

(No Model.)

W. EDGAR.
MOLDER'S FLASK.

No. 494,469.

Patented Mar. 28, 1893.

Fig. 1.

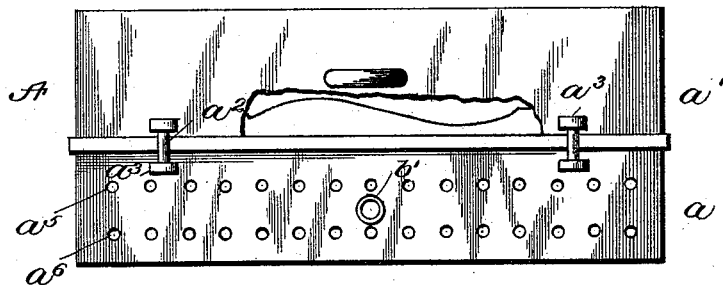
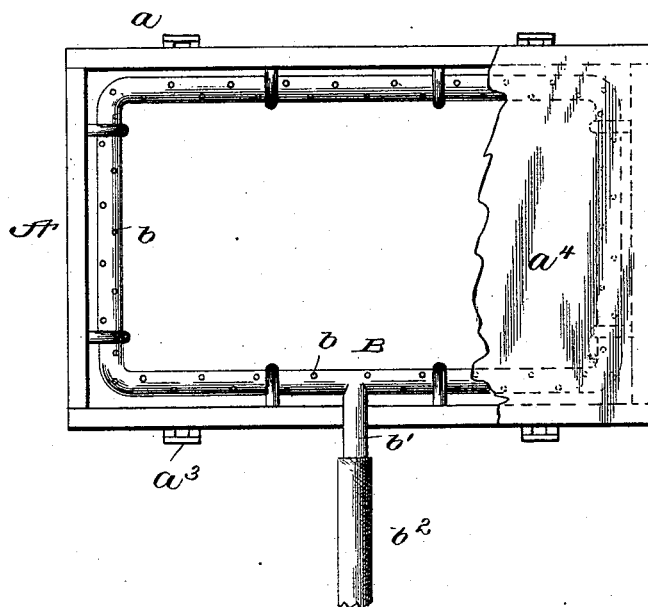


Fig. 2.



Witnesses

John D. Smith
Wm. S. Hodges

Inventor

William Edgar
By his Attorney
Allen & Lusherford

UNITED STATES PATENT OFFICE.

WILLIAM EDGAR, OF SANFORD, FLORIDA.

MOLDER'S FLASK.

SPECIFICATION forming part of Letters Patent No. 494,469, dated March 28, 1893.

Application filed May 24, 1892. Serial No. 434,144. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM EDGAR, a citizen of the United States, residing at Sanford, in the county of Orange and State of Florida, have invented certain new and useful Improvements in Molders' Flasks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention contemplates certain new and useful improvements in molders' flasks.

The invention consists in a molder's flask having a horizontal plate and a heating pipe or burner, or series thereof, located beneath said plate for constantly heating the latter and the mold pattern thereon, substantially as hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawings:—Figure 1 is a view in side elevation with parts broken away to show the pattern. Fig. 2 is a plan view thereof, parts being broken away to show the arrangement of the burner.

It has been demonstrated by actual practice that superior results are secured by supplying a heating medium beneath a mold pattern in a molding machine, especially in the manufacture of car-wheels, the result being the production of an article of the highest quality and possessing the greatest advantages.

It is well known that in molding by machinery the action is so quick that the patterns become clogged with the damp sand, the same being on them nearly all the time, and in consequence bad results are obtained. According to my invention the patterns are heated as the sand is being tamped and thus I avoid clogging of the damp sand on the patterns.

Referring to the drawings, A designates a molder's flask, which is composed of two parts a , a' , connected together by any suitable means, such as by pins a^2 passed through cor-

responding ears a^3 . The lower part a is provided with an upper horizontal partition a^4 upon which the mold pattern is secured, and in its sides are two rows of holes a^5 , a^6 , the former to allow the smoke or burned gas to escape, and the latter to supply air for combustion.

Extending longitudinally and transversely within the flask A is a continuous pipe B, which is parallel at all points with the sides and ends of the flask. This pipe is located just beneath the partition a^4 and is shown as being provided with numerous jet-holes or burners b at which points the gas, or other combustible medium, is ignited. Into one side of this pipe B opens a branch pipe b' which extends through a side opening in the flask, and to it is connected one end of a flexible tube or pipe b^2 leading from a suitable reservoir, or other source of supply, not shown. The heat generated beneath the partition will keep the latter and the mold-pattern constantly heated, and in consequence highly advantageous and most superior results are secured, the action of the heat serving to preserve a high uniform temperature throughout the molding operation.

I claim as my invention—

1. A molder's flask having a horizontal partition upon which the mold pattern is secured, and a pipe provided with a series of burners or jets and located within said flask beneath said partition, as set forth.

2. A molder's flask having a horizontal partition upon which the mold pattern is secured and provided with upper and lower series of holes or apertures in its sides, below said partition and a heating pipe located in said flask beneath said partition, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM EDGAR.

Witnesses:

W. C. GODWIN,
A. M. THRASHER.