Nov. 29, 1949 J. W. ALEXANDER 2,489,607

CONCRETE STEP MOLD

Filed Oct. 10, 1946 2 Sheets-Sheet 1

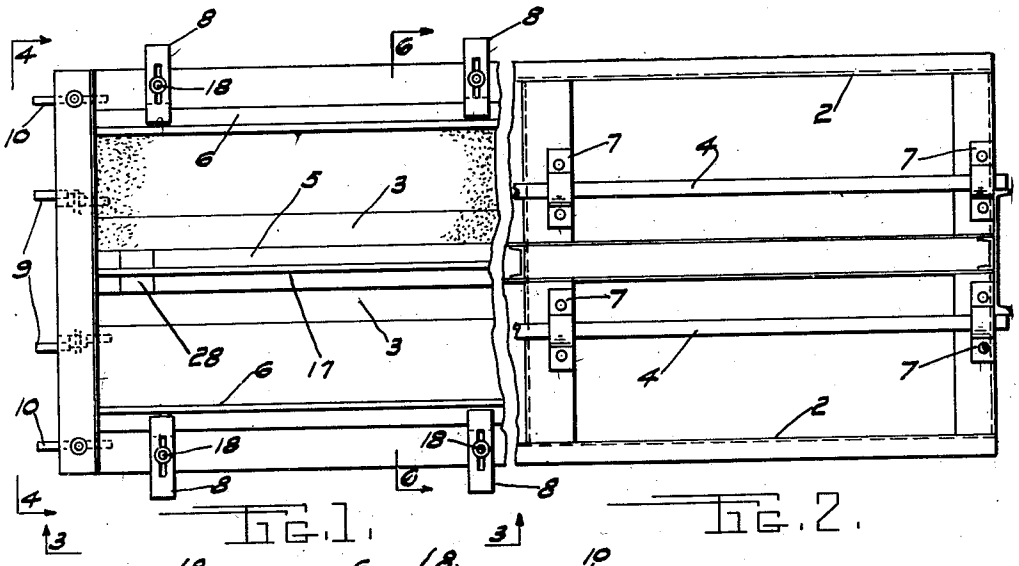


FIG. 1.

FIG. 2.

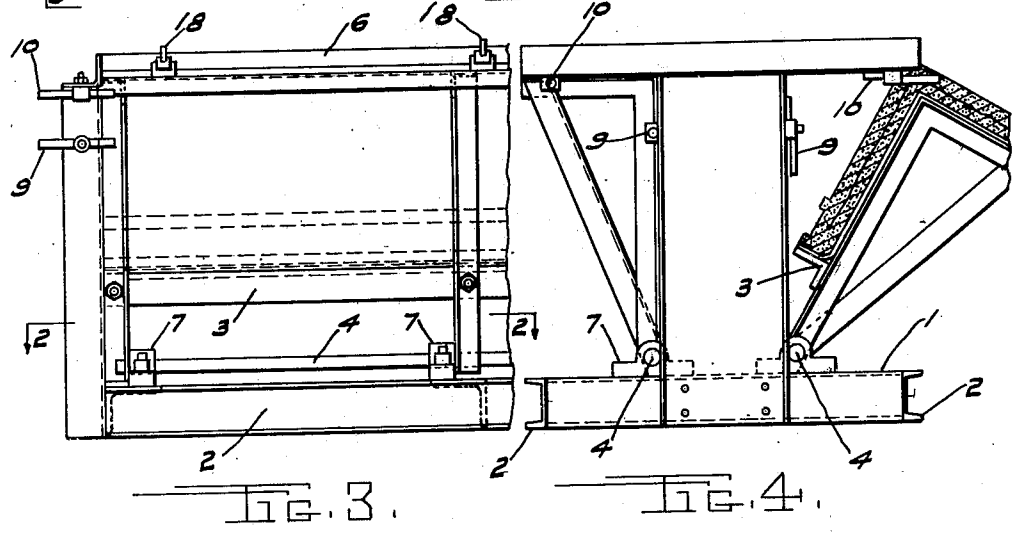


FIG. 3.

FIG. 4.

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Filed Oct. 10, 1946 2 Sheets-Sheet 2

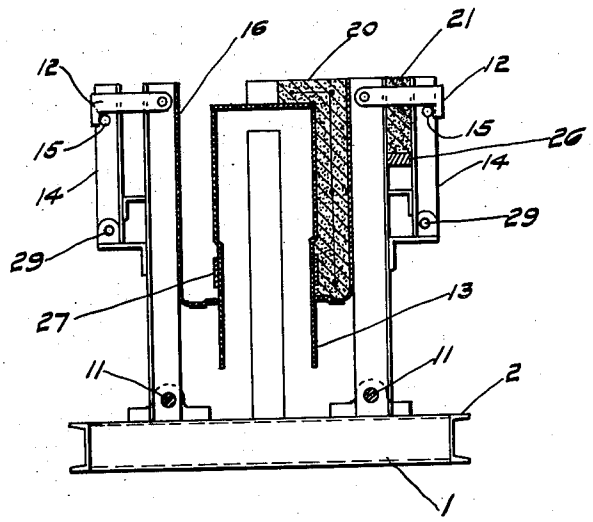


FIG. 5.

