



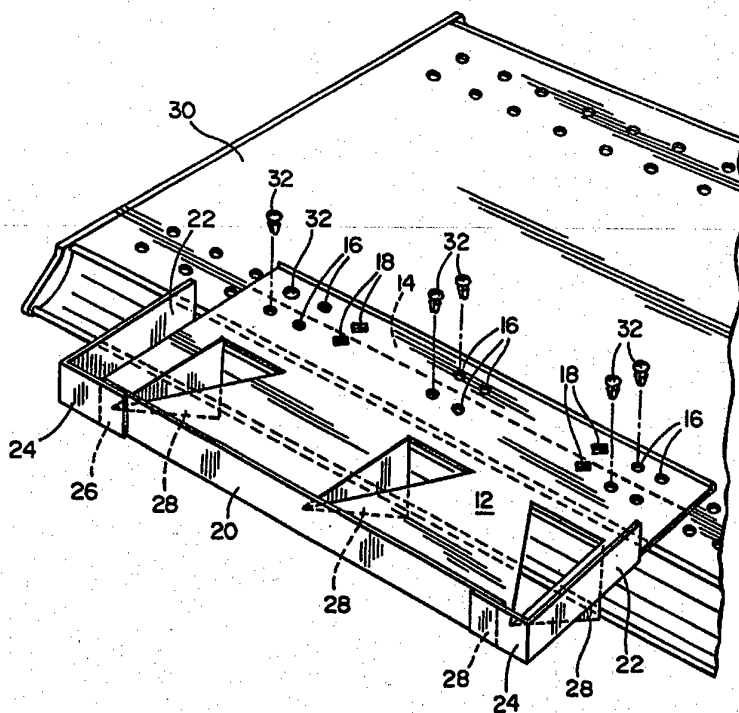
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/US95/00251 (22) International Filing Date: 9 January 1995 (09.01.95) (30) Priority Data: 08/180,302 12 January 1994 (12.01.94) US (71) Applicant: FAST INDUSTRIES, INC. [US/US]; 6850 N.W. 12th Avenue, Fort Lauderdale, FL 33309 (US). (72) Inventor: LEWIS, Kirk; 415 N.E. Corsicana, Lees Summit, MO 64063 (US). (74) Agents: STERN, Marvin, R. et al.; Jacobson, Price, Holman & Stern, The Jenifer Building, 400 Seventh Street, N.W., Washington, DC 20004 (US).</p>		<p>(81) Designated States: AU, CA, GB, MX, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report.</p>

(54) Title: SHELF EXTENDER

(57) Abstract

A shelf extender (10) for use on shelves (30), for example supermarket shelves, is made from a sheet of plastic which has an adhesive strip (14) and/or other attachment means along a back edge thereof for securing extender to the top surface of the shelf with a front portion of the sheet projecting beyond the front edge of the shelf. The front portion of the sheet has fold-down tabs (28) which engage the front edge of the shelf to form cantilever supports or buttresses for the sheet when the sheet is under load. Fold-up strips (20, 22) along the front and sides of the sheet form a surrounding wall for the shelf extender.



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SHELF EXTENDER

Background of the Invention

This invention relates to a shelf extender useful, for example, to increase the available display area of a shelf in a supermarket, other store or point of sale, to provide additional shelf space or to highlight products which are on sale.

Currently used shelf extenders are commonly made of cardboard or metal, but cardboard is somewhat difficult to use and metal is somewhat expensive and permanent in nature. Accordingly, this invention seeks to provide an improved shelf extender which is economical to manufacture, simple to ship and install, versatile in its applications and sturdy in use.

Summary of the Invention

The invention provides a shelf extender for the purposes indicated which is in the form of a die-cut sheet of plastic (preferably PVC 30 mil. thick) having attachment means along one edge for securing same to the front portion of a shelf so that a main body panel of the sheet extends or projects beyond the front edge of the shelf and fold-down tab means on the main body panel to engage against the front edge of the shelf when the main body panel is loaded with merchandise and thereby provide canti-lever supports or buttresses for the main body panel.

The attachment means along the rear edge of the shelf extender may comprise contact adhesive and/or apertures to receive pins or plugs which are inserted therethrough and into corresponding apertures of a shelf. For shelves without apertures, the contact adhesive is used as the attachment means.

The sheet may have a fold-up front and sides

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which adhere together with adhesive tabs to form a surround.

