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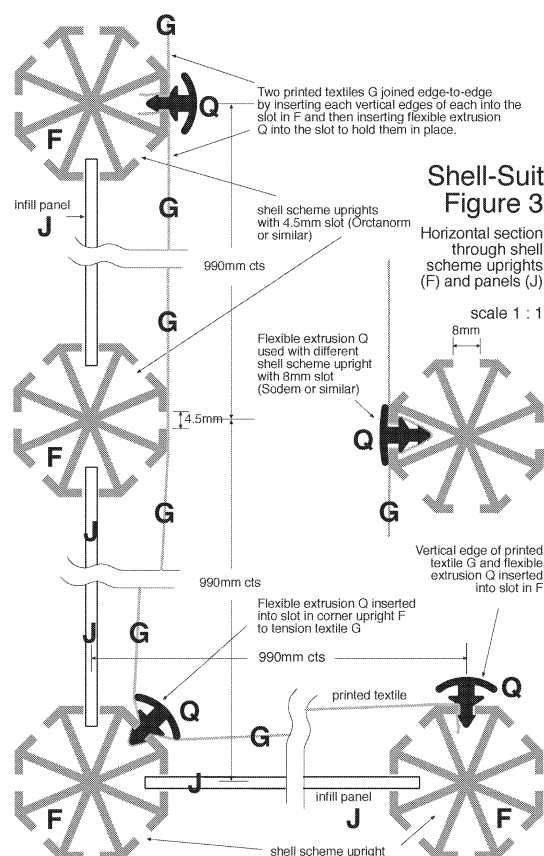
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(56) Documents Cited:
EP 2770586 A2 US 8894419 B1
US 20150093919 A1 US 20140120746 A1
US 20110159705 A1 US 20070234658 A1
The London Display Company Limited, "Display
Graphics" [online] 12 July 2014. Available from:
<https://web.archive.org/web/20140712042907/http://www.thelondondisplay.co.uk/strech-fabric-exhibition-stands.php> [Accessed 26 February 2016]

(58) Field of Search:
INT CL A41D, E04B, E04H, H01R
Other: EPODOC, WPI, INTERNET

(54) Title of the Invention: **Shell-suit shell scheme liner**
Abstract Title: **Displays for exhibition booths**

