

(No Model.)

W. J. LECKIE, Jr.

BUTTON

No. 377,625.

Patented Feb. 7, 1888.

Fig-1-

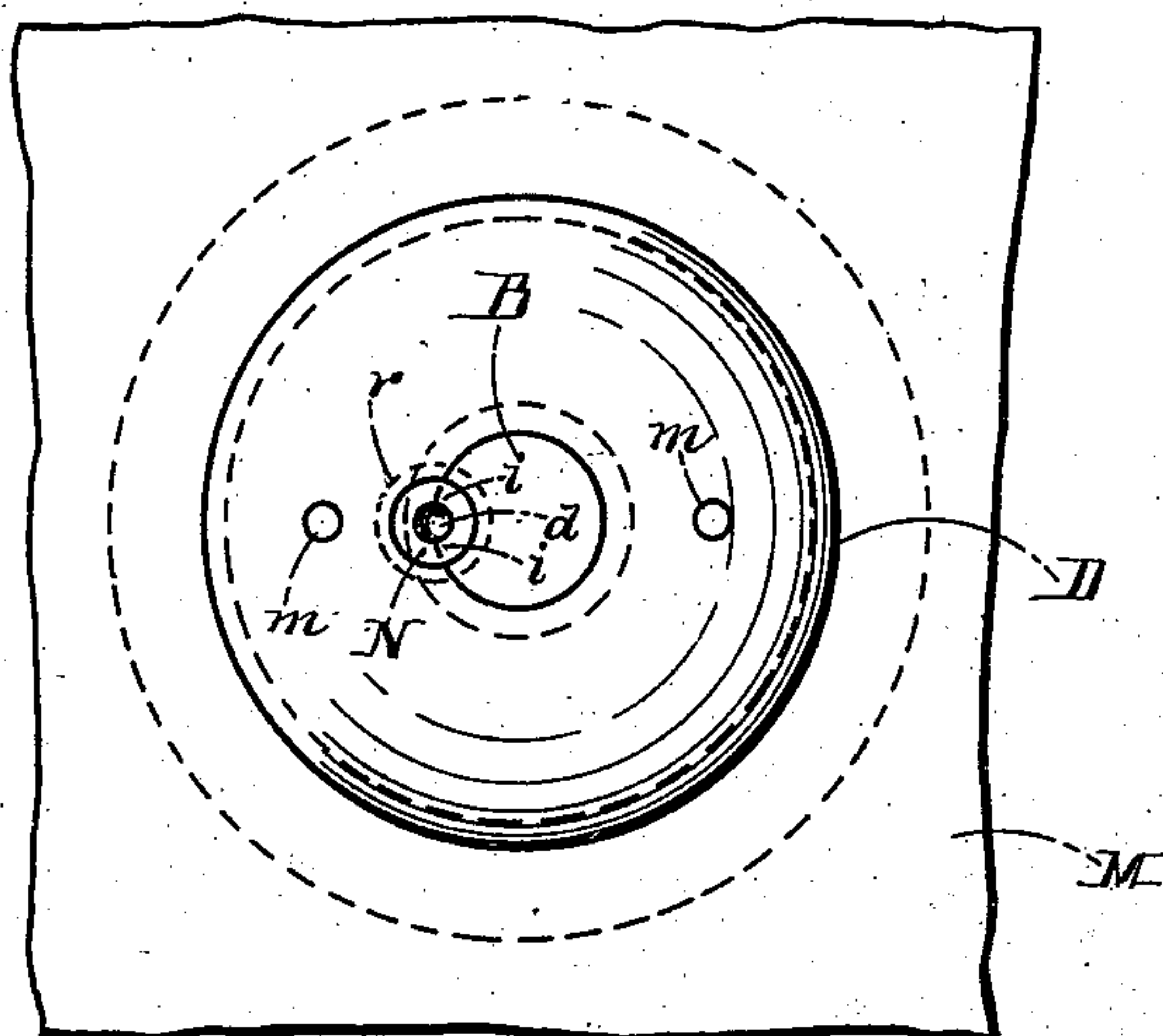


Fig-3-

