

(Specimens.)

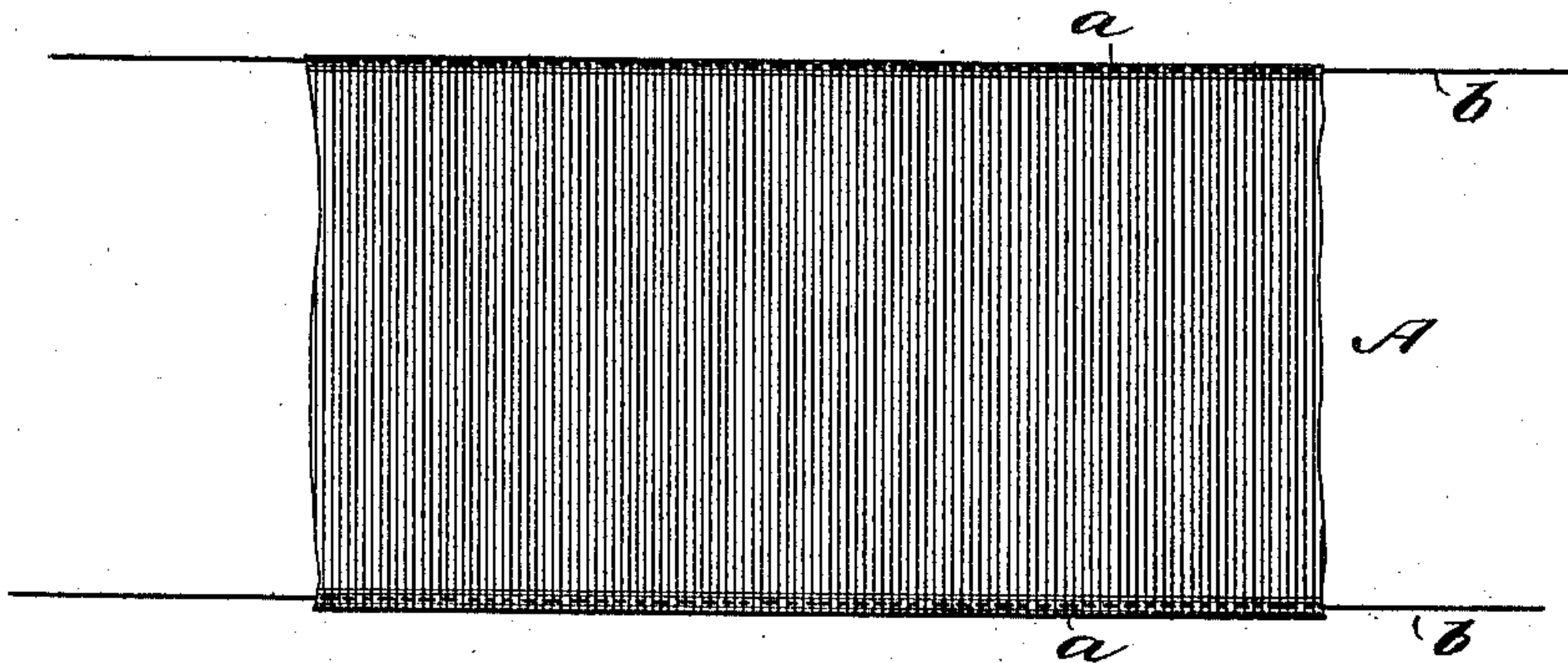
J. W. KELLY..

RIBBON.

