Aug. 7, 1928. 1,679,891

P. M. BEES

BATHTUB SHIPPING CRATE AND COVER

Original Filed May 24, 1926 2 Sheets-Sheet 1

FIG. 1

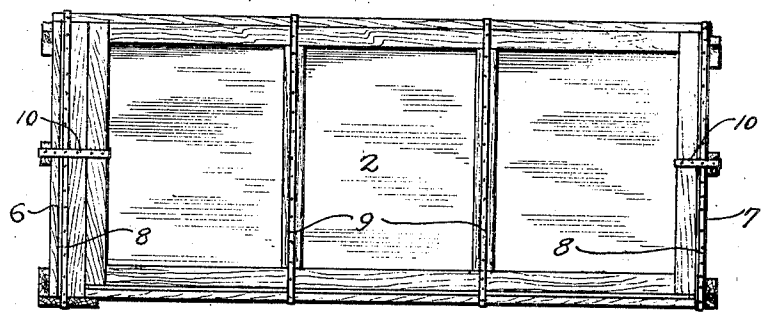


FIG. 2

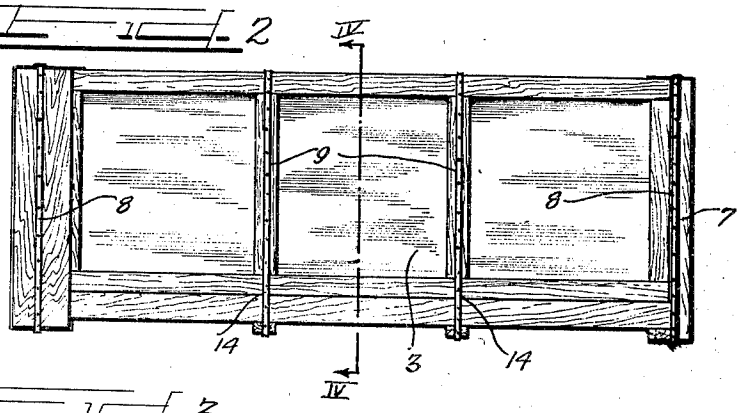
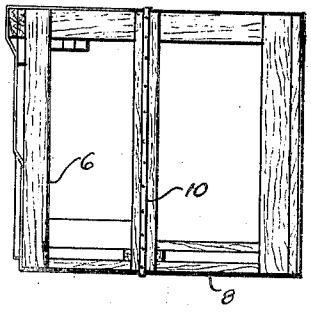


