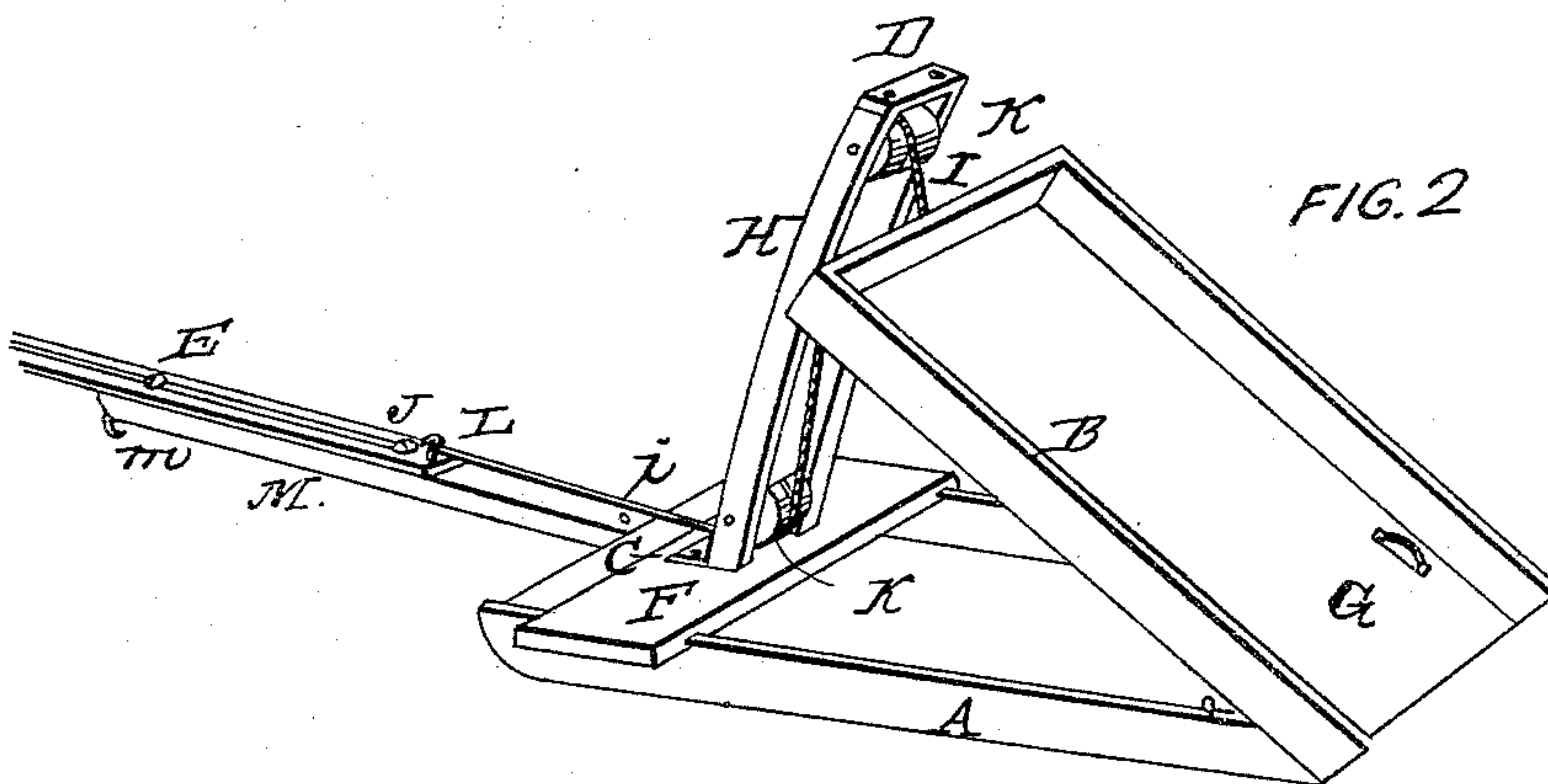
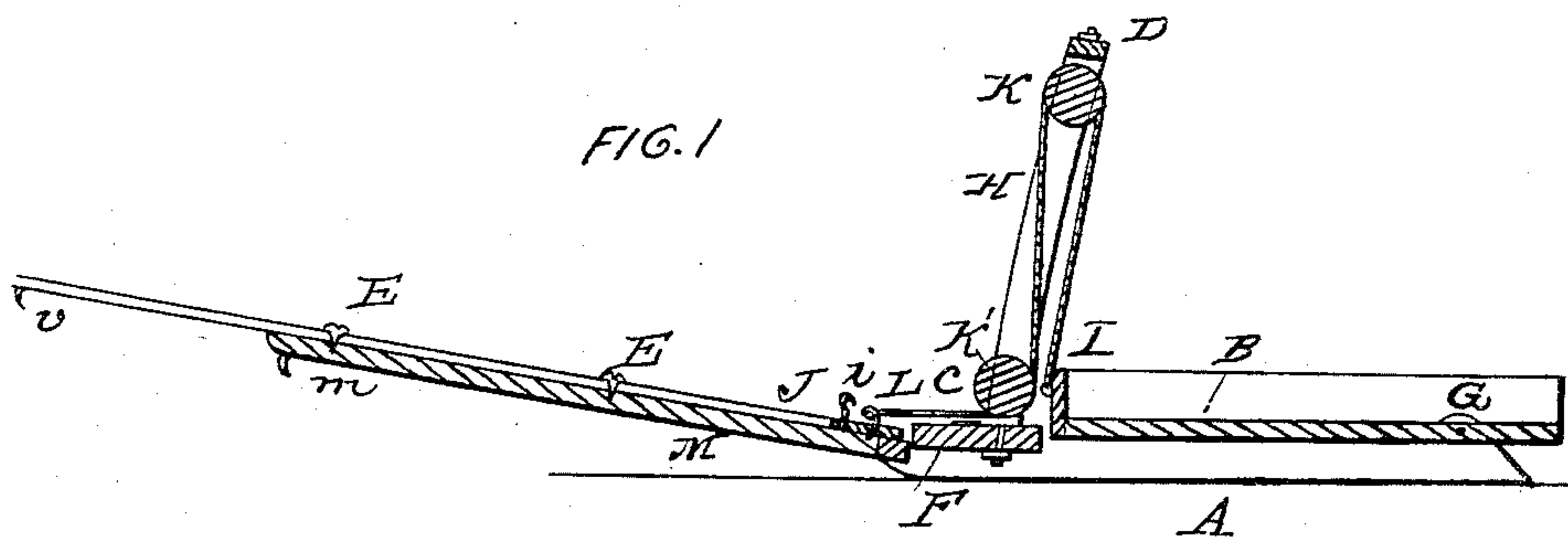


