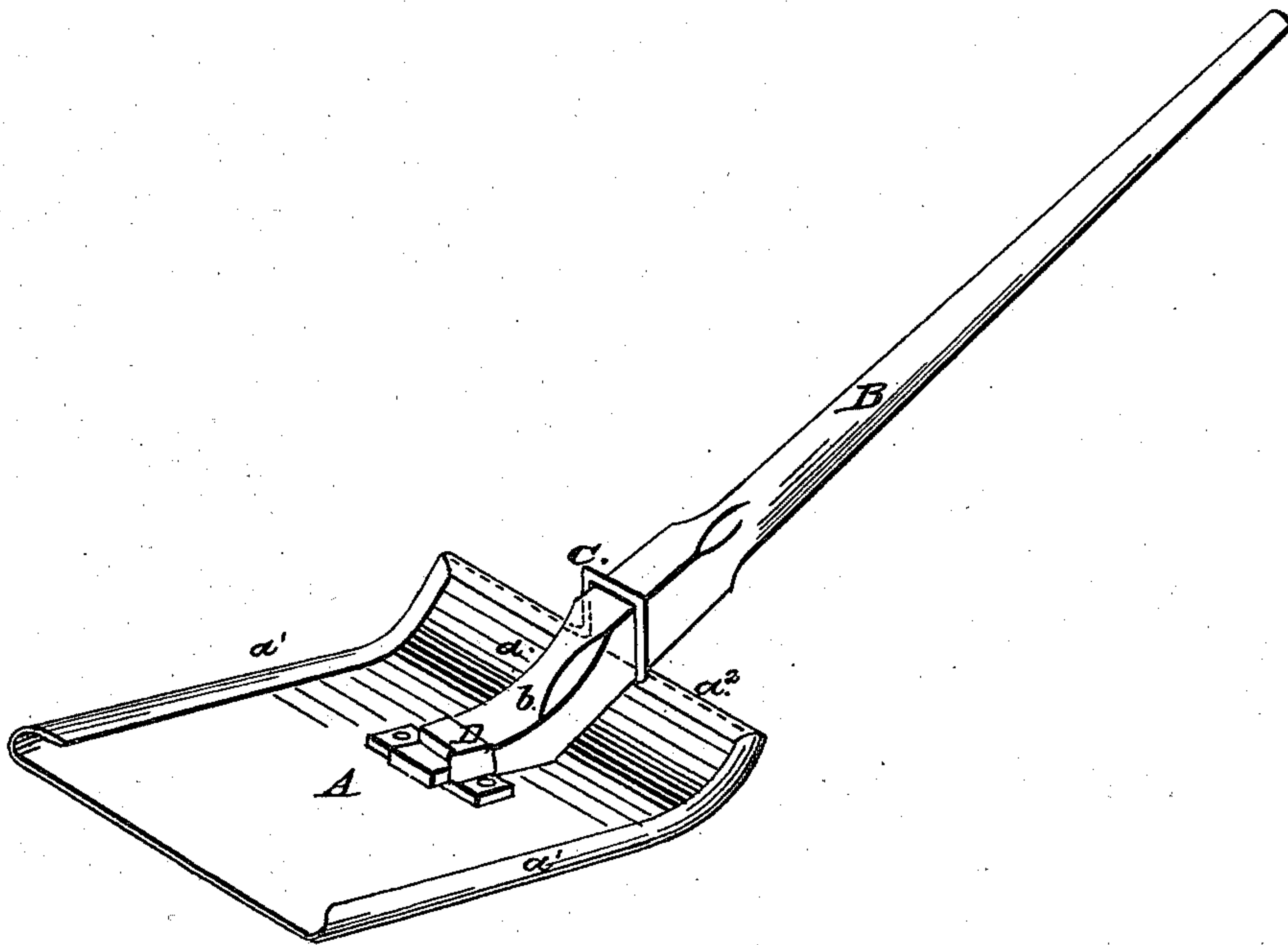


J. P. SPANGLE.

Snow Shovel.

No. 81,549.

Patented Aug. 25, 1868.



WITNESSES:

J. E. M. Bowen
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JOHN P. SPANGLE, OF CANANDAIGUA, ASSIGNOR TO HIMSELF AND CHAUNCEY SPEAR, OF HOPEWELL, NEW YORK.

Letters Patent No. 81,549, dated August 25, 1868.

IMPROVEMENT IN SNOW-SHOVELS.

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, JOHN P. SPANGLE, of Canandaigua, in the county of Ontario, and State of New York, have invented a new and useful Improvement in Snow-Shovels; and I do hereby declare that the following is a sufficiently full, clear, and exact description thereof to enable one skilled in the art to which my said invention appertains to make and use it, reference being had to the accompanying drawing, which is made a part of this specification.

My invention relates to a novel and simple construction of shovels for removing snow from sidewalks, &c., and the object of my improvement is to produce a simple and cheap article of the above description, possessing the requisite qualities of lightness, strength, and durability.

In the drawing, my invention is illustrated by a perspective view.

A represents the blade of the shovel, and B the handle. The former is composed of a rectangular plate of sheet metal, having one end upturned, so as to form a back, α , and provided, except on its front edge, with marginal beads, $\alpha^1 \alpha^1 \alpha^2$, for the purpose of stiffening and strengthening it.

C is a bail or loop, formed in a metallic wire, extending through the bead α^2 , or the ones α^1 also, if preferred, and D a metallic staple or bracket, attached to the blade, near its centre, by rivets or other suitable means.

The handle B is made of wood or other suitable material, and its enlarged and suitably-formed lower end, b , is inserted through the bail C and brackets D, as shown, and secured, if necessary, by a screw or tack inserted from the under side, thus forming a strong and rigid joint, and one which also adapts the handle to be readily removed, for transportation or storing, when desired.

The handle, when in position, stands at such an angle that a person may readily work the shovel with the blade horizontal, or nearly so, as required in cleaning off snow, without bending over, as with the ordinary shovel, besides which, said position of the handle, together with the upturned rear end, α , adapts the handle to act as a lever in elevating the load, the intersection of the flat and upturned portions of the blade forming the fulcrum. By this means, the body of the load is brought nearer the hands of the operator before it is lifted, and the strength required to raise it thus materially decreased.

My invention is intended, primarily, for removing snow, but it is obvious that it can be used with good effect for handling grain, malt, flour, &c., the functions required in a shovel for handling either being similar.

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

A snow-shovel, composed of the blade A, provided with the upturned rear end α , and marginal beads $\alpha^1 \alpha^2$, the handle B, bail C, and bracket D, all substantially as described, for the purposes set forth.

To the above specification of my said improvement I have signed my hand, this 26th day of June, A. D. 1868.

JOHN P. SPANGLE.

Witnesses:

J. HINMAN SMITH,
JAMES F. FOX.