

(No Model.)

E. Y. MOORE.
WHEEL FOR DOOR HANGERS.

No. 516,398.

Patented Mar. 13, 1894.

Fig. 1.

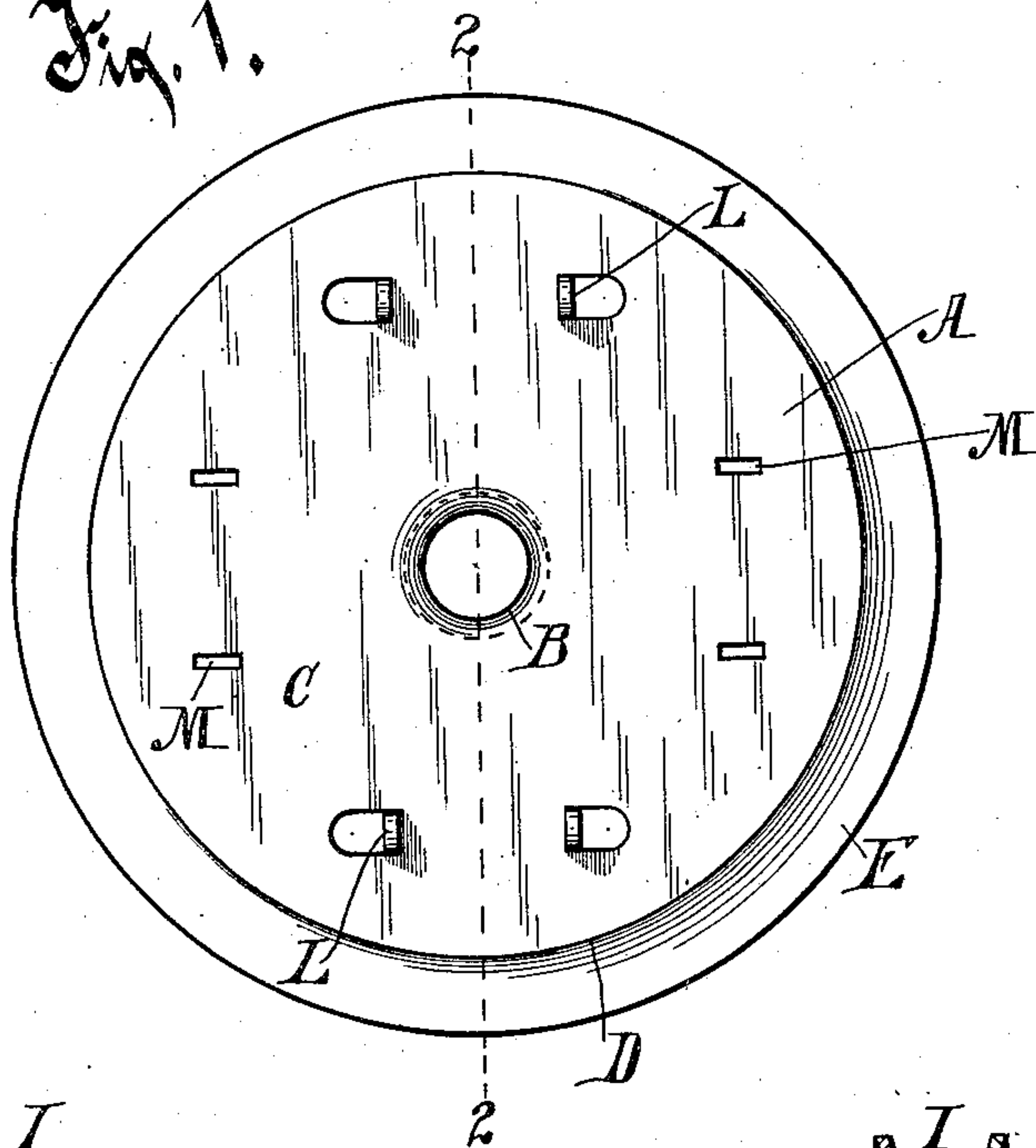


Fig. 2.

