

(No Model.)

H. D. STONE.  
DRESS STAY.

No. 534,233.

Patented Feb. 12, 1895.

Fig. 1.

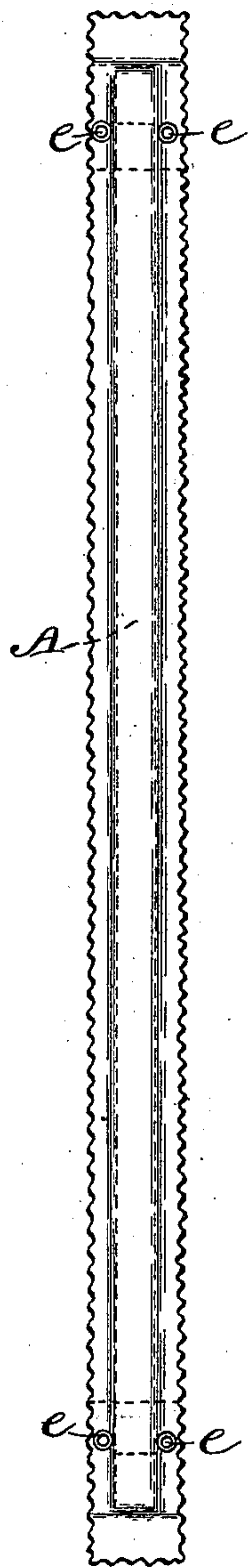


Fig. 2.

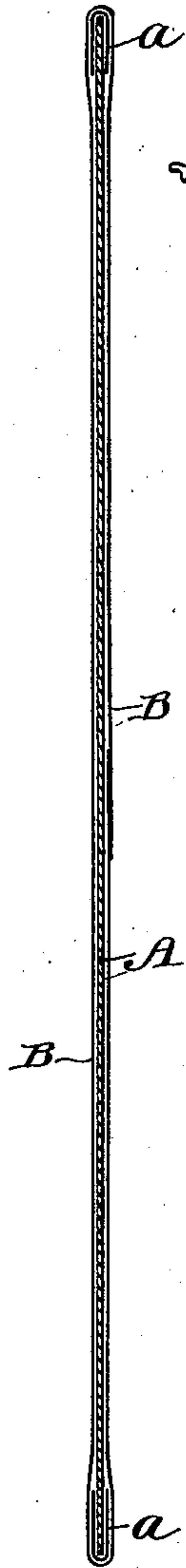


Fig. 3.

