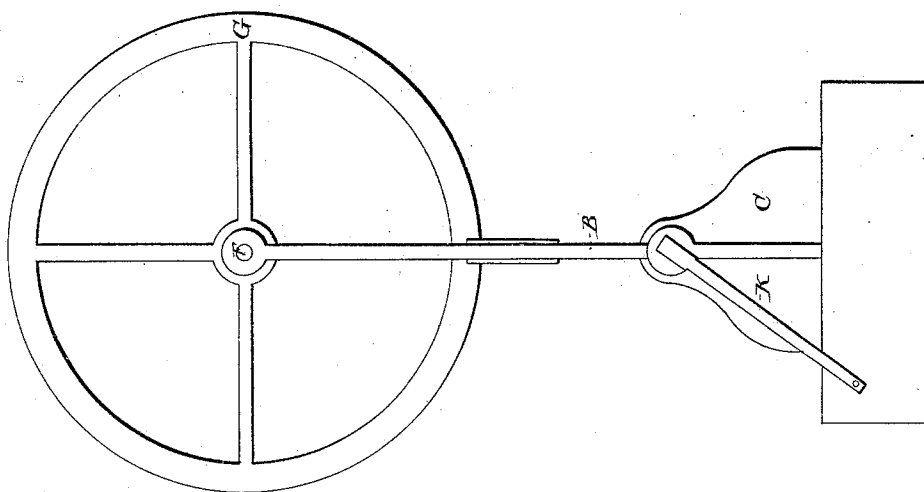
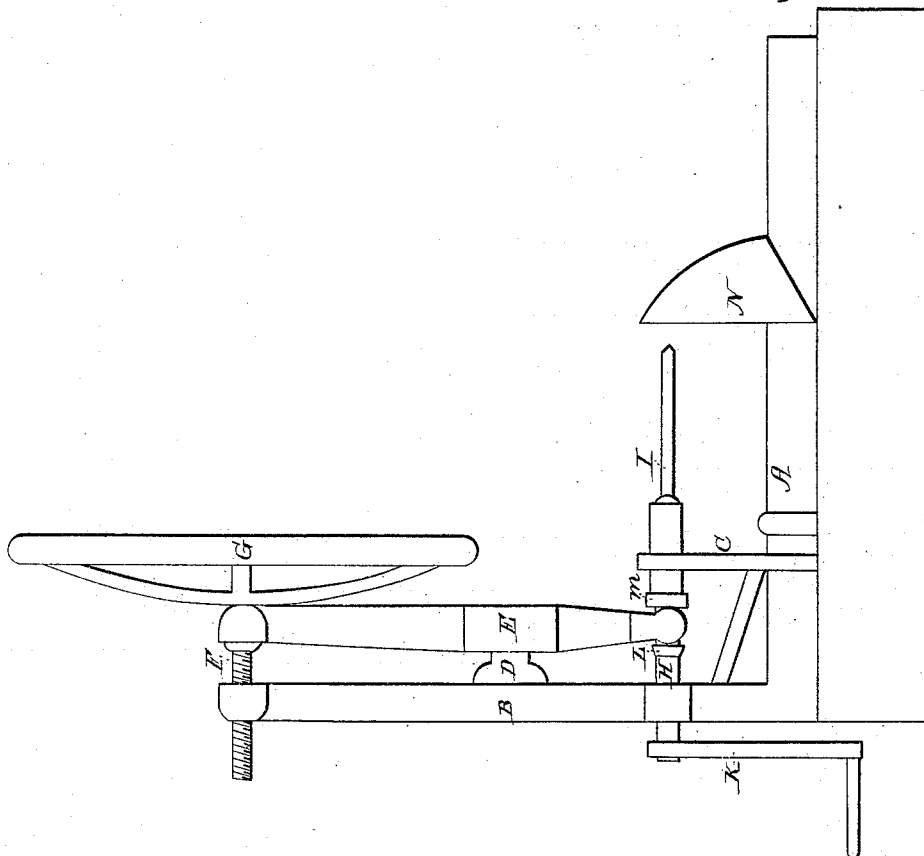


Currier & Taber,

Metal Drill,

N^o 1,224.

Patented July 8, 1839.



UNITED STATES PATENT OFFICE.

JOHN H. CURRIER AND WING H. TABER, OF FAIRHAVEN, MASSACHUSETTS.

MACHINE FOR DRILLING IRON.

Specification of Letters Patent No. 1,224, dated July 8, 1839.

To all whom it may concern:

Be it known that we, JOHN H. CURRIER and WING H. TABER, of Fairhaven, in the county of Bristol and State of Massachusetts, have invented a new and useful Machine for Drilling Iron, Steel, Brass, and the Like Substances; and we do hereby declare that the following is a full and exact description.

10 The nature of our invention consists in combining the powers of the lever and screw so as to force forward the chuck and drill while it is turned by a crank.

15 To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation.

20 We make our machine of soft cast iron and it consists of a base and two perpendiculars, as shown at A, B, C, in accompanying drawings. Extending from the perpendicular B, is a short arm D, upon which is a lever E, with a pin running through each, and forming the fulcrum. Through the top of this lever and the top of the perpendicular B, runs a wrought iron screw F with a thread cut in the perpendicular and smooth where it passes through the lever being loose that the lever may not cramp when passing back or forward. To the end of the screw 30 passing through the lever is attached a wheel made fast at the hub G. Through the perpendiculars runs a mandrel H, which receives the drill I, and to the outer end is attached a crank K. We make this man-

drel larger where it passes through the perpendicular C, at the middle of which is an offset when it passes through the lower end of the lever. Each side of the lower end of the lever is a collar L, M. We oval the end of the lever playing against the collars to avoid friction; on the base we fit a sliding bearer N, which we fasten at any convenient distance by means of a pin. We make the machine fast in a vise or by screwing it upon a bench, and work it by placing the article to be drilled against the bearer N and turn the crank with one hand and press up the drill with the other by turning the wheel G.

In drilling holes one inch and under, we make the base and perpendicular A B 22 inches in length, the lever 9, the longest end 6, and the other parts in proportion.

What we claim as our invention and desire to secure by Letters Patent is—

The method of forcing in and drawing out the drill by the combination of the drill-stock, lever and screw in the manner described.

JOHN H. CURRIER.
WING H. TABER.

Witnesses to J. H. Currier's signature:

SAMUEL SMALL,
L. D. FLEMING.

Witnesses to Wing H. Taber:

HENRY H. CRAPO,
DAVID SHIVERICK.