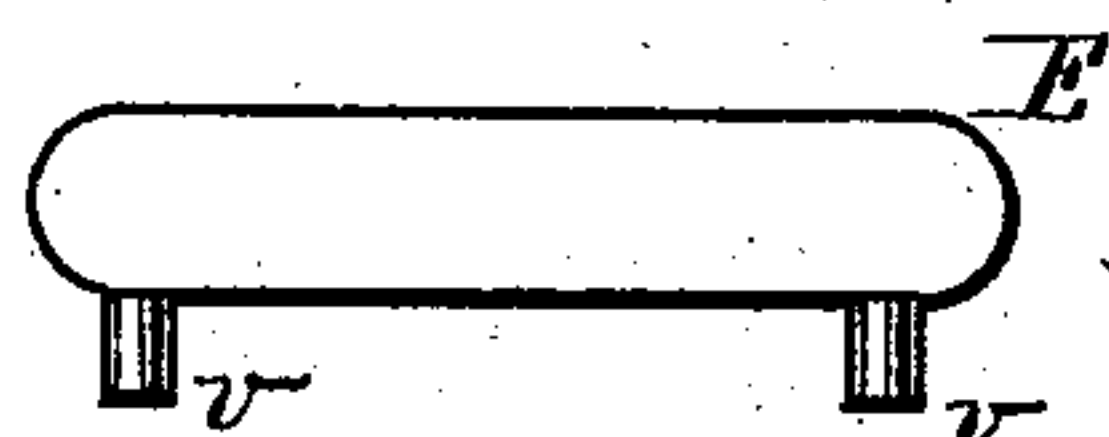


Fig-4-

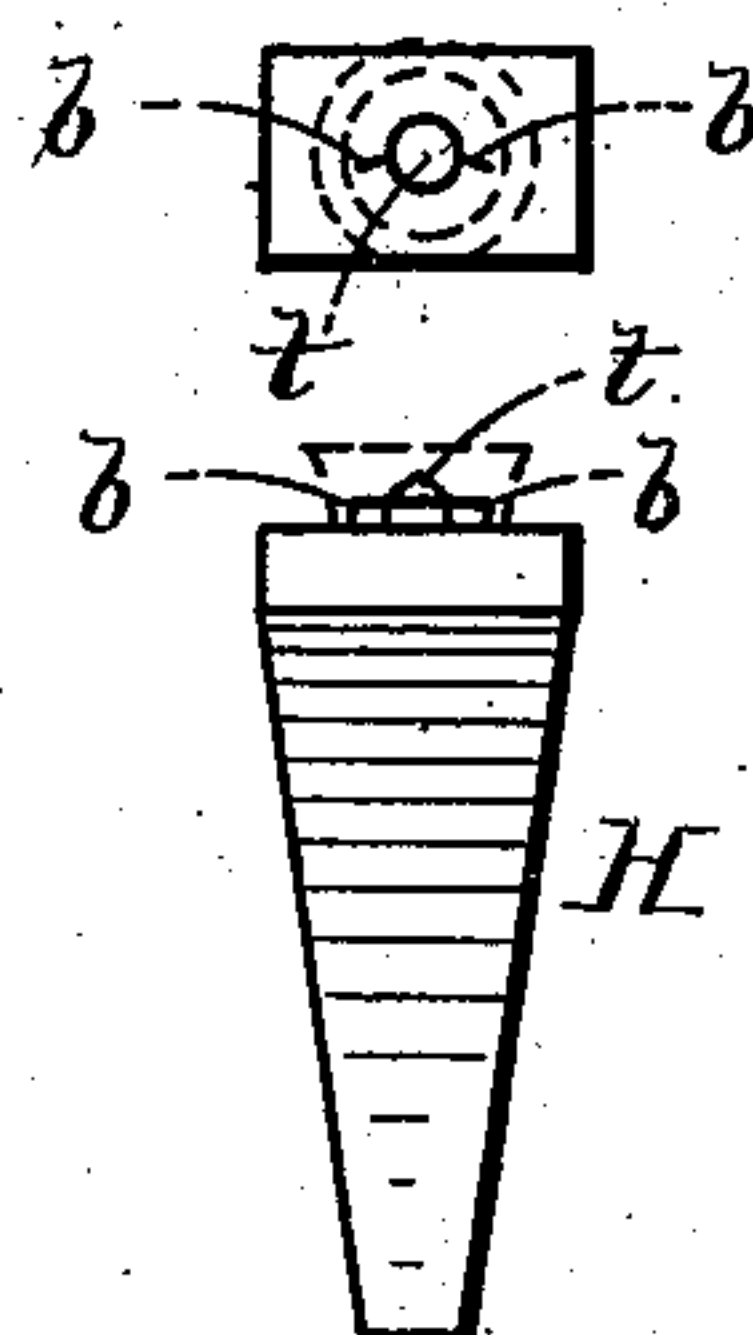


Fig-2-

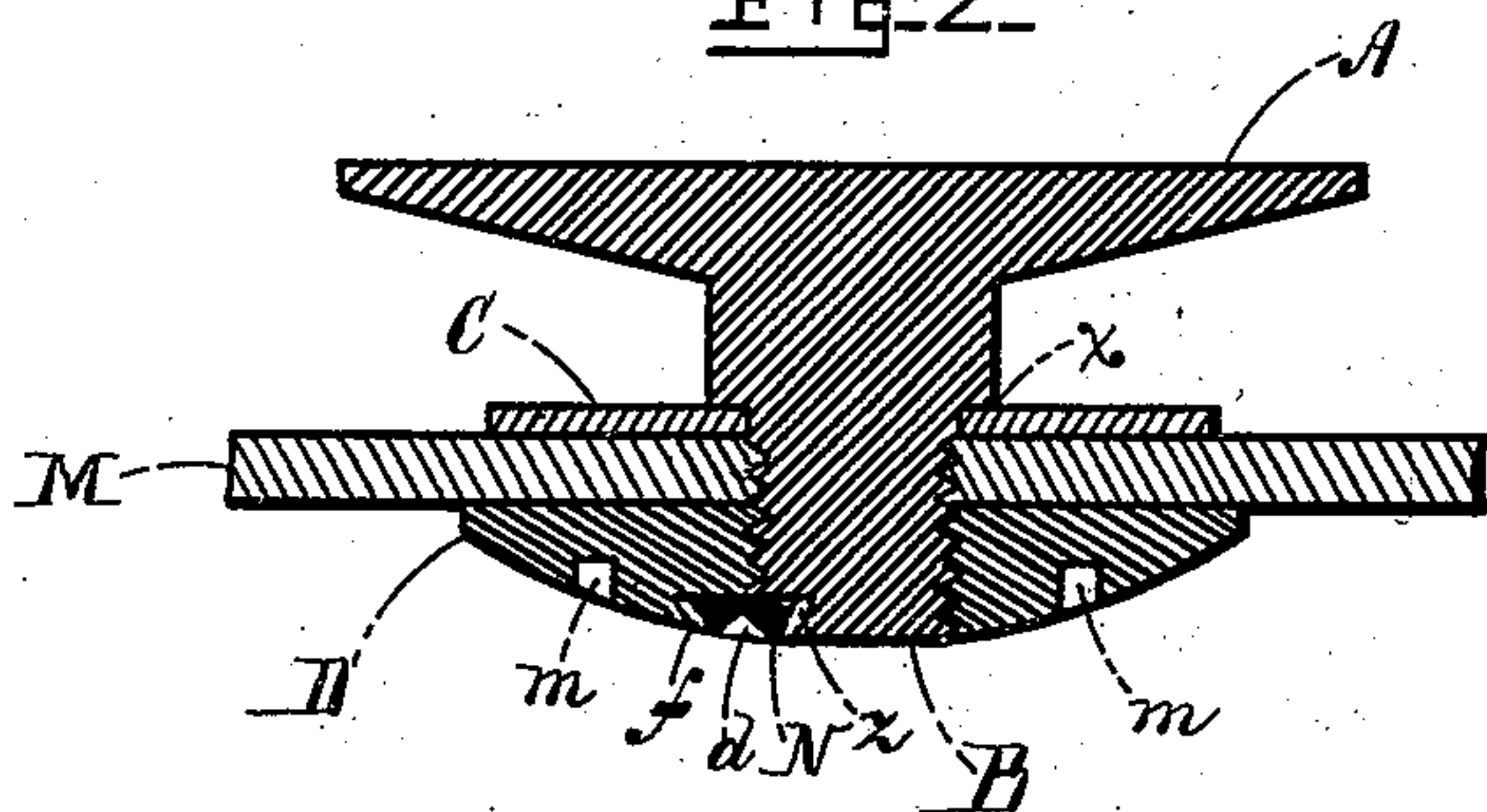
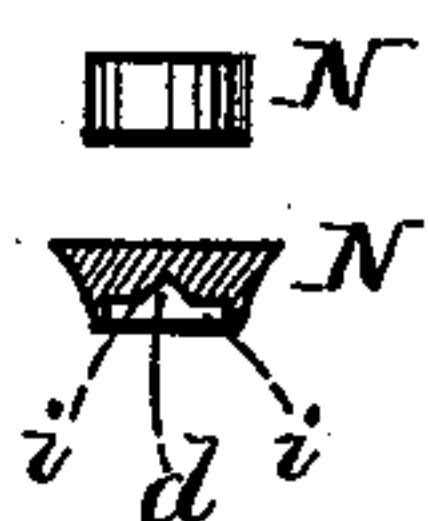


Fig-5-



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BUTTON.

SPECIFICATION forming part of Letters Patent No. 377,625, dated February 7, 1888.