Other features and advantages of the invention will become apparent from the following description and claims read in conjunction with the attached drawings.

Brief Description of the Drawings

Figure 1 is a plan view of a plastic blank for a shelf extender according to the invention,

10 Figure 2 is a top perspective view of the blank after a first folding operation to form the shelf extender,

Figure 3 is a bottom perspective view of the completed shelf extender,

15 Figure 4 is an enlarged top perspective view of the shelf extender being attached to a supermarket shelf, and

Figure 5 is a side view of the attached shelf extender and shelf.

20 Detailed Description of the Invention

Figure 1 shows a die-cut blank 10 of plastic sheet, preferably PVC 30 mil. thick. The blank has a rectangular main body panel 12 conveniently about nine inches across and about six inches front to back. 25 Along the back edge of the blank on its lower surface is a strip of contact adhesive 14 (normally covered by release paper). Also along the back edge are groupings of circular and diamond-shaped apertures 16, 18 spaced at distances corresponding to similar 30 apertures which are provided along the front of certain display shelves.

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Along its front edge, the blank has a fold-up strip 20 defined by a crease along the front of panel 12, and similar fold-up strips 22 are provided on the side edges, the strips 22 are provided with fold-in tabs 24 having contact adhesive 26 at the ends. The body panel 12 has three triangular shaped fold-down tabs 28 defined by cut-outs in the plastic sheet to provide stabilizing supports or buttresses for the shelf extender as will be described.

10 In use, the blank is folded as shown in Figures 2 and 3, so that strips 20, 22 are folded up and secured together by the tabs 24, Figure 2, to form a surround for the shelf extender and then tabs 28 are pressed down, Figure 3 to complete the construction.

15 For a shelf 30 (Figure 4) which has circular apertures along the front and which is commonly encountered in supermarkets, etc., the extender is attached thereto by plugs or pins 32 frictionally inserted through the apertures 16 and the corresponding shelf apertures. The spacing between the apertures 16 and the tabs 28 is such that the tabs will engage against the front edge of the shelf as seen in Figure 5 when merchandise is placed on the panel 12 to form cantilever supports or buttresses for the shelf extender. In the embodiment illustrated, the front of the shelf is formed as a price channel.

25 It will be evident that for shelves having diamond-shaped apertures along the front, also of a commonly encountered type, the extender is attached in similar manner using apertures 18 for the pins or plugs. For shelves with no apertures, the adhesive 14 is used for attaching the extender. Thus, the

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invention provides a shelf extender well suited to meeting the stated objects.

While only preferred embodiments of the invention have been described herein in detail, the invention is
5 not limited thereby and modifications are possible within the scope of the attached claims.

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CLAIMS:

1. In combination with a product display shelf, a shelf extender comprising a die cut plastic sheet having a back edge and a front edge defining a main
5 body panel, attachment means along a back edge portion of the sheet securing same to a top surface of the shelf with a front portion of the body panel projecting beyond a front edge of the shelf, and tab
10 means projecting downwardly from said front portion of the body panel to engage against the front end of the shelf and provide cantilever supports for the sheet when said front portion is under load.
2. A combination as defined in claim 1 wherein
15 said tab means comprises fold-down tabs defined by cut-outs in the sheet.
3. A combination as defined in claim 1 wherein
said attachment means comprises a strip of contact adhesive along the back edge portion of the sheet.
4. A combination as defined in claim 1 wherein
20 said attachment means comprises apertures in the sheet aligned with corresponding apertures in the shelf and pins received in the aligned apertures.
5. A combination as defined in claim 1
25 including upstanding walls along the front and sides of the sheet forming a surround for said front portion of the body panel.

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6. A blank of sheet plastic for forming into a shelf extender, said blank including a back edge portion and a front edge portion defining a main body panel therebetween, attachment means along the back edge portion for securing the sheet to the upper surface of a shelf with a front portion of the sheet projecting beyond a front edge of the shelf, and fold-down tabs in said front portion defined by cut-outs in the sheet for engaging against the front edge of the shelf and providing cantilever supports for the front edge portion under load.

7. A blank defined in claim 6 wherein the attachment means includes a strip of contact adhesive along the back edge portion of the sheet.

8. A blank as defined in claim 6 wherein the attachment means includes apertures in the sheet to receive attachment pins.

