W. H. Wiley,

Supporting Chill Irons.

No. 80,321. Patented July 28. 1868.

Fig. 1.

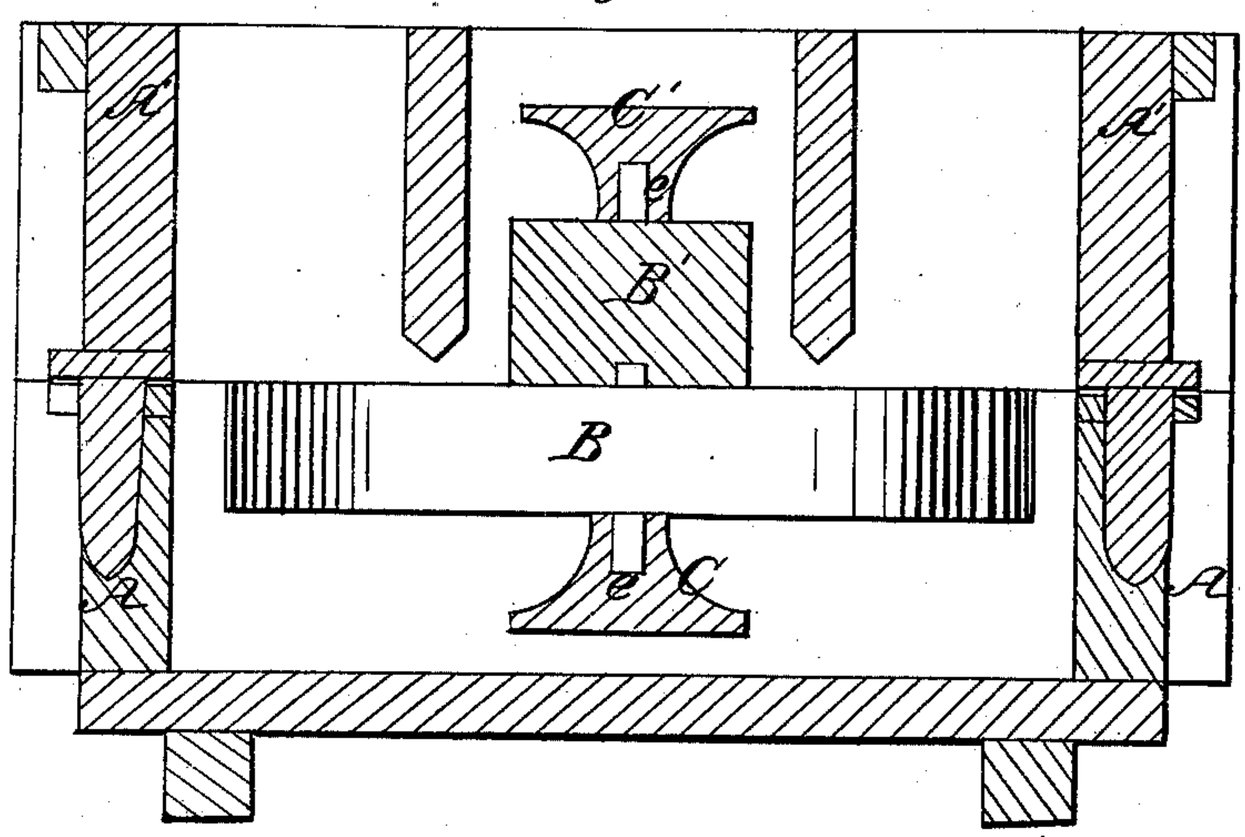
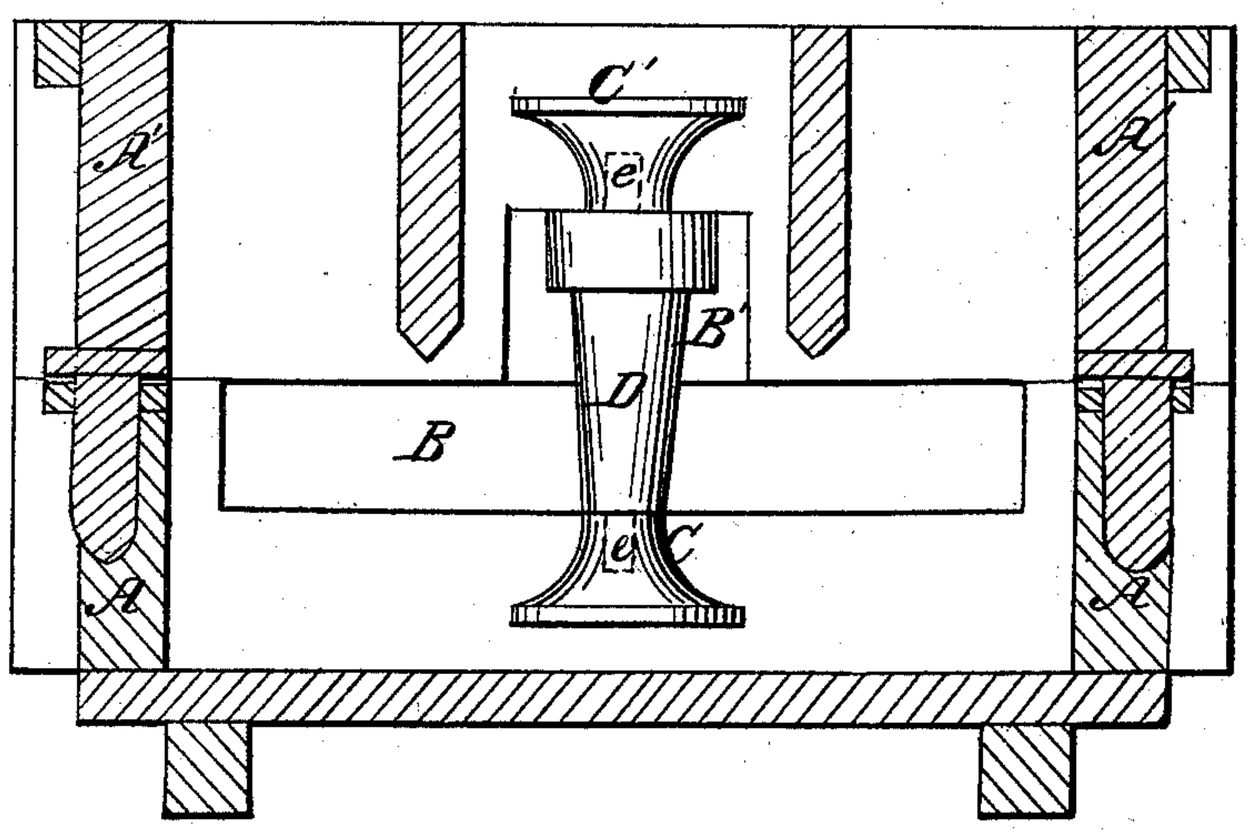