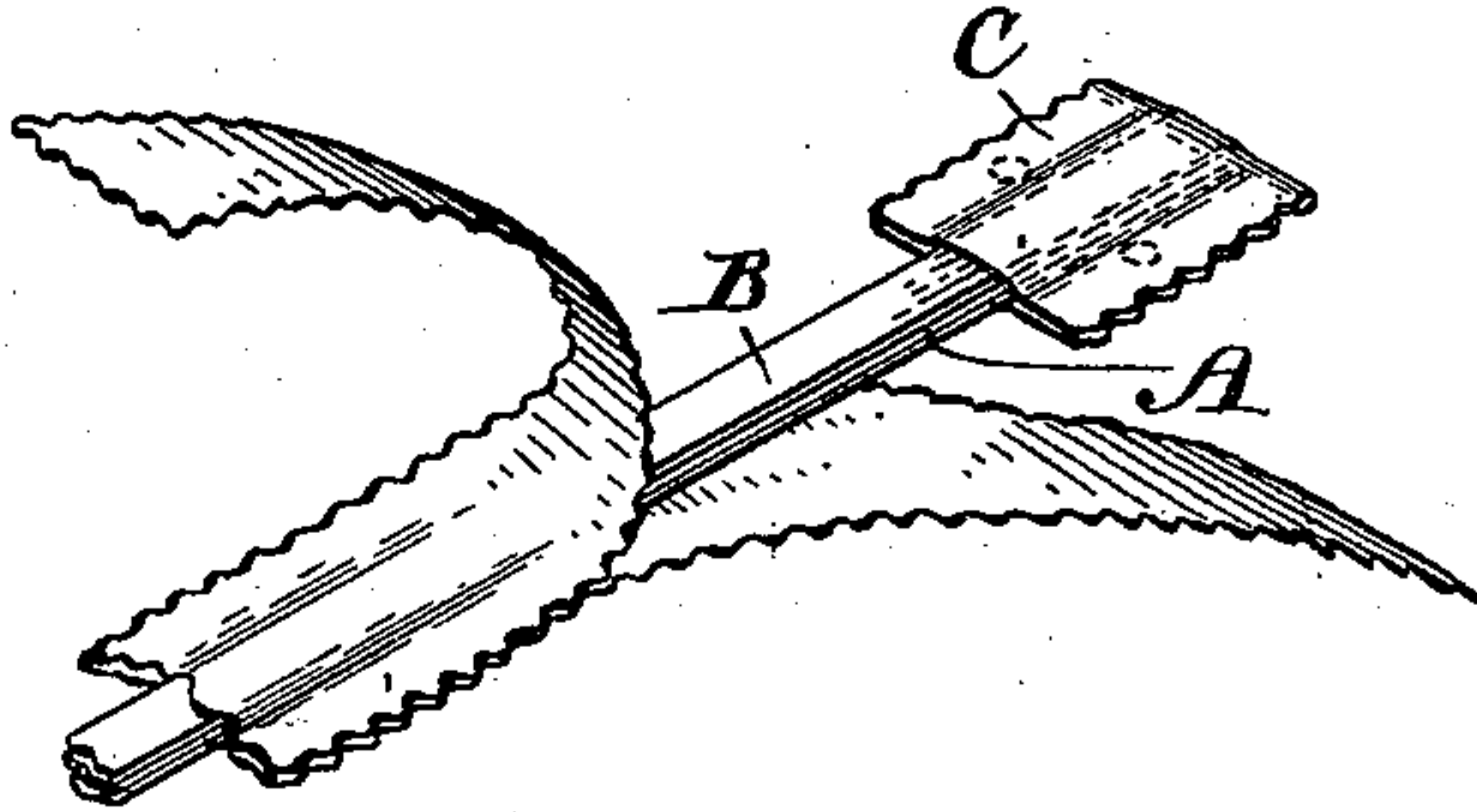


Fig. 4.

