

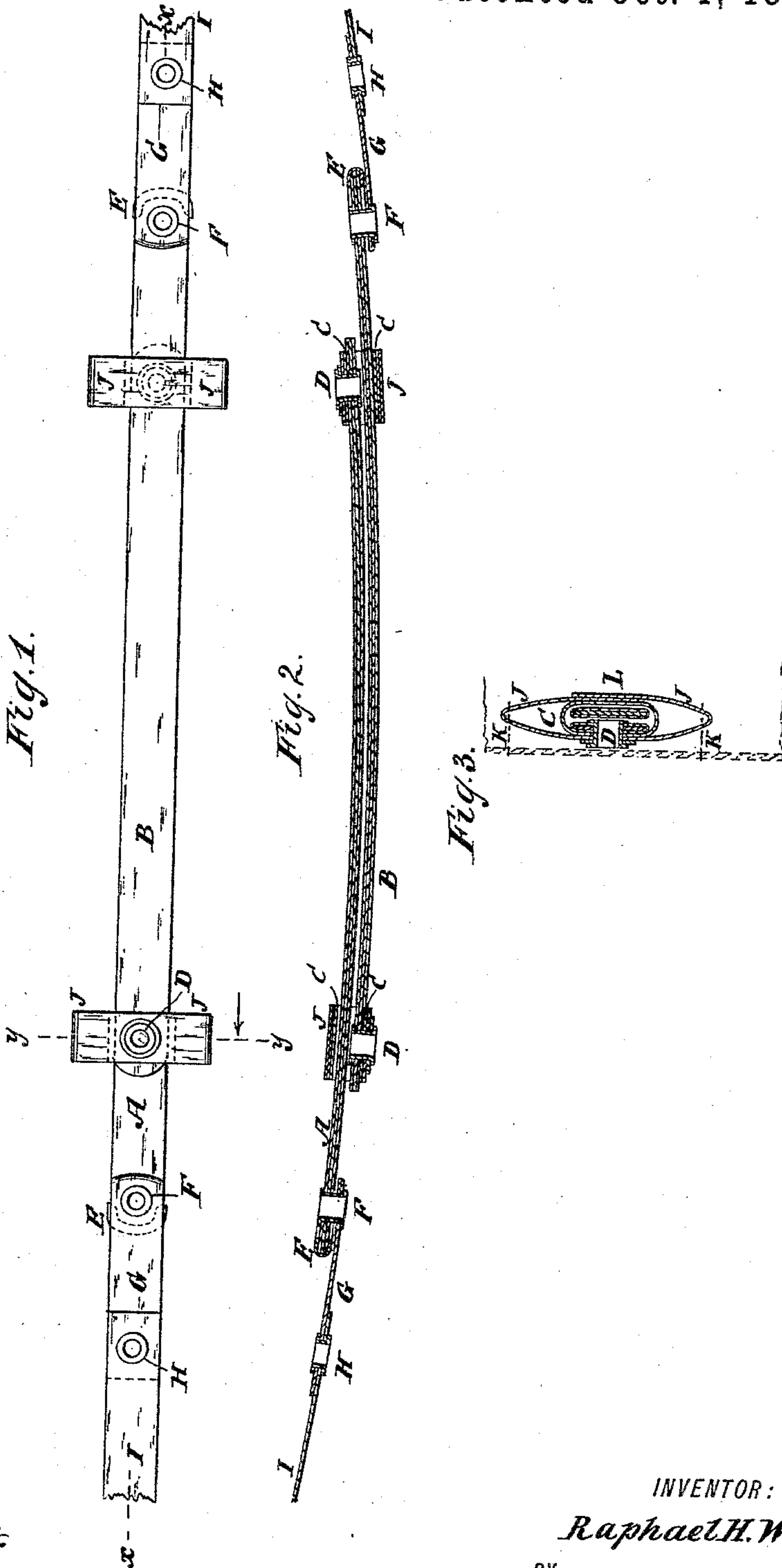
(No Model.)

R. H. WOLFF.

DRESS SPRING.

No. 412,152.

Patented Oct. 1, 1889.



WITNESSES:

*Eduard Wolff.*  
*William Miller*

INVENTOR:

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BY

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ATTORNEYS

# UNITED STATES PATENT OFFICE.

RAPHAEL H. WOLFF, OF NEW YORK, N. Y.

## DRESS-SPRING.

SPECIFICATION forming part of Letters Patent No. 412,152, dated October 1, 1889.

Application filed April 19, 1889. Serial No. 307,655. (No model.)

*To all whom it may concern:*

Be it known that I, RAPHAEL H. WOLFF, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented new and useful Improvements in Dress-Springs, of which the following is a specification.

This invention relates to dress-springs; and it consists in a novel construction thereof whereby the dress-spring is made adjustable to suit persons of different proportions, as is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of a dress-spring constructed according to my invention. Fig. 2 is a longitudinal section on the line *x x* of Fig. 1. Fig. 3 is a transverse section on the line *y y* of Fig. 1.

Similar letters indicate corresponding parts.

The improved dress-spring is composed of two flat springs A B, placed one upon the other and maintained in that relation by means of guide-loops C C, which are secured on the inner end of each spring by means of eyelets D, which fasten the loops to the ends of the respective springs in such a manner as to allow the other spring to slide freely through the loops. The springs are provided with the usual covering of woven fabric, as represented in the sectional views, and the outer end of each spring is provided with the usual metal binding-tip E. To the outer end of each spring is attached by the eyelet-fastening F an elastic strap G, to the ends of which straps G are fastened by eyelets H the usual fastening-strings I I, which serve to fasten the dress-spring to the person of the wearer and to impart to it the required curvature. Upon the inner ends of the springs A B, I place supplementary loops J J, which surround the guide-loops C, and are secured both to the said loops C and to the inner ends of the said springs by the eyelets D. The

loops J extend some distance beyond the loops C transversely to the springs, and are preferably made of webbing or other material which is flexible and can be attached by lines of stitching K to the garment of the wearer, as is indicated in Fig. 3. The loops C can be made of any other suitable material.

In applying the improved dress-spring to use it is adjusted by sliding the springs A B upon each other so as to shorten or lengthen the dress-spring, and the supplementary loops J J are then tacked to the adjacent garment by lines of stitching or other suitable means. The fastening-strings I I are then drawn toward each other sufficiently to bend the combined springs A and B and give them the desired curve, after which the outer ends E of the springs are attached to the garment by stitching them thereto through the eyelets F, and the strings being then fastened in place the adjustment is complete.

It is obvious that the adjustment can be readily changed by changing the places of attachment of the supplementary loops J J, so as to bring them nearer to or farther away from each other and fastening them, as before explained.

The loops J J are securely attached to the guide-loops C, being secured to them on one side by the eyelets D, and on the opposite side at L by cement or other suitable means.

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

The springs A B, in combination with the guide-loops C C and supplementary loops J J, substantially as described.

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

RAPHAEL H. WOLFF.

Witnesses:

WILLIAM C. HAUFF,  
ERNST F. KASTENHUBER.