

(No Model.)

C. GROSINSKI & G. B. BEECHER.

LINE STRETCHER.

No. 333,067.

Patented Dec. 22, 1885.

Fig. 1.

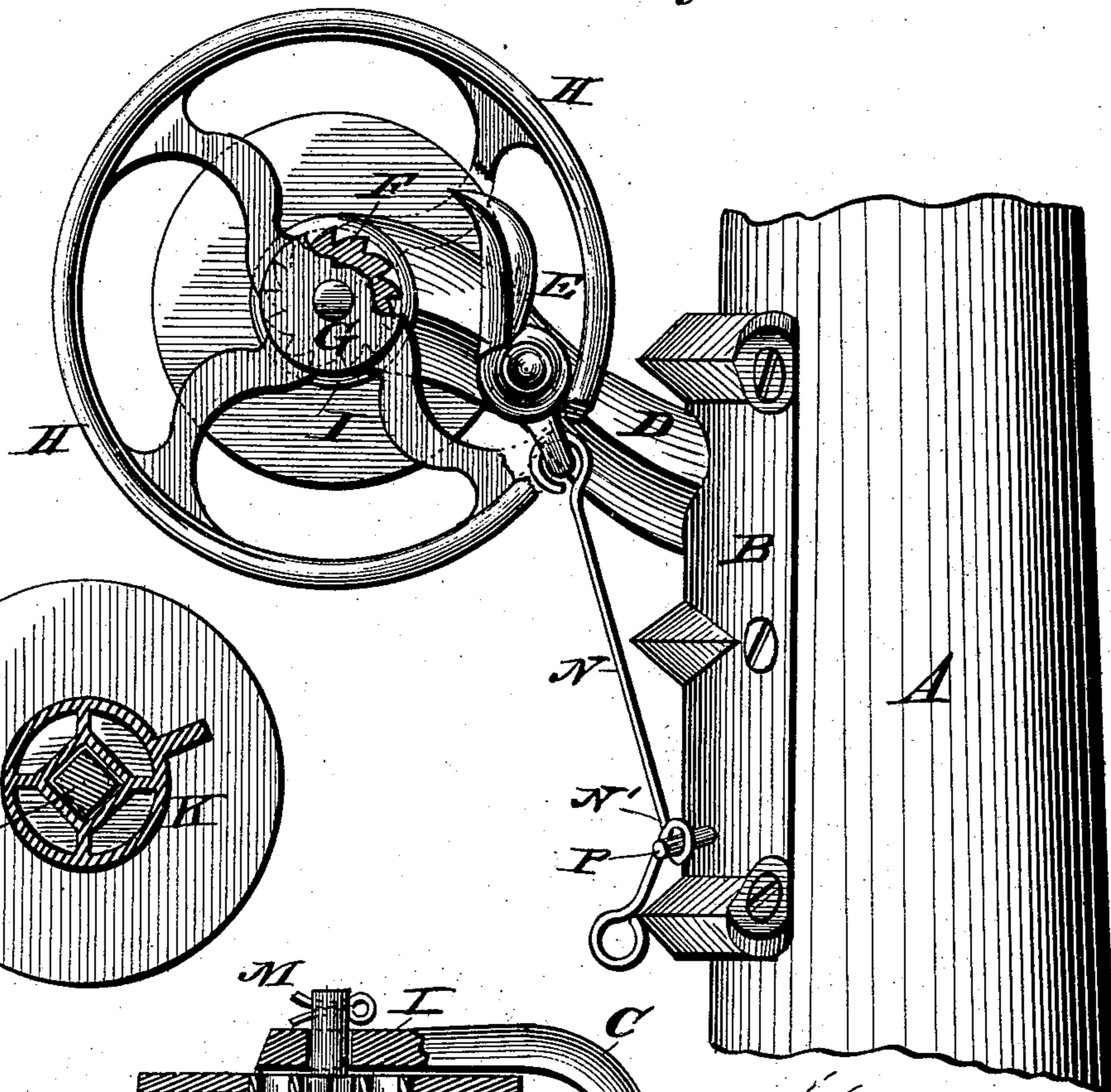


Fig. 3.

