

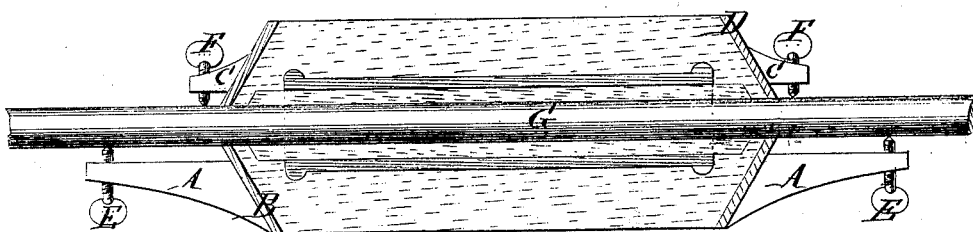
JOHN DEMAREST.

Improvement in Flasks for Casting Pipes.

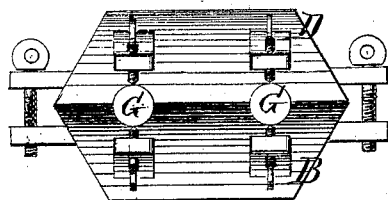
No. 113,986.

Patented April 25, 1871.

*Fig:1.*



*Fig:2.*



Witnesses:

*M. Vorländer*

*Wm C. C. Smith*

Inventor:

*J. Demarest*

PER

*Munn & Co*

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# UNITED STATES PATENT OFFICE.

JOHN DEMAREST, OF MOTT HAVEN, NEW YORK, ASSIGNOR TO HIMSELF  
AND JORDAN L. MOTT, OF SAME PLACE.

## IMPROVEMENT IN FLASKS FOR CASTING PIPE.

Specification forming part of Letters Patent No. **113,986**, dated April 25, 1871.

*To all whom it may concern:*

Be it known that I, JOHN DEMAREST, of Mott Haven, in the county of Westchester and State of New York, have invented a new and useful Improvement in Casting Pipe; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to improvements in casting pipe and other articles in which long horizontal cores are employed; and it consists in an improved mode of adjusting the cores to counteract their tendency to spring upward at the center by floating on the molten metal while the mold is being filled, by which the pipes are made thicker on the lower side along the middle, and thinner on the upper side, which it is very important to avoid.

Figure 1 is a longitudinal section of a mold with my improved core-molding attachments, and Fig. 2 is an end elevation of the same.

I propose to apply the long and strong projections A to the lower part of the flask B, one at each end, and the short ones C to the upper flask, D, for the support of temper-screws E F, by which I cramp the core-bar G so as to spring it down at the center about as much as it springs upward by the action of

the metal, so that when the casting takes place it will be centered truly with the mold.

The screws may be adjusted from time to time as the first castings are made until they are found to be rightly adjusted as to the amount the core is to be sprung down; or the screws may be adjusted for each cast. The tendency of the upper part of the flask to rise by the action of the screws F on the core will be counteracted by the fastening of the two flasks together by clamp-screws or other means.

The projection C may also be applied to the lower part of the flask, if preferred, in which case they would be placed at one side of the cavity H for the core-bar, and be suitably raised above the core-bar to support the screws F above. I prefer, however, the arrangement which I have here shown.

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

The combination, with the flask and the core-bar, of the screw-supporting projections A C and the temper-screws E F, arranged for springing the core downward along the middle, substantially as specified.

JOHN DEMAREST.

Witnesses:

GEO. W. MABEE,  
ALEX. F. ROBERTS.