FIG. 3



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FIG 4

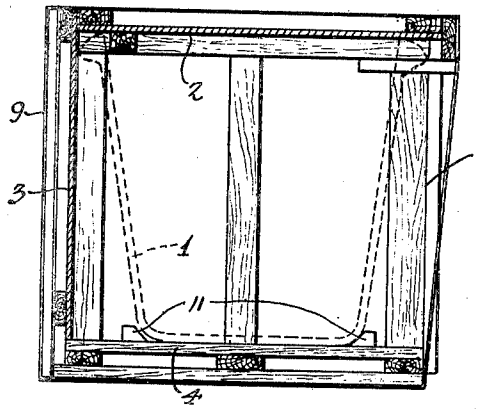


FIG 7

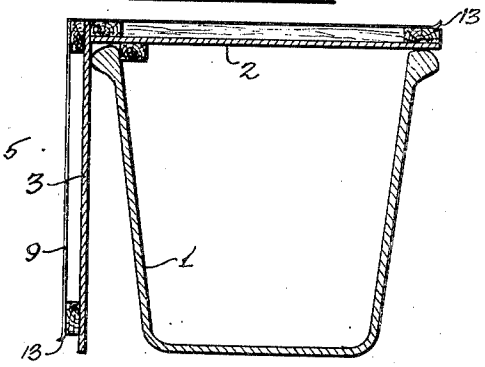


FIG 6

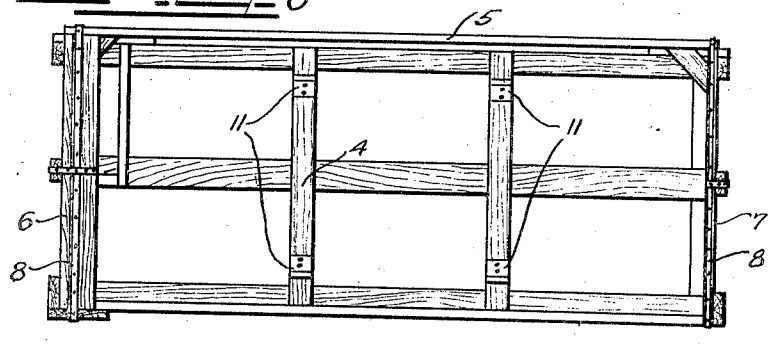
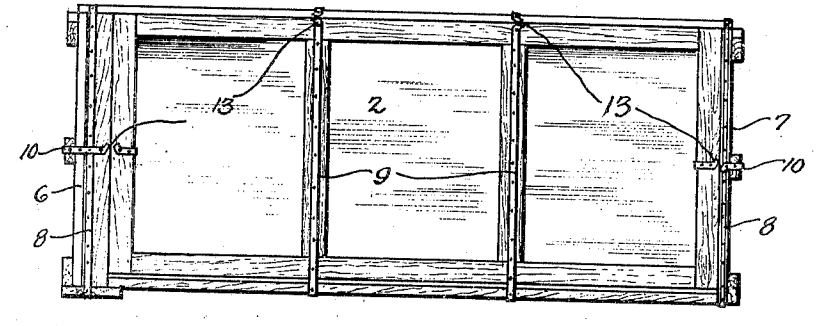


FIG 5



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Patented Aug. 7, 1928. 1,679,891

UNITED STATES PATENT OFFICE.

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BATHTUB SHIPPING CRATE AND COVER.

Application filed May 24, 1926, Serial No. 111,230. Renewed January 12, 1928.

Considerable difficulties are encountered in shipping enameled bath-tubs and the like due to the fact that the same are roughly handled, very often resulting in damage to the enameled surfaces of the bath-tubs. Difficulty is also encountered after bath-tubs have been delivered and are mounted in place before a building has been completed. In such instances plaster, paint and other dirt is often deposited on the enameled surface of the tub making it extremely difficult to clean the tub after the building has been completed.

To obviate the above mentioned conditions this invention has been devised to provide an improved bath-tub shipping crate in combination with a protecting cover to facilitate shipment of enameled bath-tubs, and furthermore afford a means for protecting the top and front side of built in bath-tubs during the installation period, and during the time plastering and painting is being done in the building.

It is an object of this invention to provide an improved bath-tub shipping crate and cover so constructed that the major portion of the crate may be removed after delivery of the tub, leaving the minor portion of the crate to serve as a cover to protect the interior enameled surface and the exposed outer enameled surfaces of the bath-tubs during the period in which the plaster work and painting is being done.

It is also an object of this invention to provide a combination shipping crate and protective covering for bath-tubs and the like, said crate having metal retaining bands forming a part thereof which may be severed at selected points to permit a portion of the crate to be removed, but leaving a protecting cover for the bath-tub to protect the tub during the time that the building is being completed.

It is an important object of this invention to provide an improved bath-tub shipping crate so constructed that a portion of the same may be readily removed to leave a protective covering for the tub to obviate damage to the enameled surfaces during the time that the building is being completed.

Other and further important objects of this invention will be apparent from the disclosures in the specification and the accompanying drawings.

This invention (in a preferred form) is illustrated in the drawings and hereinafter more fully described.

On the drawings:

Figure 1 is a top plan view of a bath-tub shipping crate and cover embodying the principles of this invention.

Figure 2 is a side elevation of the same.

Figure 3 is an end elevation of the shipping crate.

Figure 4 is an enlarged transverse section taken on line IV—IV of Figure 2.

Figure 5 is a top plan view of the shipping crate showing certain of the retaining bands cut to permit the major portion of the crate to be removed from the bath-tub.

Figure 6 is a top plan view of the major portion of the shipping crate after the same has been removed from the bath-tub.

Figure 7 is a transverse section of the bath-tub showing the minor or cover portion of the crate remaining in position to protect the top and side of the bath-tub.