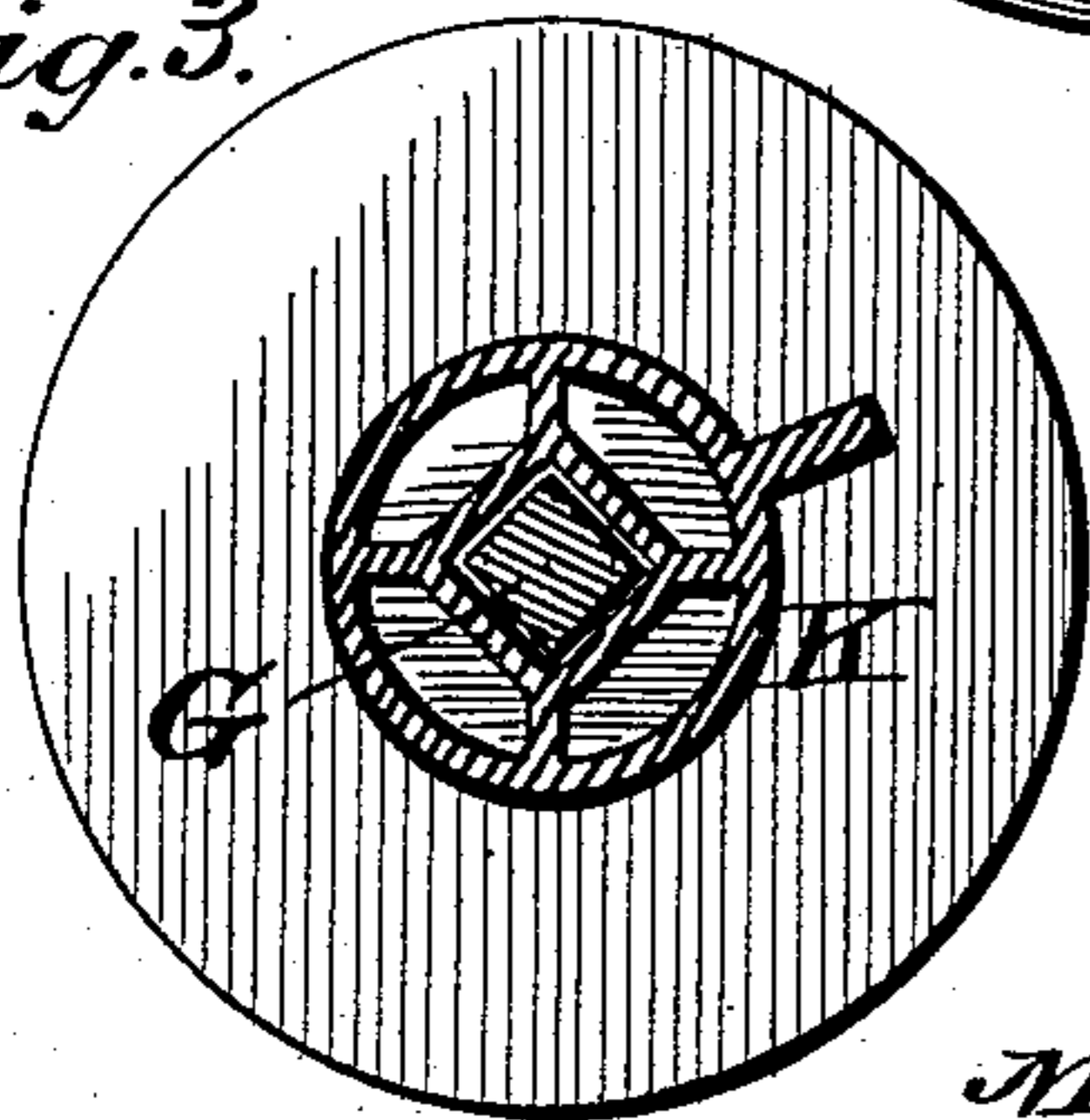
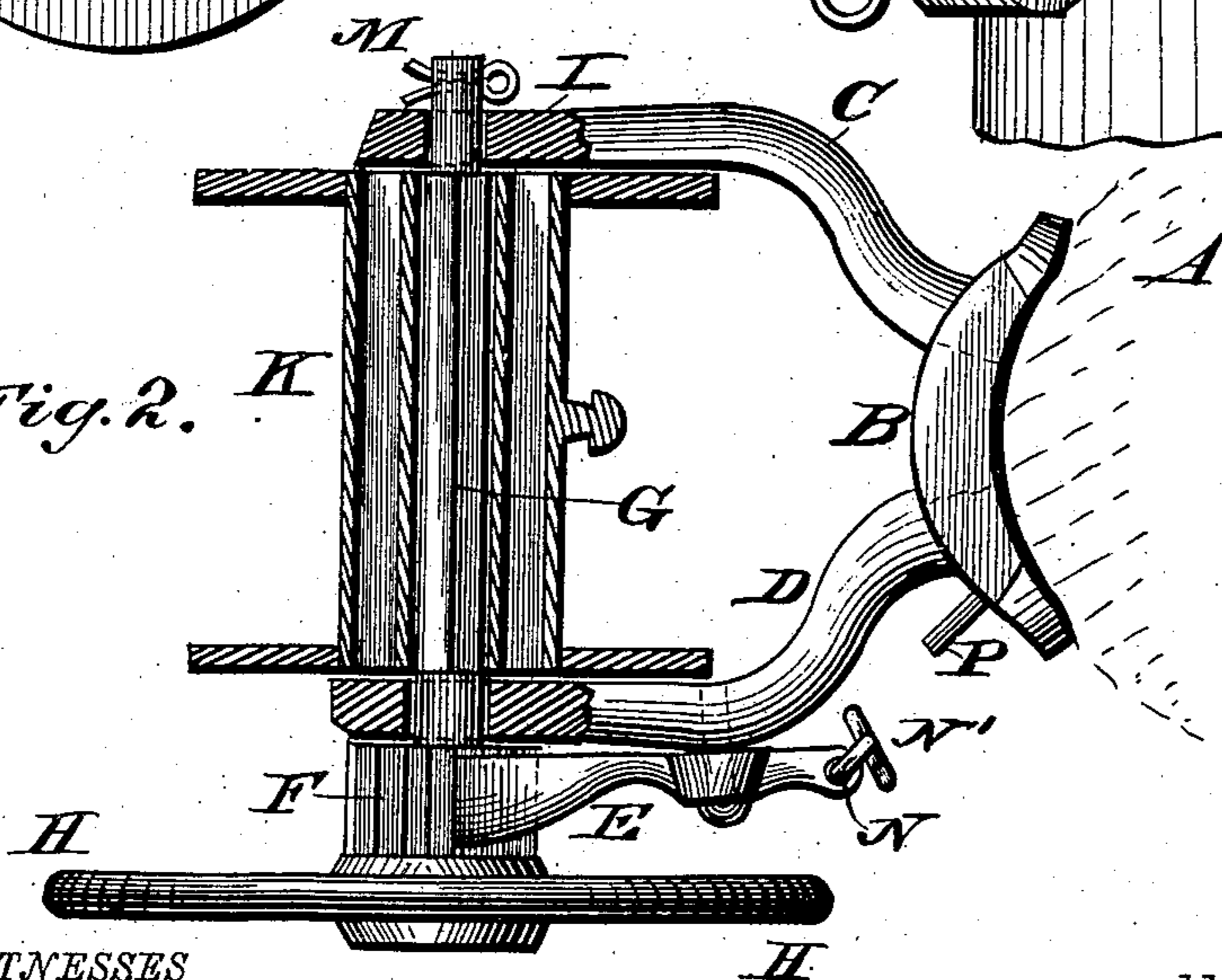