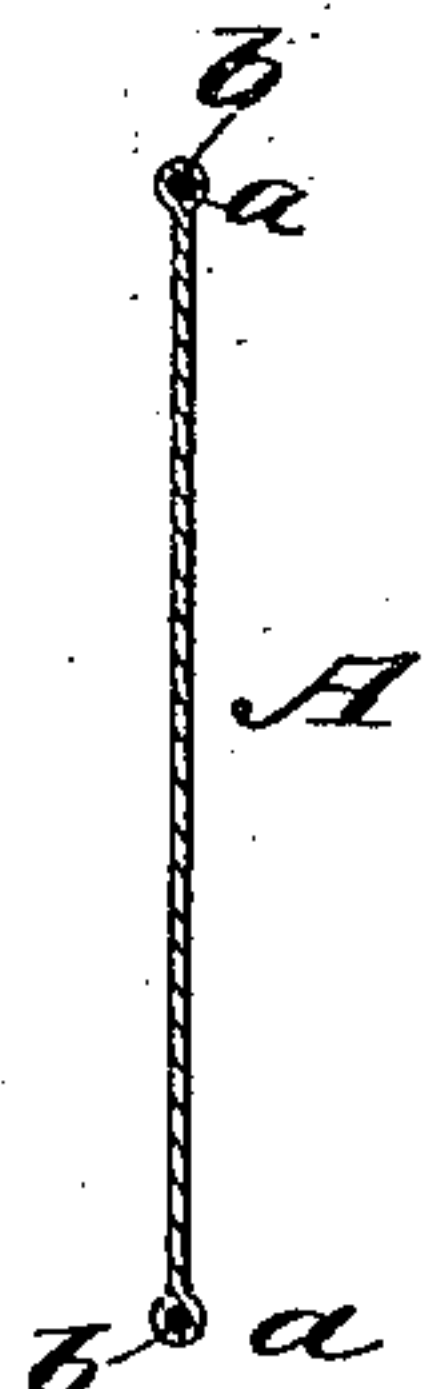
No. 365,689.

Patented June 28, 1887.

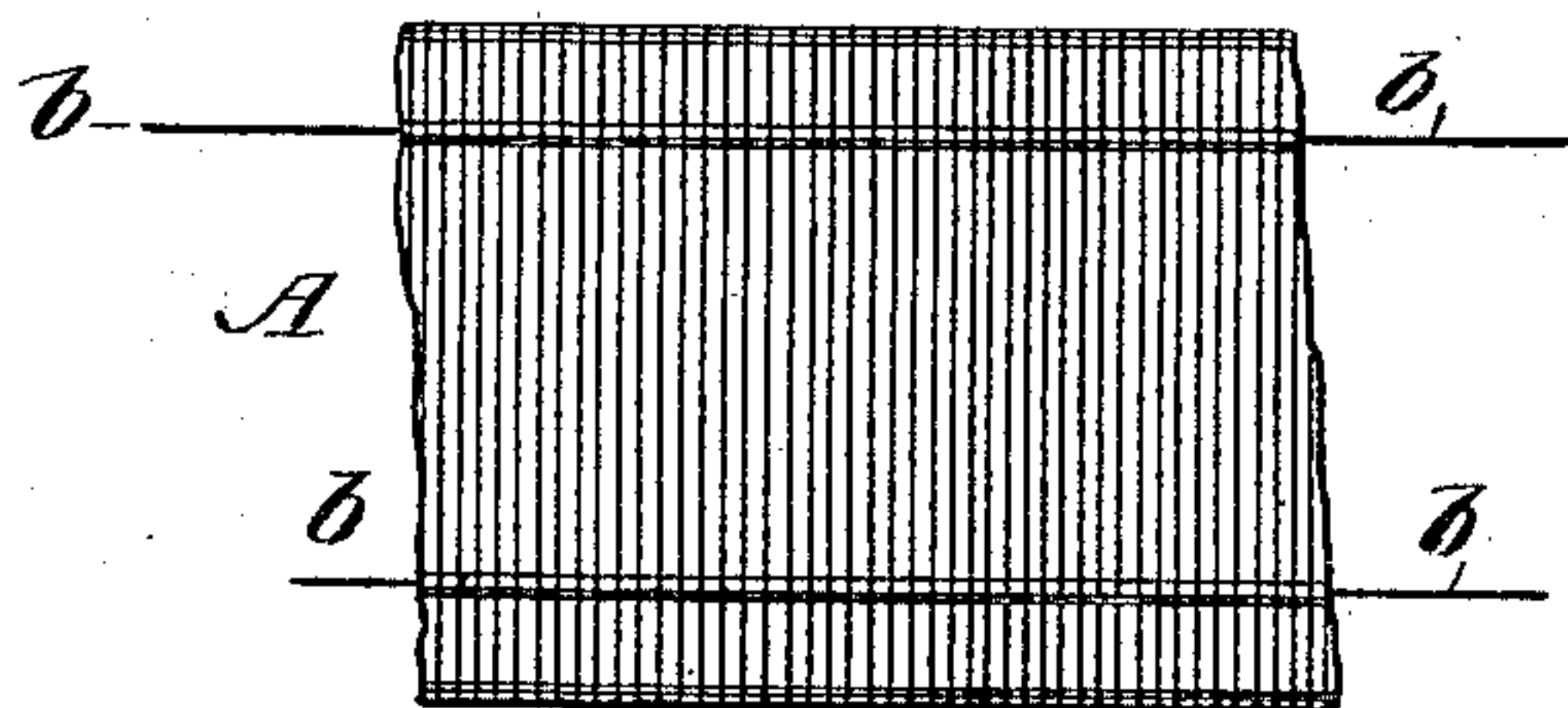
*Fig 1*



*Fig 2*



*Fig 3*



WITNESSES:

