

No. 853,955.

PATENTED MAY 21, 1907.

J. B. BLAW.
CEILING MOLD.

APPLICATION FILED NOV. 12, 1906.

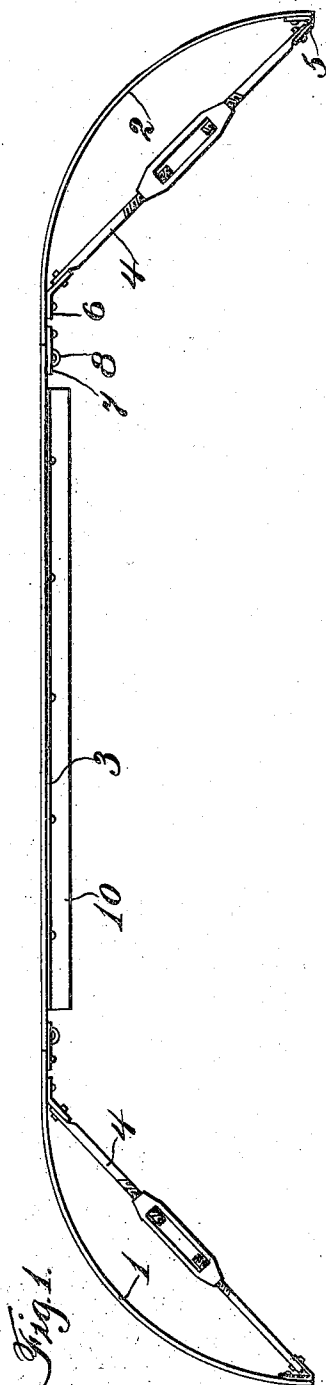


Fig. 1.

WITNESSES

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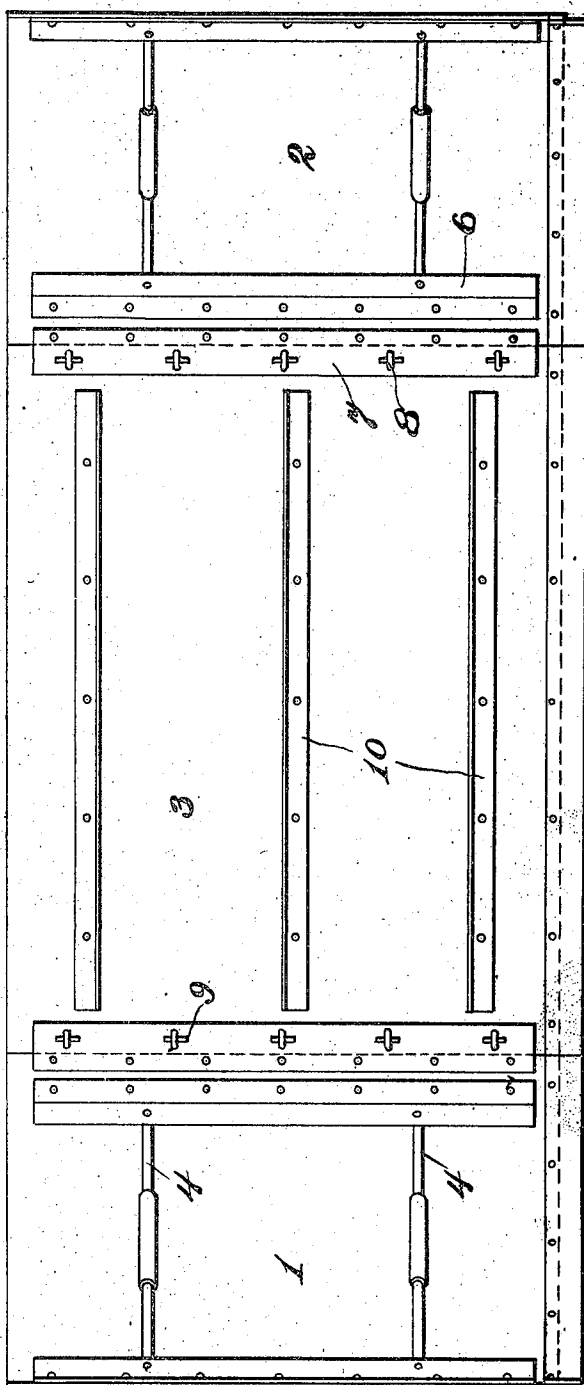


Fig. 2.

