

(No Model.)

2 Sheets—Sheet 1.

M. TRUBY.

ALARM AND DOOR BELL.

No. 255,356.

Patented Mar. 21, 1882.

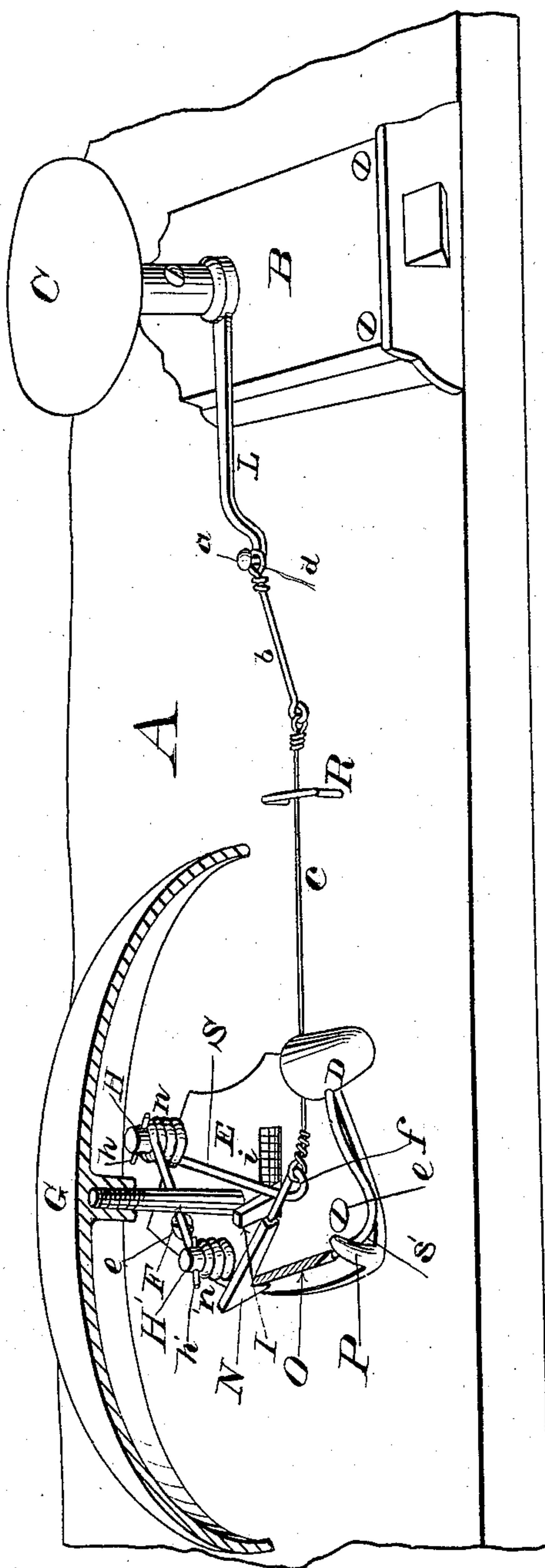


Fig. 1

WITNESSES:

