(No Mcdel.)

N. PARKER.

SLED BRAKE.

No. 277,775. Patented May 15, 1883.

Fig. 1.

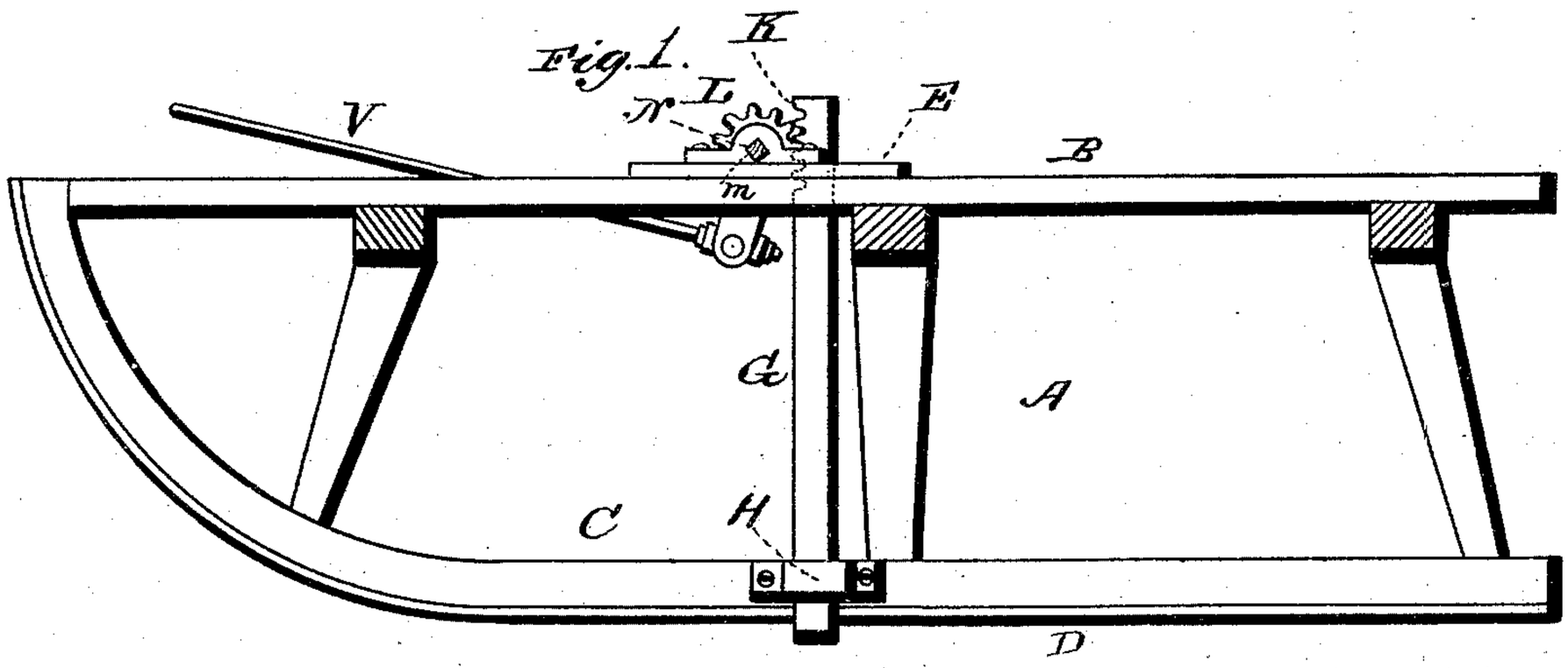


Fig. 2.

