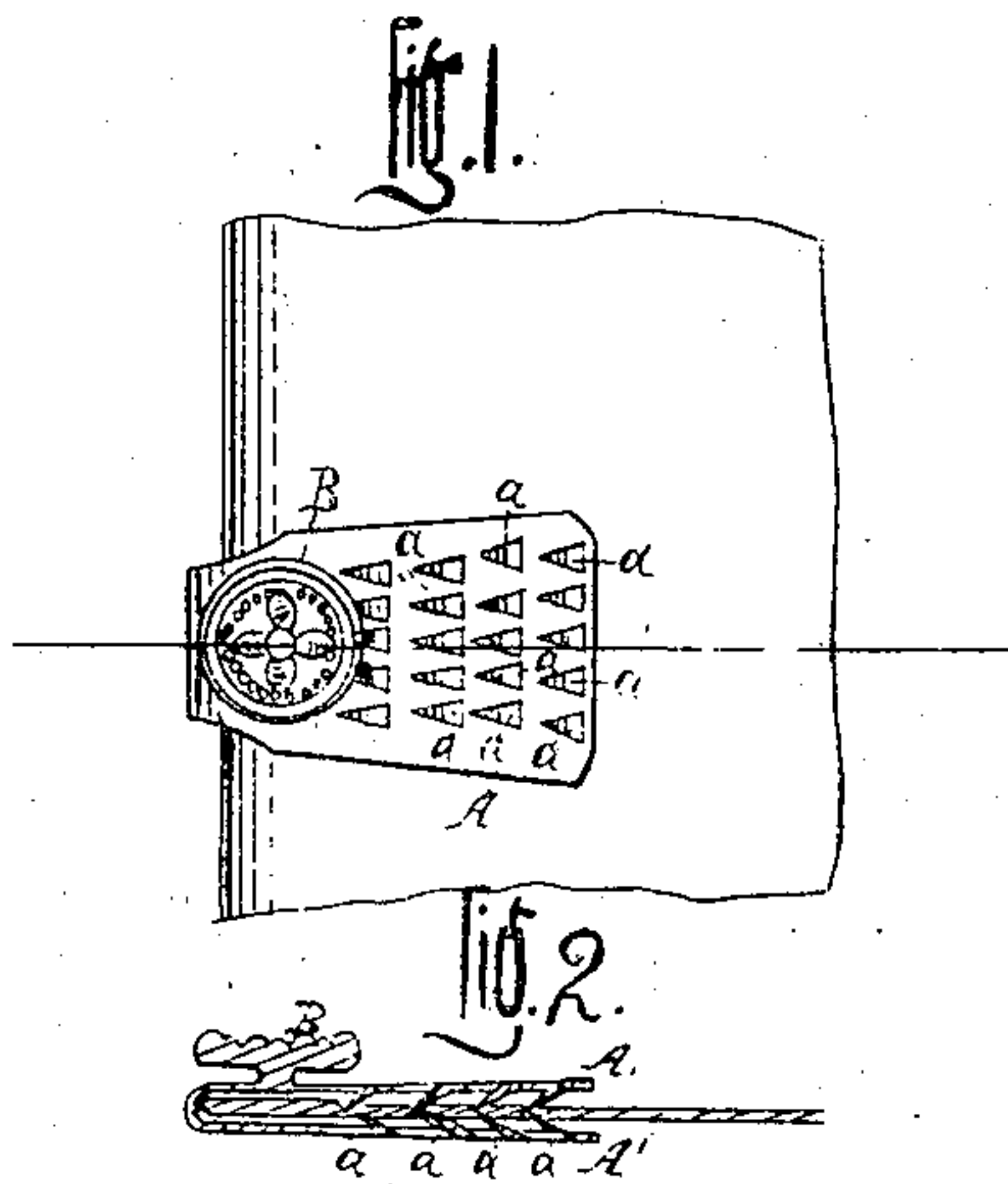


J. R. Spooner,
Button.

No. 66053.

Patented. June. 25. 1867



Witnesses.
Chas. A. Pettit
J. P. Ellsworth

J. R. Spooner.
By Hunt & Co.
Attorneys.

United States Patent Office.

JOHN R. SPOONER, OF LOWELL, OHIO.

Letters Patent No. 66,053, dated June 25, 1867.

IMPROVEMENT IN BUTTONS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN R. SPOONER, of Lowell, in the county of Washington, and State of Ohio, have invented a new and improved Button-Fastening; and I do hereby declare the following to be a full, clear, and exact description of the same sufficient to enable one skilled in the art to which the invention appertains to make use of it, reference being had to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a top view.

Figure 2 is a longitudinal section.

The object of my invention is to construct a fastening by means of which to attach buttons to clothes without sewing them to the clothes, and in such a manner that, while the button cannot be torn from the garment by force, it may yet be easily removed at any time for convenience in washing, &c. To accomplish this purpose, I cut out with a die suitable strips of metal from a thin metallic sheet, and bend these strips at the middle until the ends nearly touch each other. The proper temper is then given to these strips, so that they will retain the shape thus received, and if forced from it, by bending or unbending them, will, by their elasticity, resume this shape when the force is removed. The strip when thus bent is distinctly shown in fig. 2 by A and A', the upper and lower plates of the fastening. Previously to bending the strip, however, I pass it under a die, which punches each end of it, so as to produce a number of teeth, *a a a a*, the teeth having an inclination towards the centre of the strip, and being small triangular pieces of the sheet metal cut on two sides, and attached by the third side to the plate. The inclination of these teeth is well shown in fig. 1, *a a a a*, in fig. 2, representing their shape and relative position. They may be arranged in rows crossing each other at right angles, as shown in the drawing, or, which is perhaps better, in quincunx order, which will admit of a larger number of teeth on each plate, and will also hold the cloth more firmly. B represents the button which it is designed to attach to the garment.

The operation of a fastening thus constructed is obvious at a glance, and is simply the placing of the edge of the cloth between the two plates A and A', when the teeth *a a a a* will take hold of it, and will not relax their hold until the plates are sprung apart and the cloth is liberated by the hand.

The merits of this invention are as obvious as its operation. It dispenses with the sewing on of buttons. It is simple and economical, and not liable to get out of order. It can be attached or removed in an instant. A simple set of buttons and fastenings may be used for several garments. If the fastening is made of steel and plated with gold or silver, as I propose to make it, there will be no rusting to disfigure the garment. When adjusted it retains its place firmly without fretting the cloth, the latter being pressed up through the holes from which the teeth were punched. It can be used on the finest linen shirt without injury, and, if properly made, is capable of becoming a beautiful ornament to the garment.

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

The button-fastening above described, composed of the bent plate A A', having the teeth *a a a a* and the button B attached to it, substantially as and for the purpose described.

JOHN R. SPOONER.

Witnesses:

A. B. CRAIN,
D. SPOONER.