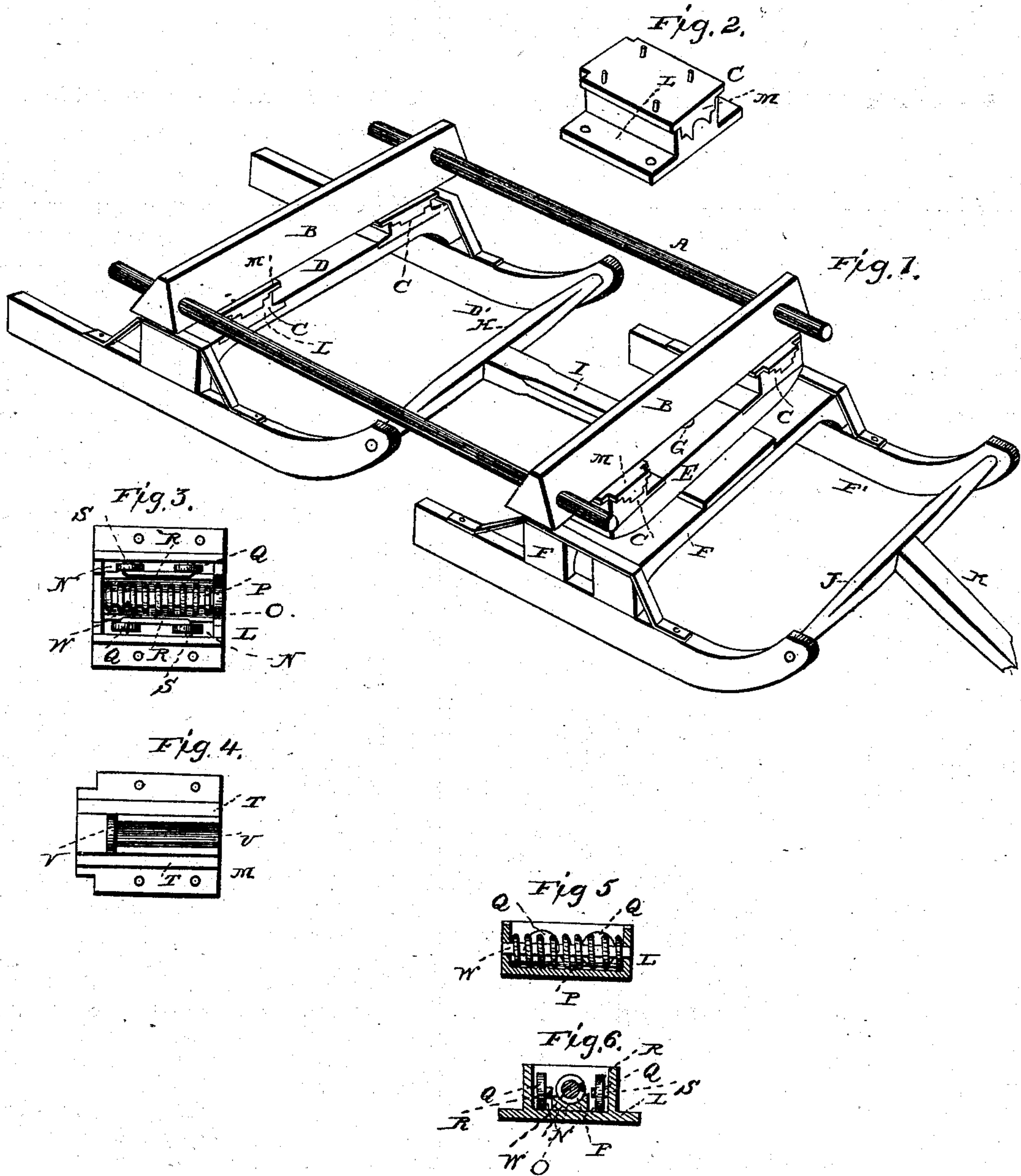


(No Model.)

A. HANSEN.
LOGGING SLEIGH.

No. 271,843.

Patented Feb. 6, 1883.



WITNESSES:

And. G. Dietrich,
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UNITED STATES PATENT OFFICE.

ANDREW HANSEN, OF RACINE, WISCONSIN.

LOGGING-SLEIGH.

SPECIFICATION forming part of Letters Patent No. 271,843, dated February 6, 1883.

Application filed November 18, 1882. (No model.)

To all whom it may concern:

Be it known that I, ANDREW HANSEN, of Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Logging-Sleighs; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved logging-sleigh. Fig. 2 is a similar view of one of the spring-boxes. Fig. 3 is a top view of the same with the top removed. Fig. 4 is a detail view of the top. Fig. 5 is a longitudinal section through the box, and Fig. 6 is a cross-section.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to logging-sleighs and other vehicles for heavy draft; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A represents the frame of a logging-sleigh, the bolsters B of which rest upon and are fastened to the spring-boxes C.

The rear spring-boxes are fastened upon the bench D of the rear bob, D', while the front boxes are fastened upon the sand-board E, which turns upon and is secured to the bench F of the front bob, F', by the king-bolt G.

The rear runners have a roller, H, provided with the reach I, which is hooked into the rear of the front bob, which likewise has a roller, J, and a tongue, K.

The spring-boxes C consist of two parts, the box proper, L, fastened to the bench or sand-board, and the cover M, to which the bolsters are fastened.

In the bottom of the box L are two grooves, N, one on each side of a recess, O, in which a spiral spring, P, rests.

Two pairs of rollers, Q, each pair connected by a bent rod, R, upon the bent ends S of which the rollers are journaled, roll in the grooves N, while the cover M has two ways, T, one on each side of a recess, U, in which the upper part of spring P fits, which slide on the upper parts of the rollers.

The cover M has, near its forward end, a downward-projecting tongue, V, having an eye through which a bolt, W, passes, which passes inside the spiral spring P and through the ends of the box L, where it is fastened. In this manner the cover L can slide rearward against the spring, which will tend to force it forward again.

When the sleigh is loaded and the team starts the springs will allow the bobs to be started before the whole weight of the load is moved, making the start easier and more gradual.

This device may be used as well upon wagons, carts, or other vehicles, though it is chiefly intended for logging-sleighs.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. A logging-sleigh or other vehicle for heavy draft having spring-boxes fastened between the frame and the running-gear, allowing the running-gear to be started against the springs in the boxes before the whole load is started, substantially as and for the purpose shown and set forth.

2. The combination of the box L, having bolt W passed through and fastened to its ends, the sliding cover M, having perforated tongue V and spiral spring P, substantially as and for the purpose shown and set forth.

3. The combination of the box L, having grooves N in its bottom, the cover M, having ways T in its under side, rollers Q, connected by and journaled on the bent rods R, and a spring, S, substantially as and for the purpose shown and set forth.

4. The combination of box L, cover M, having tongue V, rollers Q, spring S, and bolt W, substantially as shown and set forth.

5. In a logging-sleigh, the combination of the frame A, spring-boxes C, sand-board E, bob-sleds D' and F', reach I, and tongue K, substantially as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

ANDREW HANSEN.

Witnesses:

A. MCK. STEWART,
D. J. MOREY.