

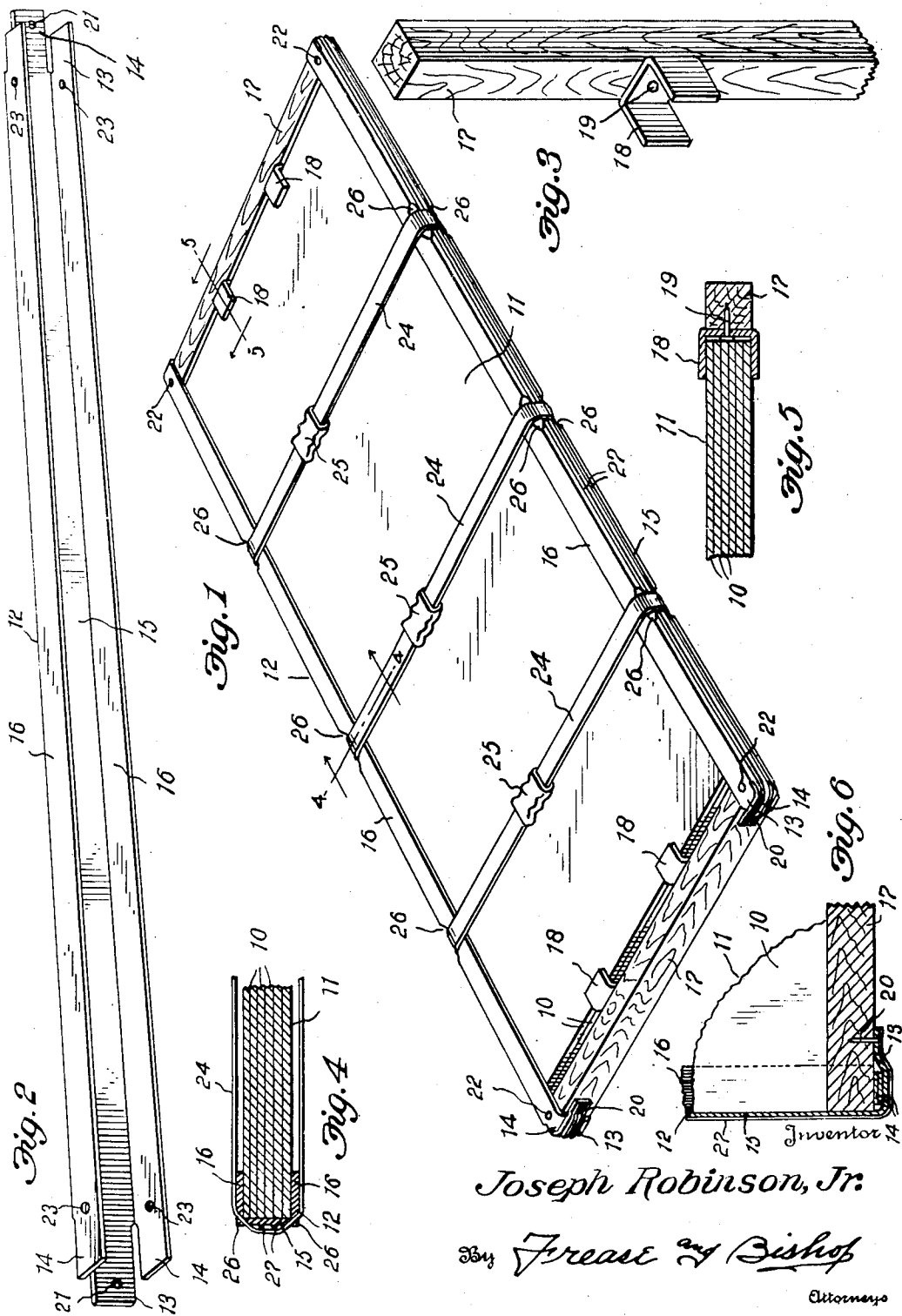
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J. ROBINSON, JR

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CRATED SHEET MATERIAL PACKAGE

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CRATED SHEET MATERIAL PACKAGE

Joseph Robinson, Jr., Dover, Ohio, assignor to
Marsh Wall Products, Inc., Dover, Ohio, a corporation of Ohio

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The invention relates to shipping packages for sheet material and more especially to a crate for packaging wall boards and similar sheets which, being relatively thin must have their edges protected against abrasion or impact and, being usually somewhat flexible should be prevented from bending or breaking in handling and transporting.

Wall board, such as the crate is especially designed for, is in the form of a sheet of pressed fibre board usually about one-eighth inch thick, forty-eight inches wide and cut in lengths up to ten feet or more depending upon its use, one surface of the board having baked enamel or similar finish in imitation of tile, wood, marble or other finish.

It is not always possible in shipping these boards to secure sufficient space in cars, trucks or the like to lay the boards flat, one on top of another, on the floor of the car or truck, and to be assured that the boards are delivered in perfect condition it is necessary that they be crated so that they may be set on edge to save space in the car or truck and so that the edges and surfaces of the boards are protected and the boards are prevented from bending or breaking in handling or transporting.

Various forms of packages or holders have been devised for such wall boards but they were not entirely successful either because they did not properly protect all edges of the boards or because the material making up the crate was too expensive, or the completed package occupied too much space in the car or truck in which they were transported.

It is therefore an object of the present invention to provide a simple and inexpensive crate for handling and transporting wall boards and the like which will give complete protection to the boards and which will occupy a minimum of space.

