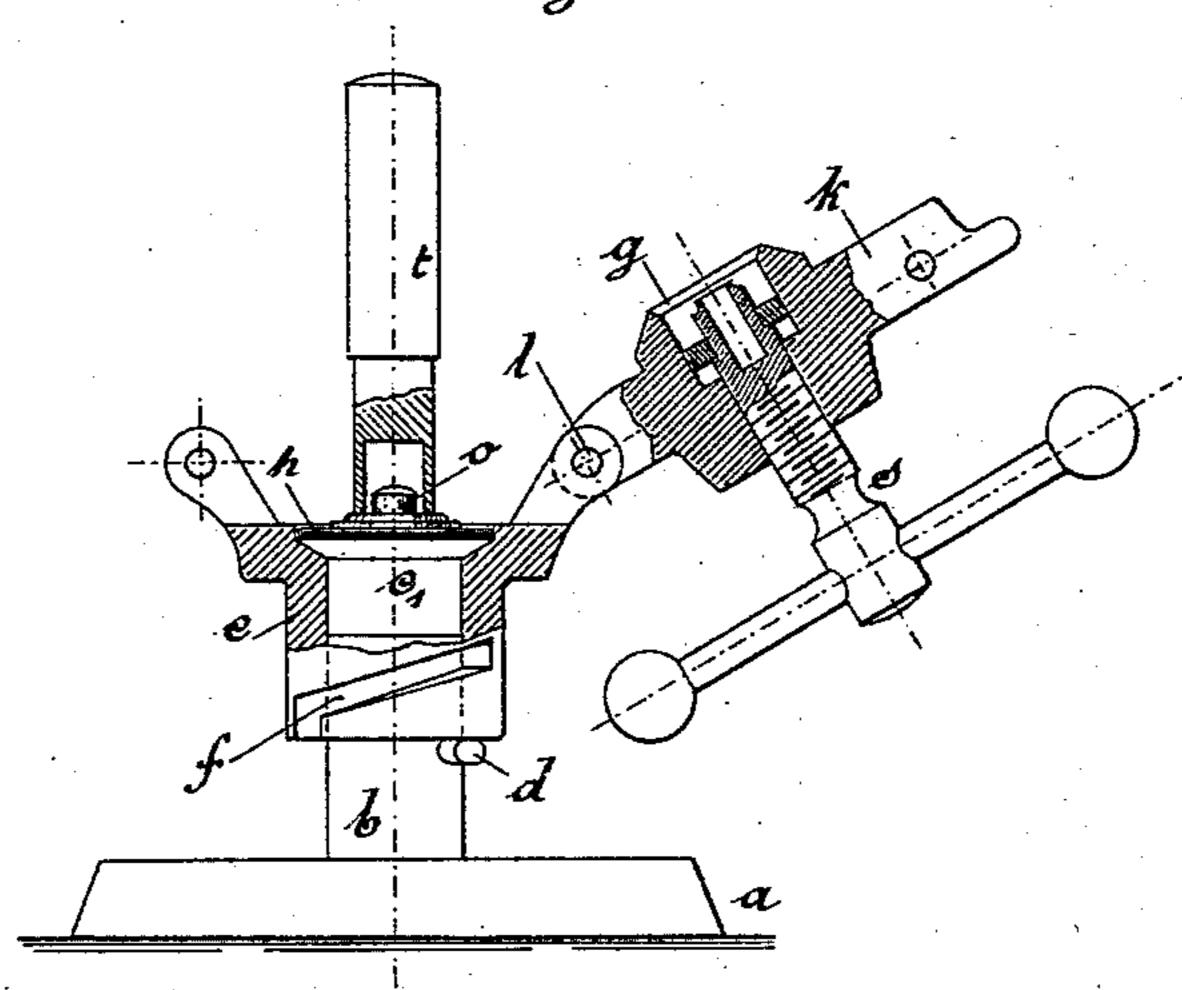
C. A. PFENNING.

