

Sept. 27, 1949.

W. H. KELLEY

2,483,286

MOLD

Filed Sept. 12, 1946

2 Sheets-Sheet 1

FIG 1

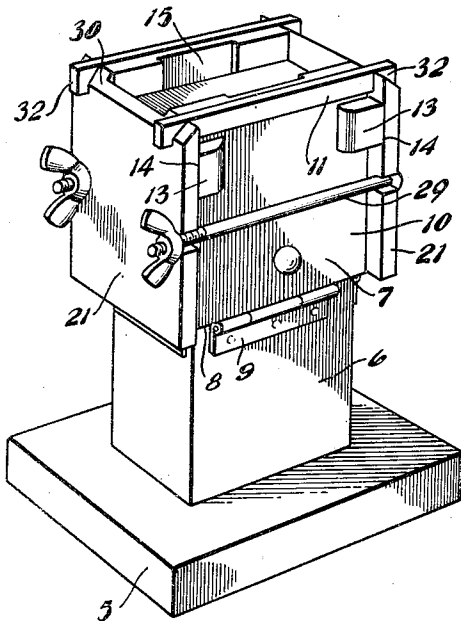
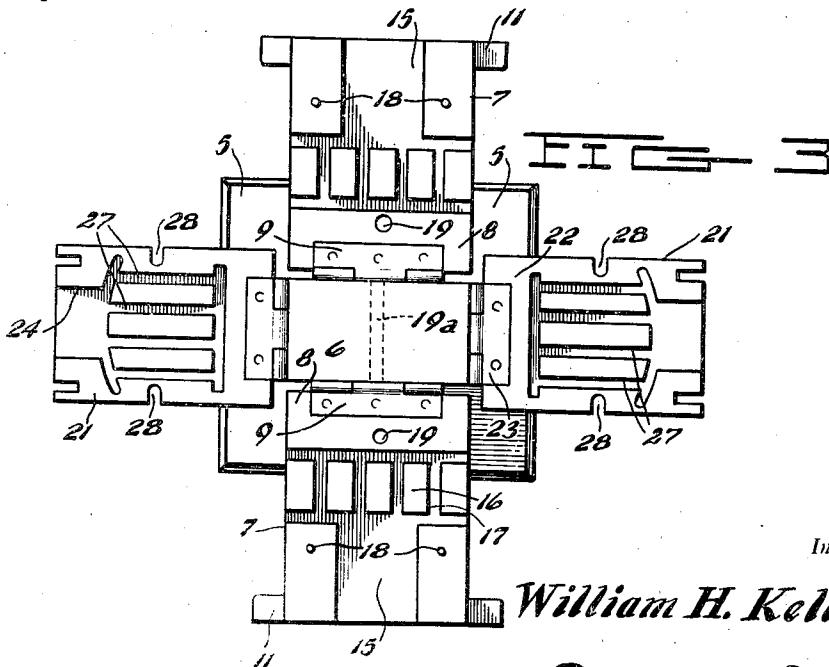
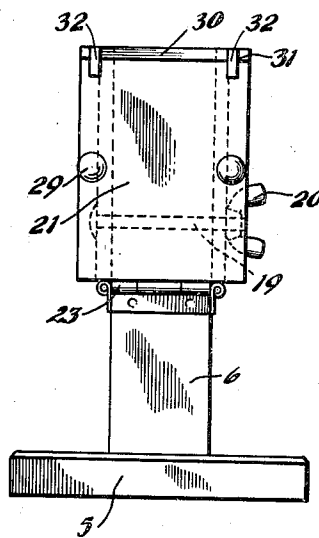


