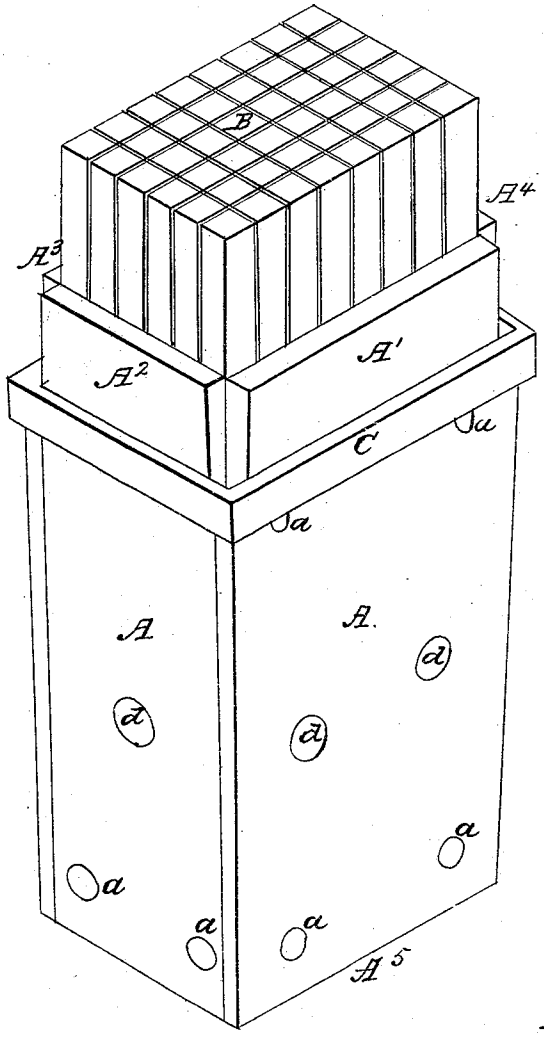
T. WISE.

Ore Stamp.

No. 31,570. Patented Feb. 26, 1861.



Witnesses

Inventor

T. Wise

Per Munn & Co

Attorneys

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

THOMAS WISE, OF BOSTON, MASSACHUSETTS.

STAMP-HEAD FOR QUARTZ-CRUSHERS.

Specification of Letters Patent No. 31,570, dated February 26, 1861.

To all whom it may concern:

Be it known that I, THOMAS WISE, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and Improved Stamp-Head for Beating Minerals; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, making part of this specification, and representing a perspective view of my improved stamp-head in an inverted position.

The subject of my invention is a stamp head the face of which is composed of a cluster of small bars of steel or other metal held in a suitable socket by means of clamp jaws and an encircling ring as will be hereinafter explained.

A, A, represent plates of wrought iron tapering in thickness and secured upon a cast iron core or center by means of rivets *a*. The projecting ends A′, A^2, A^3, A^4, of the plates are set with spaces between their adjacent edges and constitute a socket to receive and tightly clamp a cluster of small bars B, of steel or other metal constituting the face of the stamp head.

C, is a band or hoop which is placed over the smaller end A^5, of the head and driven forcibly over the yielding clamp jaws A′, A^2, A^3, A^4, as represented to secure the face B.

d, *d*, *d*, represent steady pins cast upon the core and projecting through the plates A, to sustain the longitudinal jar of the latter.

The face B, is composed of inch or inch and a quarter steel simply cut out of the rod without requiring any finish. By using rods of this size I am enabled to impart to the entire face a uniform drill temper at a small expense and without danger of cracking. The face is much more reliable and durable than that of a chilled or cast head and is in the end very much less costly. When worn nearly even with the ends of the clamp jaws the face may be removed and a plate of iron inserted to cause it to project farther. By this means the steel face may be worn down to within three inches of its entire thickness and when entirely destroyed the main part of the head remains equally good for the insertion of a new face.

The materials I have specified are such as I believe to be best adapted for the purposes explained, but I do not desire to be understood as confining myself thereto. The invention is specially designed for stamping and crushing metallic ores and other minerals, but may be used in the construction of steam hammers for forging, and for various analogous purposes.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is,

1. A hammer face B, composed of a cluster of metallic rods as explained.

2. The yielding clamp jaws A′, A^2, A^3, A^4, and band C, constructed, combined and operating in the manner set forth to secure a movable hammer face in position.

The above specification of my new and improved stamp head signed this twenty-first day of January 1861.

THOMAS WISE.

Witnesses:

OCTAVIUS KNIGHT,

LEWIS W. BENDRÉ.