*F. M. Arnold*  
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INVENTOR:

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ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOHN W. KELLY, OF WARRENVILLE, NEW JERSEY, ASSIGNOR OF ONE-HALF  
TO FREDERICK W. SEYBEL, OF NEW YORK, N. Y.

## RIBBON.

SPECIFICATION forming part of Letters Patent No. 365,689, dated June 28, 1887.

Application filed November 5, 1885. Serial No. 181,916. (Specimens.)

*To all whom it may concern:*

Be it known that I, JOHN W. KELLY, of Warrentville, in the county of Somerset and State of New Jersey, have invented a new and  
5 useful Improvement in Ribbons, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which the same letters of reference indicate the same or corresponding parts in  
10 the different figures.

Figure 1 is a face view of my improved ribbon. Fig. 2 is a transverse section thereof, and Fig. 3 shows a ribbon with wires in the body portion.

15 The object of my invention is to provide a ribbon which will firmly retain its position and form when tied, folded, looped, or shirred; and to this end my invention consists of a ribbon having smooth or uncovered small flexi-  
20 ble wires woven into it longitudinally in addition to the warp-threads, so that when the ribbon is to be used in the ordinary manner the wires may be withdrawn without injury to the ribbon and leave the same with the  
25 usual amount of material in it, and with the ordinary appearance.

My invention consists, also, of a ribbon having a flexible smooth wire or wires woven into its longitudinal edge or edges, and permitting  
30 its adjustment for shirring, puffing, and the like, and operating to hold said ribbon in any position or form in which it may be placed. This avoids the necessity of adding wire backing for making bows, &c., for trimming hats  
33 and the like, and enhances the appearance and durability of trimmings generally, the wires holding them firmly in whatever positions they may be made to assume.

In carrying out my invention I weave the  
40 ribbon A in the manner well known in the art, and in addition to and among the threads of the warp in the body or edges thereof, or both, I introduce smooth or uncovered flexible wires b, which are entirely inclosed in the process  
45 of weaving by the filling, but are capable of being withdrawn in whole or in part without injury to the ribbon or detriment to its appearance. I employ wires made of any suitable metal that is unoxidizable and annealed,

so that they may be readily bent to conform 50  
to the contour of the ribbon, and operate to retain the same in the shape in which it is placed. With the exception of the addition of the wires, the ribbon is of the ordinary kind, and may be used as such by removing the  
55 wires therefrom; also, as the wires have smooth or uncovered surfaces, they permit the ribbon to be slid thereon, so as to be gathered, shirred, puffed or looped, as desired, and as said wires are inclosed or woven in the edges 60  
or body of the ribbon, the latter, when folded, tied, or looped, will be retained firmly in any shape and position in which it may be placed, as stated.

I am aware that it is not new to combine 65  
wire with woven webbing to strengthen the same, to form a narrow fabric having inclosed wires and a covering strip joined by cementing material, nor to form what are termed  
"washer-cloths," to be used in preparing and 70  
spinning cotton, with a warp of lead or other metal wire along each side of a row of holes and along the outer edge of each strip for strengthening the cloth, &c., and of course I do not claim the same as my invention, as 75  
neither of said fabrics constitutes a ribbon possessing the characteristics and capabilities incident to my invention, as above described.

Having thus fully described my invention, what I claim as new is— 80

1. As a new article of manufacture, a ribbon provided with smooth or uncovered flexible wires, which are woven into it longitudinally in addition to the warp-threads, and capable of removal in whole or in part, substantially as and for the purpose set forth. 85

2. As a new article of manufacture, a ribbon provided with a flexible smooth wire or wires woven into its longitudinal edge or edges, and permitting of its adjustment for  
90 shirring, puffing, and the like, and operating to hold said ribbon in any position or form in which it may be placed, substantially as described.

JOHN W. KELLY.

Witnesses:

GEO. M. HOPKINS,  
C. SEDGWICK.