Fig. 2.



WITNESSES

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CASPER GROSINSKI AND GEORGE B. BEECHER, OF MORRISON, ILLINOIS.

LINE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 333,067, dated December 22, 1885.

Application filed March 28, 1885. Serial No. 160,500. (No model.)

To all whom it may concern:

Be it known that we, CASPER GROSINSKI and GEORGE B. BEECHER, citizens of the United States, residing at Morrison, in the county of Whiteside and State of Illinois, have invented certain new and useful Improvements in Line-Stretchers; and we do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Our invention relates to line-stretchers for stretching rope or wire lines; and it consists in the novel construction and combination of parts, as will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings, Figure 1 is a view in perspective of a line-stretcher embodying our improvements, the detent being shown out of engagement with the ratchet in order that the line may be unwound. Fig. 2 is a plan view sectioned through the spool and the journal parts of the bearing-arms, and Fig. 3 is a central transverse sectional view of the spool and its shaft.

Referring by letter to the accompanying drawings, A designates the post to which the base B of the frame of the wire-stretcher is secured by means of screws or nails. The base B is provided near its upper end with diverging curved arms C and D, the latter having a detent, E, pivoted to its outer face, near its upper end, in such position as to be adapted to engage a ratchet, F, cast integral with the shaft G, preferably at that end of said shaft which is provided with the hand-wheel H. The arms C and D are provided at their upper ends with bearings or eyes I, in which the cylindrical portions of the shaft G revolve when the stretcher is turned to stretch or unwind the wire or rope, as the case may be. That portion of the shaft G which rests within the spool K is rectangular in cross-section, in order to cause the spool K to revolve with it when the shaft is turned, a hand-wheel, H,

being provided at one end by which to turn it. The shaft G is held removably in place by a spring-key, M, so that when desired the spool, with the rope or wire thereon, may be removed and stored. A rod, N, having a hook or loop at its upper end, engages the lower end of the detent E, and has a coil, N', near the hand-loop at its lower end, to engage a stud or pin, P, projecting from the frame of the base B of the stretcher when it is desired to hold the detent out of engagement with the ratchet F, this being necessary when it is desired to unwind the wire or rope from the spool or drum. After the wire or rope has been unwound the end farthest from the spool is attached to a post or other suitable object, the detent is engaged with the ratchet and the hand-wheel is operated to tighten and stretch the rope or wire, as the case may be. The rope or wire is secured to a stud on the spool before being wound thereon.

By this construction we provide cheap, simple, and efficient mechanism whereby a rope or wire may be conveniently and quickly stretched, when desired, and as quickly rewound and removed from exposure to the weather.

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

The combination of the base B, having securing devices, and provided with the curved bearing-arms near its upper end and the pin P near its lower end, the shaft G, having a hand-wheel and a fixed ratchet at one end, the spool having the central rectangular aperture for the said shaft, the pawl journaled on the curved arm D, and the wire secured to the heel end of the pawl and arranged to engage the pin P, substantially as shown and described.

In testimony whereof we affix our signatures in presence of two witnesses.

CASPER GROSINSKI.
GEORGE B. BEECHER.

Witnesses:

L. T. STOCKING,
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