Paul A. Staley
Frank Johnson

INVENTOR

Michael Torrey

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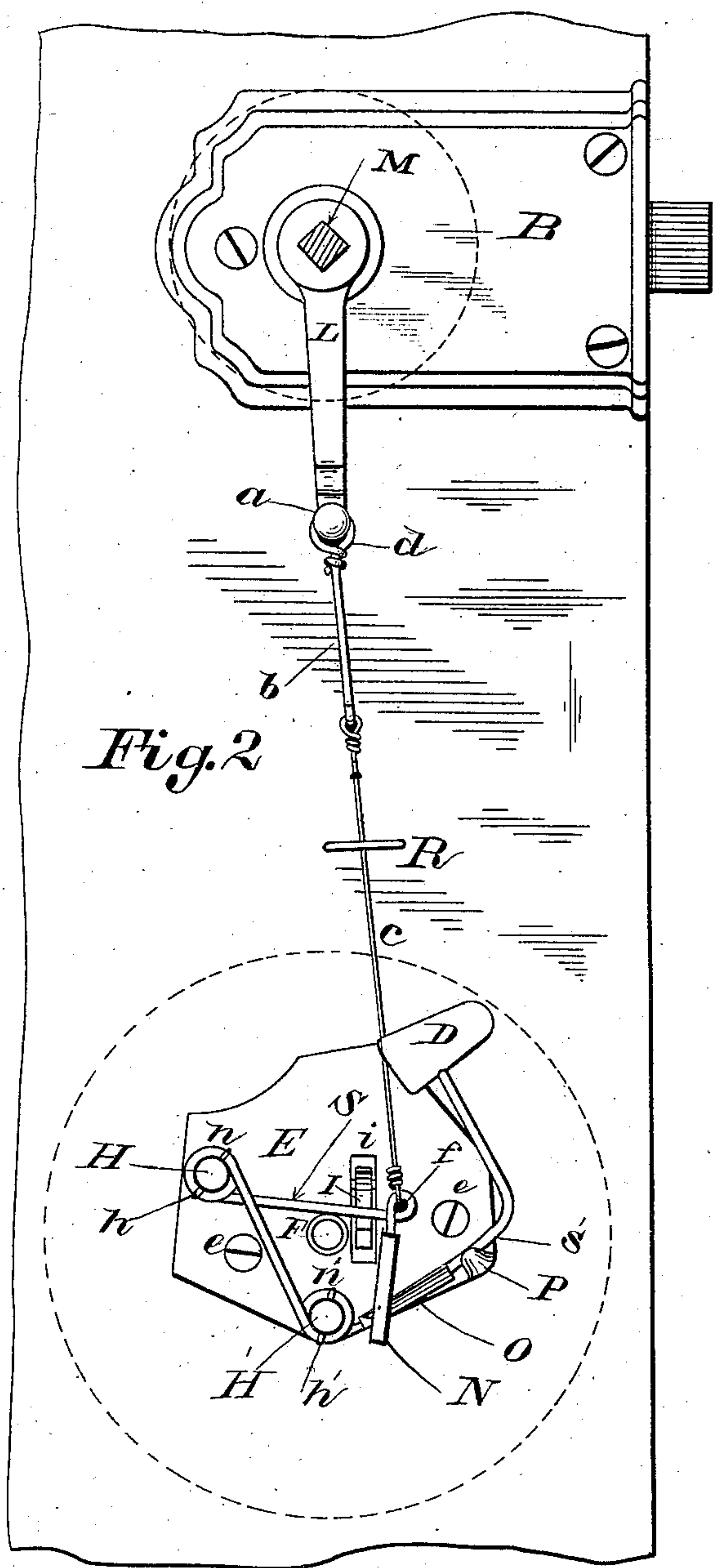