Fig. 2.



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United States Patent Office.

WILLIAM H. WILEY, OF FREDONIA, NEW YORK.

Letters Patent No. 80,321, *dated July* 28, 1868.

IMPROVED METHOD OF SUPPORTING CHILLS IN CASTING.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM H. WILEY, of Fredonia, in the county of Chautauqua, and State of New York, have invented a new and useful Improvement in the Method of Supporting Chill-Irons in Casting; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, in which—

Figure I is a vertical section of a flask with the pattern of a wheel represented in the sand.

Figure II is a similar section, with the pattern removed and the chill-iron supported in my improved manner.

The invention consists of two pedestals, arranged in the flask with the pattern, and so constructed as to be retained in the sand when the pattern is removed, and to receive and support the ends of the chill-iron, substantially as hereinafter set forth.

In the drawings, A represents the nowel or lower and A′ the cope or upper portion of a flask.

B B′ is the pattern for a spur-wheel and pinion combined.

C C′, the pedestals or supports for the chill-iron D.

The portion D of the pattern and the pedestal C are put in the drag or nowel together, (the print *e* of the pattern fitting in a corresponding socket in the pedestal,) and the sand rammed down. The nowel is then inverted, as shown in Fig. I. The portion B′ and pedestal C′ are then arranged in place on the portion B, and the cope applied, and sand filled in. The patterns are then removed, the pedestals being retained, on account of their dove-tail form, in the sand. The chill-iron D is then adjusted in place, its prints fitting in the sockets in the pedestals, as represented in Fig. II, when the mould is ready for the reception of the cast metal.

The pedestals, on account of the bearing-surface they present, are securely maintained in their proper position in the flask, which insures an accurate support for the chill-iron, without that liability to displacement which in the ordinary method so frequently occurs.

My improved method of support is also an improvement over that in which the sockets for the chill-iron are formed in the top and bottom of the flask, as it can be used with any ordinary flask, and enables the moulding to be more readily accomplished.

What I claim as my invention, is—

The pedestals C C′, constructed and manipulated with the flask and pattern, and supporting the chill-iron D, substantially as and for the purpose set forth.

WILLIAM H. WILEY.

Witnesses:

JOHN C. MULLETT,

LEVI HOLMES.