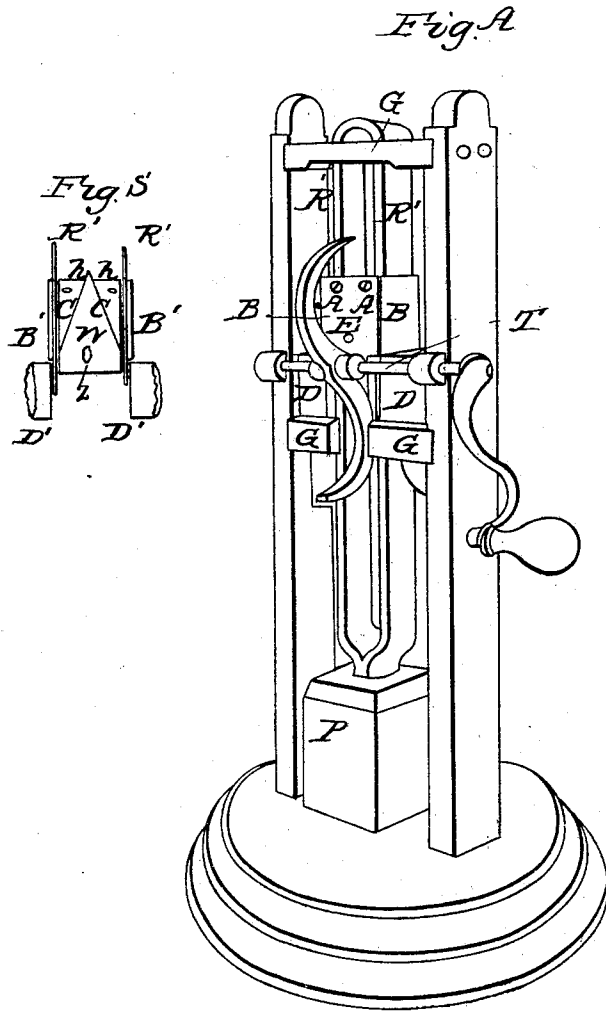


D. E. RICE.

Ore Crusher.

No. 24,578.

Patented June 28, 1859.



WITNESSES
Lucas O. Miller
Thomas Howley

INVENTOR
Delos E. Rice

UNITED STATES PATENT OFFICE.

DELOS E. RICE, OF DETROIT, MICHIGAN.

MODE OF LIFTING STAMPS FOR CRUSHING ORES.

Specification of Letters Patent No. 24,578, dated June 28, 1859.

To all whom it may concern:

Be it known that I, DELOS E. RICE, of Detroit, in the county of Wayne and State of Michigan, have invented a new and Improved Mode of Giving a Uniform Lift to Stamp-Heads for Crushing Ore and Rock; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, Figure A being a perspective view, and Fig. S, a longitudinal section of the same.

The nature of my invention consists of a box or band B, B, Fig. A, and in the section Fig. S which moves freely upon the stem or rods R, R, attached to the stamp head P. Between the rods R R and inclosed in the box or band B, B are three wedges as seen in the section, Fig. S. These wedges are kept in their places by means of a bolt through each, and through the band as seen at A A and *c* Fig. A., and *h*, *h*, and *z* in the section Fig. S. The two side wedges *c c*, Fig. S., have the bolt holes through them made oblong, so that the wedges can move, or have a lateral motion, and the middle wedge W, has an oblong hole for the bolt so that it can be moved upward and

downward. Its operation is as follows: 30
When the band is at rest on the stops D, D, as seen in Fig. A, the cam L which is attached to the horizontal shaft T, strikes the wedge W, on the underside of the band, and the two side wedges, *c, c*, Fig. S, are pressed 35
outward and against the insides of the rods R, R, which are held in their places and kept from spreading by the band B, B. When the cam has raised the stamp head P, the requisite height, the band and wedges 40
descend with the rods R R and rest upon the stops D, D, the same as before, ready for another lift. By this arrangement a uniform lift is given to the stamp head without regard to the quantity of ore placed 45
beneath it.

What I claim as my invention and desire to have secured by Letters Patent is—

The application of the folding wedges *c c* and *w*, in combination with the band *b, b*, or their equivalents substantially as described, thereby producing as desired, a uniform lift of the rods together with the stamp head.

DELOS E. RICE.

Witnesses:

L. O. FULLER,
T. THORLEY.