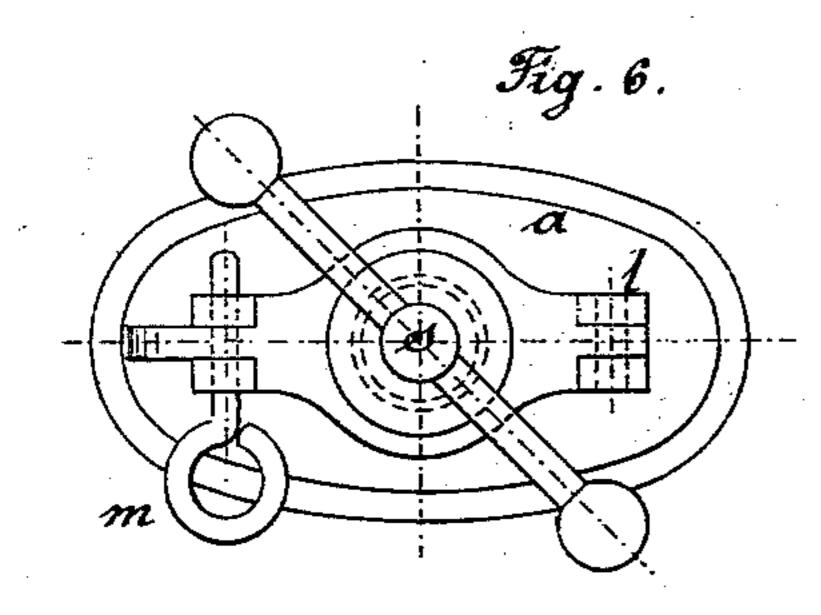
BUTTON MACHINE.

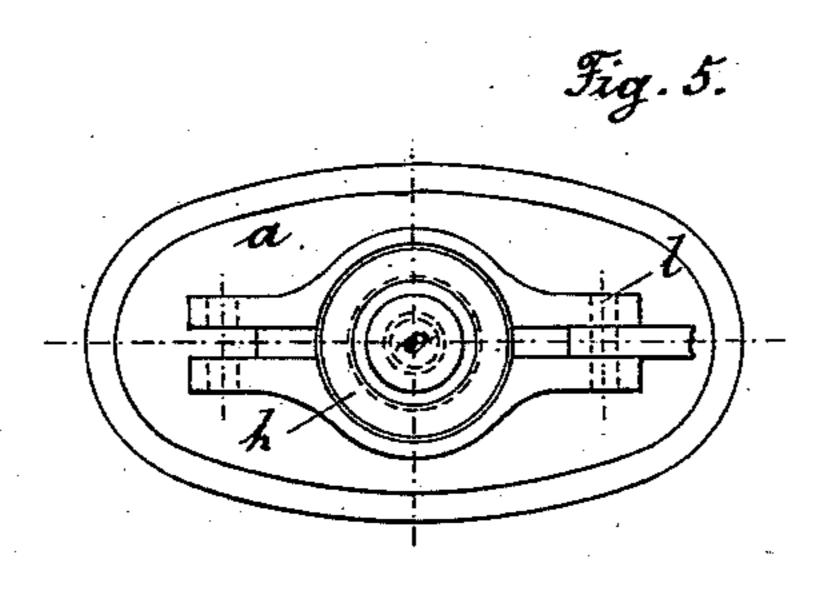
No. 350,211.
Fig. 1.

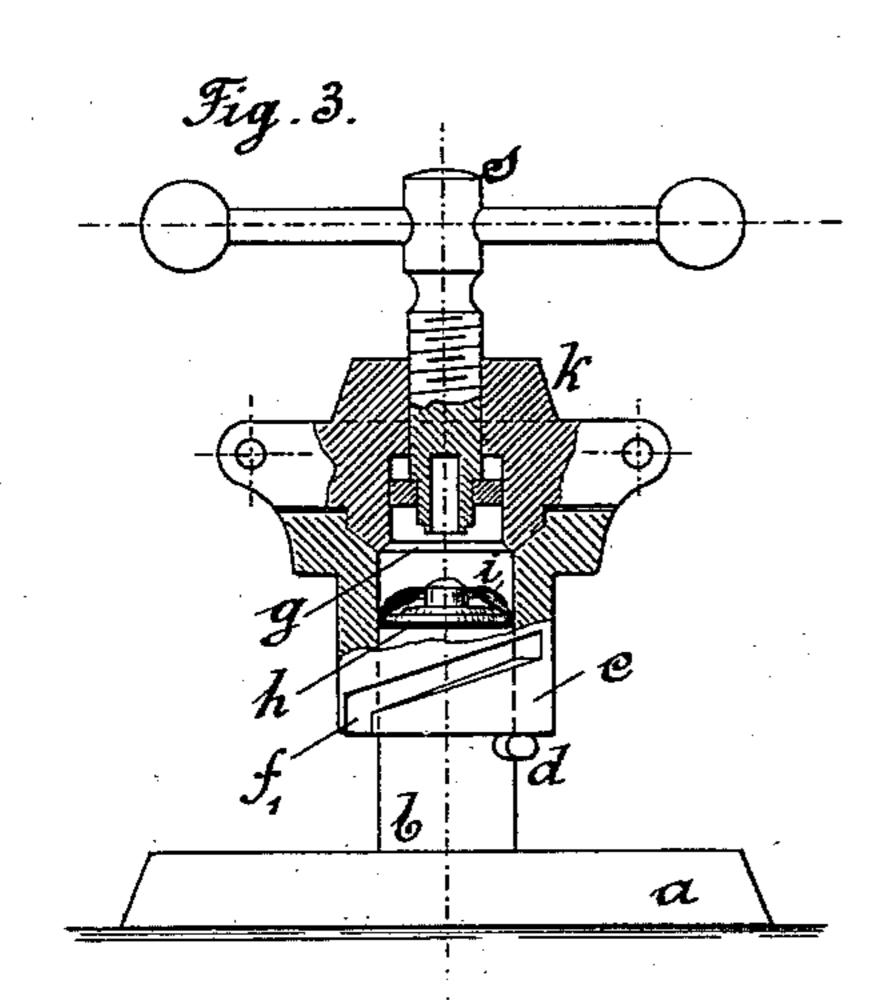
Patented Oct. 5, 1886.

