

No. 667,768.

Patented Feb. 12, 1901.

R. DE PUY.

SPLINT.

(Application filed May 2, 1900.)

(No Model.)

Fig. 1.

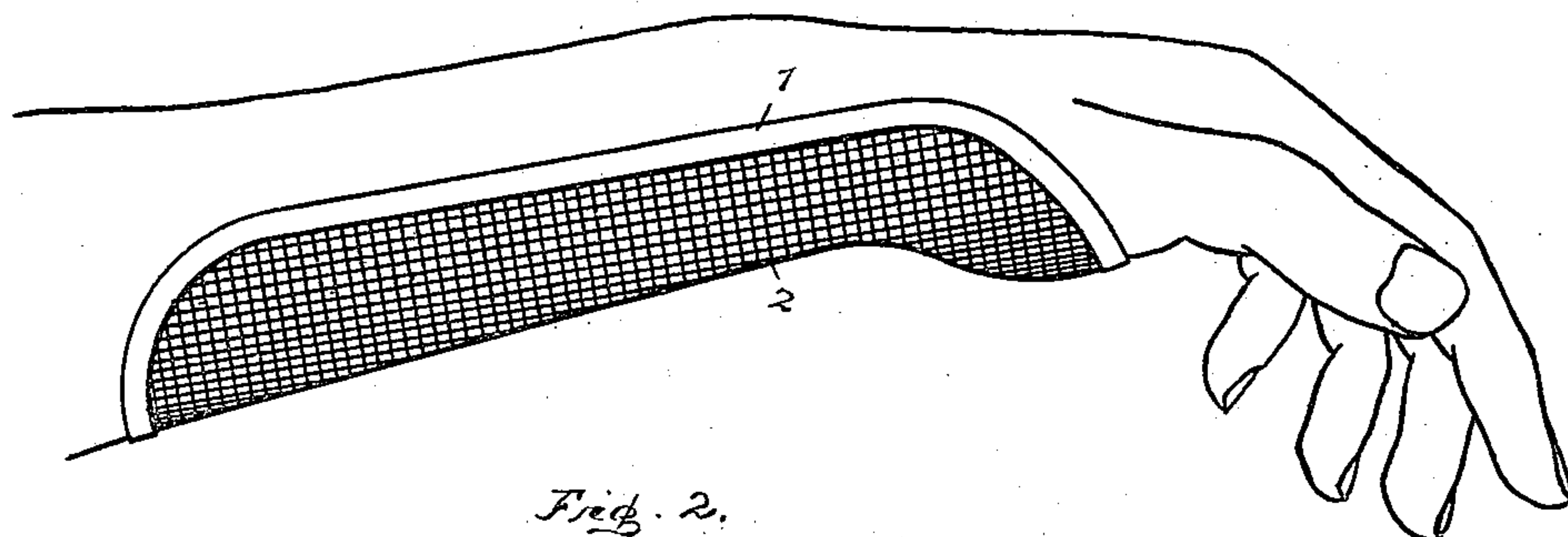


Fig. 2.

