(No Model.)

# F. H. RICHARDS.

## BUTTON FASTENER ROD.

No. 329,953. Patented Nov. 10, 1885.

*Fig. 1.*

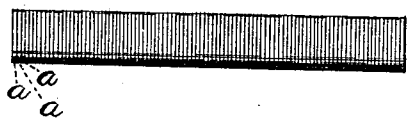



*Fig. 2*




*Fig. 3.*

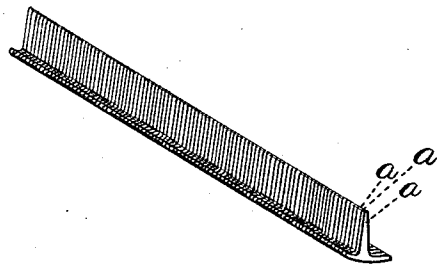
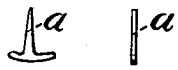



*Fig. 4.*




*Side View* *Edge View*

*Witnesses;*
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N. PETERS. Photo-Lithographer. Washington, D. C.

# UNITED STATES PATENT OFFICE.

FRANCIS H. RICHARDS, OF SPRINGFIELD, MASSACHUSETTS, ASSIGNOR TO THE AMERICAN BUTTON FASTENER COMPANY, OF NEW BRITAIN, CONN.

## BUTTON-FASTENER ROD.

SPECIFICATION forming part of Letters Patent No. 329,953, dated November 10, 1885.

Application filed April 25, 1885. Serial No. 163,485. (No model.)

*To all whom it may concern:*

Be it known that I, FRANCIS H. RICHARDS, a citizen of the United States, residing at Springfield, in the county of Hampden, State of Massachusetts, have invented certain new and useful Improvements in Button-Fastener Rods, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which—

Figure 1 is a side view of a button-fastener rod embodying my invention. Fig. 2 is an end view of said rod. Fig. 3 is a perspective view of the same. Fig. 4 shows two views of a single fastener like those composing said rod. Similar characters designate the same parts in all the views.

This invention relates to improvements in rods adapted to be fed to button-setting machines, there to be divided into button-fasteners as required.

The principal object of my invention is to furnish such a rod which shall be easily divided into separate button-fasteners, and which shall render unnecessary the employment of button-fastener packing-cases.

To this end the invention consists in the novel features hereinafter described and claimed.

In the drawings a single button-fastener of the kind shown and described in United States Patent No. 314,684, dated March 31, 1885, is shown in side and edge view in Fig. 4.

In manufacturing my improved rod I take a quantity of those or similar button-fasteners, *a a*, and placing them side by side, as in Fig. 1, unite them into a rod by means of some suitable adhesive substance, then or previously applied to their surfaces. This adhesive substance may be metallic, as tin or solder, or non-metallic, as shellac or other gum. If metal or alloy is used, the fasteners may first be covered with a thin coating of the metal, and then heated sufficiently to melt it and cause them to stick together into a solid mass. Gum or other suitable non-metallic material may be applied in substantially the same manner by the appliances ordinarily employed for performing similar operations in other arts.

It should be understood that solder or alloy or other adhesive material used should have but slight tenacity, so that the fasteners may be readily separated as they are wanted for use by the driver of a button-fastener-setting machine.

Having thus described my invention, I claim as new and therefore desire to secure by Letters Patent of the United States—

As a new article of manufacture, the improved button-fastener rod herein described it consisting in button-fasteners united by an adhesive substance, substantially as set forth.

FRANCIS H. RICHARDS.

Witnesses:
C. O. PALMER,
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