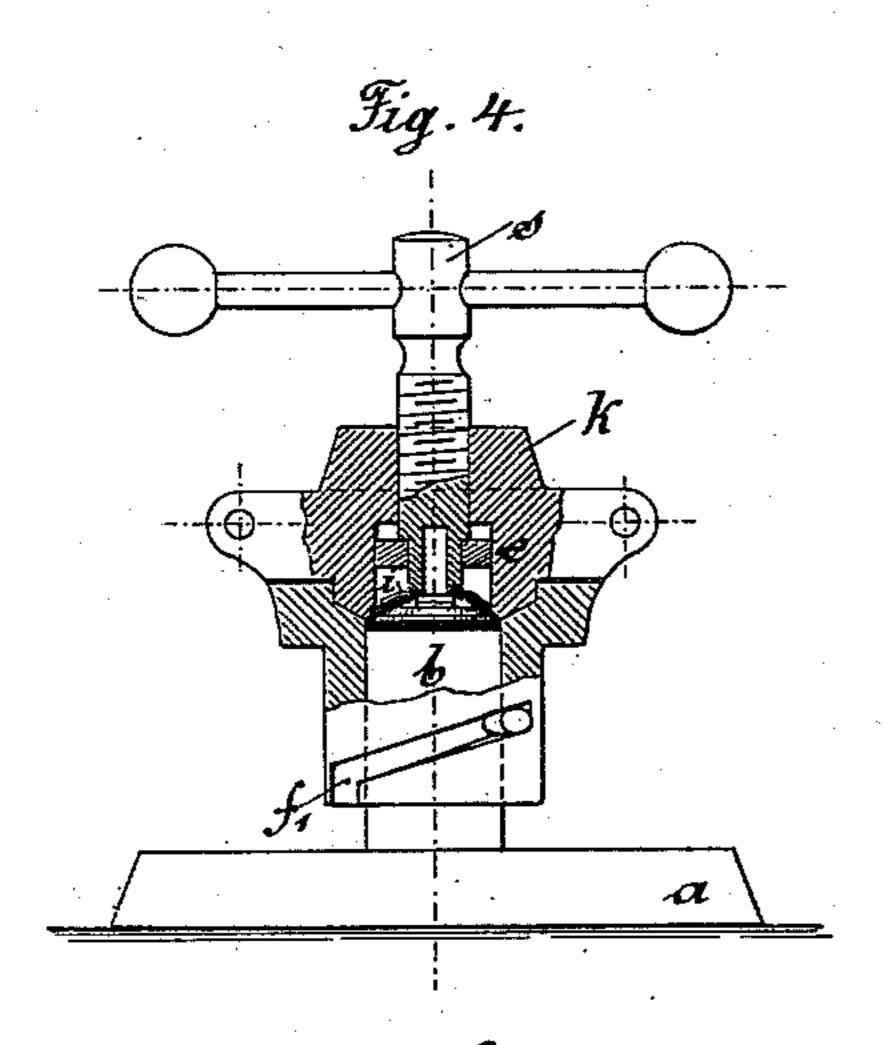












United States Patent Office.