Fig. 2

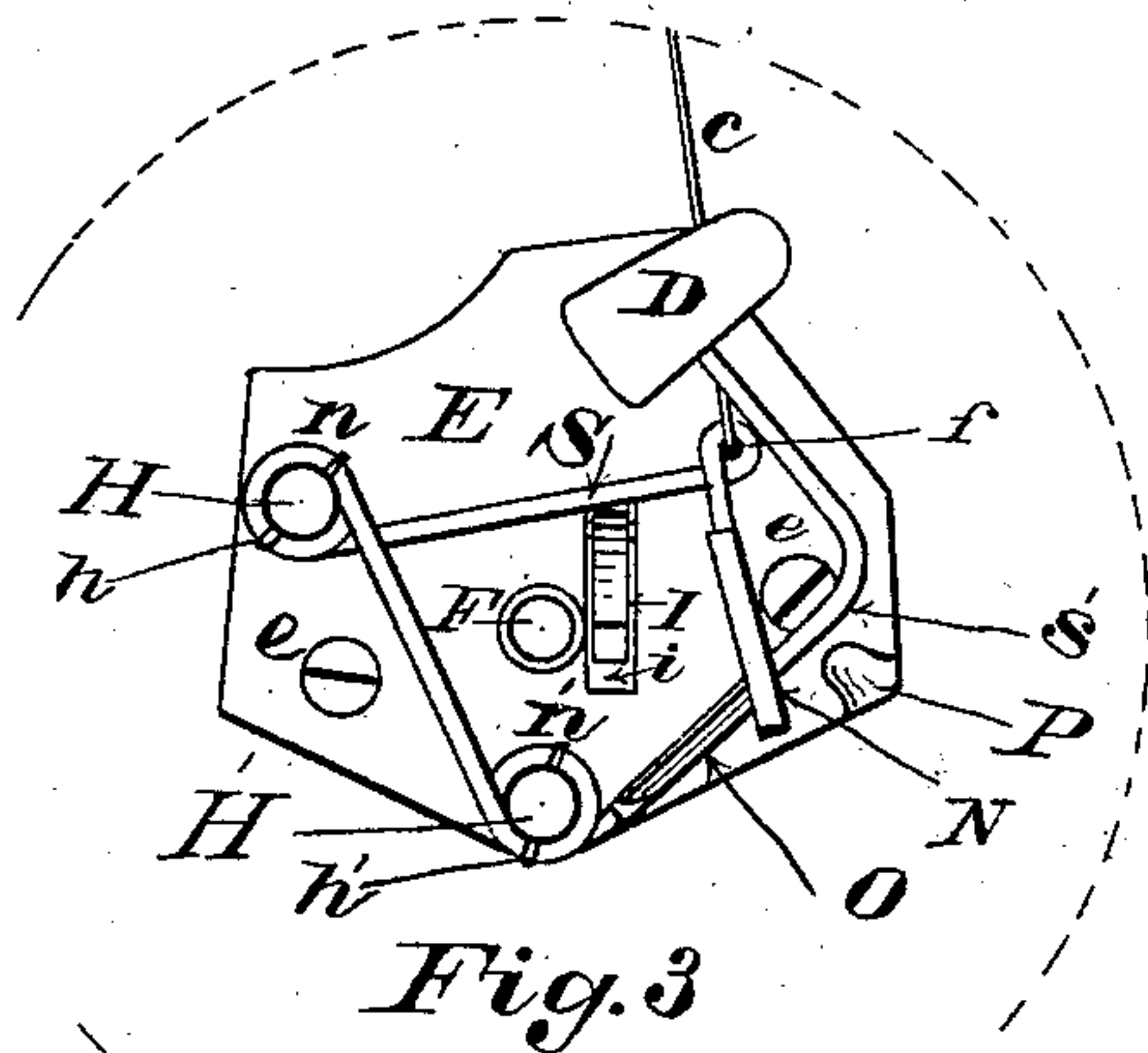


Fig. 3

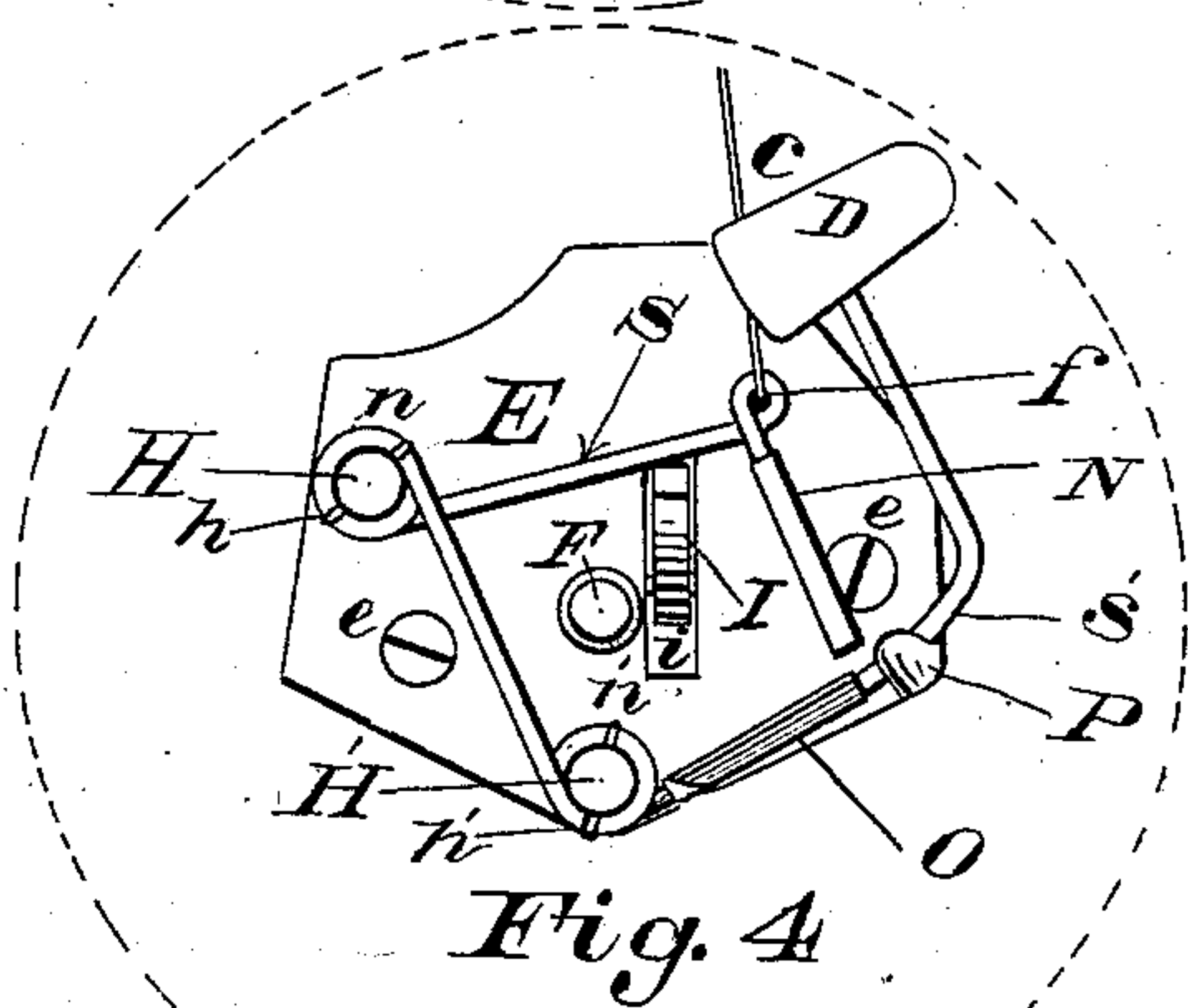


Fig. 4