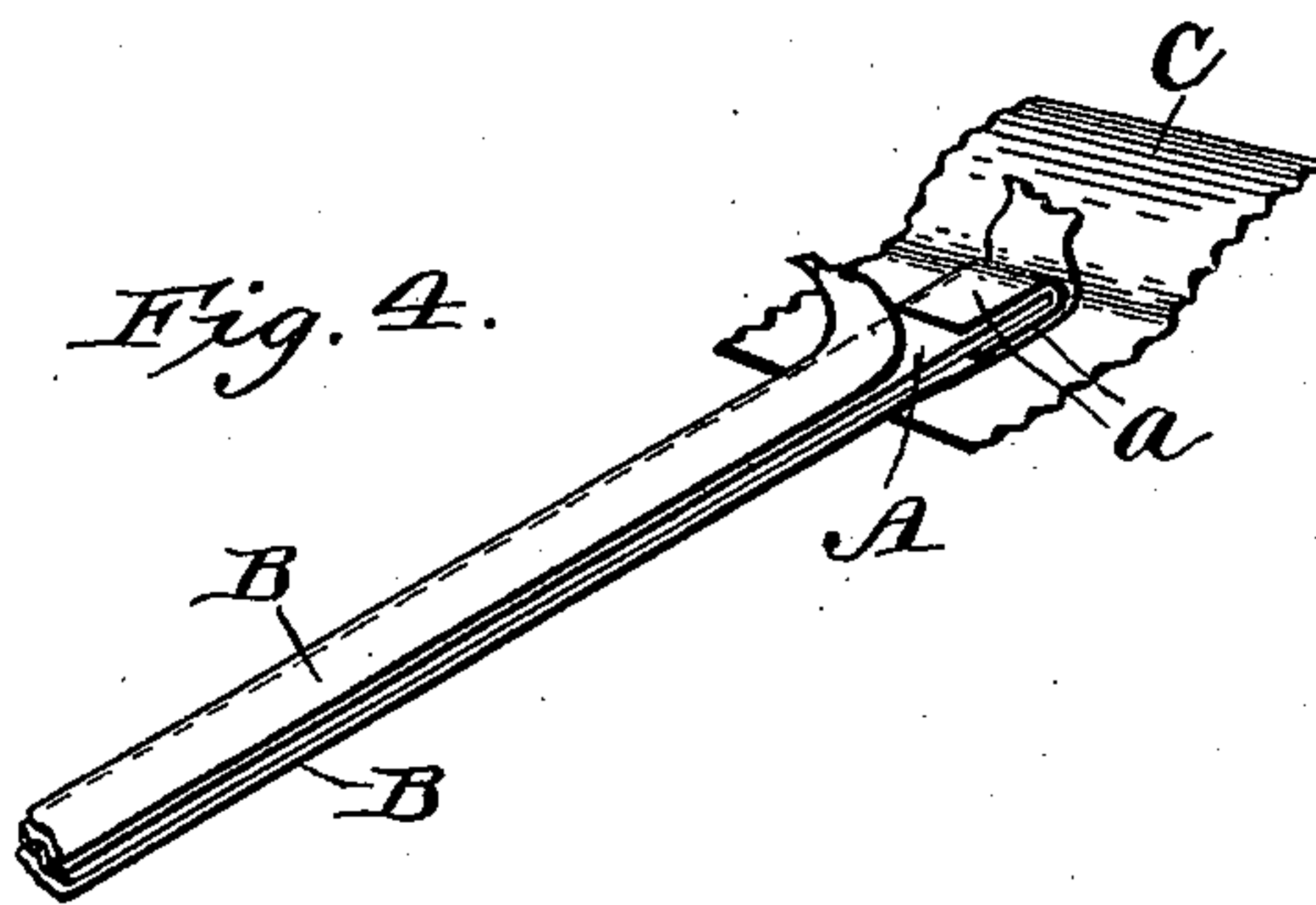
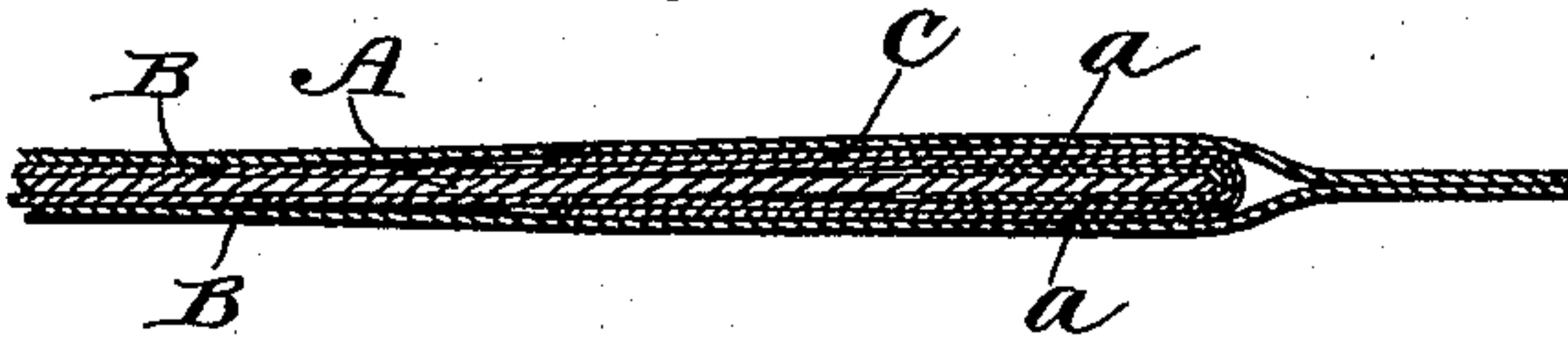


Fig. 5.



Witnesses

*Severance*  
*John E. Smith*

Inventor

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by  
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Attorneys



# UNITED STATES PATENT OFFICE.

HARRISON DEANE STONE, OF DULUTH, MINNESOTA; MARY D. STONE AS  
GUARDIAN OF HARRISON DEANE STONE, MINOR, ASSIGNOR TO THE  
DULUTH DRESS STAY COMPANY, OF MINNESOTA.

## DRESS-STAY.

SPECIFICATION forming part of Letters Patent No. 534,233, dated February 12, 1895.

Application filed August 14, 1894. Serial No. 520,305. (No model.)

