June 12, 1956 C. A. HUFFMAN 2,749,873

JIG FOR USE IN CONSTRUCTING BUILDING UNITS

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Fig. 1

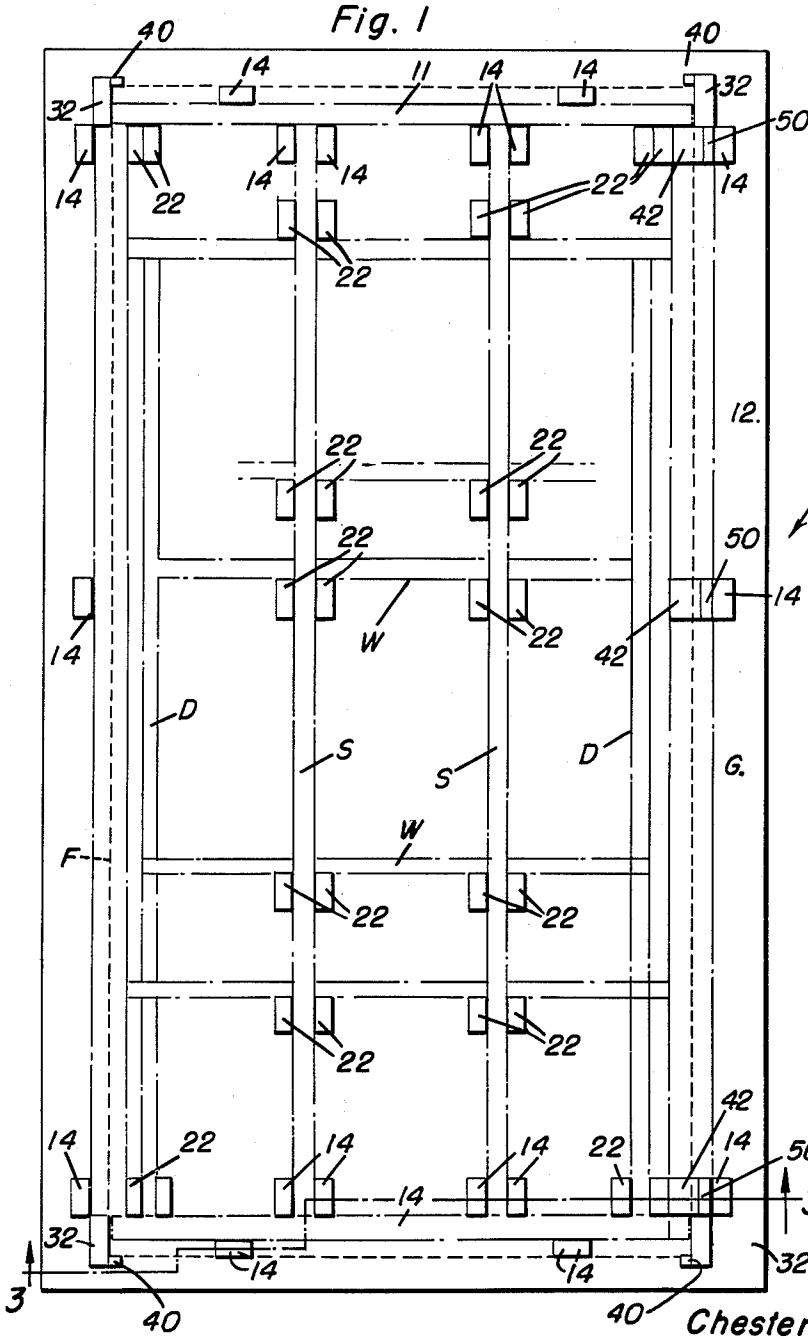
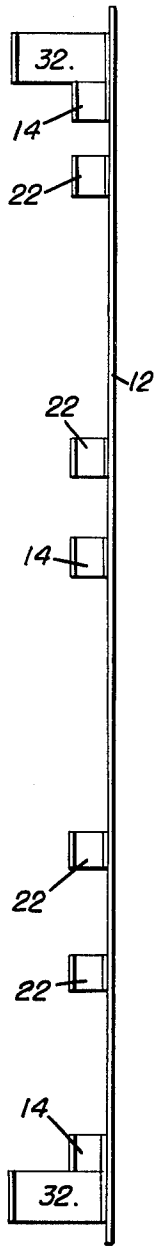


