

(Model.)

D. H. & J. H. PAYNE.
Suspension Clothes Line Pulley.

No. 236,076.

Patented Dec. 28, 1880.

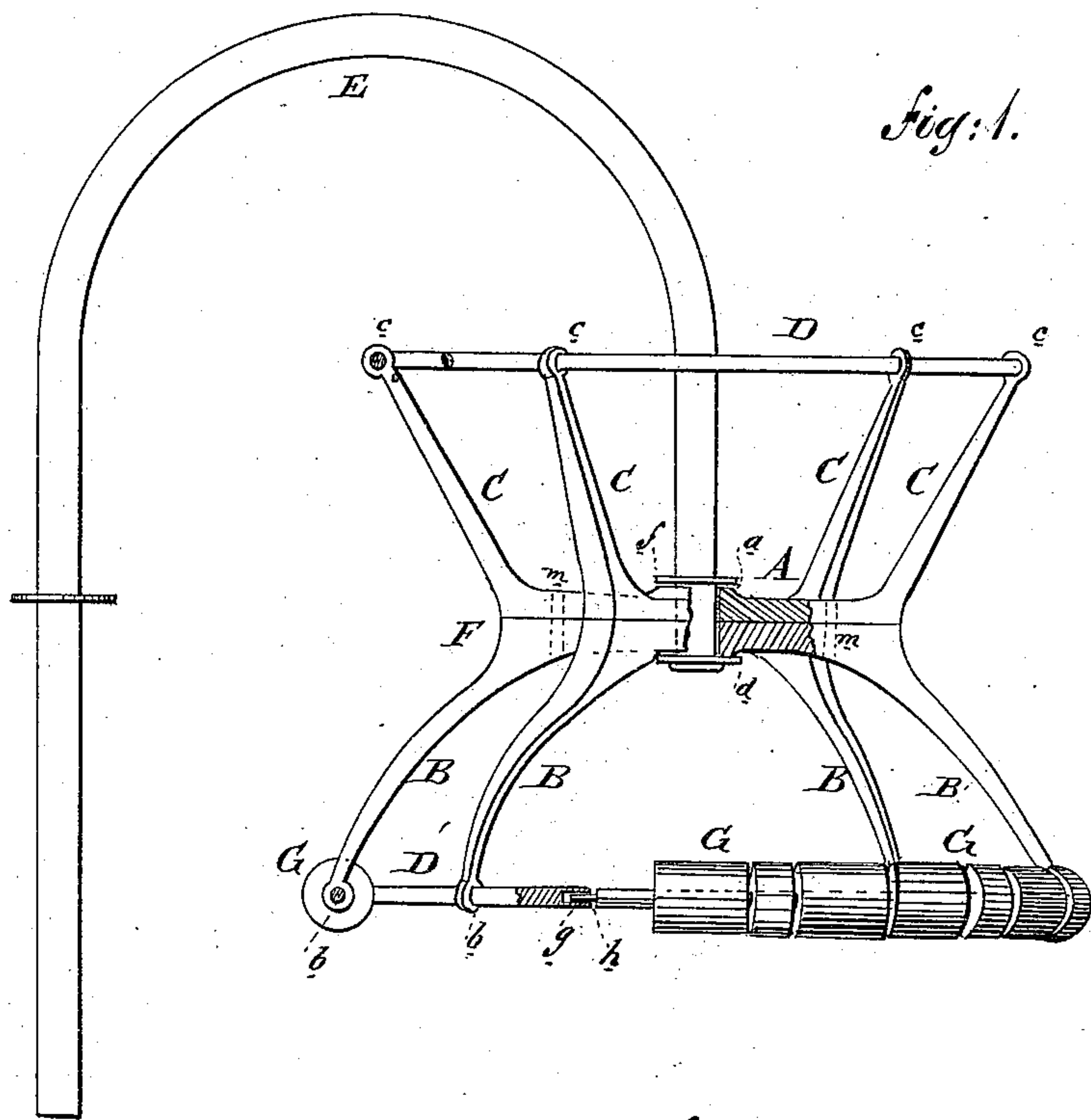
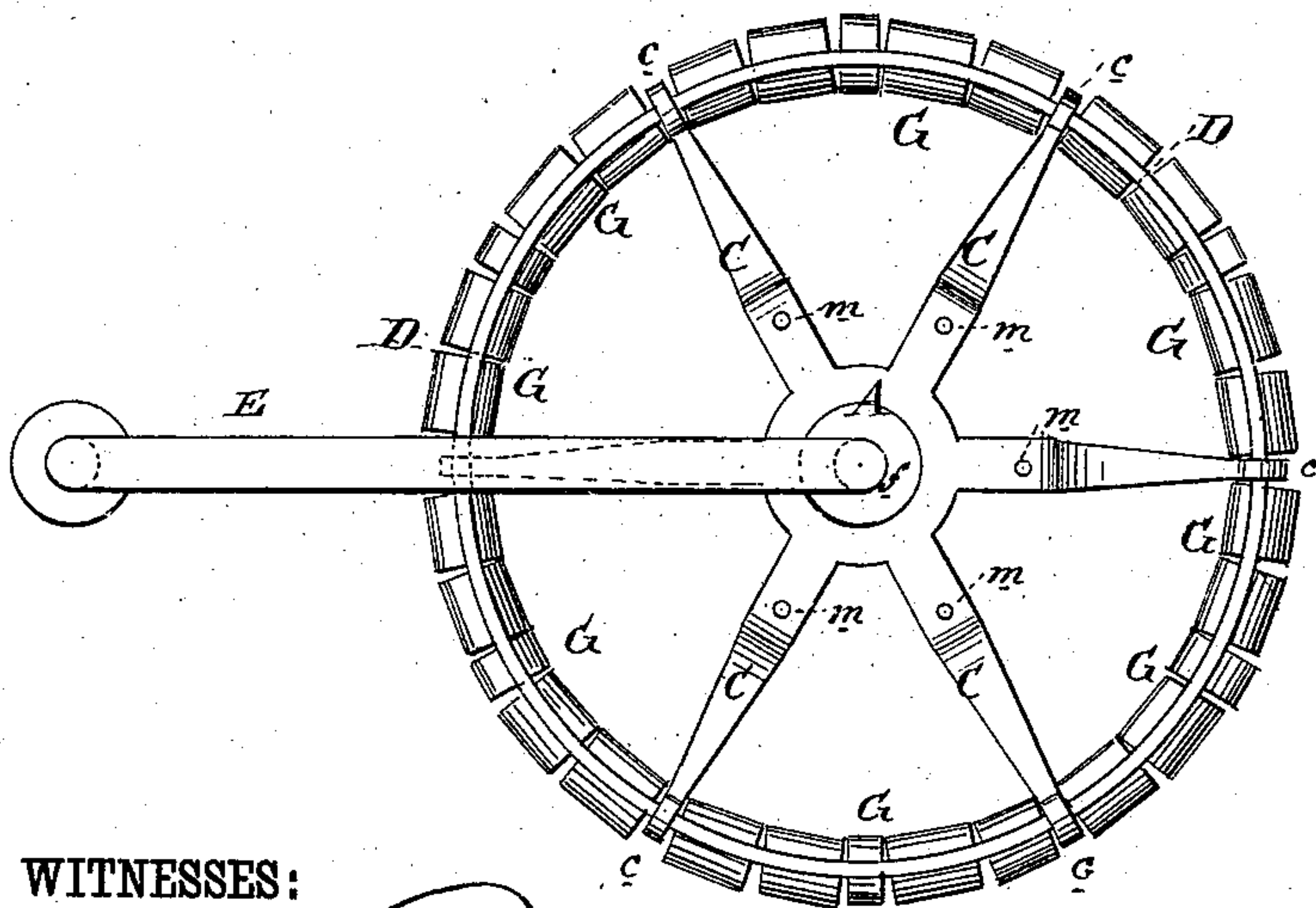


