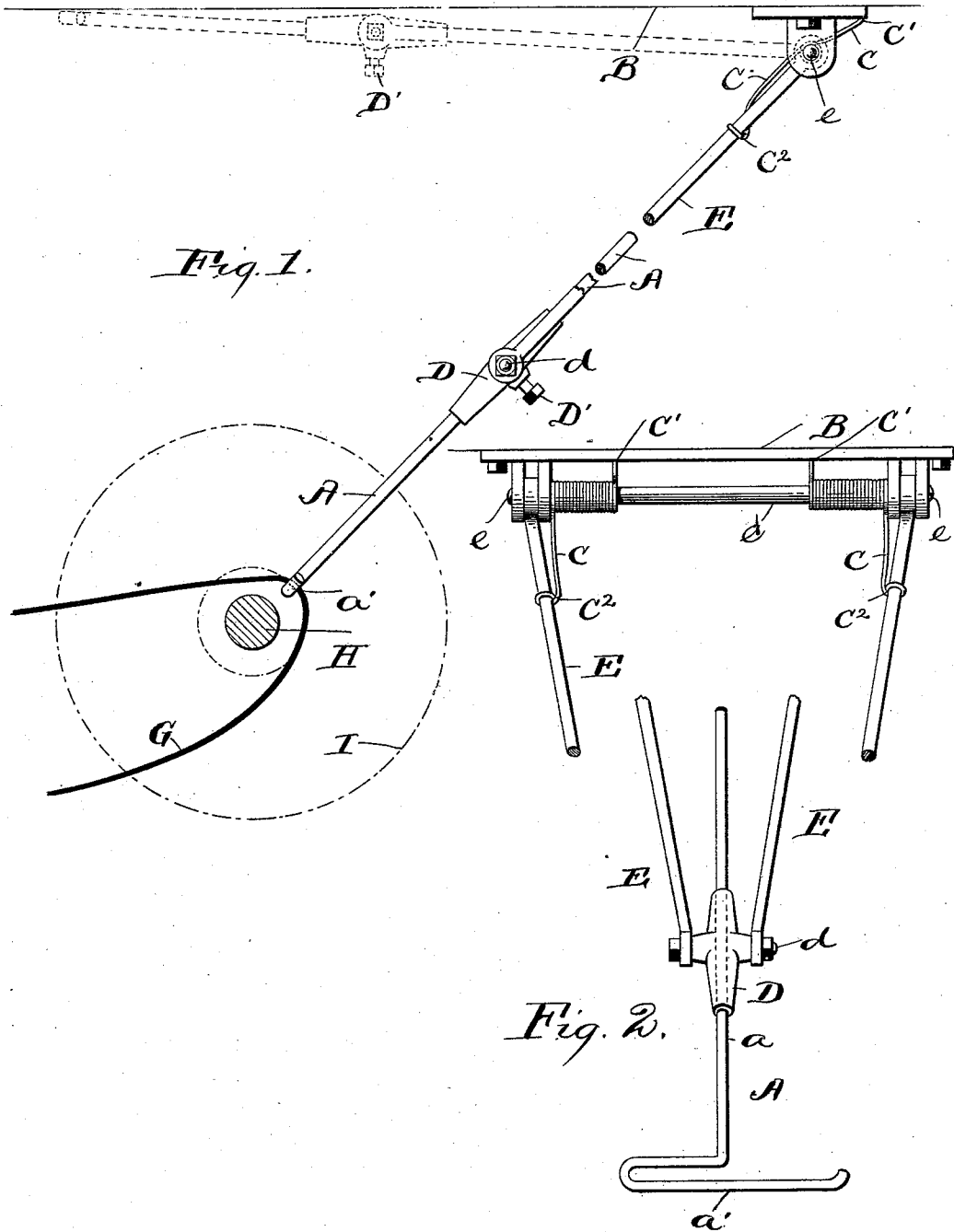


(No Model.)

J. FREEMAN & F. D. MARBLE.  
BELT SUSPENDER.

No. 533,882.

Patented Feb. 12, 1895.



Witnesses.  
E. B. Gilchrist  
C. Wood

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John Freeman and  
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their Attorney.

# UNITED STATES PATENT OFFICE.

JOHN FREEMAN, OF BEDFORD, AND FRANK D. MARBLE, OF KENT, OHIO.

## BELT-SUSPENDER.

SPECIFICATION forming part of Letters Patent No. 533,882, dated February 12, 1895.

Application filed April 24, 1894. Serial No. 508,778. (No model.)

*To all whom it may concern:*

Be it known that we, JOHN FREEMAN, of Bedford, in the county of Cuyahoga, and FRANK D. MARBLE, of Kent, in the county of Portage, State of Ohio, have invented certain new and useful Improvements in Belt-Suspenders; and we 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 pertains to make and use the same.

Our invention relates to improvements in belt-suspenders for the suspension of a belt thrown off its pulley and not in service; the object being to construct a device adapted to hold an idle belt away from the shaft and pulley, so that the belt is not liable to rub against the shaft, or pulley, or both, resulting in the prolongation of the life of the belt.

With this object in view, our invention consists in certain features of construction, and in combinations of parts, hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of a belt-suspender embodying our invention, showing its application in solid lines, and showing, in dotted lines, the position of the suspender when not in service, portions being broken away to reduce the size of the figure. Fig. 2 is an elevation, with portions broken away to reduce the size of the figure.

Our improved belt-suspender consists, in the main, of a belt-engaging member A, that is pivotally secured or connected with the ceiling or wall B, and is acted upon by one or more springs C acting in the direction to hold or retain it out of the way of the belt, shaft and pulley. A preferable construction is shown in the drawings, wherein member A is adjustable in the direction to adapt it for use in connection with belts located at different elevations, member A, in the instance illustrated, consisting of a metallic rod *a*, that, at one end, is provided with a hook-shaped or bent member *a'* adapted to extend over one edge of and in under the belt to be held off or away from the pulley or shaft, and extends through and has bearing in a sleeve D that

is pivotally supported, as at *d*, between the outer or free ends of two arms or bars E that are pivotally connected, as at *e*, to the supporting-wall or ceiling in any approved manner, member A being held in the desired adjustment by means of a set-screw D'.

Two springs C for holding the belt-suspender, when idle, out of the way of the belt, shaft and pulley, are preferably provided, the same being preferably of the coiled variety and coiled around a rod or pin that constitutes the pivot of the pivotal connection of arms or bars E with the supporting-wall or ceiling, the one end of said springs being shown secured to the supporting-wall or ceiling, as at C', and the other end engaging arms or bars E, as at C<sup>2</sup>.

G, H and I designate a belt, shaft and pulley, respectively.

The device is actuated into an operative position by hand or by any suitable tool adapted to engage the device and capable of manipulation by hand.

What we claim is—

1. A belt-suspender consisting of a sleeve D, pivotally supported, a belt engaging member A extending through and adjustable endwise of said sleeve and suitable means for securing the belt-engaging-member in the desired adjustment, substantially as set forth.

2. A belt-suspender consisting of two arms or bars E pivotally supported, as at *e*, sleeve D pivotally supported between the free ends of said arms or bars, and a belt-engaging-member A extending through and adjustable endwise of said sleeve, and suitable means for securing the belt-engaging-member in the desired adjustment, the parts being arranged substantially as shown, for the purpose specified.

In testimony whereof we sign this specification, in the presence of two witnesses, this 24th day of March, 1894.

JOHN FREEMAN.  
FRANK D. MARBLE.

Witnesses:

C. H. DORER,  
ELLA E. TILDEN.