Oct. 28, 1947. A. O. NEUMAN 2,429,892

REINFORCED CONCRETE STAVE MOLD

Filed Aug. 14, 1944

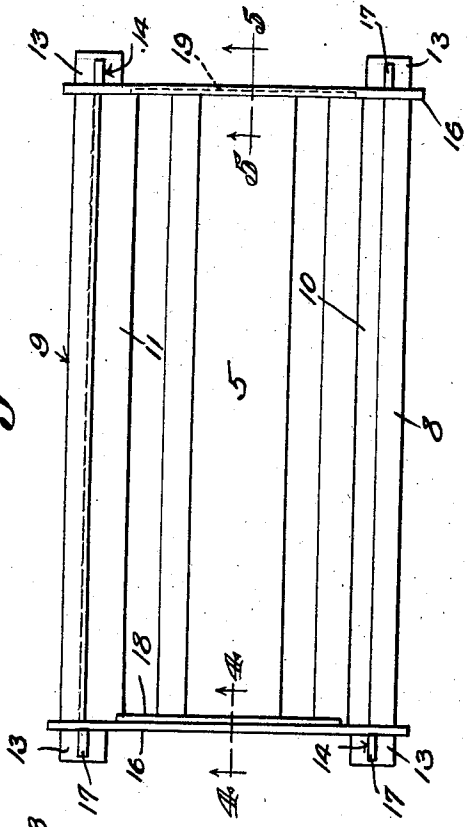


Fig. 1.

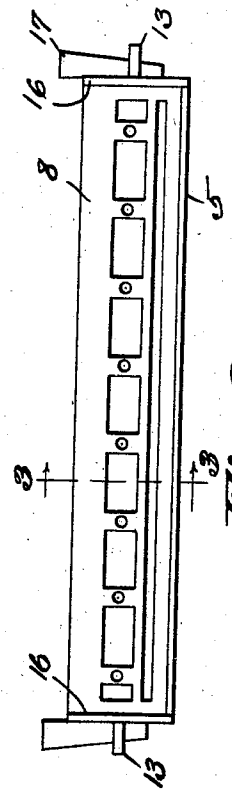


Fig. 2.

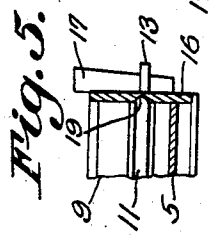


Fig. 5.

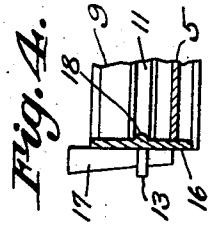


Fig. 4.

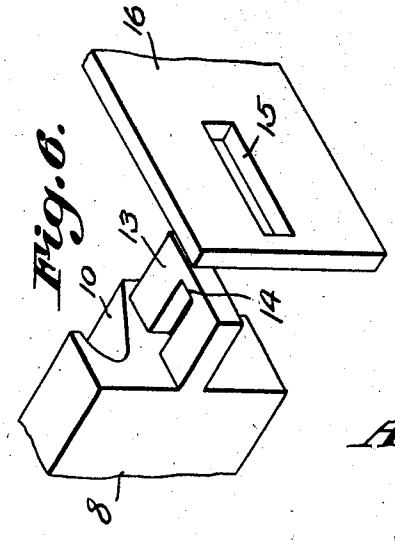


Fig. 6.

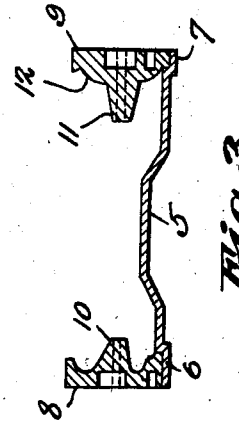


Fig. 3.

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UNITED STATES PATENT OFFICE

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REINFORCED CONCRETE STAVE MOLD

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Application August 14, 1944, Serial No. 549,349

1 Claim. (Cl. 25—121)

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This invention relates to a mold construction, designed primarily for moulding concrete building stave units.

