

(No Model.)

J. WACHALAC.

MATCH FOR MOLDING WITH GATED PATTERNS.

No. 378,634.

Patented Feb. 28, 1888.

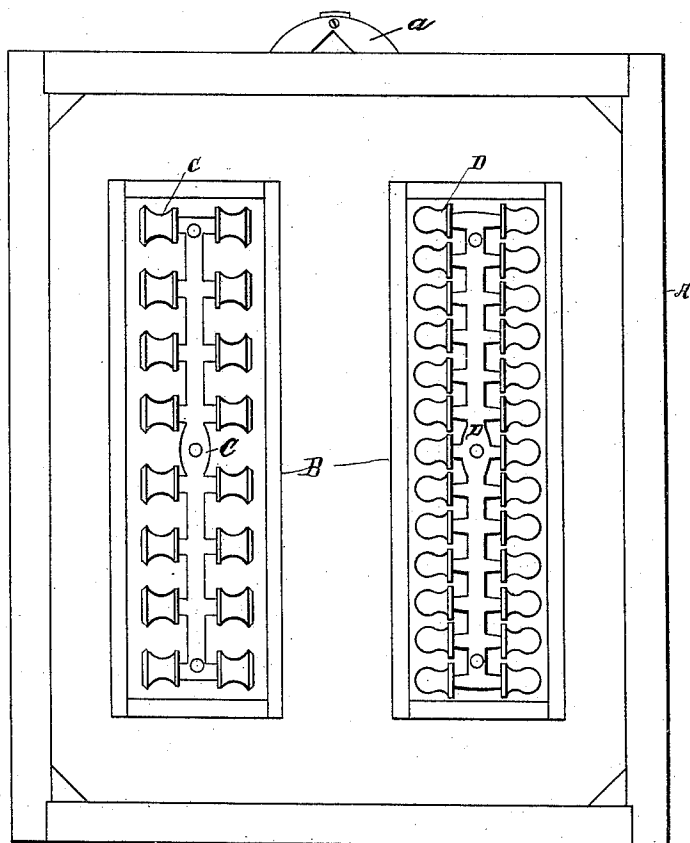


Fig. 1

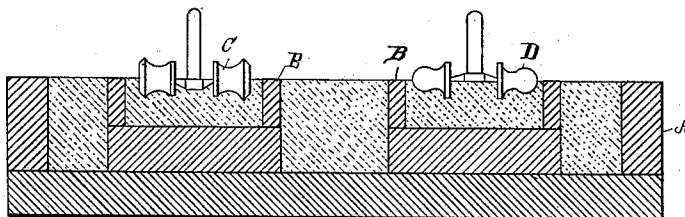


Fig. 2

WITNESSES

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JOSEPH WACHALAC, OF CLEVELAND, OHIO.

MATCH FOR MOLDING WITH GATED PATTERNS.

SPECIFICATION forming part of Letters Patent No. 378,634, dated February 28, 1888.

Application filed October 24, 1887. Serial No. 253,244. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH WACHALAC, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful
5 Improvements in Matches; and I do hereby 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 pertains to make and use the same.

10 My invention relates to improvements in matches, and is adapted especially for molding with gated patterns.

In my invention the respective matches are made separate from each other and from the
15 box or flask section in which such matches are set for molding, to the end that the different matches may be interchangeable in the flask-section and be removable from the latter for the purpose of storage. Heretofore, if the
20 gated patterns were small, two or more such sets of patterns were set in a flask-section and the match was made in cement, plaster-of-paris, or other suitable material, the matches for the different patterns not being detachable
25 from each other, or from the inclosing flask-section. Consequently if a larger number of castings from one pattern was required such excess was made by using one portion of the flask while the other portion of the flask remained idle; also, in storing the matches a
30 flask-section in which the match was made had to be stored with the match, and consequently remained idle during such storage. As an improvement I have devised the mechanism illustrated in the accompanying drawings.

35 Figure 1 is a plan showing two gated patterns with matches for the same and an inclosing flask-section. Fig. 2 is an elevation in transverse section.

40 A represents a box or flask section, such as has heretofore been used for making matches.

B are match-boxes proper, made just large enough to accommodate the respective patterns—such, for instance, as patterns C and D.

Matches are made in boxes B in the usual
45 manner—that is to say, the boxes B are filled with cement, plaster-of-paris, or other suitable material, and the patterns are set in such materials to the “parting-line.” As many of
50 such matches are set in box A as the latter will accommodate, and the vacant space, if there be any, is filled with sand, as shown at a, after which the box A, with the inclosed matches, is used in the ordinary manner.
55 When enough casting has been made from any one pattern, the match thereof may be lifted out of box A and another match inserted in its place. In this manner the whole of the flask may be always utilized. When the
60 matches are no longer wanted for present use, they are lifted out of box A and stored, leaving box A for other use. These matches, being small, occupy little space in storing and are light to handle.

The boxes B, in which these matches are
65 made, are quite inexpensive, while the flask-sections A, having to be provided with metal ears to fit dowel-pins of the flask proper and having to be braced at the corners to make them durable, are quite expensive.

70 With my improved device only a few boxes or flask-sections A are needed for any number of matches.

What I claim is—

The combination, with a flask-section, of
75 matches, each consisting of one gated pattern embedded in a box, the several matches being removably set in the flask-section, and a removable filling between the matches and the
80 flask-section, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 30th day of September, 1887.

JOSEPH WACHALAC.

Witnesses:

CHAS. H. DORER,
ALBERT E. LYNCH.