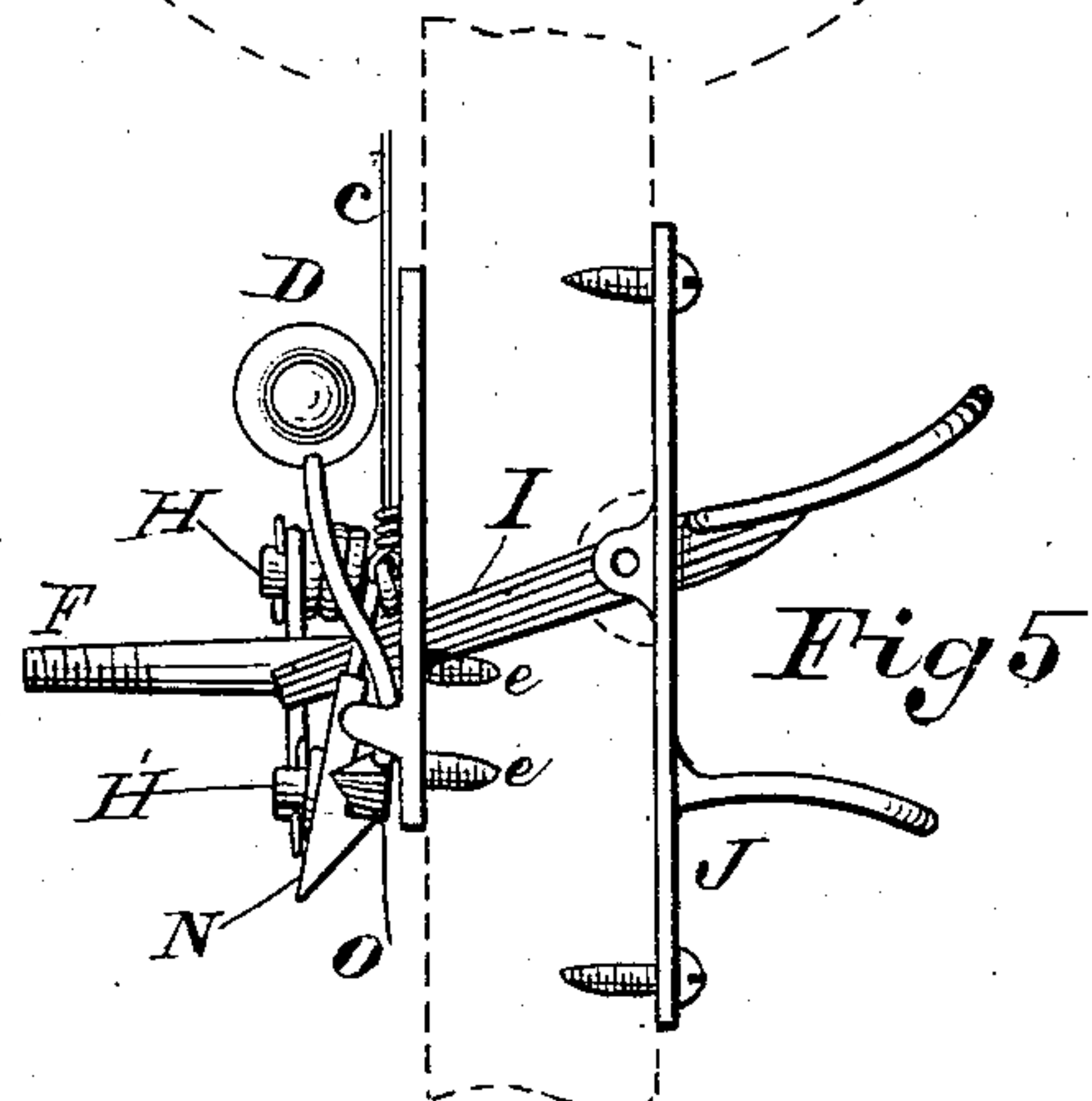


Fig. 5

WITNESSES:

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UNITED STATES PATENT OFFICE.

