

C. J. HAGEN.
GARMENT STAY.
APPLICATION FILED JULY 6, 1908.

905,420.

Patented Dec. 1, 1908

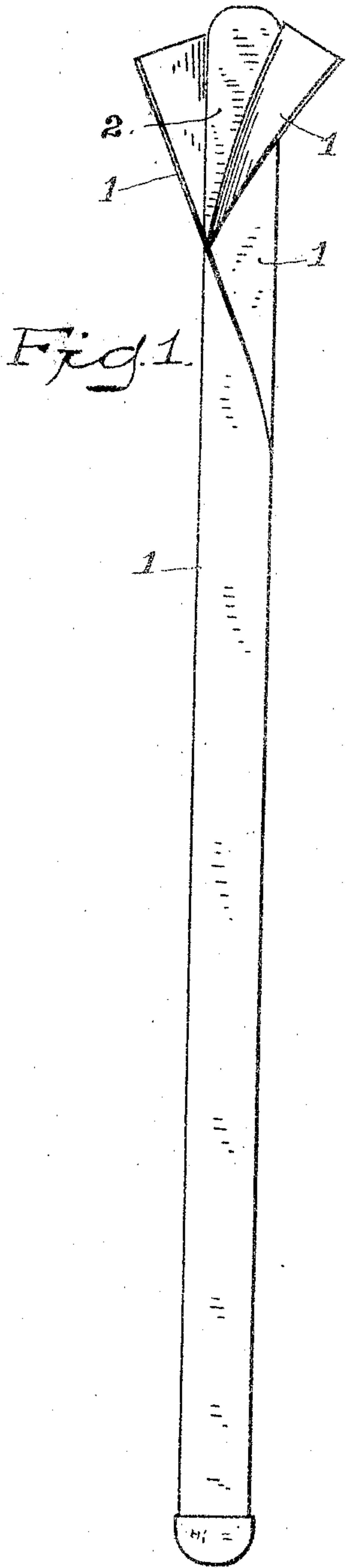


Fig. 1.

Fig. 2.

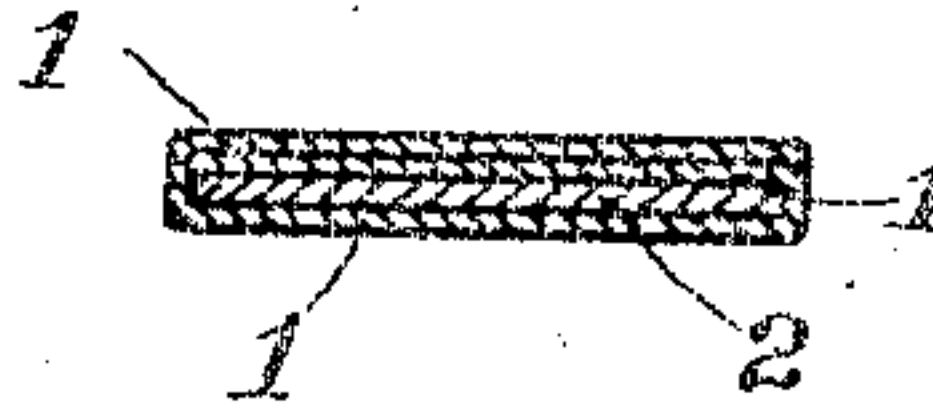
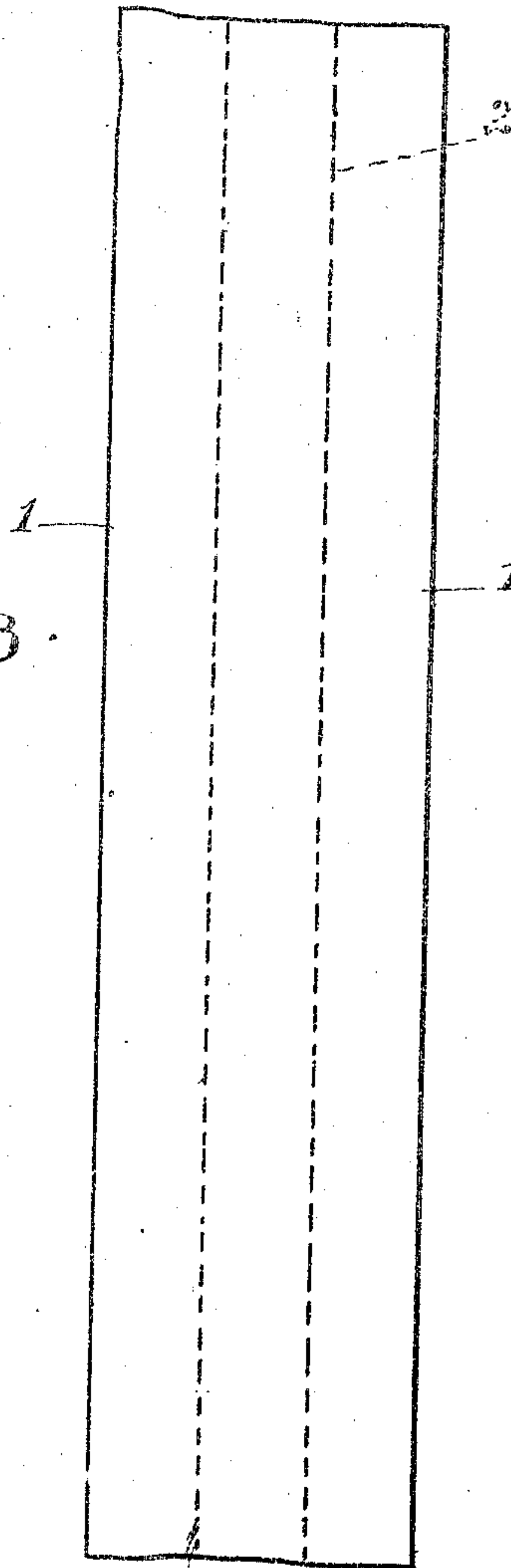


