

No. 653,304.

Patented July 10, 1900.

H. G. MACWILLIAM.

SUSPENDERS.

(Application filed Aug. 23, 1899.)

(No Model.)

Fig. 1

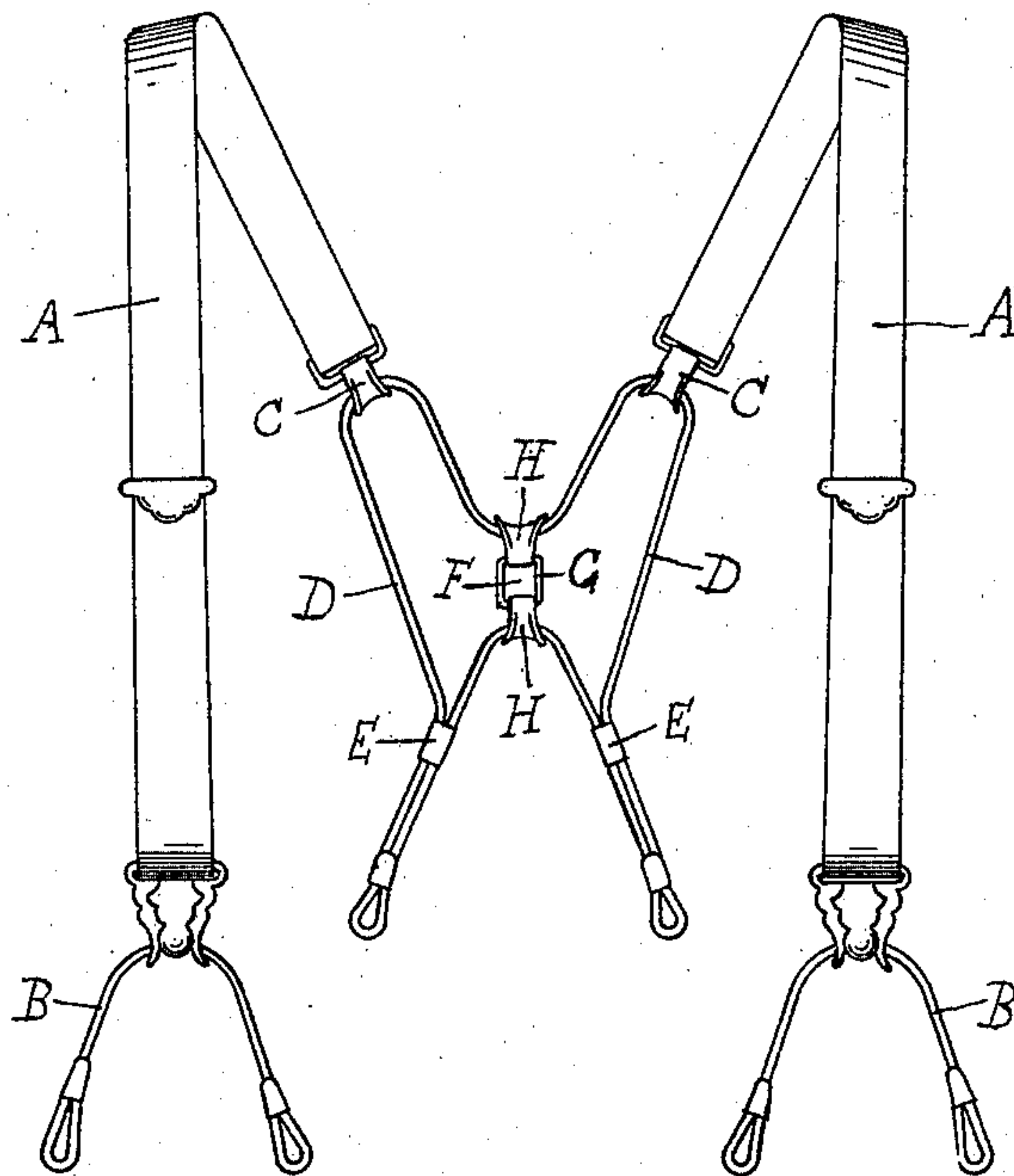


Fig. 2

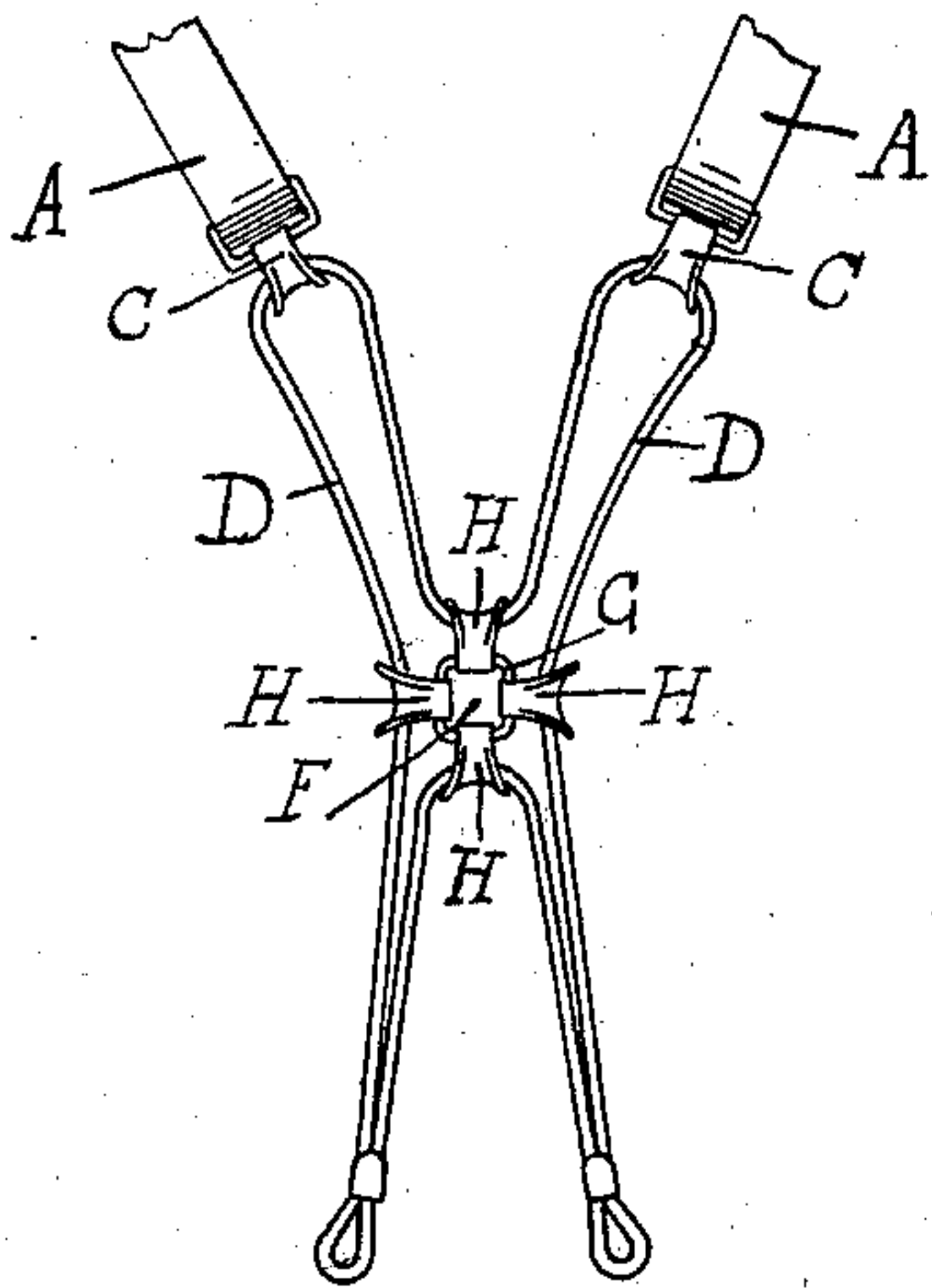
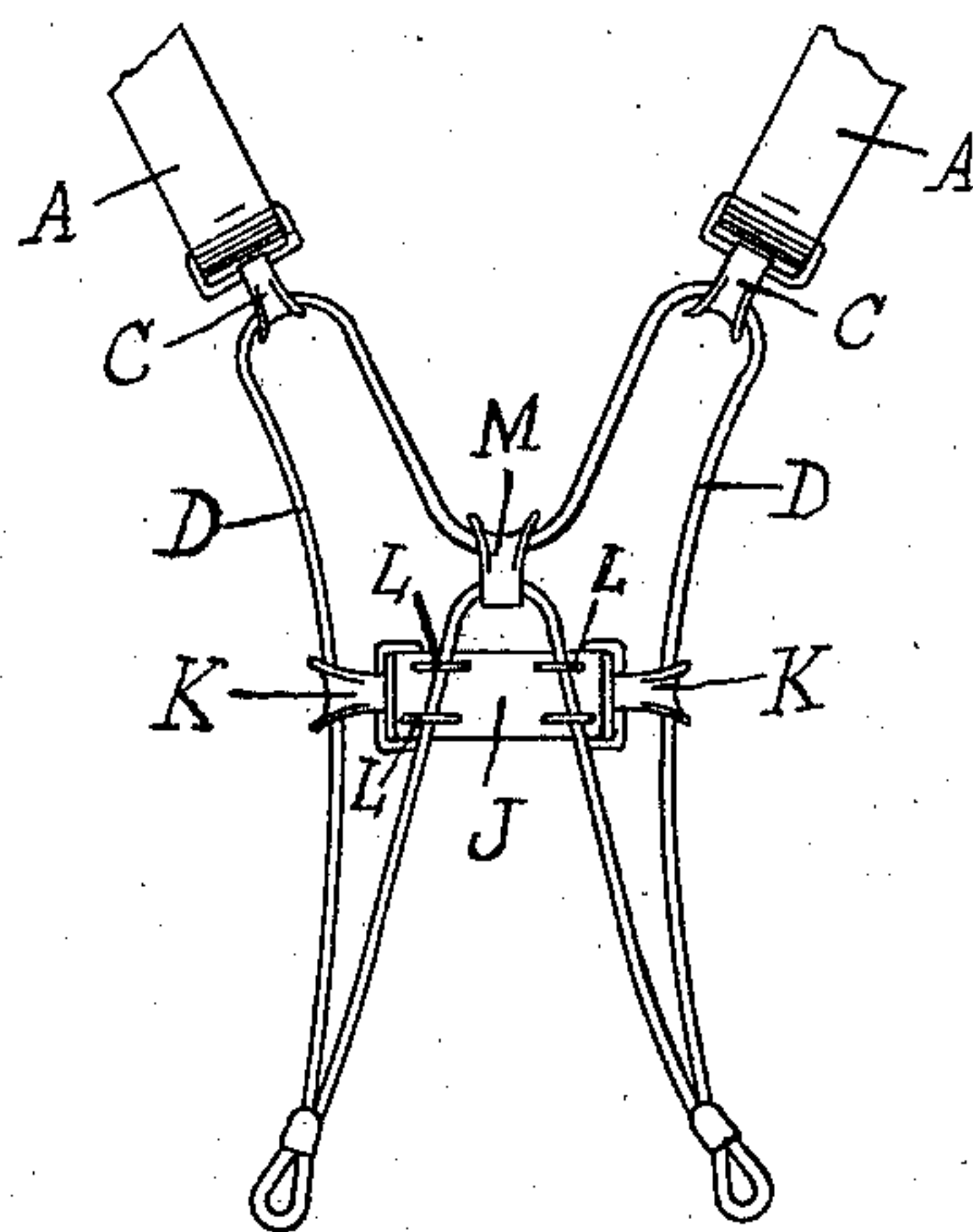


Fig. 3



Witnesses
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HUGH G. MACWILLIAM, OF NEW YORK, N. Y.