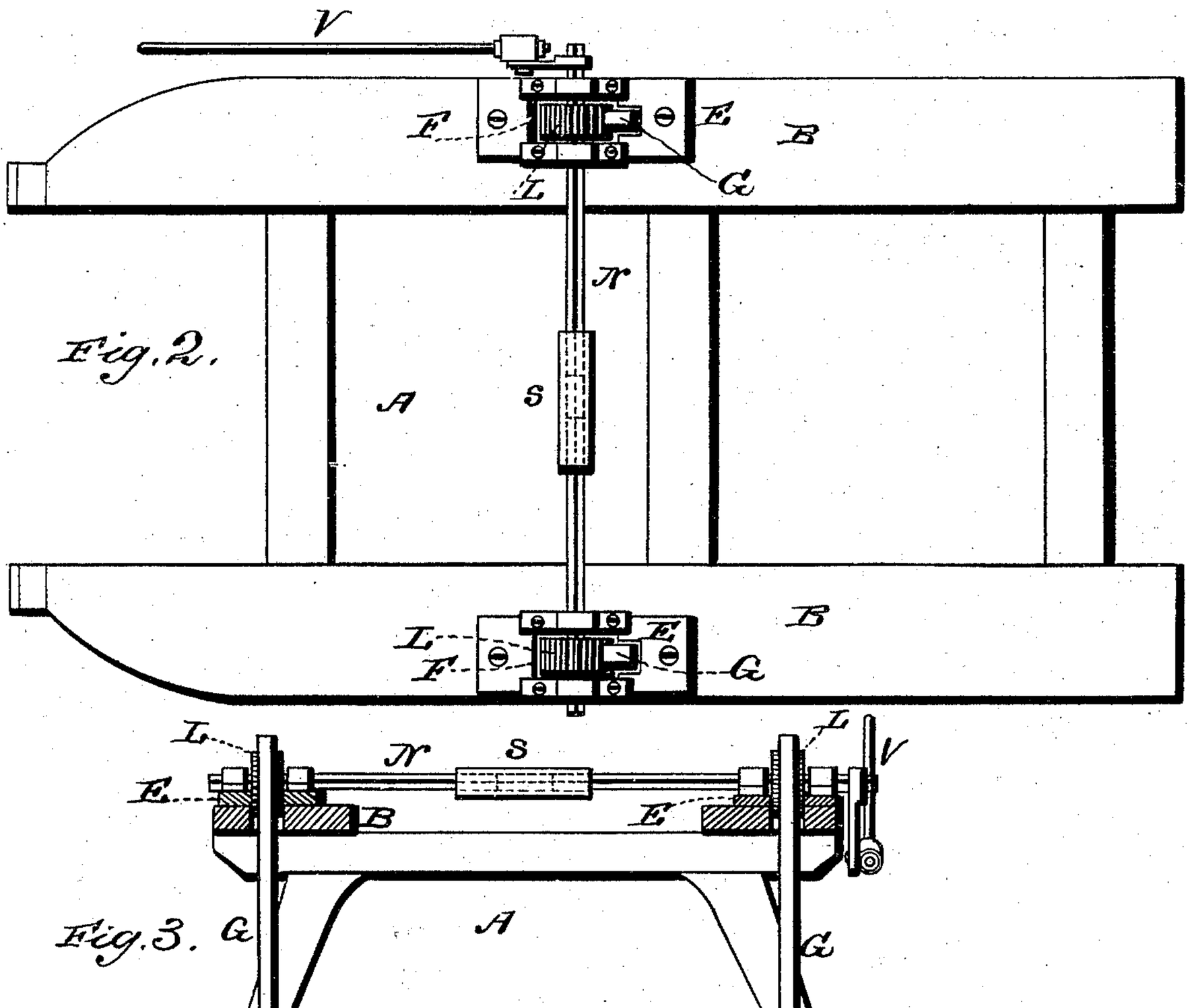
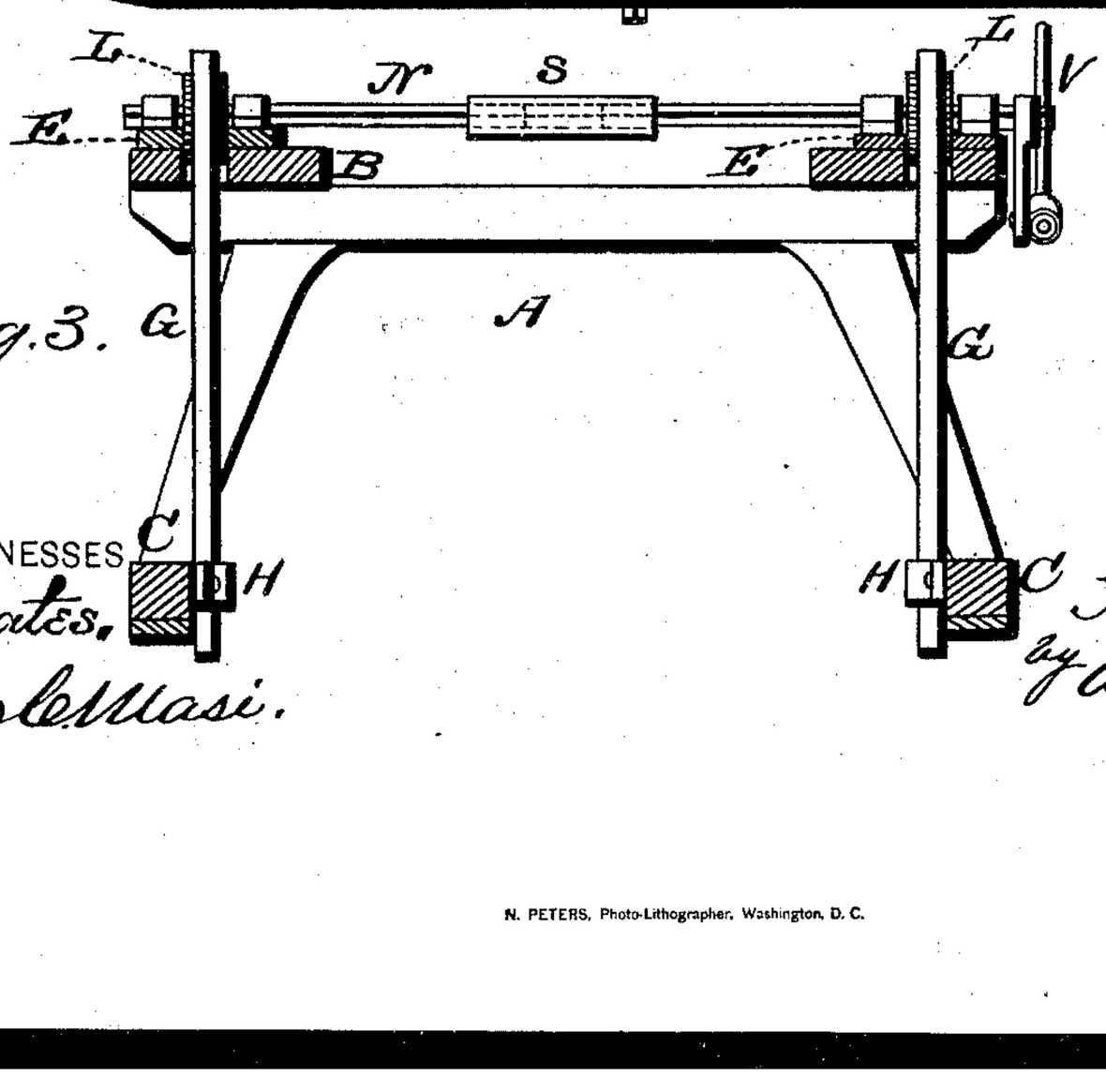