Another object is the provision of a crate comprising metal channel shape side members and wood end members attached at their ends to the adjacent ends of the channel side members, the wood end members having channel shape clips attached thereto for embracing the ends of the pile or bundle of wall boards.

Still another object is to provide a crate of this character in which the metal channel shape side members have ears at their ends which are bent over the ends of the wood end members and attached thereto as by nails.

A further object is the provision of a crate of the character referred to in which the metal

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channel shape side members have portions of their outer corners cut away at spaced intervals to accommodate metal bands or straps and protect the same against abrasion.

The above objects, together with others which will be apparent from the drawing and following description or which may be later referred to, may be attained by constructing the improved crate in the manner illustrated in the accompanying drawing, in which;

Figure 1 is a perspective view of the improved crate showing a package of wall boards contained therein;

Fig. 2 an enlarged, detached, perspective view of one of the sheet metal, channel shape side members;

Fig. 3 a detached, fragmentary, perspective view of a portion of one of the wood end members, showing one of the channel shape clips attached thereto;

Fig. 4 an enlarged, fragmentary, transverse section through one side of the crate, taken as on the line 4-4, Fig. 1;

Fig. 5 an enlarged, fragmentary, longitudinal, sectional view through one end portion of the crate, taken as on the line 5-5, Fig. 1, and

Fig. 6 a detached, fragmentary, sectional view of one corner portion of the crate.

Wall boards are usually packed for handling and transportation in bundles made up of a number of boards or sheets 10 laid one upon another with their edges in common planes, as shown in the drawing, forming a pile or package indicated generally by the numeral 11.

Over each side edge of the pile of sheets is placed a metal, channel shape side member 12 having ears or tongues 13 and 14 formed as extensions of the base 15 and flanges 16 of the channel member.

The wood end members 17 are located against the end edges of the pile of boards, or sheets, and the channel shape clips 18, which are attached to the inner faces of the end members as by nails 19, are engaged over the end edges of the pile of sheets.

The ears, or tongues 14, upon the ends of the flanges 16 of the channel side members, are bent over at right angles so as to lie over the end portions of the wood end members 17, and the ears, or tongues 13, upon the base portion 15 of the channel members, are folded over the ears 14 and against the outer sides of the end members 17 to which they are attached as by nails 20, which may be driven through apertures 21 formed in the ears 13 for such purpose.

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The channel members 12 are also further connected to the wood end members 17 by nails 22, which may be driven through apertures 23 formed in the end portions of the channel flanges 16 for the purpose. Thus a rigid crate is provided in which the side and end members are securely attached together at all four corners of the crate.

With such a crate, wall boards or sheets, especially of shorter lengths are securely packaged and entirely protected from damage to their edges or from bending or breaking. However, if desired, conventional metal bands or straps 24 may be located transversely around the package, especially where long sheets or boards are packaged, these metal bands or straps having their ends connected by the usual seals 25, or other conventional fastening means.

For the purpose of protecting these metal bands or straps 24 at the points where they are located around the corners of the channel side members 12, the outer corner portions of these channel members may be recessed as shown at 26.

This protects the metal straps or bands against abrasion at these points, when the crate is tilted up upon one side edge and dragged upon a cement floor, pavement, or the like, as it is customary in so doing to tilt the crate slightly so that the corner portion of the lower edge thereof contacts the floor or pavement.

In cases where it may be considered necessary to reinforce or strengthen the metal channel shape side member 12, beads or corrugations 27 may be formed upon the outer surface of the base portion 15 of each channel member, as shown in the drawing.

From the above it will be obvious that a simple, inexpensive and easily constructed crate is provided which completely protects the side and end edges of the wall boards or sheets and prevents their being bent or broken in handling or transporting.

I claim:

1. A package of substantially flat sheets of wall boards of similar size and shape, comprising a plurality of such sheets placed in face-to-face relation with corresponding edges in substantial alignment to form a stack, and means for securing said sheets in such aligned relation to form such package, said means comprising metal channel shape side members embracing the side edges of the stack of sheets, ears upon the ends of the base and flanges of the channel shape side members, wood end members located against the ends of the stack, the ends of the wood end members

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being received within the end portions of the channel side members, nails attaching the side and end members together at their adjacent ends, the ears on the flanges of the channel side members being folded over the end portions of the end members, the ears upon the bases of the channel side members being longer than the width of the ears on the flanges and being folded over and beyond the ears on the flanges, and nails attaching the ears on the base portions to the wood end members beyond said ears on the flanges.

2. A package of substantially flat sheets of wall boards of similar size and shape, comprising a plurality of such sheets placed in face-to-face relation with corresponding edges in substantial alignment to form a stack, and means for securing said sheets in such aligned relation to form such package, said means comprising metal channel shape side members embracing the side edges of the stack of sheets, ears upon the ends of the base and flanges of the channel shape side members, wood end members located against the ends of the stack, channel clips attached to the inner sides of the end members and embracing the ends of the stack, the ends of the wood end members being received within the end portions of the channel side members, nails attaching the side and end members together at their adjacent ends, the ears on the flanges of the channel side members being folded over the end portions of the end members, the ears upon the bases of the channel side members being longer than the width of the ears on the flanges and being folded over and beyond the ears on the flanges, and nails attaching the ears on the base portions to the wood end members beyond said ears on the flanges, the outer corners of the channel side members having spaced recesses therein, and metal bands located transversely around the package and received in said recesses.

JOSEPH ROBINSON, Jr.

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