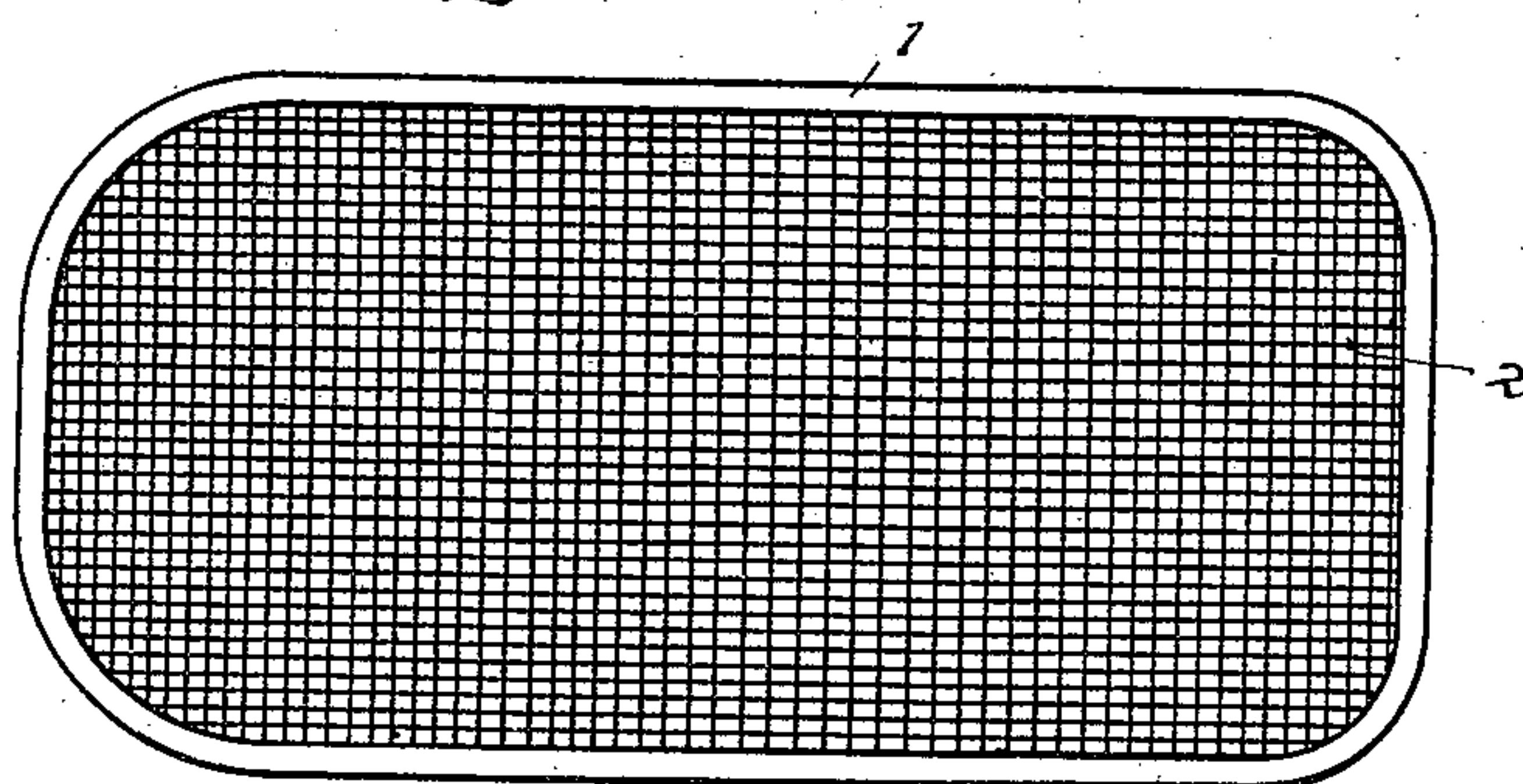


Fig. 3.

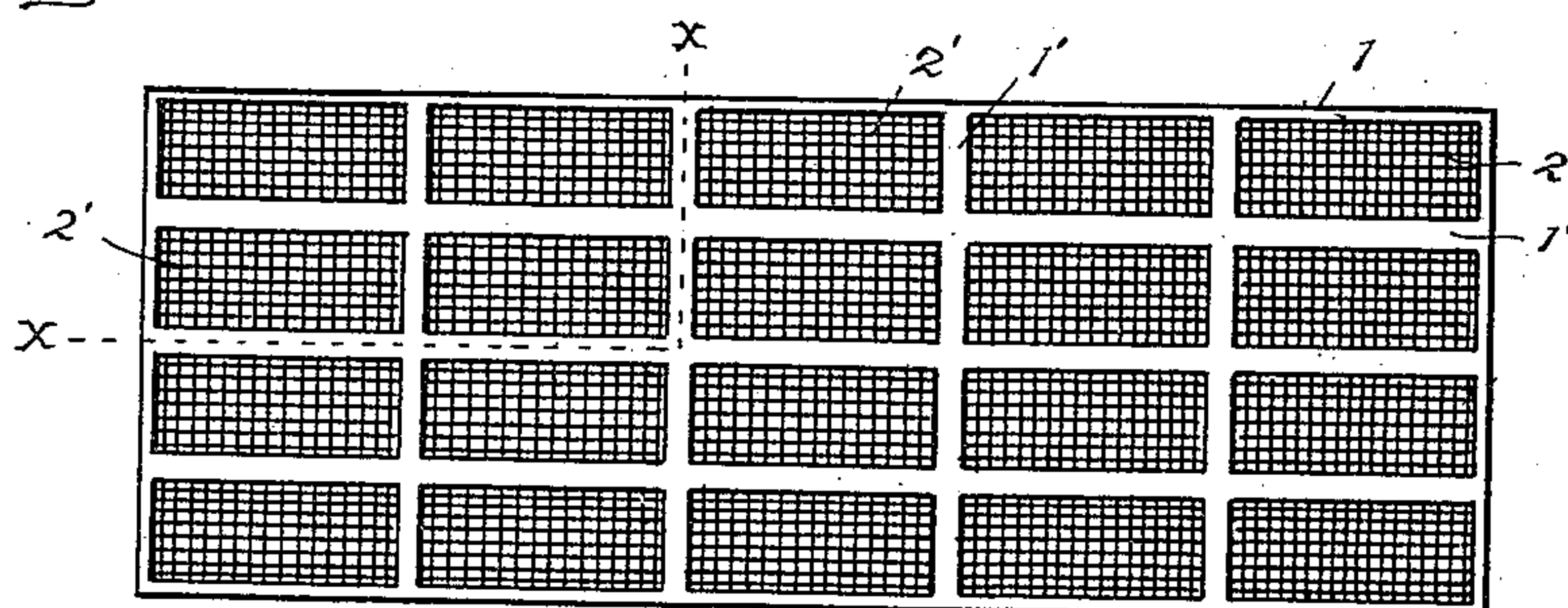
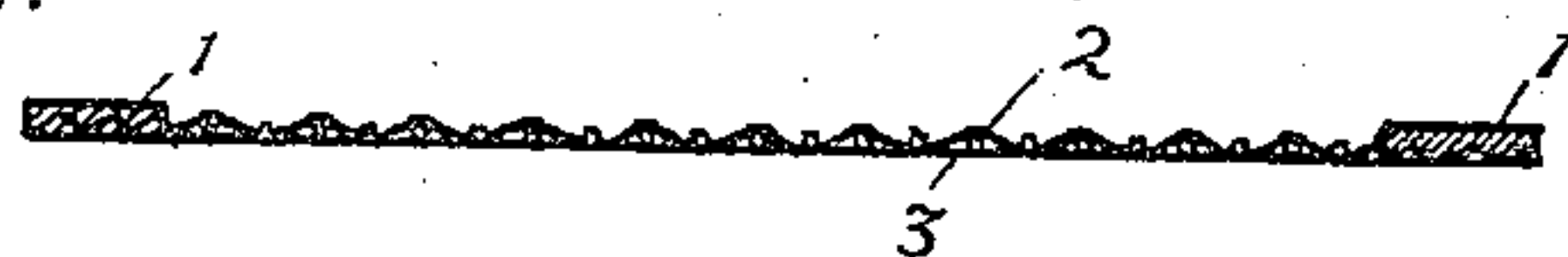


