H. L. NORTON.

Revolving Moldboard.

No. 2,784. Patented Sept. 23, 1842.

Fig. 1.

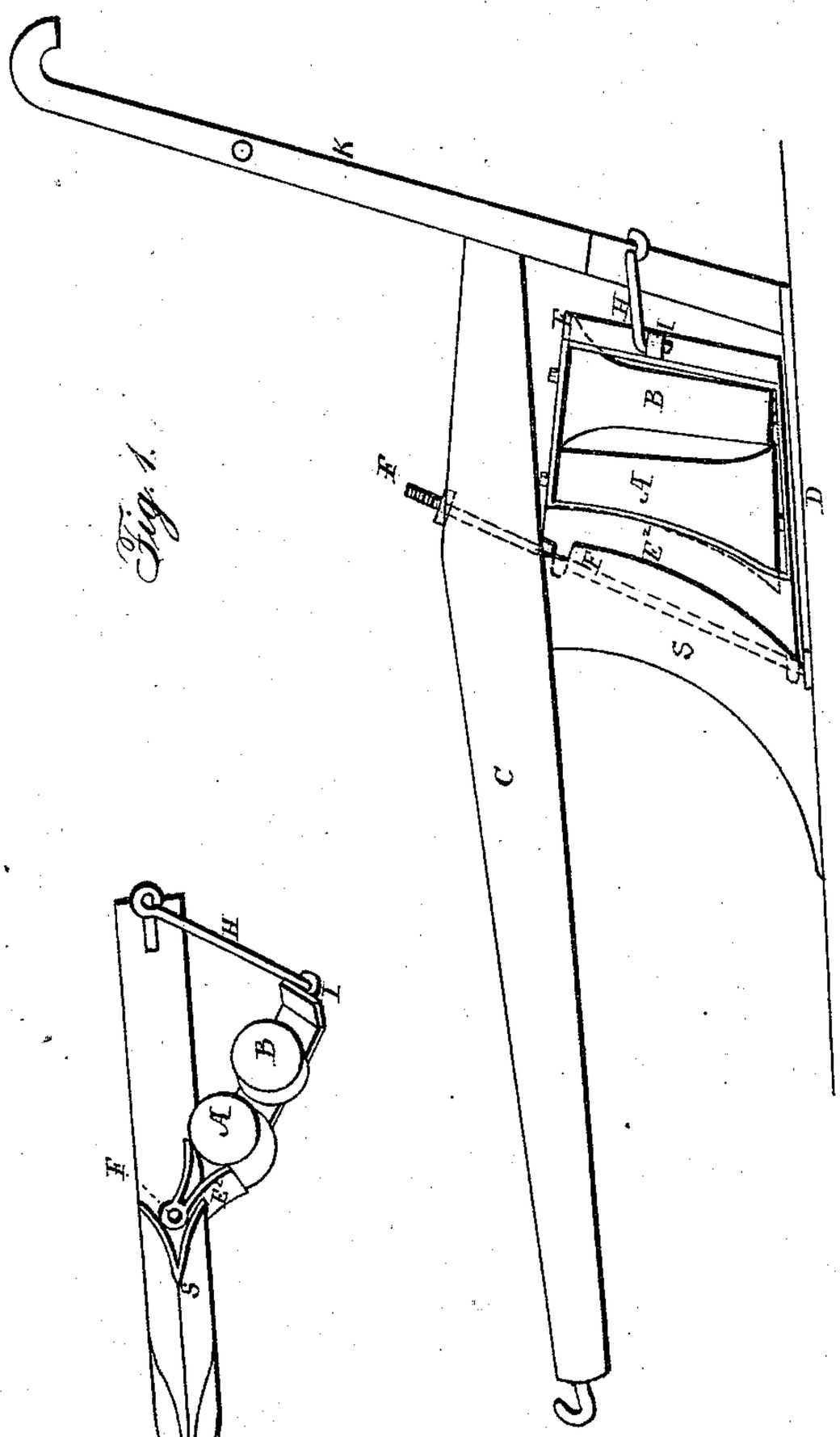

Fig. 2.

W. P. Elliot,
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UNITED STATES PATENT OFFICE.

HIRAM L. NORTON, OF GRANVILLE, NEW YORK.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **2,784**, dated September 23, 1842.

To all whom it may concern:

Be it known that I, HIRAM L. NORTON, of the town of Granville, in the county of Washington and State of New York, have invented a new and useful Improvement in the Construction of Plows, which is described as follows, reference being had to the annexed drawings of the same, making a part of this specification.

Figure 1 is a side elevation of the plow. Fig. 2 is a sectional view.

This invention and improvement consists in forming a shifting mold-board of two or more bell-shaped rollers, A B, placed vertically in alternate order---that is to say, the small end of the roller A, immediately behind the sheth S, is placed next the beam C, and the small end of the next succeeding roller, B, is placed below on a line with the land-bar D, and the large end next the beam, by which arrangement a revolving concavo-convex reversible mold-board is formed, the reversible or changeable character being designed for the purpose of plowing on the sides of hills, and being acquired by arranging the aforesaid bell-shaped rollers in a metallic vibrating frame, E, vibrated to the right or left, under the beam, on a vertical bolt, F, in which the vertical axles of the rollers are placed, said frame being made of tire or other iron of a rectangular or other convenient shape, and when turned to either side made fast by a hook, H, attached to the lower parts of the handles K and dropped into an aperture or eye, I, in the aforesaid swing-frame E, at the rear side thereof, or other convenient place.

The sheth S is made in the form of a colter on the front or cutting edge, and hollow or concave on the rear, to act as a guard to the forward part or front side of the vibrating frame placed in the concavity of said sheth, and so as to turn the earth to the right or left therefrom.

The beam C and handles K are made in the usual manner.

The front side of the vibrating frame E is made of a colter form on the front edge, which turns in the concavity of the sheth S, having its sides E^2 flaring outward to the right and left, in the manner of a double winged shovel-plow, the front bell-shaped roller, A, being placed in the cavity thus formed on the inner side of the front of the said vibrating frame, the aforesaid flaring sides E^2 serving to turn the earth to the right and left from the front roller, A, to prevent clogging. The staple which attaches one end of the hook H to the handles is inserted into the handles at the point where their lower ends come together, about midway between the beams and land-bar, or in any convenient place. The bolt F, on which the frame E vibrates, passes upward through the land-bar and the projecting corners or ears of the top and bottom of the frame and through the beam C, having a nut on the upper end thereof.

What I claim as my invention, and which I desire to secure by Letters Patent, is—

The arrangement of the two rollers A B on the mold-board in the manner and for the purpose set forth, or in any other mode substantially the same.

HIRAM L. NORTON.

Witnesses:

WM. P. ELLIOT,

A. E. JOHNSON.