

E. M. LAWRENCE.

SLED-BRAKE.

No. 191,867.

Patented June 12, 1877.

Fig. 1.

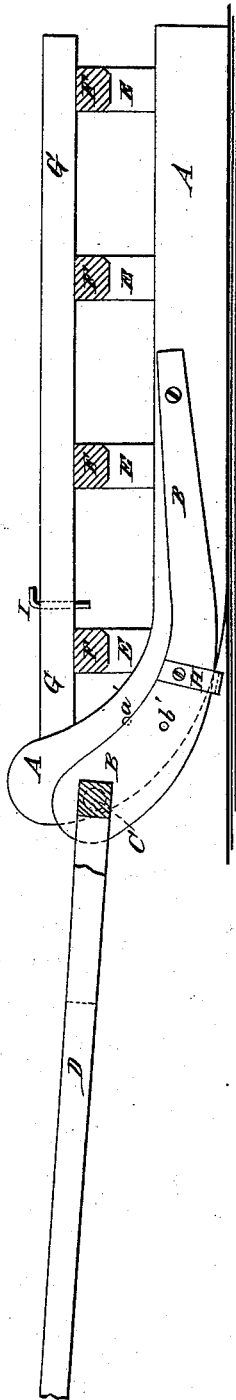
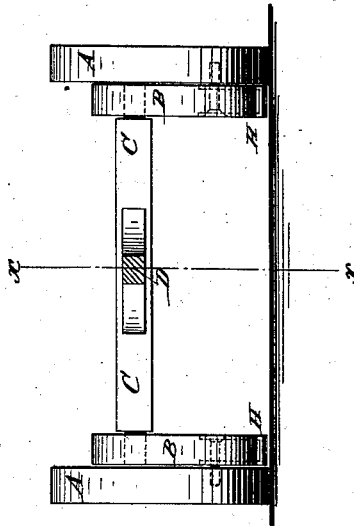


Fig. 2.



WITNESSES:

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EPHRAIM M. LAWRENCE, OF BRYANT'S POND, MAINE.

IMPROVEMENT IN SLED-BRAKES.

Specification forming part of Letters Patent No. **191,867**, dated June 12, 1877; application filed April 23, 1877.

To all whom it may concern:

Be it known that I, EPHRAIM M. LAWRENCE, of Bryant's Pond, in the county of Oxford and State of Maine, have invented a new and useful Improvement in Sled-Brake, of which the following is a specification:

Figure 1 is a vertical longitudinal section of a sled to which my improvement has been applied, taken through the line *x x*, Fig. 2. Fig. 2 is a front view of the same, the tongue being cut off.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved brake for sleds, which shall be so constructed that the operation of holding back will apply the brake, and the operation of drawing will raise the said brake, and which may be readily fastened to allow the sled to be backed without applying the brake.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

A are the runners, E are the knees, F are the beams, and G are the raves, of the sled, about the construction of which parts there is nothing new. D is the tongue, which is attached to the roller C. The ends of the tongue-roller C are pivoted to the forward ends of the false runners B, the rear ends of which are pivoted to the inner sides of the middle part of the runners A.

To the forward parts of the runners B are

attached bands or shoes H, which, when the false runners B are pressed down, scrape upon the roadway, and thus retard the forward movement of the sled.

With this construction, the rearward pressure of the tongue, in holding back, presses the false runners B down upon the roadway, and draft upon the tongue raises the false runners B away from the roadway.

When it is desired to back the sled without applying the brake, pins I are passed through holes *a'* in the runners A, and through holes *b'* in the false runners B, so that the said false runners B cannot be forced down by a rearward pressure upon the tongue. When not in use the pins are placed in holes in the raves G, as shown in Fig. 1.

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

1. The tongue-roller C, pivoted to false runners B, the latter being rear-pivoted to runners A, as shown and described.

2. The combination of false runners B, pivoted at the rear to runners A, the said runners A B having, respectively, the holes *a' b'*, to receive pins, as and for the purpose specified.

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Witnesses:

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