*To all whom it may concern:*

Be it known that I, HARRISON DEANE STONE, a citizen of the United States, residing at Duluth, in the county of St. Louis and State of Minnesota, have invented certain new and useful Improvements in Dress-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 improvements in dress stays and it consists in the combination with a stiffening blade, of protecting caps applied on each end of said blade, a covering strip passed longitudinally about the blade and caps, and secured thereto by cement, protecting and attaching caps applied on each end of the blade over this covering and projecting beyond the blade on each side, an outer covering applied outside of these caps and projecting over the sides and ends of the said stiffening blade, the protecting edges being united, and eyelets passed through each end of the projecting sides and the attaching caps and adapted to hold said outer covering firmly in position and provide attaching means outside the blade.

In the accompanying drawings: Figure 1. is a side elevation of a stay constructed according to my invention. Fig. 2. is a vertical longitudinal section of the stay with the outer covering and the attaching caps removed. Fig. 3. is a detail perspective view of one end of the stay showing the outer covering partially removed and the wide protecting and attaching cap exposed. Fig. 4. is a detail perspective view of one end of the stay with the outer covering removed, the inner covering and the attaching and protecting cap turned back, and the inner protecting cap exposed, and Fig. 5. is a detail vertical, longitudinal section of one end of the completed stay.

A in the drawings, is the stiffening blade made of bone, steel, gutta percha or any other like material and preferably slightly rounded at each end. Over these slightly rounded ends are secured protecting caps *a*, of paper or some like material, by means of any suitable cement. A covering B, of cloth or the like material, and just the width of the stiffening blade, is se-

cured about the same, over the caps *a*, by cement; the ends of the covering meeting and overlapping on one side of the blade. End protecting and attaching caps or tips C are secured over the ends of the stiffening blade and over the covering B, by cement. These tips extend over each side of the stiffening blade, at each end, and these extended portions are cemented together thus forming attaching flaps.

An ornamental covering D, preferably of cloth, and consisting of two strips *d*, *d'* of greater length and width than the stiffening blade, are applied to the latter on each side, by cementing, and the portions of the strips that project beyond the sides and ends of the stiffening blade are cemented together thus forming flaps by which the stay may be sewed to the dress or other article.

Eyelets *e* are provided on each side, at each end of the stiffening blade, and pass through the outer covering and the projecting edges of the protecting and attaching caps C. These eyelets are so applied that they bind against the stiffening blade and prevent it from slipping sidewise in the covering, or the covering from slipping and puckering, from the ends toward the center. They also serve to keep the sides of the outer covering from separating in case the cement weakens. They are also used as a means by which the stay may be sewed to a garment.

I prefer to cement all the parts together with gutta percha, or rubber tissue, or analogous material, as this prevents moisture from reaching the stiffening blade and rusting or otherwise injuring the same.

It will be seen from the above that my stiffening blade is fully protected and cannot cut the clothing or person of the wearer, and is not liable to become detached from its covering, as the eyelets *e* hold the same firmly in place, even though the cement fastening the parts together should become useless. It will also be observed that by forming the eyelets in the edges of the covering and not passing them through the stiffening blade, that the latter is not weakened, and at the same time permanent, strong, attaching means are provided which prevent the stiffening blade from



having a sidewise movement in the covering or casing, which movement would greatly wear the covering and cut the threads which attach the stay to the dress. It will also be observed  
5 that by passing the eyelets through the outer protecting caps that the several parts of the stay are firmly held together at these points.

What I claim as my invention, and desire to secure by Letters Patent, is—

10 As an improved article of manufacture, a dress stay comprising in its construction an elastic stiffening blade, fibrous, non-corrosive, protection caps folded over and cemented to the ends of the blade, an inner protecting text-  
15 ile covering of the same width as the stiffening blade and extending the entire length of the same and over the inner caps, outer fibrous protecting and attaching caps applied on each end of the stiffening blade over the inner cov-  
20 ering and inner caps and projecting beyond the stiffening blade on each side, an outer text-

ile covering applied over the inner covering and over the protecting and attaching caps and projecting over the sides and ends of the stiffening blade and secured by cement to both  
25 faces of the inner covering and having its projecting edges cemented together, and eyelets passed through each end of the projecting sides of the outer covering and through the outer attaching caps outside the stiffen-  
30 ing blade and adapted to hold said outer covering firmly in position and prevent the stiffening blade from having a lateral movement and at the same time furnish strong, perma-  
35 nent means of attachment, substantially as described.

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

HARRISON DEANE STONE.

Witnesses:

JAMES T. WATSON,  
E. W. BARKER.