Application filed December 9, 1887. Serial No. 257,387. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. LECKIE, Jr., of Boston, in the county of Suffolk, State of Massachusetts, have invented a certain new and useful Improvement in Buttons, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an enlarged bottom plan view of my improved button represented as in use; Fig. 2, a vertical longitudinal section of the same; Fig. 3, a side elevation of the wrench; Fig. 4, views of the punch, and Fig. 5 views of the truck.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates more especially to means for securing the button to the garment with which it is worn; and it consists in certain novel features, as hereinafter fully set forth and claimed, the object being to produce a stronger, more durable, effective, and otherwise desirable article of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A represents the body, and B the shank, of the button.

The shank is screw-threaded at its outer end and provided with a shoulder, *x*, on which rests a washer, C. A disk, D, having a centrally-disposed screw-threaded hole for receiving the outer end of the shank B, is employed for securing the button proper to the garment. This disk is flat on its inner side or face, and preferably oval on its outer side, as shown in Figs. 1 and 2, and is provided with sockets *m* for receiving the studs *v* of the wrench E, by which the disk is turned on or off the shank in attaching or detaching the button. A shallow circular socket, *f*, is formed partially in the shank B and partially in the disk D, for receiving a circular truck, N, composed of lead or similar material. The socket is counterbored or undercut to render it of greater diameter at the bottom or inner end

than it is at the top or outer end, as shown at *z* in Fig. 2, and also by the dotted lines *r* in Fig. 1.

The object of the truck N is to prevent the disk D from becoming accidentally unscrewed or detached from the shank B, said truck serving as a lock to keep the disk engaged with said shank and in proper position thereon.

In attaching the button to the garment a hole is made in the cloth or leather M for receiving the shank B. The washer C is then placed on the shoulder *x* and the shank passed from the front through the hole in the cloth, after which the disk D is turned onto the shank by means of the wrench E, or in any other convenient manner, thereby firmly securing the button to the garment in a manner that will be readily understood by all conversant with such matters without a more explicit description. After the disk has been turned onto the shank, as described, the truck N is placed in the socket *f* and expanded to prevent its escape therefrom by means of a prick-punch, H, said punch forcing the lower portion of the truck outward into the enlarged portion *z* of the socket, and thereby locking the truck in position. The socket *f* being formed partially in the shank B and partially in the disk D, it will be obvious that when the truck N is in said socket that the disk D cannot accidentally become loosened or unscrewed from the shank B, and thereby permit the loss of the button. It is, however, sometimes desirable to remove the button from the garment after it has been attached thereto and the disk D locked with the truck N, as described, and to accomplish this it is necessary to apply sufficient force to said disk in unscrewing it to overcome or destroy the truck.

To weaken the truck and render it easily destroyed and still have it retain sufficient strength to perform its functions properly, I partially bisect it on the line between the disk and the shank. This may be accomplished by means of the cutters *b* on the punch H, said cutters being arranged radially at the opposite sides of the punch proper, *t*, and so disposed that they will partially sever the truck immediately over the dividing-line between the same and the shank B, as shown at *i i* in Fig. 1, when the point or punch proper, *t*, is driven into the outer face of the truck to expand it and form

the indentation *d*, the cuts *i i* and indentation *d* weakening the truck to such an extent as to enable the disk to be readily detached by the exertion of a small amount of force thereon.

5 The washer C may be formed integral with the shank B, if desired, and the sockets *m* omitted in the disk D, said disk in that case being turned on and off the shank B without the aid of the wrench E.

10 Having thus explained my invention, what I claim is—

1. In a button, the combination of the body A, having the screw-threaded shank B, the washer C, disposed on said shank, the disk D, 15 having a centrally-disposed screw-threaded hole for the reception of the shank B, and the locking-truck N, secured in a socket formed partially in said disk and partially in the shank, substantially as described.

20 2. A button comprising a body provided with an exteriorly-screw-threaded shank, a washer disposed on said shank, a disk having a screw-threaded hole adapted to receive said shank, and means, substantially as described, 25 for detachably locking the disk to the shank, substantially as set forth.

3. In a button of the character described,

the shank B and disk D, provided with the socket *f*, having the enlargement *z*, in combination with the metallic truck N, expanded 30 in said socket, substantially as set forth.

4. In a button of the character described, the metallic truck N, disposed in the socket *f*, said truck being expanded in said socket and provided with the indentation *d*, substan- 35 tially as specified.

5. In a button of the character described, the combination of the body A, shank B, washer C, disk D, and truck N, said truck being secured in a socket formed in said disk and shank 40 and partially bisected, substantially as and for the purpose set forth.

6. In a button of the character described, the combination of the body A, shank B, washer C, disk D, and truck N, said shank and disk 45 being provided with the socket *f*, having the enlarged portion *z*, and said trucks secured by being expanded in said socket and provided with the cut *i* for weakening the same, substantially as set forth.

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