Fig. 3.



WITNESSES

E. H. Bates.

Philip E. Masi.

INVENTOR

Newton Parker,

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UNITED STATES PATENT OFFICE.

NEWTON PARKER, OF PULASKI, NEW YORK.

SLED-BRAKE.

SPECIFICATION forming part of Letters Patent No. 277,775, dated May 15, 1883.

Application filed March 17, 1883. (No model.)

To all whom it may concern:

Be it known that I, NEWTON PARKER, a citizen of the United States, residing at Pulaski, in the county of Oswego and State of New York, have invented certain new and useful Improvements in Sled-Brakes; and I 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 of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a vertical sectional view of my brake. Fig. 2 is a top view, and Fig. 3 is a cross-sectional view of the same.

This invention has relation to sled-brakes; and it consists in the construction and novel arrangement of devices, as hereinafter set forth, and particularly pointed out in the appended claim.

In the accompanying drawings, the letter A designates the rear sled of a bob-sleigh, in connection with which the invention is illustrated, although it may be applied to sleighs of all kinds.

B represents the raves, C the runners, and D the shoes thereof.

On each rave, near its central portion, or at the center, is located a strong plate, E, which is formed with a slot, F, for the upper portion of a reciprocating dog, G, which is of laterally-flattened form, and extends downward through a guide or bearing, H, on the runner. These dogs are made of sufficient length to extend, when pushed downward, below the bottoms of the shoes, and they are operated by rack-and-pinion movement, each dog being provided with a rack on the edge of its upper portion, as indicated at K.

The pinions or segment-pinions L are seated on a transverse shaft, N, which is arranged in bearings, so that the pinions will be in position to engage the racks of the dogs. The shaft is squared to receive the square eyes *m* of the pinions. The shaft N is made in two sections, which are held together by straps or sliding connections, as indicated at *s*, so that it can be lengthened or shortened to correspond to the width of the sled. This adjustable shaft also provides a means whereby the purchase end of the shaft can be laterally extended in case of a wide load to receive the end of the operating-lever V, which is designed to extend forward within reach of the driver.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

A sled-brake consisting of reciprocating dogs extending through guide-bearings on the raves and runners, and having rack-edges to engage pinions seated on a transverse squared shaft made in sections, and thereby adapted to be lengthened or shortened, substantially as specified.

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

NEWTON PARKER.

Witnesses:

E. H. MINOT,

B. E. PARKHURST.