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B. BAUER

1,628,385

CASING OR MOLD BOX FOR CONCRETE BEAMS OR TIES

Filed Aug. 21, 1925

Fig. 1

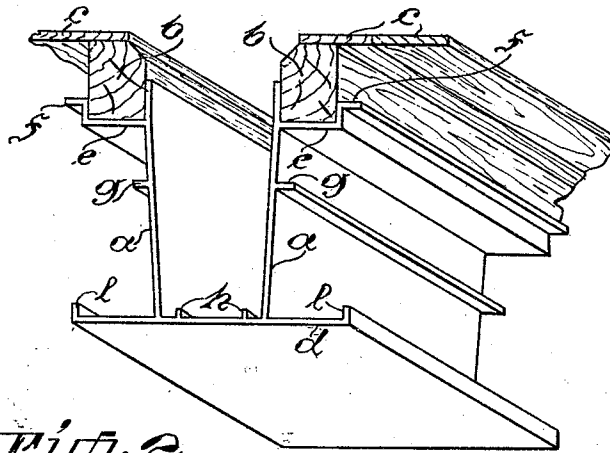


Fig. 2

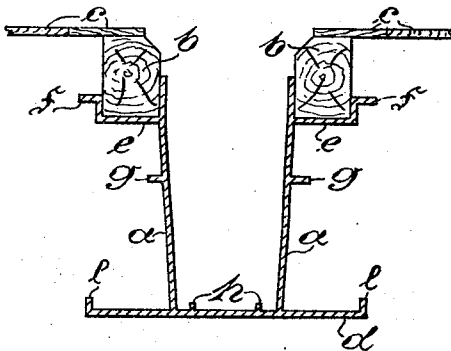


Fig. 3

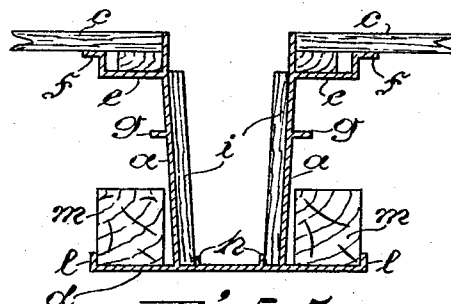
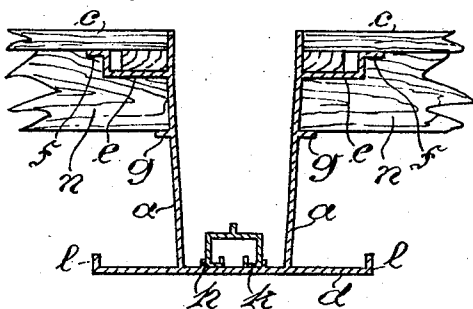
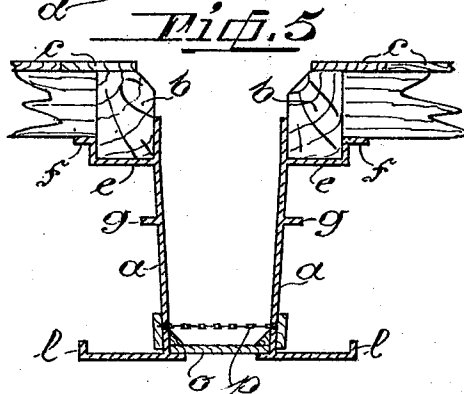


Fig. 4



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CASING OR MOLD BOX FOR CONCRETE BEAMS OR TIES.

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This invention relates to improvements in casings or mold boxes for concrete beams or ties, which are adapted for the production of beams or ties of various heights and widths with or without the insertion of hollow rails or bars.

Several modes of carrying out the present invention are illustrated by way of example on the accompanying sheets of drawings in which:—

Figs. 1 and 2 show a perspective view and cross-sectional view respectively of one construction of the casing or mold box according to the present invention.

Fig. 3 is a cross-sectional view of a modified construction of the casing, whereby the cross-section of the beam or tie is reduced by laterally inserted wooden boards.

Fig. 4 illustrates in cross-section a casing with an inserted hollow rail or bar.

Fig. 5 shows another modified construction of a casing according to the present invention, which is divided or formed of a number of separate parts, in order to vary the width of the concrete beam or tie by inserting suitable floor-boards.

According to the present invention the casing or mold box essentially consists of a profile-member, which can be rolled in one piece or in separate pieces or which may be formed of individual sheet-metals by riveting, welding and so forth.

This profile-member is provided with lateral angular extensions, which serve as a support for the mold box or casing boards, forming the top-construction, in accordance with the desired height of the beam or tie or in accordance with the direction in which it is desired to arrange the individual casing or mold-boards.

In the construction shown in Figs. 1 to 4, the casing or mold box is formed of an essentially U-shaped rolled profile-member *a*, which is furnished with an enlarged base *d* in order to increase the stability. Near the top end are provided angular extensions *e*, in which can be arranged removable lateral mold-boards *b* according to the desired height of the beam or tie. Subsequently the common mold-boards *c* are placed onto the said mold-boards *b*. The extensions *e* are provided with an outwardly turned rim *f*, in order to produce a bearing or support for the mold-boards, in case it is desired to form a concrete beam or tie of a height, which

corresponds to the distance between the base *d* and the said rim *f*, or in case it is desired to arrange transverse boards.

Extensions *g* serve as support or bearing for mold-boards, which may be disposed transversely with respect to the transverse direction.

The base of the casing or mold box shown in Figs. 1 to 4 is provided with inwardly projecting extensions *h*, which serve as support for laterally inserted wooden boards or linings *i*, in case it is desired to reduce the width of the beam or tie, and also may serve as the guide of an inserted hollow iron-rail *k*, for example such as is frequently used for securing the belt-gearing and the like in industrial plants.

The enlarged base *d* is furnished with an upwardly extending rim *l*, in order to provide a safe bearing for beams *m*, upon which additional mold boards may be placed and firmly supported.

The casing or mold illustrated in Fig. 5 consists of two rolled profile-members *a a* and the base is formed by a mold-board *o* or the like of a width corresponding to the desired width of the beam or tie. The two lateral mold-walls are held together by a wire or chain *p* or the like, which serves as support or bearing of the reinforcing bars.

The casing or mold according to this construction may be formed of a number of parts, which consist of iron or wood and are united in such a manner, that a beam or tie of any desired dimensions can be built in concrete.

I claim:—

1. A casing or mold box for producing concrete beams or ties comprising in combination a U-shaped member with an enlarged base, and channel-shaped lateral extensions provided with an outwardly turned rim arranged on the said member near the top end of the latter.

2. Casing or mold box for producing concrete beams or ties comprising in combination a U-shaped member, lateral extensions on the latter, and inwardly projecting extensions arranged on the base of the said member.

3. A U-shaped mold box having at its top and bottom open channel shaped lateral extensions for the reception of beams designed to support mold boards.

4. In a U-shaped mold box, the combination with the elements claimed in claim 3, of an outwardly turned rim on each of the upper lateral extensions.
5. A mold box comprising independent side walls each having at its top and bottom open channel shaped lateral extensions for the reception of beams designed to support mold boards, a base board supported between the inner faces of the side walls, and means for holding the side walls together.

In testimony whereof I affix my signature.

DR. BRUNO BAUER.