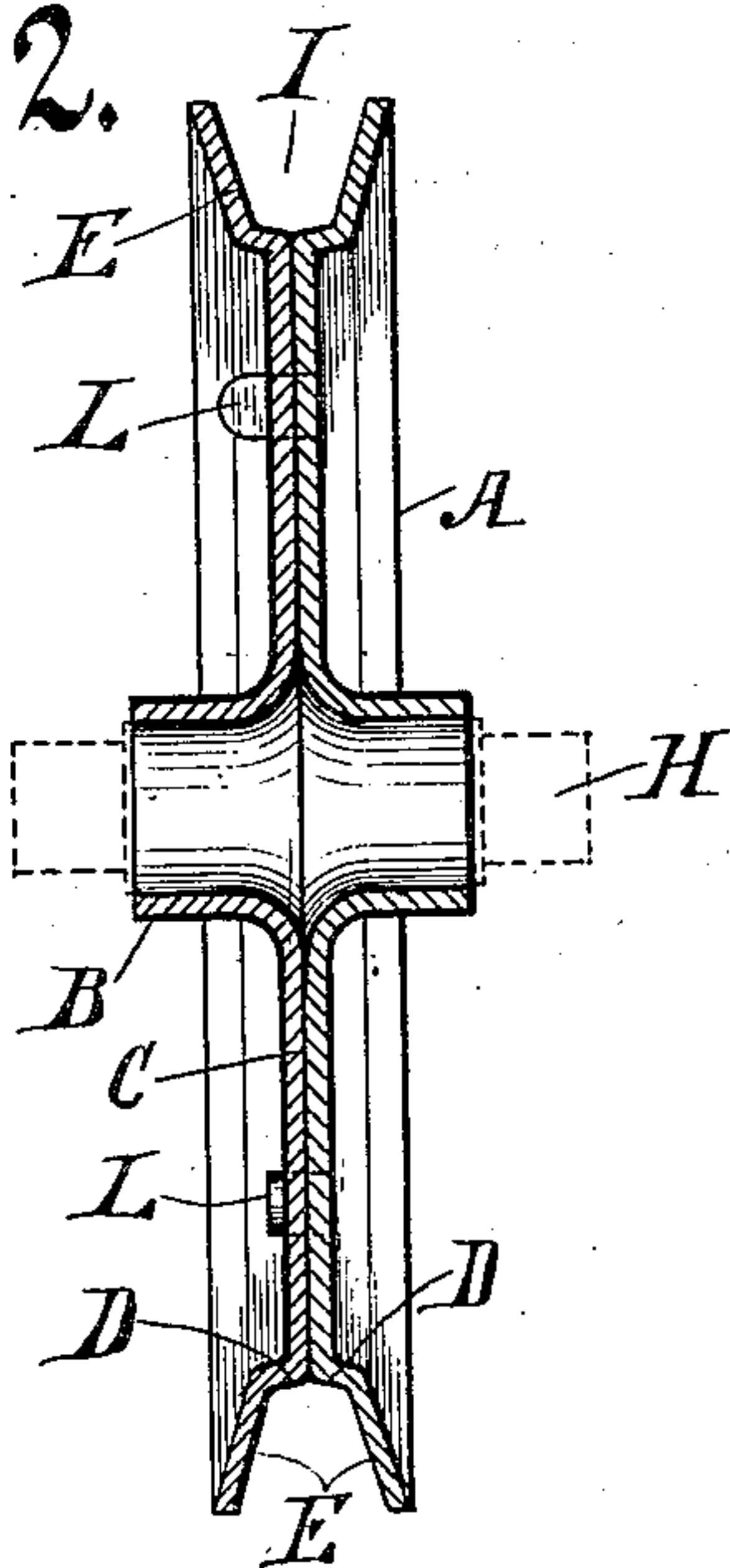
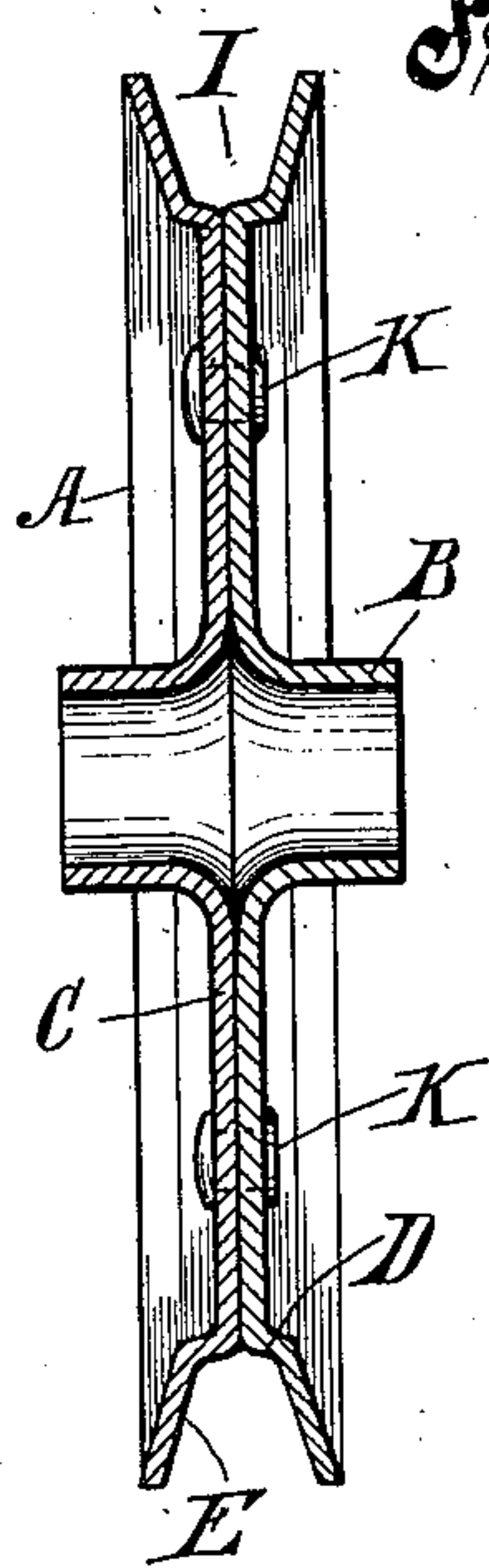