FIG 2



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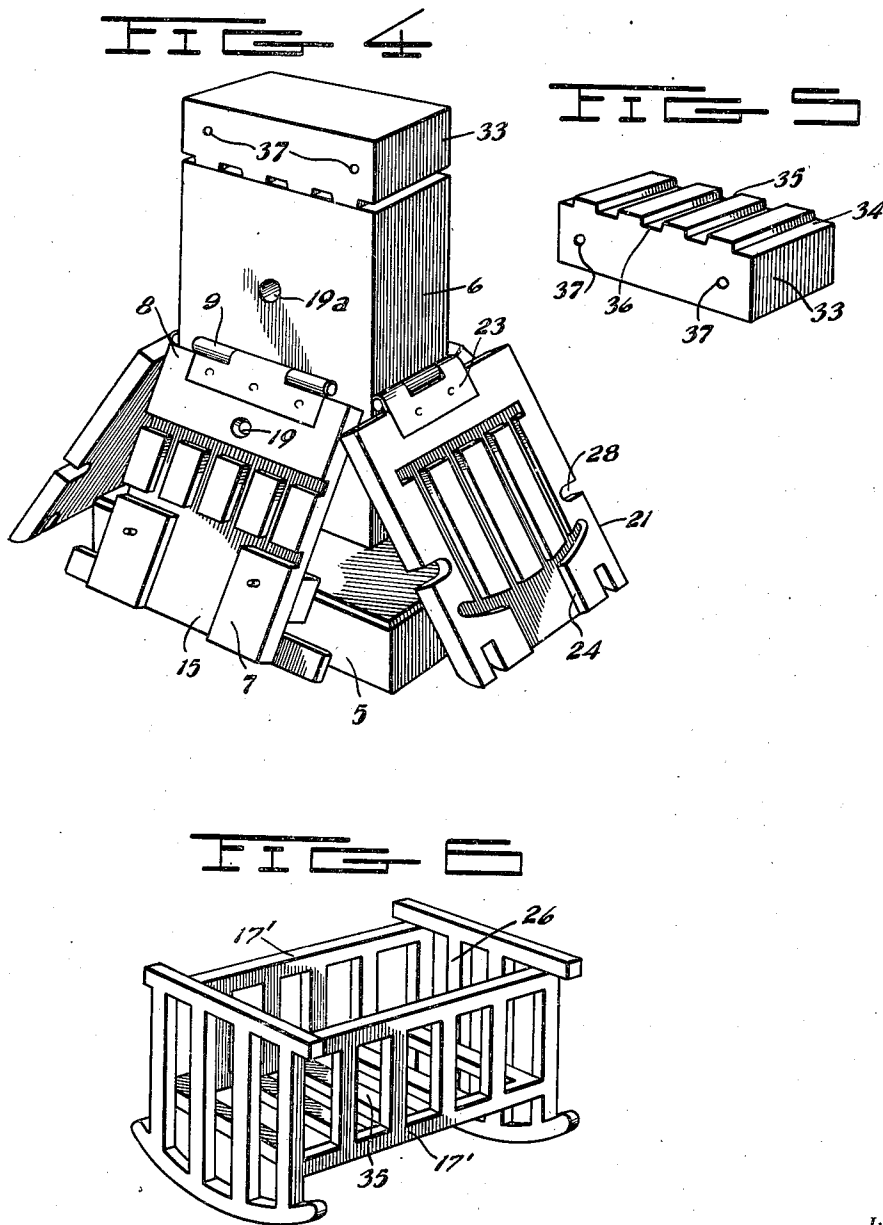
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UNITED STATES PATENT OFFICE

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MOLD

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2 Claims. (Cl. 22—156)

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The present invention relates generally to new, useful and improved molds and more particularly to a mold for making novelty toys, such as cradles or the like.

An important object of the invention is to provide a mold of this character by means of which the article is cast as a unitary structure.

A further object of the invention is to provide a mold having hingedly connected dies for molding a toy cradle or the like in a single operation.

A further object is to provide a mold which is relatively inexpensive to manufacture, durable in construction and one that can be easily put into operation due to the simplicity thereof.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view of the invention showing the die placed in closed position.

Figure 2 is a side elevational view thereof.

Figure 3 is a top plan view of the invention in an open position.

Figure 4 is a perspective view showing the invention in open position.

Figure 5 is a perspective view of the removable top die, and

Figure 6 is a perspective view of the finished product.

Referring now to the drawings in detail wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention the numeral 5 represents a base plate having an upwardly extending rectangular post 6 which is integrally cast to the base plate.

A pair of die or matrix plates 7 are secured at their lower ends 8 to the longer sides of the post by the hinges 9. The outer surfaces of the plates 7 are screwed and have a cross member 11 at the upper end 12 thereof which extends slightly beyond the side edges of the plates. The cross member is secured to the plates in any suitable manner. Also formed on the outer surface of the plates are a pair of lugs 13 whose outer edges 14 are in vertical alignment with the side edges of the plates.