9. A blank as defined in claim 6 including fold-up strips along a front edge and sides of the sheet with adhesive tabs for lowering said strips to form a surround for the front portion of the shelf.

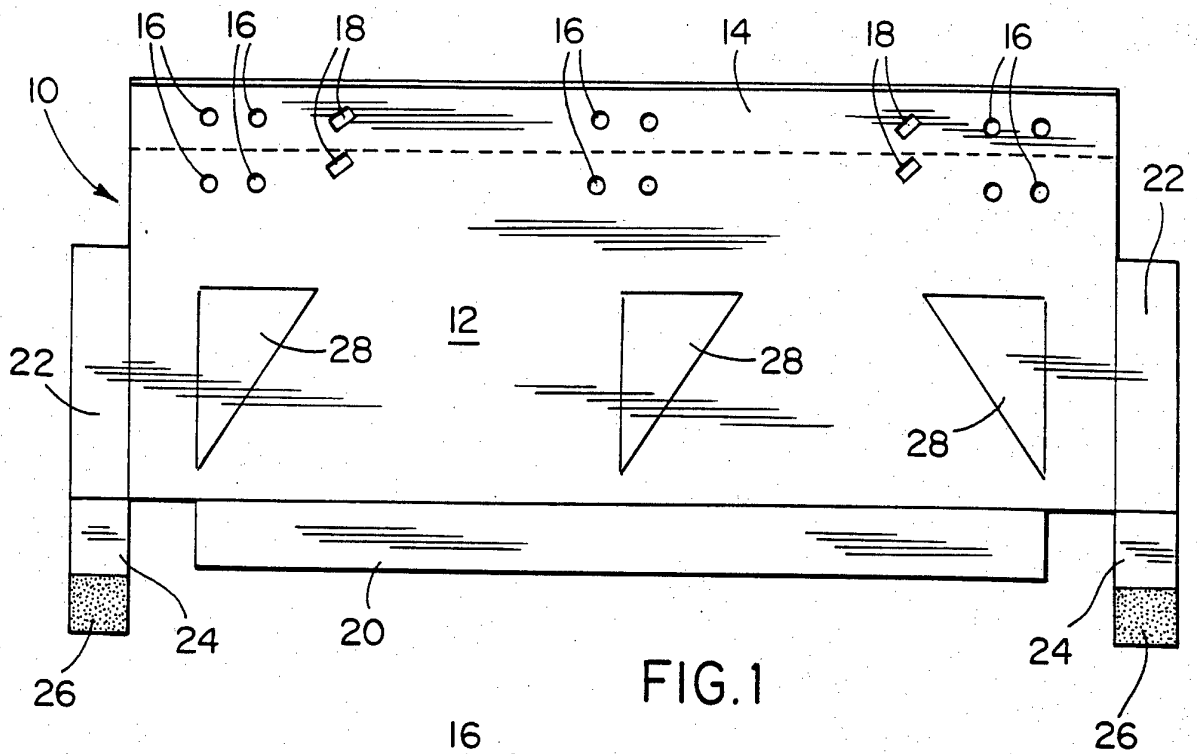


FIG. 1

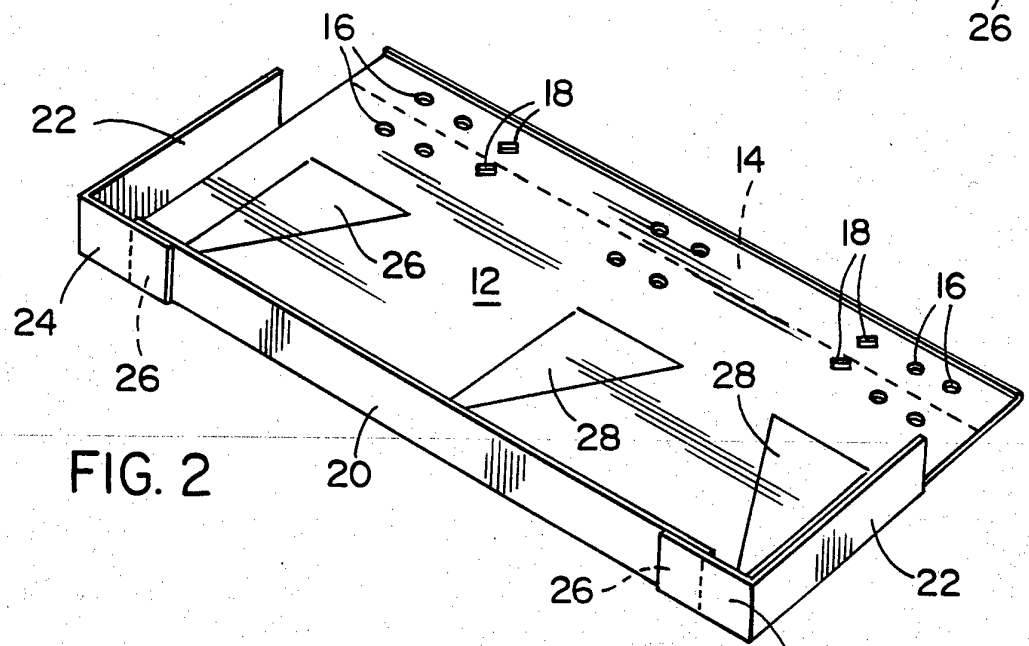


FIG. 2

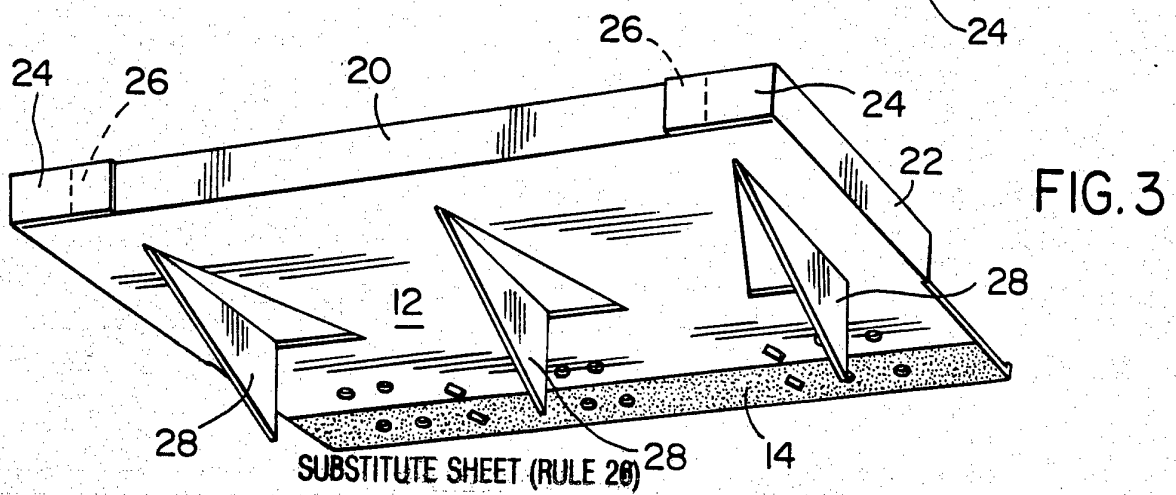


FIG. 3

SUBSTITUTE SHEET (RULE 26)