G. N. PALMER.

Stone Drag.

No. 83,726.

Patented Nov. 3, 1868.



WITNESSES
L. S. Martin
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United States Patent Office.

GEORGE N. PALMER, OF GREENE, NEW YORK.

Letters Patent No. 83,726, dated November 3, 1868.

IMPROVEMENT IN STONE-DRAG.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, GEORGE N. PALMER, of Greene, in the county of Chenango, and State of New York, have invented certain new and useful Improvements in a Combined Stone Boat or Drag, and a sled for dumping, to unload or discharge its contents; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a side or edge view of the sled and boat, in position for loading.

Figure 2 shows a perspective view of the same, with the boat in the position for dumping or discharging its contents.

The object of my invention is to lighten the manual labor, and to facilitate the disposing of the small stones in clearing off the surface of land for meadows, and for gardening and other purposes, and to furnish a cheap and convenient implement for farmers' use, that can be moved about for conveying any necessary article over marshy or wet ground, where wheels would cut in and damage the surface of the land, it being so constructed as to possess great advantages for loading, and facilities for unloading heavy articles.

My invention consists in the construction, arrangement, and combination of mechanism, whereby the body or boat can be lifted to dump or discharge its contents or load entirely by the action of the team.

To enable others to make and use my invention, I will describe it more fully, referring to the drawings, and to the letters marked thereon.

I make a common sled, the runners, A A, being of plank or scantling of any desired width or thickness, they being secured together at the front end by a broad plank, F, in which are framed two posts or standards, H H, they being curved or inclined backwards to conform to the radius of the points on which the body or boat B is secured to the rear ends of the runners A A by means of hinges, G G, the standards H H being secured firmly by straps of metal, C C, bolted or screwed to them and the plank F, and their tops secured by a cap, D.

In the space between the standards H H are placed two rollers or pulleys, K K', one at the top and the other at the bottom. A rope, I, connecting with the front end of the boat B, passes over the top pulley K, and down the rear side, and under the pulley K', extending forward to the hook or staple L, in the rear end of a slitted slide, J, placed on the top of the sled-tongue M. The top or sliding portion, J, of the tongue extends out forward over the end of the stiff tongue M, on which it is secured by screws or bolts, E E, the ends of both the tongue M and slide J being

provided with hooks, m and n, so that when the ring of the neck-yoke is back of the pin or hook m, the draught will move the whole implement bodily, and when it is desired to dump the load, the ring of the neck-yoke is let over to draw on the forward hook n, so that the whole power is applied to lift the front end of the body or boat B, to dump or discharge the load.

Another mode of operating, which may be more convenient than the method above described, is to have the neck-yoke always hitched to the hook n, on the sliding portion of the tongue J. Then have a hole, i, in the rear end of the tongue or pole M, and when the slide is back, and the body B resting on the runners A A, insert a strong pin, j, in the hole i, to draw the sled by, and when ready to unload, pull out the pin j, which will allow the slide-tongue J to move forward, and raise the front end of the boat sufficient to let the stone or other contents slide off. Then back up the team and put in the pin j, which secures all ready for reloading.

As a farming-implement, when it is not necessary to be used for dumping a load, the standards H H, with their fixtures, may be removed, and it becomes a common sled.

There are many and great advantages in my improved combined dumping stone-boat and sled over the old "stone-drag." It answers the twofold purpose, besides draws much easier, may be shod with iron, and be very durable, will not slip sideways to any extent on a side-hill, may be held back from running against the team, can be backed and moved at will by the team.

The same arrangement and combination of mechanism for dumping by the action of the team may be applied to a cart or a dumping-wagon, so that little or no manual labor is required, and a great saving of time in unloading any substance or materials effected.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

A low sled, having a boat or body, B, secured to the rear ends of the runners A A, as described, so that the body B may be lifted at the front end for discharging the load by the arrangement of mechanism, constructed and operated substantially in the manner as and for the purposes herein set forth.

In testimony whereof, I hereunto subscribe my name, in the presence of—

GEORGE N. PALMER.

Witnesses:

JOS. E. JULIAND,
WM. F. RUSSELL.