MICHAEL TRUBY, OF ELKHART, INDIANA.

ALARM AND DOOR-BELL.

SPECIFICATION forming part of Letters Patent No. 255,356, dated March 21, 1882.

Application filed December 9, 1881. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL TRUBY, a citizen of the United States, residing at Elkhart, in the county of Elkhart and State of Indiana, have invented a new and useful Alarm and Door-Bell, of which the following is a specification.

My invention relates to a combined alarm and door-bell so constructed and arranged that it may be used either as an alarm or door-bell, or both, or the bell detached and used as an ordinary pull-bell.

The objects of my invention are, first, to provide a striking device for alarm and door-bells, in which a continuous wire-spring carries at one end the striker and at the other a snap-catch which engages with a slide-piece also on said spring, the whole being substantially one and the same piece; and, second, to improve upon the combined alarm and door-bell for which Letters Patent bearing the date April 12, 1881, and numbered 240,203, have been granted to me. I attain these objects by mechanism illustrated by the accompanying drawings, in which—

Figure 1 is a perspective view of my combined alarm and door-bell, with the gong shown in section. Fig. 2 is a plan view of the same with the gong and door-knob removed; Figs. 3 and 4, views illustrating the operation of striking the bell; and Fig. 5, a detailed view, showing the arrangement of the clip or thumb-lever by which the bell may be operated as a door-bell.

In the drawings, A represents a portion of a door. E is a plate secured to said door by screws *e e*, and provided with studs H H', and a screw-post, F, onto which a gong or sounder, G, is screwed. Around the studs H and H', and held by pins *h* and *h'*, are coils *n* and *n'* of a continuous spring, S, which is provided at one end with a snap-catch, N, and loop *f* at the other, with a striker, D, and between said striker and coil *n'* with a slide-piece, O, with which the snap-catch N engages.

B is an ordinary door-latch; C, the knob or handle thereof, the square shank M of which passes through a corresponding hole in the end of an arm, L, which is provided at its other end with a stud, *a*, over which a loop, *d*,

in the end of a wire, *b*, is hooked in such a manner that it may be readily detached. To this wire *b* is attached a second wire, *c*, which passes through the staple R, and is secured in the loop *f* of the continuous spring S. An ordinary bell-clip, J, is secured to the opposite side of the door, the thumb-lever I of which passes through the door and projects through the slot *i* in the plate E, directly behind the continuous spring S, at a point near the loop *f*.

The operation is as follows: Upon opening the door, by turning the handle C of the latch B the snap-catch N is drawn forward by means of the wires *c* and *b* and arm L, bringing the striker D back, as shown in Fig. 3, and tightening the coils *n* and *n'* until the snap-catch N slips from the end of the slide-piece O and releases the striker D, which, impelled by the recoil from coil *n'* of spring S, flies against the gong, as shown in Fig. 4, and gives the alarm. The part *s'* of the spring S, striking against the stop P, prevents the striker from going too far. Upon releasing the handle C the recoil from coil *n* brings the snap-catch N back to its original position, where it again engages with the slide-piece O, the end of the catch and side of the slide-piece being beveled to facilitate said engagement.

By detaching the wire *b* from stud *a* the latch B may be operated without ringing the bell.

The bell is rung from the clip J in the ordinary manner. The thumb-lever I, striking the spring S draws snap-catch N forward and rings the bell in the manner before described.

It is evident from the description that the bell may be detached and used as a pull-bell by securing it at any convenient point, extending the wire *c* to any point desired, and attaching a suitable handle.

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

1. The combination of a striker, D, snap-catch N, and slide O, substantially as described and shown, and for the purpose set forth.

2. In an alarm or door-bell, the combination of a continuous spring, S, having striker D, coils n and n' , snap-catch N, and slide O, with a plate, E, having studs H H', substantially
5 as shown and described.
3. The combination of a plate, E, studs H H', screw-post F, gong G, and stop P with a continuous spring, S, having striker D, coils n and n' , loop f , snap-catch N, and slide O, substantially as shown and set forth.

MICHAEL TRUBY.

Witnesses:

WM. H. BERKEY,
E. S. HOREY.