Fig: 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

DAVID H. PAYNE AND JEROME H. PAYNE, OF TROY, NEW YORK.

SUSPENSION CLOTHES-LINE PULLEY.

SPECIFICATION forming part of Letters Patent No. 236,076, dated December 28, 1880.

Application filed July 17, 1880. (Model.)

To all whom it may concern:

Be it known that we, DAVID H. PAYNE and JEROME H. PAYNE, of Troy, in the county of Rensselaer and State of New York, have
5 invented a new and Improved Suspension Clothes-Line Pulley, of which the following is a specification.

The invention consists in the improvement of clothes-line pulleys by combining rollers and
10 a lower ring, as hereinafter described.

Figure 1 is an elevation of the pulley, partly in section and with parts broken away to exhibit other parts. Fig. 2 is a plan of the same.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents the disk; B B, the lower curved arms, provided with terminal eyes *b b*; C C, the upward-projecting arms, provided with terminal eyes *c c*, and D
20 D' the rings or flanges passing through the eyes *b c* of the respective arms B C.

The disk A has a hole, *a*, bored vertically through its center, and the pulley is suspended in a horizontal position by a bent rod, E,
25 which passes through the hole *a*, and is held therein by the nut *d* below the disk A and the washer *f* above the said disk A.

By the upward, downward, and outward projection of the arms B C a groove or throat, F, is formed about the center of the pulley,
30 and in this groove or throat F the bight of the clothes-line is designed to rest.

The lower ring or flange, D', has its opposite ends respectively mortised and tenoned, as
35 shown at *g h*, and is made of spring wire or rod, so that said ends interlock, as shown, but can be drawn apart at will.

It has been found when the line containing clothes is pulled around the pulley on which
40 this is an improvement that sometimes the wet clothes would cling to the lower ring or flange of the pulley with a tendency to draw up into the throat, and thereby bring a considerable strain upon the pulley and interfere
45 with the easy rendering of the line. To remedy this defect we string on the ring or flange

D' a series of rollers, G, that by their rotation prevent the clinging of the clothes, as aforesaid, and thereby relieve all strain upon the pulley; and so thoroughly do these rollers
50 G effect the purpose for which they are designed that a line holding clothes may be stretched at any desired angle from one pulley to another and be pulled around the pulleys with perfect ease and without injury to the
55 clothes, the pulleys being suitably inclined from the horizontal for this purpose.

By connecting the rings or flanges D D' with the arms B C, as shown, a much stronger and more durable pulley is made than when the
60 arms and rings were joined together with solder.

Should a roller, G, break, a new one can be put in its place by simply springing the ends of the ring or flange D' apart.

The curves of the lower arms, B B, tend to keep the line (not shown) from slipping down from the pulley; but should the line, because of its slackness or because of the weight of clothes upon it, tend to slip downward, the
70 said line will be checked and held up by the lower ring or flange, D', and its rollers G, that project beyond the arms B B at their interspaces.

This pulley may be made in two parts united
75 at the center, or be made in a single casting. In the present instance it is made in two parts or sections, that are united at their bases, as shown, by screws, rivets, or other convenient device, *m*.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In a suspension clothes-line pulley, the combination, with the lower ring or flange, D', of
85 the rollers G, substantially as herein shown, and for the purpose described.

DAVID HENRY PAYNE.

JEROME HAMILTON PAYNE.

Witnesses:

JNO. H. O'BRIEN,

ROBT. EDW. CARDEN.