Fig. 3.



Witnesses.

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EDWARD Y. MOORE, OF MILWAUKEE, WISCONSIN.

WHEEL FOR DOOR-HANGERS.

SPECIFICATION forming part of Letters Patent No. 516,398, dated March 13, 1894.

Application filed April 14, 1893. Serial No. 470,286. (No model.)

To all whom it may concern:

Be it known that I, EDWARD Y. MOORE, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a new and useful Improvement in Wheels for Door-Hangers, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

My improved wheel is adapted for use in a door hanger, such as is described in Letters Patent of the United States No. 452,979, issued to me on May 26, 1891, and in analogous devices.

This improved wheel is simple in construction, is inexpensively manufactured, and is strong and enduring for the use for which such wheels are usually employed.

In the drawings, Figure 1, is a side elevation of one of the disks of which my improved wheel is composed. Fig. 2, is a central transverse section of the wheel on line 2—2 of Fig. 1. Fig. 3, is a central transverse section of a slightly modified form of the wheel.

My improved wheel is constructed of sheet metal, preferably of sheet steel, and is formed in two duplicate parts. Each of these parts consists of a disk A cut and swaged into the form shown in Fig. 1, having a laterally projecting annular flange hub B, a radially extending web C, a laterally projecting annular shoulder D, and a peripheral flange E exteriorly of the shoulder and at an oblique or right angle thereto. Two such disks being placed together back to back, form a wheel having a hollow hub, adapted to be mounted loosely on an axle indicated, in dotted lines at II, (Fig. 2) and a peripheral groove I, between the flanges E E, the shoulders D D forming the bottom of the groove and the tread of the wheel. These two disks may be secured rigidly together by rivets K, shown in the modified form illustrated in Fig. 3, but I prefer to form tongues L L cut from the web of each disk, which are arranged to register with and enter corresponding slots M M in the abutting and duplicate disk. For properly disposing these tongues and slots with reference to each other, they are conveniently and preferably arranged in pairs, diametrically opposite each other, and at equal distances on opposite sides of the center of the

disk. These tongues L L are thrust through the slots M M of the abutting disk as shown in Fig. 2, and are then turned down on the outer surface of the web of the other disk, thus clamping the two disks rigidly to each other. In Fig. 2 one of the tongues L, is shown as turned down on the web of the wheel, the other tongue being shown as extended, being not yet turned down, thus clearly exhibiting the form of the tongue.

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

1. A wheel for a door hanger, or analogous purpose, comprising two disks of sheet metal, duplicate in form secured rigidly to each other back to back, each disk being integral and including a laterally projecting annular flange hub, a radially extending web, an annular bearing shoulder and a peripheral flange exteriorly and radially of the annular shoulder, substantially as described.

2. A wheel for a door hanger or analogous purpose, comprising two disks of sheet metal, duplicate in form secured rigidly to each other back to back, each disk being integral and having a laterally projecting annular flange hub, a radially extending web, an annular bearing shoulder, a peripheral flange exteriorly radially of the annular shoulder, and tongues cut from the web projecting laterally through registering slots in the abutting disk and turned down thereon clamping the two disks rigidly to each other, substantially as described.

3. As an article of manufacture an integral disk of sheet metal, comprising an annular hub projecting laterally from the web, a web extending radially from the hub, tongues cut from the web and projecting laterally therefrom, slots provided in the web adapted to register with and receive therein the tongues projecting from the web of a duplicate disk, an annular shoulder at the outer edge of the web, and a peripheral flange exteriorly of the shoulder at an oblique or right angle to the shoulder, substantially as described.

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

EDWARD Y. MOORE.

Witnesses:

C. F. GAFFNEY,
S. R. WALLACE.