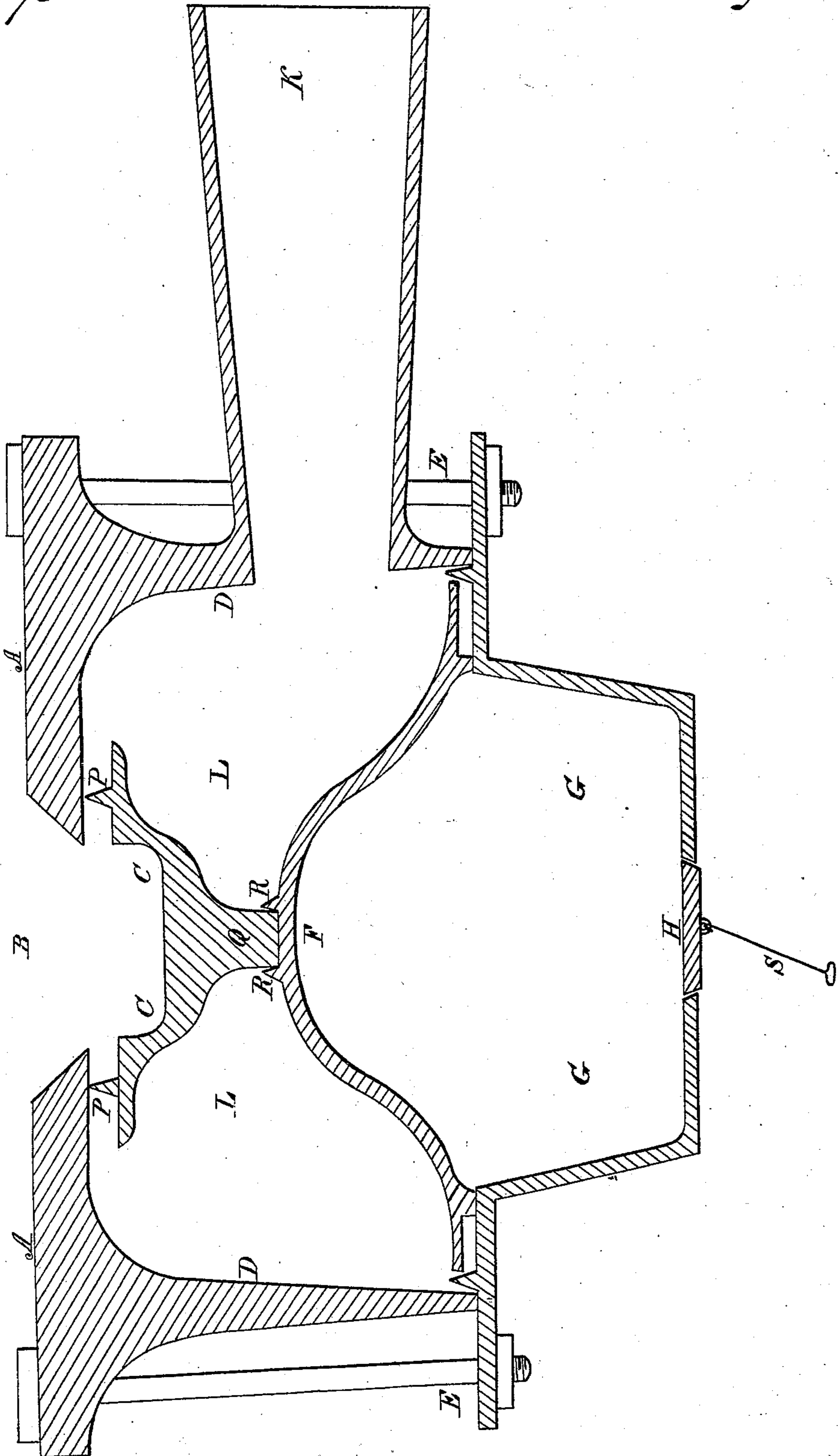


L. C. Minor,

Tuyere,

Patented July 31, 1847.

N^o 5,209.



UNITED STATES PATENT OFFICE.

L. C. MINOR, OF SAUGERTIES, NEW YORK.

TWYER.

Specification of Letters Patent No. 5,209, dated July 31, 1847.

To all whom it may concern:

Be it known that I, LEMAN C. MINOR, of Saugerties, in the county of Ulster and State of New York, have invented a new and Improved Mode of Blowing Blacksmiths' Fires with what is Called a Twyer-Iron; and I do hereby declare that the following is a full and exact description of the same.

10 The nature of my invention consists in providing a sunk bottom to the twyer to receive the dirt, an elevated bridge with cups and points permitting the whole air chamber to be filled with air and passed out equally on all sides at the same time.

15 A A, the top or face, and the sides D, D, connected and extending to the bottom E, E; B, the mouth or outlet through which the wind or blast passes into the fire; C, C, the plate or stop to prevent the cinder and dirt
20 from filling the air chamber; F, the bridge or rest that holds the plate or stop C, C.

G, G, the sunk bottom for receiving the cinder and dirt that passes into the mouth B; H, the slide for cleaning the whole bottom and air chamber when necessary; S, the rod 25 for drawing the slide; K, the blast pipe through which the wind passes from the bellows into the air chamber under the bridge F and above the receiver or sunk bottom; L, L, the air chamber. 30

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

Combining the dishing stop plate with the plate A and bridge F by means of the points P, foot Q, and cups R, substantially as described reference being had to the drawings 35 accompanying this specification.

L. C. MINOR.

In presence of—

GEO. A. GAY,
E. J. MCCARTHY.