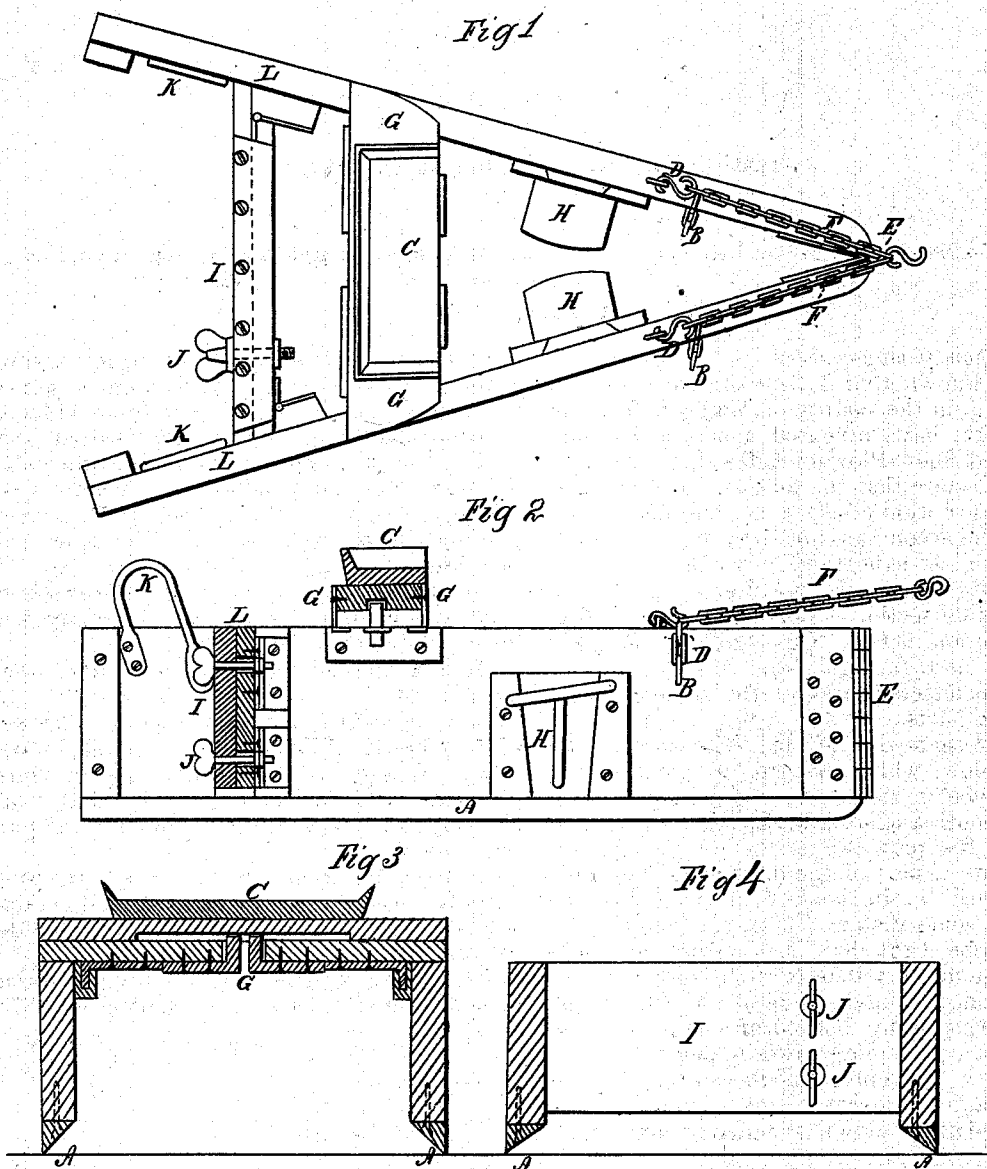


J. M. GRAY.
Snow-Plows.

No. 146,333.

Patented Jan. 13, 1874.



Witnesses.

Inventor.

E. W. Looe.
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UNITED STATES PATENT OFFICE.

JEROME M. GRAY, OF HAMILTON, NEW YORK.

IMPROVEMENT IN SNOW-PLOWS.

Specification forming part of Letters Patent No. **146,333**, dated January 13, 1874; application filed October 6, 1873.

To all whom it may concern:

Be it known that I, JEROME M. GRAY, of Hamilton, in the county of Madison, State of New York, have invented a new and useful Improved Snow-Plow for Sidewalks; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings forming a part of this specification, in which—

Figure 1 represents the plan. Fig. 2 is a longitudinal section of one-half of Fig. 1. Fig. 3 is a section at G G, Figs. 1 and 2. Fig. 4 is a section at L L, Figs. 1 and 2.

Similar letters represent the same or corresponding parts.

A represents the beveled shoe at the base of the plow, which prevents skimming over the surface in deep and heavy snow, causing a smooth and solid walk. E is the hinged point of the plow. F is the draft-chain. B represents a part of the draft-chain F, which is attached to the hook D at the top of the plow, at some distance from the point. Extending the draft-chain F on either side to B will cause the plow to be drawn diagonally, and remove snow from one side of the walk to the other. Extending both draft-chains F F to B gives the plow more power to penetrate compact snow. G represents the sliding bars of the self-adjusting seat C, which is extended or shortened as the plow is widened or contracted.

H represents foot-rests, removable at pleasure. I represents the sliding hinged braces joined to the plow at L L, allowing it to be widened or contracted, and held to any desired position by aid of thumb-screws J J, or otherwise. K represents the handles to the plow. By lifting the seat C and foot-rests H H, and removing the thumb-screws J J, the plow may be folded to occupy a small space.

The advantages of the whole combination or arrangement as a snow-plow are many, and must be obvious to all.

Having thus described my invention, what I claim is—

1. A snow-plow having the sides L hinged at the point E, and shod with the beveled shoes A A, and provided with draft-irons D, which are attached to the top at some distance from the point E, substantially as and for the purpose described.

2. In combination with the sides L, the foot-rests H and seat C, provided with adjustable side supports C C, as and for the purpose described.

The above specification of my invention signed by me this 19th day of September, 1873.

JEROME M. GRAY.

Witnesses:

E. W. FOOTE,
B. F. BONNEY.