An important object of the invention is to provide a mold of this character which may be readily and easily stripped from the moulded stave.

Another object of the invention is to provide a mold including side members having openings for the reception of reinforcing rods which become imbedded in the plastic material during the moulding operation.

Still another object of the invention is to provide a universal stave which may be employed in the construction of silos or tanks of various diameters.

Referring to the drawing in detail;

Figure 1 is a plan view of a mold constructed in accordance with the invention.

Figure 2 is a side elevational view thereof.

Figure 3 is a sectional view taken on line 3—3, of Figure 2.

Figure 4 is a sectional view taken on line 4—4 of Figure 1.

Figure 5 is a sectional view taken on line 5—5 of Figure 1.

Figure 6 is a segmental perspective view illustrating the manner of connecting the side bars with the end plates of the mold.

Referring to the drawing in detail, the mold, which is substantially rectangular in formation, embodies a pallet 5, which is formed with offset portions 6 and 7, extending throughout the entire length of the mold, the offset portions being disposed at the edges of the pallet.

The reference character 8 designates the side bar at one side of the mold, and the reference character 9 indicates the side bar at the opposite side of the mold. The side bar 8 is formed with an inwardly extended rib 10 disposed intermediate the upper and lower edges thereof, the rib 10 extending inwardly an appreciable distance beyond the normal inner edges of the side bar 8, as clearly shown by Figure 3 of the drawing. As shown, the surfaces of the rib 10 are inclined, and curved at the bottoms, so that the stave formed by the mold will be provided with a groove along one of its side edges, the outer ends of the groove being curved.

The side bar 9 is somewhat different in construction, and includes a central longitudinal rib

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11, the upper and lower surfaces thereof being also inclined. The portions of the side bar 9 between the edges thereof and the inner end of the rib 11 are curved outwardly as at 12, or in a direction opposite to the curvature of the bottoms of the inclined surfaces of the rib 10. Due to this construction, the edge of the stave with which the side bar 9 contacts will be formed with a curved groove or socket extending throughout the length of the side bar 9.

Formed at the ends of each side bar is an ear 13, which is formed with an elongated opening 14, the ears of the side bars being shaped to fit within the elongated openings 15 of the end plate 16 of the mold. These end plates 16 close the ends of the mold and rest squarely against the ends of the pallet.

When assembling the mold, the ears 13, after they have been extended through the openings 15, are secured in position by means of keys 17, which are beveled, so that when they are driven into the openings 14 a binding action will be set up between the key, side bars and end plates and the elements of the mold will be securely held together, but may be readily removed or stripped from the stave molded thereby.

The openings are formed in the side bars 8 and 9, and are disposed in spaced relation with respect to each other for the reception of reinforcing rods which have become imbedded in the material poured into the mold.

After the material poured into the mold has set for a predetermined period of time, the keys 17 are driven from the openings 14. The end bars may now be removed, and the stave moulded may be lifted with its pallet to a place where the moulded stave may be set until it may be removed and placed on a curing stand.

It might be further stated that one of the end plates 16 is formed with a transversely disposed rib 18, while the opposite end plate is formed with a correspondingly shaped groove 19, to the end that the moulded stave will have a groove in one end and a rib at its opposite end.

What is claimed:

In a mold, a pallet constructed of sheet metal material, said pallet having offset portions formed along the longitudinal side edges thereof, providing shoulders, side bars of widths equal to the widths of the offset portions, adapted to

rest within the offset portions of the pallet, wide extensions having openings, formed at the ends of the side bars the wide face of the extensions being horizontally disposed, wide end plates having openings elongated longitudinally of the end plates, adapted to receive said extensions, and tapered rectangular keys adapted to be driven into the openings of the extensions, the keys contacting with the end plates and adapted to draw the side bars into close engagement with the longitudinal shoulders of the pallet.

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

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