SUSPENDERS.

SPECIFICATION forming part of Letters Patent No. 653,304, dated July 10, 1900.

Application filed August 23, 1899. Serial No. 728,187. (No model.)

To all whom it may concern:

Be it known that I, HUGH G. MACWILLIAM, residing at New York city, in the State of New York, have invented certain new and useful Improvements in Suspenders, of which the following is a specification.

My invention relates to improvements in suspenders of the class wherein the shoulder-straps are connected with the rear portion of the trousers by a cord having running connection with said straps and with a central supporting device, the object of my invention being to provide an unyielding hanger having a series of guides for the cord, so that the cord will conform to different heights of shoulder-straps entirely by its own sliding movement instead of being affected by elastic or flexible parts in the hanger.

To this end my invention consists in the improved features of construction hereinafter specifically described and claimed.

In the accompanying drawings, Figure 1 is a view of a pair of suspenders embodying my improved construction of hanger. Figs. 2 and 3 are views illustrating slightly-modified forms of hanger.

In the drawings, A represents the ordinary shoulder-straps, which may be of any suitable material and form of construction, and which are provided at their front ends with suitable cords or straps B, adapted to be buttoned to the trousers, and at their rear ends with suitable guides C to receive the endless cord or strap D, which slides loosely therein. This cord is formed at its lower portion with loops or other suitable means of attachment to the trousers and constitutes the connection with the shoulder-straps and the rear portion of the trousers-band.

The essential feature of my invention resides in the hanger F, which forms a central connecting and supporting device for the cord D. This hanger consists of an unyielding band G, preferably metallic, carrying a series of guides H, through which the cord D runs. By having the guides H mounted upon an unyielding common support the relative positions of the guides are not changed by a pull upon any part of the cord. This is of advantage in allowing the cord to quickly conform to any change caused by a pull on

one of the shoulder-straps or trousers connections and in preventing the irritation caused in some cases by movement between different loops.

In the form shown in Fig. 1 two guides are carried by and preferably hinged upon the common support G, and the lower portions of the cord are held from spreading by clasps E. The form shown in Fig. 2 corresponds with the construction shown in Fig. 1, except that four guides are carried by the common support instead of two.

In the form shown in Fig. 3 the hanger consists of a central metallic piece J, corresponding to the part in the form shown in Figs. 1 and 2, said part J serving as an unyielding connection between the opposite guides K, through which the cord runs, and also as a support for guides L, through which the lower loop of the cord passes. The lower loop of the cord has a direct sliding connection with the upper portion of the cord by means of an eyelet M.

It will be noted that the essential feature of the three constructions above described is the same—namely, a central unyielding band or piece serving as a common support for two or more guides, through which freely runs the cord which connects the shoulder-straps and trousers-band. The hanger constituting, as it does, an unyielding connection between opposite guides prevents the spreading of said guides and the consequent distortion of the cord.

I claim—

1. A pair of suspenders, comprising the shoulder-straps, a hanger comprising loops hinged at substantially-equal distances apart and all directly upon a common support, and an endless cord engaging all of said loops and the rear ends of the shoulder-straps and adapted to be detachably connected with the rear of the trousers-band.

2. In a suspender of the class described, a hanger consisting of a plurality of loops all hinged directly upon, and extending outwardly from, a central rigid supporting device.

3. A pair of suspenders comprising shoulder-straps, and means for connecting the same with the rear portion of the trousers consist-

ing of a rigid supporting device, a plurality
of loops all hinged directly upon, and pro-
jecting outwardly from, said supporting de-
vice, and an endless cord having running en-
5 gagement with all of said loops and with the
rear ends of the shoulder-straps and means
for detachable connection with the trousers.

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

HUGH G. MACWILLIAM.

Witnesses:

ARTHUR P. LOTHROP,
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