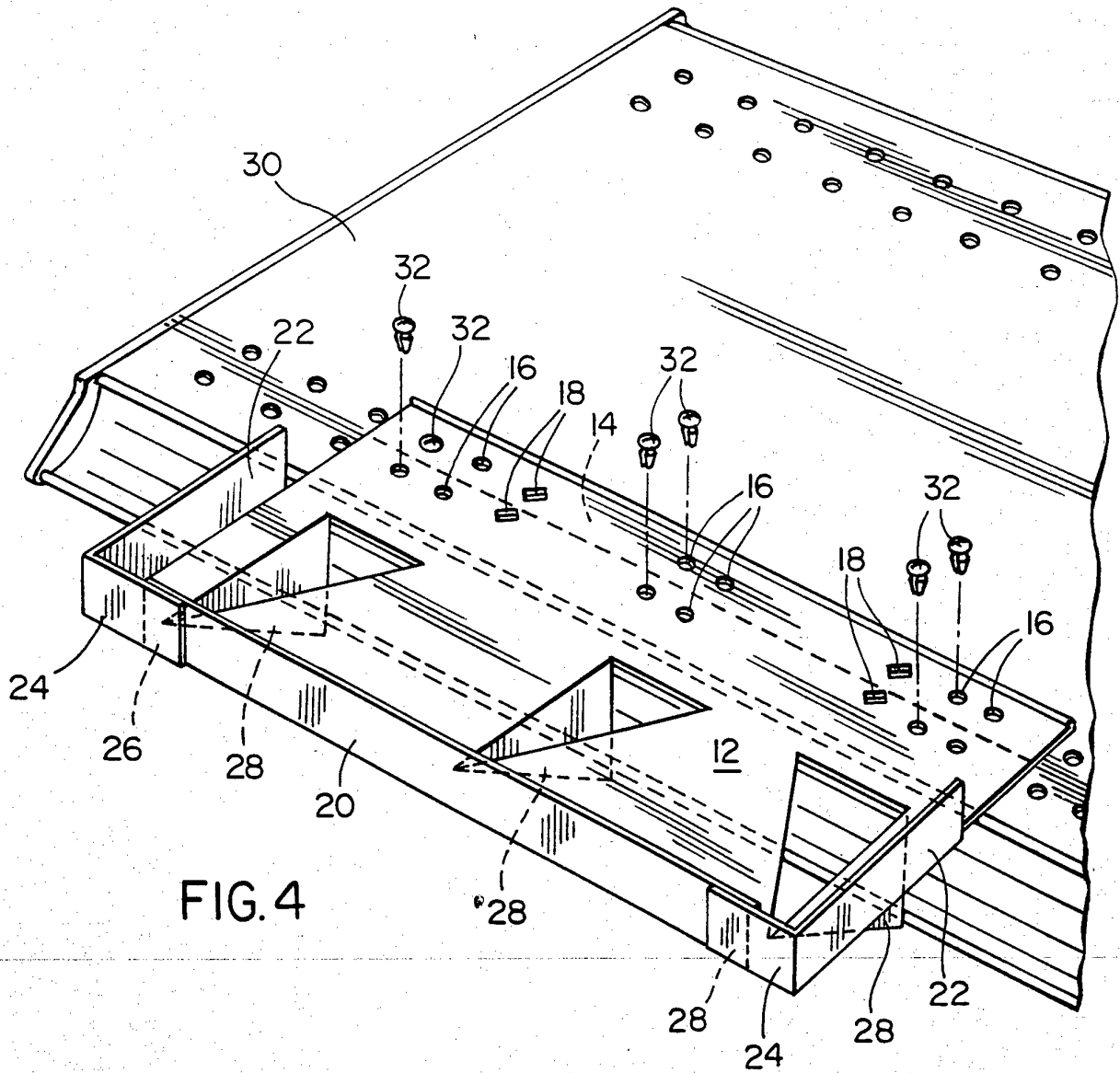


FIG. 4

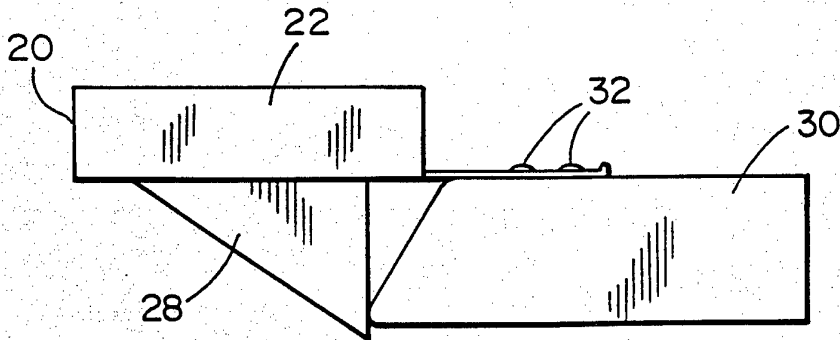


FIG. 5
SUBSTITUTE SHEET (RULE 20)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US95/00251

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : A47B 05/00
US CL : 108/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 108/42, 69, 152, 153; 211/90; 248/205.4

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US, A, 1,138,176 (EBNER) 04 MAY 1915, entire document	1-9
Y	US, A, 2,679,373 (HENLEY) 25 MAY 1954, entire document	1-9
A	US, A, 1,446,231 (WEST) 20 FEBRUARY 1923, entire document	1-9

Further documents are listed in the continuation of Box C. See patent family annex.

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<p>Date of the actual completion of the international search</p> <p style="text-align: center;">20 FEBRUARY 1995</p>	<p>Date of mailing of the international search report</p> <p style="text-align: center; font-size: 1.2em;">24 MAR 1995</p>
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