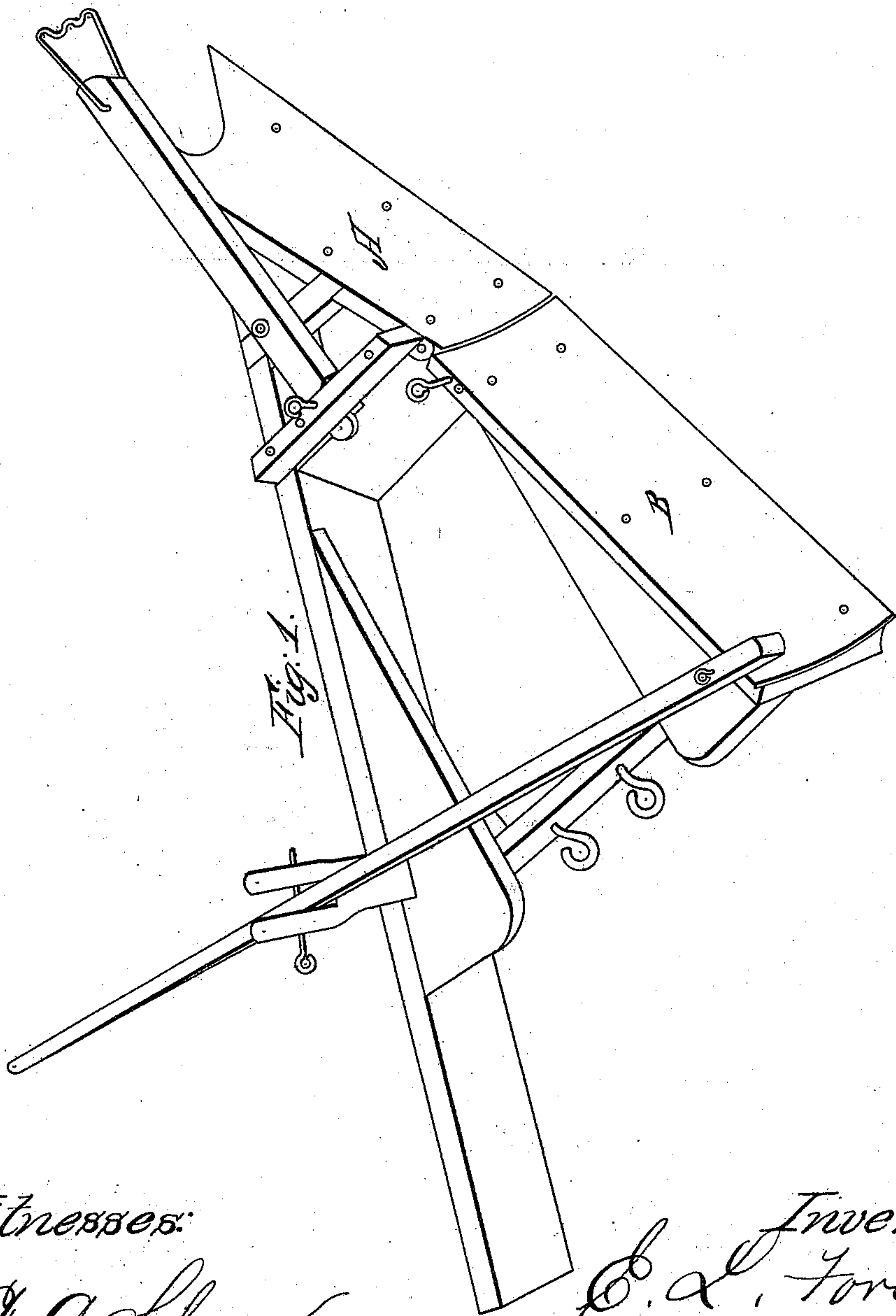


E. I. Foreman,

Ditcher.

No. 97,183.

Patented Nov. 23, 1869



Witnesses:

J. A. Lehmann
Leopold Knecht

Inventor:

E. I. Foreman
per
Sheldon T. Mason

UNITED STATES PATENT OFFICE.

E. L. FOREMAN, OF RANTOUL, ILLINOIS, ASSIGNOR TO EDWARD FOREMAN,
OF SAME PLACE.

IMPROVEMENT IN DITCHERS AND GRADERS.

Specification forming part of Letters Patent No. **97,183**, dated November 23, 1869; antedated
November 15, 1869.

To all whom it may concern:

Be it known that I, E. L. FOREMAN, of Rantoul, in the county of Champaign, and in the State of Illinois, have invented certain new and useful Improvements in Ditchers and Scrapers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The object of my invention is to provide a movable ditcher and road-scraper which can be easily and readily used; and it consists in the arrangement of certain devices, hereinafter set forth and described.

Figure 1 is a perspective of my invention.

Letter A represents a ditching-plow, which is provided with a movable side, B. Upon the mold-board side of this ditcher I place a steel plating, extending from the top to from two to four inches below the bottom, and formed as sharp and knife-like as possible, so as to offer less resistance to the earth. Upon the opposite side this plating does not extend upward more than a few inches. By plating the whole of the molding I find that it scours much

easier, and is a great saving to the wood-work, and by having it extend down below the edge it cuts much more easily, and so requires less power to draw it.

As the other parts of the ditcher are the same as those in the Patent No. 86,294, granted to me January 26, 1869, it is unnecessary for me to explain and describe them.

The above-described invention is intended as an improvement upon my former patents on ditchers and graders.

What I claim as said improvement is—

The arrangement of the hinged side B and plow A upon the frame, as shown and described, when said parts A B are formed of sheet metal, curved as shown, and extend beneath the wood-work to which the plates are attached, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of March, 1869.

E. L. FOREMAN.

Witnesses:

J. W. DODGE,
H. S. TOBIE.