Fig. 3.



Witnesses:
H. H. Lamb,
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UNITED STATES PATENT OFFICE.

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GARMENT-STAY.

No. 905,420.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES J. HAGEN, a citizen of the United States, residing at Arlington, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Garment-Stays; and I do hereby 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.

My invention relates to stiffening elements for wearing apparel such as are commonly known as dress and corset stays, but more particularly has reference to stays that are made of steel and covered with a suitable substance that protects the cloth as against rusting of the steel and also gives the steel additional strength and resiliency.

In the accompanying drawing Figure 1 is an elevation showing my improved stay with the covering at one end raised—Fig. 2 a cross section of the completed steel, and Fig. 3 an elevation of the covering with the position of the steel shown in dotted lines preparatory to the inclosing of the same by such covering.

Similar numbers of reference denote like parts in the several figures of the drawing.

I am aware that heretofore garment stays have been made by covering a steel strip with a pyroxylin or other compound applied either by dipping, by coating with a brush, or by uniting the compound to said strip by the process of vulcanization, and I distinctly disclaim any of these methods.

My improvement contemplates the covering of the steel strips with a pyroxylin compound in sheet form without the application of heat, and when the steel is thus covered no polishing or further finishing is necessary.

In carrying out my improvement I cut a strip 1 of the proper dimensions from a thin sheet of pyroxylin compound, anneal the same so it will not crack when bent, and wrap it around the steel 2, the flaps of this covering strip 1 being overlapped and having their edges preferably coincident with the edges of the steel. Prior to the application of the strip 1 to the steel, I apply to the steel a coating of cement of such character that it

will not cut the pyroxylin covering and this cement I likewise apply to the overlapping flaps. After the pyroxylin covering has been applied to the steel in this manner, I subject the covered steel to a firm pressure between yielding surfaces, as for instance, between rolls made of rubber or hard felt, and this pressure will unite the covering and steel, and thereafter neither moisture nor heat will cause the covering to be loosened.

The ends of the stay are finished by dipping in any suitable compound, or said ends may be provided with any suitable tips, and in this particular I desire to say that the tipping of the stays has nothing to do with my present invention which latter relates solely to the covering of the same.

A covering applied in the manner above set forth requires no final polishing or other finish whatsoever since the pyroxylin sheet is itself of a superior finish, and, moreover, I employ no heating agent whatsoever, and therefore the temper of the steel strip is not in the least affected and I obtain a maximum resiliency and strength to the covered steel.

As I said before, steel strips have been covered in all sorts of ways, but, prior to my invention, I am not aware that any one has ever essayed to cover a steel strip by a finished sheet of pyroxylin wrapped around the same and united thereto in the manner above described, and in this connection I desire to say that a long and continued use of my newly invented stay has demonstrated the fact that the covering will not chip or become loosened, and I do not wish to be understood as claiming the covering of a steel strip except in the specific manner above described.

I claim—

A garment stay, comprising a steel strip and a covering therefor consisting of an annealed sheet of pyroxylin compound wrapped around said strip, and a suitable cement for connecting the covering to the strip.

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

CHARLES J. HAGEN.

Witnesses:

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NORMAN F. SCHLOSS.