Fig.2



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Fig. 3

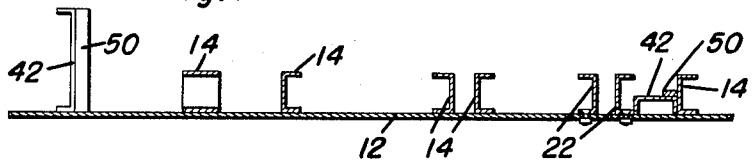


Fig. 4

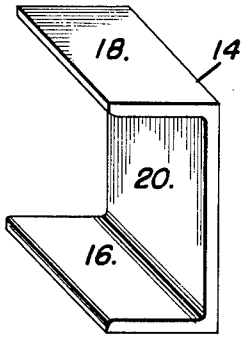


Fig. 5

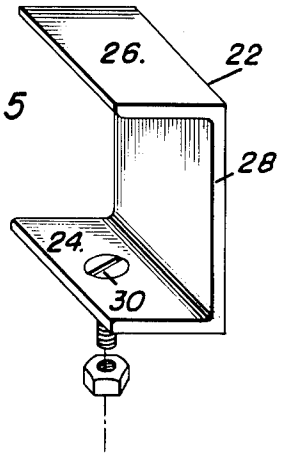


Fig. 6

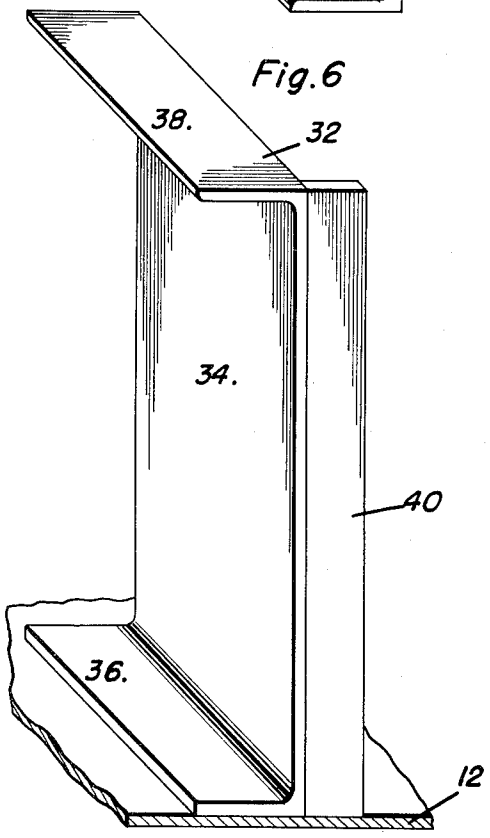
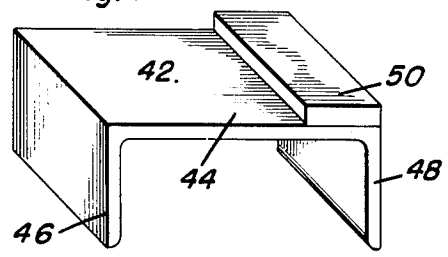


Fig. 7



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JIG FOR USE IN CONSTRUCTING BUILDING UNITS

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Application March 2, 1954, Serial No. 413,506

3 Claims. (Cl. 144—288)

This invention relates to an apparatus for constructing building units.

The primary object of the present invention resides in the provision of a jig for use in constructing the building units.

The construction of this invention features means for guidingly holding structural members in spaced and predetermined relationship while forming a platform for supporting panels after the structural members have been secured to each other, and a panel has been secured to the structural members.

Still further objects and features of this invention reside in the provision of an apparatus for constructing building units which enables building units to be produced in a minimum period of time while being highly accurate in their dimensions, which reduces the necessary labor in the construction of the building units by eliminating the necessity of otherwise supporting the elements of the building units; and which is simple and easy to utilize.

These, together with the various ancillary objects and features of the invention which will become apparent as the following description proceeds, are attained by this jig for construction of building units, a preferred embodiment of the jig being illustrated in the accompanying drawings, by way of example only, wherein:

Figure 1 is a plan view of the jig, showing the structural members of a building unit in phantom lines;

Figure 2 is a side elevational view of the jig;

Figure 3 is a vertical sectional view as taken along the plane of line 3—3 in Figure 1;

Figure 4 is a perspective view of a supporting guide forming one of the elements of the jig;

Figure 5 is a perspective view of another form of supporting guide which may be adjusted in order to construct various forms of building units;

Figure 6 is a perspective view of a supporting guide having enlarged vertical dimensions and which is adapted to be installed in the corners of the jig for providing a stop for the panels; and

Figure 7 is a perspective view of yet another form of supporting guide incorporated in the jig.

With continuing reference to the accompanying drawings wherein like reference numerals designate similar parts throughout the various views, reference numeral **10** generally designates the jig comprising the present invention which includes a base plate **12** having installed thereon a plurality of different forms of supporting guides.

One of the supporting guides, as is most clearly illustrated in Figure 4 and generally indicated by reference numeral **14**, includes a pair of substantially horizontally extending portions **16** and **18** interconnected by a vertically extending portion **20**, the supporting guide **14** therefore being of substantially channel shape. The horizontally extending portion **16** is adapted to engage the base plate **12** while the upper horizontally extending portion **18** is adapted to form in conjunction with other of the supporting guides a supporting platform.