Fig. 4.



WITNESSES:

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## SPLINT.

SPECIFICATION forming part of Letters Patent No. 667,768, dated February 12, 1901.

Application filed May 2, 1900. Serial No. 15,163. (No model.)

*To all whom it may concern:*

Be it known that I, REVRA DE PUY, a citizen of the United States, residing at Warsaw, in the county of Kosciusko and State of Indiana, have invented certain new and useful Improvements in Splints; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in splints such as are used in surgery for confining in their place the parts of broken bones when set; and the object of my improvement is to afford a splint which may be molded or pressed into the required form to properly fit the fractured member.

I accomplish my object by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view showing the splint applied. Fig. 2 is a plan showing the splint before being formed. Fig. 3 is a plan showing a modified form of my invention on a reduced scale, and Fig. 4 is a sectional view showing the flattened surface.

Similar numerals of reference indicate corresponding parts throughout the several views.

The frame 1 of the splint consists of a strip of pliable metal, such as lead, zinc, or like substance or composition of metals. This frame ranges about the margin of a web 2. The web consists of a sheet of open-woven pliable wire-gauze, the margins of which are embedded into the frame 1. This may be accomplished by passing the frame, together with the web, between rollers under pressure or otherwise, and afterward filling in the uneven surface of the embedded portion of the

web by applying solder. The face 3 of the splint is then ground flat, so that the intersections of the wires of the gauze web will present a flat smooth surface and range in the same plane with the face of the frame. The splint thus formed may be polished and plated, as desired.

In Fig. 3 is shown a modified form wherein the frame 1 is constructed with integral longitudinal and transverse bars 1', which are secured to the web 2 in a similar manner to that in the former instance, thus dividing the web into a number of sections 2', so that should a splint of considerable size be required any number of sections may be severed from the others by cutting through the sectional bars 1', as shown by lines X X.

The desired form is given to the splint by bending the frame 1 and pressing the web 2, so as to conform with the fractured member to which it is applied.

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

1. In a splint, in combination, an open-woven pliable gauze web, a pliable frame molded into the under side meshes of said web about its marginal edge, and a filling of solder closing the meshes about the margin of the web opposite said frame, substantially as and for the purpose specified.

2. A splint consisting of a pliable frame having integral longitudinal and transverse bars, and a pliable web secured to, and ranging in a plane coincident with said frame and bars, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

REVRA DE PUY.

Witnesses:

JEROME B. MATTHEWS,  
SAM C. JUNKIN.