On the inner surface of the plates 7 are formed die or matrix grooves 17 for forming the sides 17' of a cradle as shown in Figure 6. A pouring groove 15 is also formed on the inner surface of the plates 7 communicating with the grooves 17 and extending to the upper edge of the plates. 55

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A pair of relatively small lugs 18 extend inwardly from the upper end of the inner surface of the plates 7 and extending through the lower portion of the plates is an opening 19 aligned with an opening 19a extending horizontally through the post and in which a conventional wing bolt and nut 20 is inserted. The bolt 20 secures the plates 7 to the post in a raised position against the sides of the post.

A second pair of plates 21 are secured at their lower edges to the shorter side of the post by hinges 23. The outer surface of plates 21 are smooth and the inner surfaces thereof are likewise formed with die or matrix grooves 27 for forming the ends 26 of the cradle. The upper inner surface of plates 21 are likewise formed with pouring grooves 24 communicating with the grooves 27.

Notches 28 are formed in the side edges of the plates 21 for receiving a bolt and wing nut 29. The upper end 20 of plates 21 are formed with notches 31 which receive the end 32 of cross member 11 when plates 7 and 21 are in raised position, the plates 21 then resting against the side edges of the plates 7 and against the edges of lugs 13.

The upper edges of plates 7 and 21 project above the post 6 when in their raised position to receive a top plate 33 therein which rests on top of post 6 and is substantially equal in area therewith. The top plate 33 is formed on its inner surface with die or matrix grooves 36 for forming the bottom 35 of the crib.

The sides of top plate 33 are formed with recesses 37 for receiving the lugs 18 of the plates 7.

In the operation of the device the top plate 33 is first placed on top of the post 6 with the matrix grooves 36 resting on top of the post. The plates 7 are then raised so that the lugs 18 engage recesses 37 in the top plate and the bolt 20 is then inserted through the openings 19 and 19a to secure the plates in their raised position. Plates 21 are then raised and bolt 29 inserted in the notches 28 to secure the plates 21 against the post.

Molten metal or other material is then poured in the top of the device through the pouring grooves 15 and 24, the metal then flowing into the matrix grooves of the plates. After the metal has cooled the bolts 20 and 29 are removed and the plates 7 and 21 lowered and top plate 33 lifted from the post leaving the cradle or other finished product resting on top of the post and which then may be readily and easily removed therefrom.

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In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

I claim:

1. A mold comprising a post having flat smooth sides and a flat smooth top, a top matrix plate having bottom die grooves therein and removably fitting flat intermediate said grooves on the top of the post, and a pair of side matrix plates hinged to said sides of the post to swing upwardly against said sides of the post and against opposite sides of said top plate, said side matrix plates having die grooves therein and fitting flat intermediate said grooves against said sides of the post to close the die grooves in said side matrix plates, said side matrix plates and the top of the post closing the die grooves in the top matrix plate, and means to lock said side matrix plates in upswung position.

2. A mold comprising a post having flat smooth sides and a flat smooth top, a top matrix plate

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having bottom die grooves therein and removably fitting flat intermediate said grooves on the top of the post, and a pair of side matrix plates hinged to said sides of the post to swing upwardly against said sides of the post against opposite sides of said top matrix plate, said side and matrix plates having die grooves therein and fitting flat intermediate said grooves against said sides of the post to close the die grooves in said side matrix plates, said side matrix plates and the top of the post closing the die grooves in the top matrix plates, means to lock said side matrix plates in upswung position, and means for interlocking said top matrix plate with and between said side matrix plates to lock the top matrix plate on said post.

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REFERENCES CITED

20 The following references are of record in the file of this patent:

UNITED STATES PATENTS

	Number	Name	Date
25	665,865	Baker	Jan. 15, 1901
	1,468,904	Griffiths	Sept. 25, 1923
	1,534,409	Perrault	Apr. 21, 1925
	1,770,368	Fahlman	July 8, 1930
	1,801,893	Wisner	Apr. 21, 1931
30	2,266,978	Mader	Dec. 23, 1941