As shown on the drawings:

The reference numeral 1 indicates an enameled bath-tub which is adapted to be shipped in and protected by an improved shipping crate embodying the principles of this invention. The improved shipping crate comprises a top wall or cover 2, a front wall or apron 3, a bottom wall 4 and a rear wall 5. The ends of the crate are closed by end walls 6 and 7. The rear wall, the bottom and the two end walls are of open construction formed by wooden cross pieces, as illustrated on the drawings. The top or cover 2 and the front wall or apron 3 are of solid material.

To retain the walls and end pieces secured to one another to form the completed crate a plurality of metal bands or hoop members 8 and 9 are engaged transversely around the crate and nailed or otherwise secured in position to completely enclose the tub 1. End retaining straps 10 are engaged around the middle portions of the end walls, and have the ends thereof secured to the top and bottom walls. Secured on the transverse members of the bottom 4 are stop blocks 11 between which the base of the tub 1 is adapted to fit during the time the tub is enclosed by the crate.

With the bath-tub 1 completely enclosed by the crate, as illustrated in Figures 1 and 2, the bath-tub is adapted to be shipped without much danger of having the enameled

interior surface or the exposed enameled surfaces damaged. When a crated bath-tub is received, and delivered into a bath room or other place where it is to be installed, a person assigned to unpack the bath-tub cuts the metal retaining straps 9 and 10 at the points 13, illustrated in Figure 5, and at the points 14 on the front side of the crate. This cutting of the retaining straps divides the crate into two sections, i. e., the major section illustrated in Figure 6, and the minor section which is clearly shown on the bath-tub in Figure 7. After the metal straps have been severed at the points 13 and 14 and hereinbefore described, the major portion of the crate illustrated in Figure 6 is removed from the bath-tub thus leaving the bath-tub with the back, bottom and two ends exposed. The protecting cover comprising the top wall 2 and the front wall or apron 3 may be temporarily removed from the bath-tub during the time the bath-tub is built in or installed in position. In the case of a built in tub where only the top and front face of the bath-tub remains exposed, the minor portion of the crate is put back in position thereby covering the top of the bath-tub by the cover section 2, and also protecting the exposed front surfaces of the bath-tub by the front wall or apron 3, as shown in Figure 7. The protecting covering for the bath-tub just described is left in position on the installed bath-tub during the time that the plaster work, enameling and painting is being done in the bath room to complete the same. It will thus be seen that the minor portion of the crate serves as a protective covering for the enameled surfaces of the bath-tub during the time that the building is being completed. The enameled surfaces of the bath-tub are thus kept clean and free from splatterings of plaster, enamel, paint and the like. After the bath room has been completed the protecting cover may be readily removed from the built in bath-tub, which is free from dirt and may be ready for service merely requiring an ordinary washing out.

The various walls of the crate may be formed of wooden strips secured together by suitable means, and the walls retained in an associated relation by the metal bands or strips. Attention is directed to the fact that the top wall or cover 2, and the front wall or apron 3 are preferably constructed of a composition board which is light in weight and very strong and durable.

In bath-tubs having one or both ends enameled as well as the interior and front wall, end composition boards are used in the crate in addition to the top cover 2 and the front apron 3. It will of course be understood that in each case there will be a protecting covering made of composition board for each of the enameled surfaces of the bath-tub which is to be shipped, and that upon installation only such walls of the crate will be removed which do not cover an enameled surface.

I am aware that many changes may be made, and numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted hereon, otherwise than necessitated by the prior art.

I claim as my invention:

1. A bath-tub shipping and protecting device comprising a cover, an apron secured thereto to form a bath-tub protecting unit, a rear wall, a bottom wall and end walls secured to one another to form a second unit adapted to interfit with the first unit, and metal straps connecting the two units to completely enclose the bath-tub for shipment, said metal straps adapted to be cut at predetermined points to permit the second unit to be removed from the bath-tub leaving the first unit as a protective covering for the top and front faces of the bath-tub.

2. A shipping crate comprising a primary section embracing a pair of connected solid walls, a secondary section comprising a pair of connected apertured walls and a pair of apertured end walls, and means connecting said primary section with said secondary section to form a shipping crate, said means adapted to be cut at predetermined places to permit the secondary section to be removed from association with the primary section to uncrate an article leaving the primary section on the article to protect the same.

In testimony whereof I have hereunto subscribed my name.

PAUL M. BEES.