INVENTOR

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JACOB B. BLAW, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO BLAW COLLAPSIBLE STEEL CENTERING COMPANY, OF PITTSBURG, PENNSYLVANIA, A CORPORATION OF NEW JERSEY.

CEILING-MOLD.

No. 853,955.

Specification of Letters Patent.

Patented May 21, 1907.

Application filed November 12, 1906. Serial No. 343,008.

To all whom it may concern:

Be it known that I, JACOB B. BLAW, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Ceiling-Molds, of which the following is a specification.

My invention relates to molds for concrete ceilings; and has for its objects; to produce a mold which can be readily released from the concrete; to produce a mold which shall be when in position for molding, very stiff and unyielding; and finally to provide a mold of minimum weight and great simplicity which shall be of more durable construction and less expensive than the wooden molds now in use. One embodiment of my invention is illustrated in the accompanying drawing in which,

Figure 1 is an end view of a mold member, and

Figure 2 is a plan view of the under side of the mold member of Figure 1.

My mold is preferably constructed of thin sheet metal which can be easily handled and furthermore can be detached from concrete after it has set by a gradual or peeling action, and without hammering or jarring which has a tendency to crack the concrete. Heretofore wooden molds have been used for the concrete, but such molds fail to produce a smooth surface, are detached with difficulty, are cumbersome and expensive, and can be used only a few times. My mold on the other hand, produces a smooth surface, can be detached easily, is cheap and practically indestructible.

Referring to the drawing, the mold illustrated is composed of three members, two of which are the corner members 1 and 2, and the third is the central member 3 connecting such corner members 1 and 2. The corner members are shown of thin sheet metal shaped to the desired curve and provided with means for loosening from the concrete after it has set, which means consist in the turnbuckles 4, which turnbuckles 4 engage the edges of the members 1 and 2 respectively by means of the angle irons 5 and 6 to which the turnbuckles are detachably secured by means of the bolts shown. The members 1 and 2 are secured to either end of the member 3 by means of the straps 7 which straps are riveted

to the members 1 and 2 and are provided at their other ends with slots for receiving the loops 8, which loops are secured to the member 3. The loops are held in position by means of wedges 9 passing therethrough as indicated in Figure 2. The central member 3 is preferably composed of thin sheet metal corresponding to that of sections 1 and 2 but because of its flat shape is reinforced by longitudinal stiffening sections 10 which in the present case are angle irons riveted to the under side of the sheet. This construction of the plate 3 gives a maximum amount of rigidity for the weight of metal used.

In operation, the mold sections 1, 2, 3, are secured together and placed in the position shown in Figure 1 being supported from beneath by means of the side walls or any form of temporary side posts or pillars available and the concrete is spread over the top of the mold member to the desired thickness and allowed to set. After the material has set the corner pieces are first loosened by contracting the turn buckles 4 thereby loosening the edges of the corner pieces and gradually peeling the metal away from the concrete. After the members 1 and 2 have been loosened and removed the member 3 can be easily loosened from the ceiling, and the whole apparatus removed to a new position. The member can be made of any desired length convenient for handling and if found necessary in the case of a wide arch the member 3 could be made in a number of detachable sections.

Having thus described my invention and illustrated its use, what I claim as new and desire to secure by Letters Patent, is the following:

1. In combination, a mold composed of flexible material comprising a pair of curved corner sections provided with collapsing means extending between the ends of each section, and a central section adapted to be removably secured to the corner sections and provided with stiffening sections.

2. In combination, a mold composed of flexible material comprising a pair of curved corner sections provided with turnbuckles extending between the ends of each section, and a central section adapted to be removably secured to the corner sections and provided with stiffening sections.

3. In combination, a mold composed of
flexible material and comprising curved cor-
ner portions and a substantially flat central
portion interposed between the corner por-
5 tions and provided with stiffening sections,
and stiffening and collapsing braces extend-
ing across the curves of the corner portions.

In testimony whereof, I hereunto sign my
name in the presence of the two subscribed
witnesses.

JACOB B. BLAW.

Witness:

J. C. BRADLEY,
ARCHWORTH MARTIN.