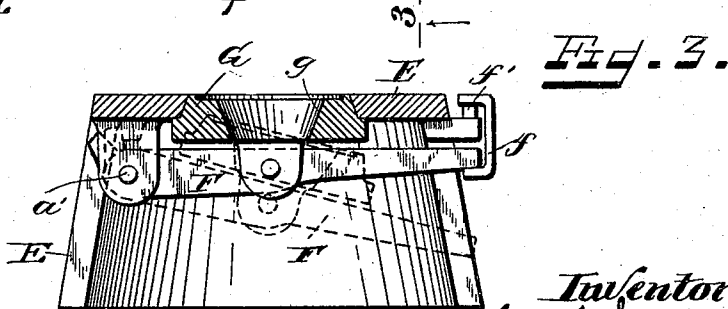
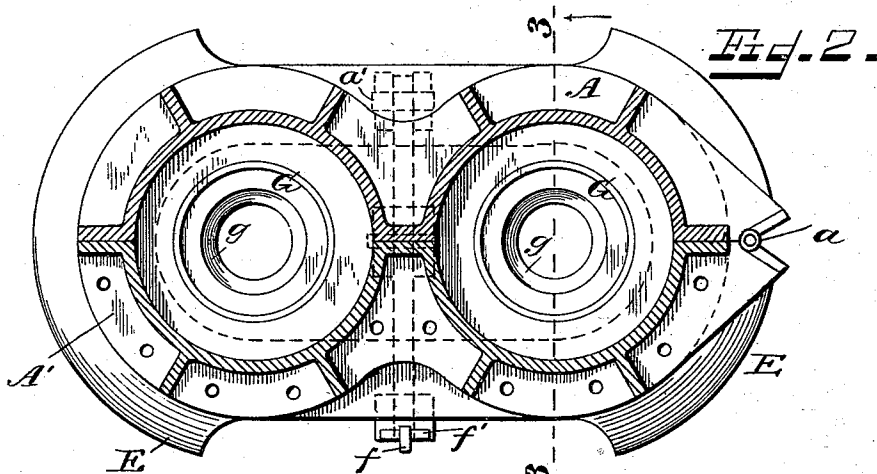
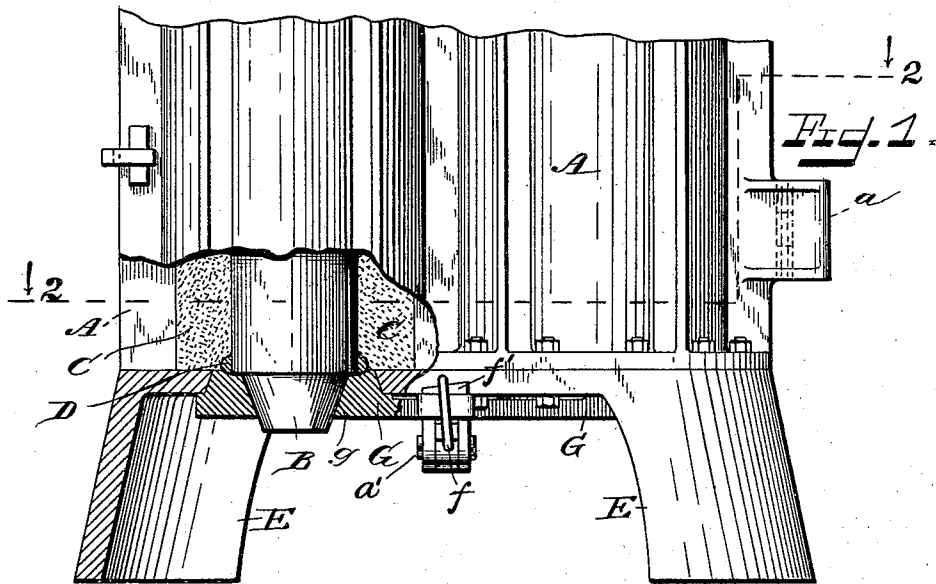


(No Model.)

F. MARTY.
CHILL PLATE FOR FLASKS.

No. 478,622.

Patented July 12, 1892.



Witnesses

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UNITED STATES PATENT OFFICE.

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LEWIS E. MORRELL, OF COLUMBUS, OHIO, AND JACOB K. DIMMICK, OF
NEWPORT, KENTUCKY.

CHILL-PLATE FOR FLASKS.

SPECIFICATION forming part of Letters Patent No. 478,622, dated July 12, 1892.

Application filed June 6, 1891. Serial No. 395,381. (No model.)

To all whom it may concern:

Be it known that I, FRANK MARTY, a citizen of the United States, and a resident of Anniston, in the county of Calhoun and State of Alabama, have invented a certain new and useful Improvement in Chill-Plates for Flasks, of which the following is a specification.

The object of my invention is to provide chill-plates for flasks, which are adapted to receive and centrally seat the core-print of the pattern and also the core and to permit the bead-ring to be readily removed without detaching the chill-plate from the flask; and the invention consists in the construction and arrangement of parts hereinafter pointed out and claimed.

In the drawings, Figure 1 is a side view, partly in section, showing the lower part of a twin pipe-flask provided with my improved chill-plates. Fig. 2 is a sectional view upon line 2 2 of Fig. 1, and Fig. 3 a sectional view upon line 3 3 of Fig. 2.

A and A' represent the sides of a twin pipe-flask hinged at *a*.

B represents the pattern, C the sand, D the bead-ring, and E a base-plate rigidly attached to one part of the flask and provided with openings under each chamber of the flask adapted to receive the core-seats, which also serve as chill-plates.

F is a bar hinged to the flask or, more properly speaking, its base-plate E at *a'* and adapted to be locked at its free end to the flask or its base-plate by means of a U-shaped clamp *f* and wedge *f'* or other suitable means.

G is a plate mounted upon the hinged bar F and carrying core-seats *g*, adapted to take into the openings in the base-plate and serve as chill-plates. These core-seats are provided with annular tapering openings adapted to receive and centrally seat the core-print of the patterns and also the cores.

The operation is as follows: The hinged bar F is clamped to the flask, thereby hold-

ing the core-seats firmly in the openings in the base-plate. The patterns are placed in the flask, their core-prints taking into the annular openings in the core-seats and being centrally seated thereby. The bead-ring is slipped over the pattern. The sand is put in and rammed and the pattern withdrawn. The clamp *f* is removed and the bar F swung downwardly, withdrawing the core-seats from the base-plate sufficiently to permit the removal of the bead-rings. The core-seats are again locked in position, the cores inserted, and the castings made. By this arrangement the base-plate and core-seats become a permanent part of the flask and the bead-rings can be removed by simply lowering the hinged plate, and the same seat serves both for the pattern and the core.

I have illustrated the plate G as pivotally mounted upon the bar F in such manner as to allow some loose motion while the core-seats are being swung into position; but it is obvious that the bar may be rigidly attached to the plate or they may be integral.

I claim as my invention—

1. In combination with a pipe-flask A A', the base-plate E, provided with openings to receive the core-seats, the pivoted bar F, and the plate G, carried by the bar F and provided with the core-seats *g*, the internal diameter of the flasks being greater than that of the openings in the base-plate, whereby a fixed ledge or support is provided for the sand, all substantially as shown and described.

2. In combination with a pipe-flask, a base-plate attached thereto and provided with openings, a bar F, and means for locking it in position, and a plate G, pivotally mounted upon the bar and provided with core-seats, substantially as and for the purpose specified.

FRANK MARTY.

Witnesses:

D. D. MCLEOD,
J. F. GREEN.