

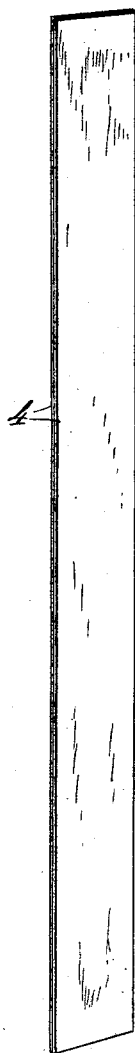
(No Model.)

H. JOHNSTON.  
GARMENT STAY.

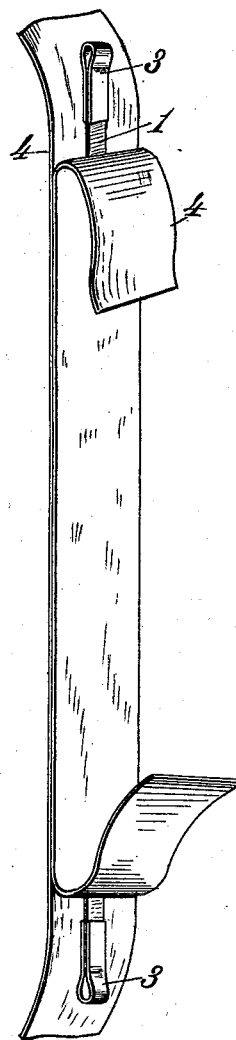
No. 494,064.

Patented Mar. 21, 1893.

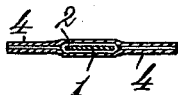
*Fig. 1.*



*Fig. 3.*



*Fig. 2.*



Witnesses,  
*Robert Conant*  
*W. Rea.*

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# UNITED STATES PATENT OFFICE.

HENRY JOHNSTON, OF YPSILANTI, MICHIGAN.

## GARMENT-STAY.

SPECIFICATION forming part of Letters Patent No. 494,064, dated March 21, 1893.

Application filed December 14, 1892. Serial No. 455,156. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY JOHNSTON, a citizen of the United States, residing at Ypsilanti, in the county of Washtenaw and State of Michigan, have invented new and useful Improvements in Garment-Stays, of which the following is a specification.

This invention relates to garment stays and has for its object to provide an inexpensive, durable and elastic waterproof stay that will be free from liability of rust induced by perspiration, thereby obviating consequent damage or discoloration of the cloth or dress goods, and having at its ends guard tips that will not puncture the garment to which the stay may be attached.

The invention consists in the construction and relative arrangement of the several parts of an improved garment stay as hereinafter set forth and claimed.

In the annexed drawings—Figure 1 is a perspective of my improved garment stay. Fig. 2 is a transverse section of the same. Fig. 3 is a view of my improved stay showing the strips of textile covering material partly separated and turned back from the ends of the steel blade to expose the flexible or yielding guard tips that are attached to the ends of the blade.

Referring to the drawings the numeral 1 designates a resilient blade which is preferably composed of steel or other metal. For the purpose of protecting this blade from rust I cover it on all sides with an adhesive waterproof coating 2 consisting preferably of a hot solution of Burgundy pitch to which may be added a small proportion of varnish which renders the waterproof preparation elastic and prevents it from cracking when dried. The Burgundy pitch used in preparing the waterproof coating should be cut cold by means of chloroform, naphtha or other suitable solvent, in an air tight tank. This adhesive waterproof preparation also serves as a secure means for firmly attaching a flexible or yielding guard tip 3 to each end of the stay blade. The flexible or yielding guard tips 3 consist of doubled strips of sheet rubber each having their two ends cemented to the opposite sides of the steel blade 1, the rubber strip being transversely doubled at or about its central portion which projects longitudinally beyond

the end of the steel or blade in the form of a loop. This flexible and loop shaped guard tip 3 is capable of yielding to pressure in every direction thereby making the garment to which the stay is attached more comfortable. A guard tip of this construction, being soft, flexible and elastic, also serves to preserve the garment from being punctured by the ends of the stay blade. For the purpose of attaching or cementing the flexible guard tips 3 to the ends of the blade I preferably use the adhesive water proof preparation of Burgundy pitch as above mentioned. The outer covering portion or casing of the stay consists of any suitable textile material cut into strips 4 of suitable length and width. One side of each textile strip 4 is entirely coated with the adhesive waterproof preparation of Burgundy pitch, hereinbefore described. On the center of the coated side of one of these strips 4 is laid one of the blades 1 having its ends provided with the elastic guard tips 3 and the blade and tips are afterward entirely covered by placing thereon another strip 4 with its coated side downward. By means of a hot iron or other suitable appliance the adhesively coated covering strips 4 are now firmly pressed together and thereby become securely attached to each other and to the inclosed blade and guard tips. It will be understood that the covering strips 4 of textile material are of greater width and length than the inclosed blade and tips, thus providing sufficient margin on both sides and at both ends of the stay to enable it to be readily sewed or otherwise attached to a garment. The adhesive waterproof preparation of Burgundy pitch applied to the blade and to the inner sides of its textile coverings effectually prevents the access of moisture or perspiration and thereby preserves the blade from rust and consequent liability of staining the garment. It will be observed that this adhesive waterproof coating is applied to the entire inner surfaces of the textile covering strips, from edge to edge, so that there is no possibility of the access of moisture at any point. By this means, also, the blade and its textile coverings are more firmly and durably connected and cannot be separated except with great difficulty or under extremely hard usage. The stay is, therefore, not only waterproof but practically in-

destructible, while its flexibility and elasticity are such that it can be worn with great comfort.

What I claim as my invention is—

- 5 The herein described garment stay, composed of the resilient blade having a surrounding adhesive coating, the guard tips, each consisting of a folded rubber strip having its ends secured to the blade by said adhesive coating,  
10 and two covering strips of textile material extended beyond the ends and side edges of the blade and tips and having their entire inner

faces coated with said adhesive material, whereby the covering strips are adherent to each other and to the inclosed blade and tips, 15 substantially as described.

In testimony whereof I have hereunto set my hand and affixed my seal in presence of two subscribing witnesses.

HENRY JOHNSTON. [L. S.]

Witnesses:

EDWARD P. ALLEN,  
TRACY L. TOWNER.