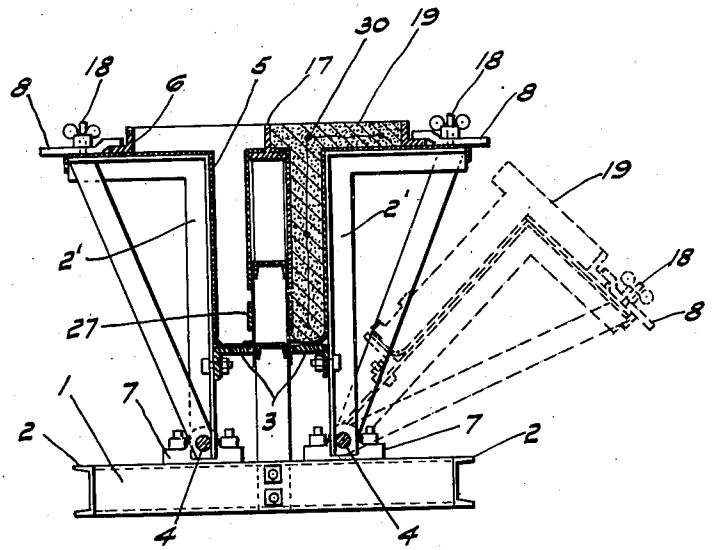


FIG. 6.

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CONCRETE STEP MOLD

Jesse W. Alexander, Birmingham, Ala.

Application October 10, 1946, Serial No. 702,486

1 Claim. (Cl. 25—118)

1

This invention relates to a concrete step mold assembly. It has for its main objects to provide such a mold that will be highly efficient for its purpose, comparatively cheap to manufacture, simple in structure, and easy to operate. Other advantages will appear from the drawings and description.

By referring to the drawings, part of this application, it will be observed that Fig. 1 is a top plan view of approximately half of a member of the mold assembly; Fig. 2 is a plan sectional view on line 2—2 of Fig. 3; Fig. 3 is a side elevational view on line 3—3 of Fig. 1; Fig. 4 is an end elevational view on line 4—4 of Fig. 1; Fig. 5 is a cross sectional view of the mold set up for a top tread and starter riser; Fig. 6 is a cross sectional view on line 6—6 of Fig. 1.

Similar reference numerals refer to similar parts throughout the several views.

Referring to the drawings in detail it will be seen that the mold assembly comprises the mold portion for making the tread and riser integral parts of the assembled step. It is supported on a base 1, 2 with the L-shaped members 2' having angle stops 3 attached. The members 2' are swingable on shafts 4 carried in suitable bearings 7. The members 2' are provided with metal liners 5, and angles 6 as edge formers. The metal angle pieces 6 are held in place by clamp arms 8 and bolts and wing nuts 18. Fig. 6 shows the mold with concrete in one section for making a tread and riser integral, with the other section of the mold empty. When both sections of the mold are used a separator 17 is set between the concrete, or blocks 28 may be used for notches and the like. The treads and risers are reenforced with metal binders 30. The mold is held in position for use by locking means 9 and 10. After the tread and riser become set the mold is swung open as shown by the broken lines in Fig. 6 and the finished product is removed. The portion of the mold assembly for making the top treads and separate risers has a similar base 1, 2 with a fixed center member covered with metal plate 13. The swingable parts are mounted on shafts 11 and 29. In Fig. 5 the concrete 20 for the top tread, and concrete 21 for the starter riser are shown, with the other section of the mold empty. The swingable members 14 are held in place for use by latches 12 and pins 15. The main swingable members are provided with face plates 16 and notch forming bars or plates 27.

2

To make a narrow starter riser a block 26 of the desired thickness is placed in the mold to thus eliminate some of the concrete.

From the foregoing it will appear that in order to use mold assembly the parts are set in proper position and fastened, then the concrete mixture is poured into the forms and allowed to become set before removing.

The mold may be made of any material suitable for the purpose, but I have found wood in combination with metal plates and attachments to be satisfactory.

While I have shown and described the preferred embodiment of my invention, I do not wish to limit same to the exact and precise details of structure, but reserve the right to make all modifications and changes so long as they remain within the spirit and scope of the following claim.

Having described my invention I claim:

A concrete step mold assembly of the class described comprising; two swingable inverted L-shaped members mounted opposite each other on a supporting base, a center member in fixed position and mounted on the base between the L-shaped members, said L-shaped members adapted to be held by bolt and clamp means evenly spaced from the center fixed member, enclosing walls positioned at the ends of the spaces formed between the swingable members and the fixed member, metal plates attached to the faces of the swingable and fixed members individually, the spaces between the swingable and fixed members disposed to hold a mixture of concrete and form same into integral treads and risers of stairway steps.

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