CARL AUGUST PFENNING, OF BARMEN-RITTERSHAUSEN, PRUSSIA, GERMANY.

BUTTON-MACHINE.

SPECIFICATION forming part of Letters Patent No. 350,211, dated October 5, 1886.

Application filed April 28, 1886. Serial No. 200,457. (No model.)

To all whom it may concern:

Be it known that I, CARL AUGUST PFEN-NING, a subject of the German Emperor, residing at Barmen - Rittershausen, in Rhenish 5 Prussia, Germany, have invented a new and useful Manufacture of Buttons, of which the

following is a specification.

My invention relates to the manufacture of buttons with a covering or surface of cloth or to stuff, and has for its purpose to allow of the use of a disk or plate for the back or under part of the button smaller than the diameter of the button, so that the latter is provided with a cloth rim. For this purpose refer-15 ence being had to the accompanying drawings, in which—

Figure 1 is a side elevation of my improved machine; Fig. 2, also a side elevation, partly in section, in which the cover k is shown 20 folded back for the purpose of introducing apparatus by means of the hand-driver t; Fig. 3, also a side elevation, partly in section, showing the various parts of the button 25 ready for being fastened together; Fig. 4, also a side elevation, partly in section, showing the working parts in the position they occupy when the button is completed. Fig. 5 is a plan view of Fig. 2 with cover k re-30 moved. Fig. 6 is a plan view of Fig. 1.

For the purpose of making the buttons, a core, b, is fixed to a foot-plate, a. This core is provided with a pin, d, adapted to be introduced into and slide in the helical slot ff' of 35 a tube, c, as heretofore used by F. L. Niedermeyer, of Germany, in making buttons. To the top of this tube c is secured in any suitable manner, but preferably as shown in the drawings, a cover or flap, k, adapted to move 40 on a pivot, l, or otherwise, and be secured over the tube c by a pin, m, or any other suitable device. The cover k is provided with a cylindrical space of less diameter than the inner diameter, c', of the tube c, and so placed 45 as to rest centrally on the latter. The rim g of this recess may, if required, be slightly beveled off to meet the rim of the tube c'.

Passing through the cover k, and moving

rim g, is adapted to slide or screw the press- 50 ing spindle or rods, the lower extremity of which is adapted in shape to enter the tube o of the button and bend the side thereof outward and downward over the back plate, to secure thereby the various parts of the button. 55

In order to produce a button with cloth face and rim by means of this machine a circular piece, h, Fig. 2, of the cloth is first introduced into the space c'. The frame of the button is laid upon this piece of cloth and 60 pressed therewith by means of the handdriver t into the space c' of the tube, on to the upper surface of the core b, whereby the cloth rim is bent round the upper part, o, of the button. The driver t is then removed, 65and the back plate, i, of the button introduced. The cover, with rim g, is then placed over the opening c' and secured by the pin m. The pin d, now introduced into the slot the cloth h and frame of button o into the |f'|, is guided upward in the slot f by turning 7c the tube c. Thus the button lying on the core is moved upward and pressed with its outer part against the rim g, whereby the turnedup edge of the cloth is strained and pressed over the upper part of the button. Subse- 75 quently, by turning down the spindle s, the side of the tube o is bent outward over the back plate, i, of the button, and a firm connection thereby made between the various parts of the button. 80

> I am aware that machines have heretofore been made by Niedermeyer for manufacturing buttons containing a core, b, in combination with a foot-plate, a, pin d, tube c, and slit ff'. I therefore do not claim these parts; 85 but

What I claim, and desire to secure by Let-

ters Patent, is— 1. In machinery for producing cloth buttons, the combination of a core, b, foot-plate 95 a, pin d, tube c, and slot ff', with the cover k, adapted to be placed over the orifice of the tube c, containing a cylindrical recess of somewhat smaller diameter than the diameter of the interior of the tube c, and adapted to 95form thereby the rim g above the tube c, together with the pressing spindle s, adapted to vertically and centrally with regard to the move vertically and centrally with regard to

the said rim g, and to bend down the rim of the tube o of the button, the whole substantially as described and illustrated.

2. The cover k, containing the vertical pressing-spindle s, and provided also with the rim g, substantially as and for the purpose described.

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

CARL AUGUST PFENNING.

Witnesses:

GEO. KOCH, ERNTZ THÜRGEN.