The supporting guides **22**, such as illustrated in Figure 5, also include substantially horizontally extending portions **24** and **26** interconnected by a vertically extending portion **28**. However, the supporting guide **22** is not permanently fixed to the plate **12**, but is detachably secured by any suitable fastener, such as indicated by reference numeral **30**.

Referring now to the supporting guide shown in Figure 6, it will be noted that herein the supporting guide **32** has a vertically extending portion **34** of considerably greater dimensions than the vertical supporting portions **20** and **28**. The vertical supporting portion **34** interconnects horizontally extending portions **36** and **38**, and attached to the vertically extending portion **34** is a flange **40** forming a limit stop for the building unit to be constructed on the jig **10**. The flange **40** may be welded or otherwise attached to the vertically extending portion **34** of the supporting guide **32**.

The supporting guide of the type illustrated in Figure 7 and generally designated by reference numeral **42**, is in the form of a channel shape, with an upper horizontal supporting portion **44** supported by downwardly extending legs **46** and **48**. A stop block **50** is secured to and carried by the upper supporting portion **44**. The supporting guides **42** are arranged along one side of the jig **10**.

In forming a building unit of the type disclosed in my copending application for patent, Serial No. 341,010, now Patent No. 2,716,261, for Building Construction, supporting members, such as the studs S and horizontal frame members H are positioned in the jig **10**. The studs S are held in spaced relationship by contact with the vertically extending portions **20** and **28** of the supporting guides **14** and **22**, respectively, as are the frame members H. The interlocking frame elements F and G, respectively, which are, of course, of lesser thickness than the studs S or frame elements H, are then positioned with the frame element F being received between the adjacent supporting guides **14** and **22**. Thus, the lower surface of the frame element F will lie flush with the lower surfaces of the studs S and frame members H.

The frame element G is then positioned on the supporting surfaces **44** of the supporting guides **42** in abutting engagement with the blocks **50**. The supporting guides **42** are of sufficient height so that the upper surface of the frame element G will lie flush with the upper surfaces of the studs S and frame members H. After the structural members have been positioned on the jig **10**, they are nailed or otherwise secured to each other, after which a first panel in the form of a precut section of wall sheathing or siding is positioned thereover and held in aligned position by the supporting guides **32**. Then, this panel may be secured to the structural members after which the entire assembly can be removed from the jig **10**, overturned, and then placed upon the jig **10** with the corners of the panel being guided by the supporting guides **32** and with the panel resting on the horizontal supporting portions **18** and **26** of the supporting guides **14** and **22**. Then, a second panel can be secured to the structural members to complete the wall element.

It is to be recognized that the jig can be used for constructing panels having door or window openings therein while being further adapted for the assemblage of doors of various widths and windows of various sizes. Frame members for door openings are generally indicated by reference letter D and frame members for window openings as well as bottom trimmers for windows are generally designated by reference letter W.

From the foregoing, the construction and operation of the device will be readily understood and further explanation is believed to be unnecessary. However, since numerous modifications and changes will readily occur to

those skilled in the art, it is not desired to limit the invention to the exact construction shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the appended claims.

What is claimed as new is as follows:

1. A jig for use in constructing building units comprising a rectangular base plate having a plurality of upwardly extending supporting guides of channel shape, said guides having pairs of horizontally extending portions interconnected by vertically extending portions, said vertically extending portions forming stop guides for structural members, one of the horizontally extending portions of each of said pairs of horizontally extending portions engaging said base plate while the other of said horizontally extending portions forms a supporting platform.

2. A jig for use in constructing building units comprising a rectangular base plate having a plurality of upwardly extending supporting guides of channel shape, said guides having pairs of horizontally extending portions interconnected by vertically extending portions, said vertically extending portions forming stop guides for structural members, one of the horizontally extending portions of each of said pairs of horizontally extending portions engaging said base plate while the other of said horizontally extending portions forms a supporting platform, and other supporting guides secured to said base plate of greater vertical dimensions than said first recited supporting guides, said other supporting guides being secured at the corners of said rectangular base plate.

3. A jig for use in constructing building units comprising a rectangular base plate having a plurality of upwardly extending supporting guides of channel shape, said guides having pairs of horizontally extending portions interconnected by vertically extending portions, said vertically extending portions forming stop guides for structural members, one of the horizontally extending portions of each of said pairs of horizontally extending portions engaging said base plate while the other of said horizontally extending portions forms a supporting platform, and other supporting guides secured to said base plate of greater vertical dimensions than said first recited supporting guides, said other supporting guides being secured at the corners of said rectangular base plate, and additional supporting guides attached to said base plate having horizontal portions disposed below said others of said horizontally extending portions, said additional supporting guides being adapted to maintain structural members of reduced vertical dimensions flush with other structural members engaging said first recited supporting guides.

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