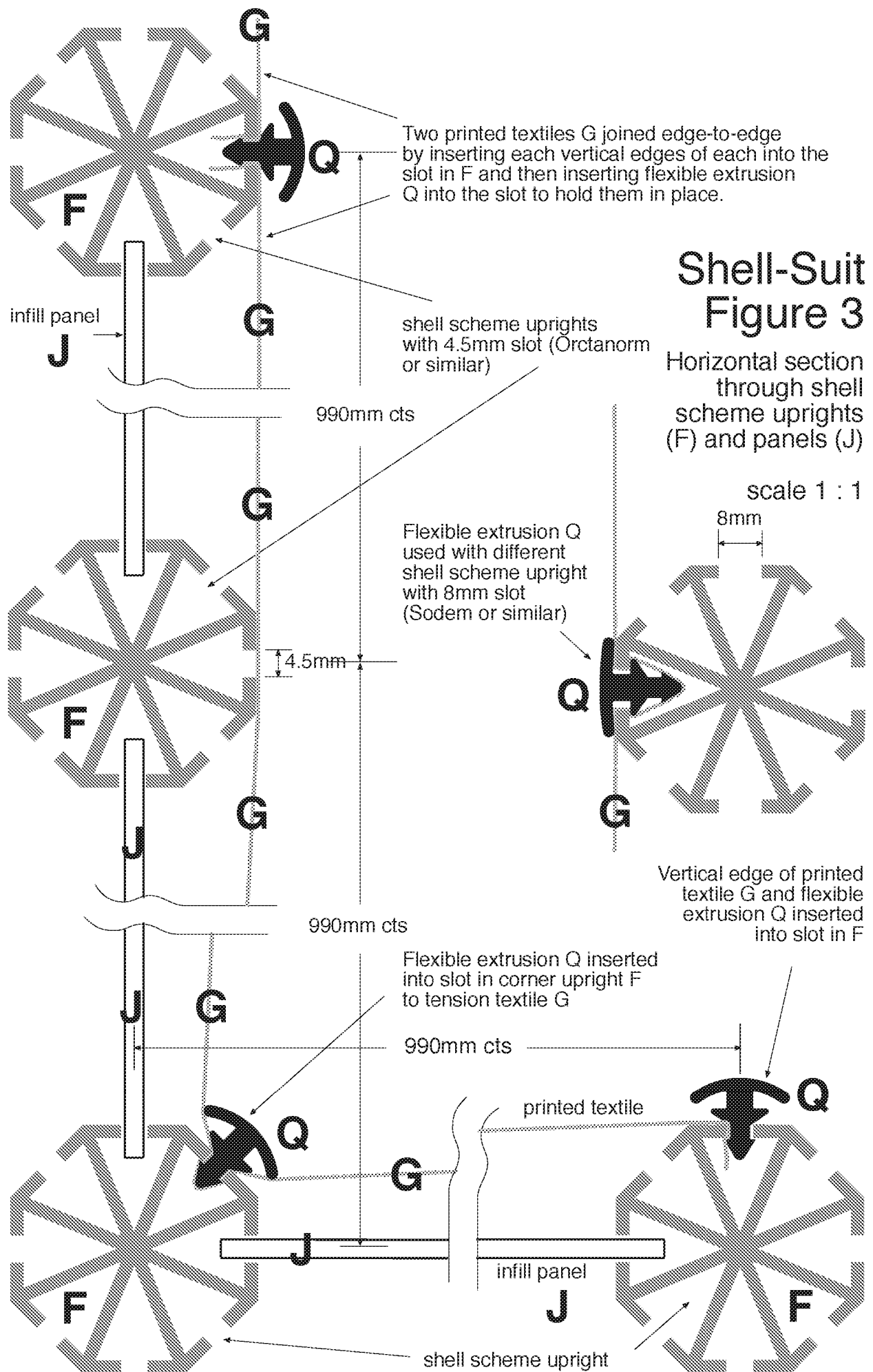
(57) A display for presenting graphical or pictorial information adapted to mount to the walls of an exhibition booth comprises a sheet of pliable material G. The pliable material is preferably a textile material. Lengths of aluminium extrusion can be provided into which the sheet material can be pushed and held in place with plastic extrusions Q inserted into a groove in an aluminium rail F of a standard exhibition booth partition or shell scheme. Rail clips may be hooked over the top rails of the exhibition booth to hang the sheet over the walls of the booth. Rail clips comprising tensioning straps may be hooked under the bottom rails of the exhibition booth.



The claims were filed later than the filing date but within the period prescribed by Rule 22(1) of the Patents Rules 2007.

At least one drawing originally filed was informal and the print reproduced here is taken from a later filed formal copy.

The reference to figures(s) 1 and 2 of the drawings in the printed specification are to be treated as omitted under section 15(5) or (6) of the Patents Act 1977.





Intellectual
Property
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Application No. GB1414059.4

RTM

Date :26 February 2016

The following terms are registered trade marks and should be read as such wherever they occur in this document: Octanorm, Sodem

A WALL MOUNTED DISPLAY FOR EXHIBITION BOOTHS

The present invention relates to a display for use in the presentation of graphical or pictorial information and in particular to such a display which can be rolled up for storage or transportation and can be used for lining exhibition booths.

Displays for use in the presentation of information conventionally comprise large sheets of paper, plastics or textile materials which are generally printed with images for use in advertising and decorative purposes in retail outlets, exhibitions and other similar contexts. Such displays are often hung from walls and ceilings and, to be shown to best advantage, are preferably provided with a mount or frame, or both.

If a rigid mount or frame is used for a large display then this has the disadvantage that the display becomes unwieldy and difficult to transport. In order to alleviate these problems, lightweight mounts are often used, which, as a result, can be easily damaged.

Geodetic folding frames have been developed to overcome the aforementioned problems but these suffer from the disadvantages that they are relatively expensive and that they require a significant amount of space in which they can be set up as well as being quite large, heavy and unwieldy when packed for transport.

The object of the present invention is to provide a display which substantially mitigates the aforementioned problems by being adapted to mount to the walls of a display booth (shell scheme). This display does not use up any floor

space at all and being both robust yet lightweight and compact this display is easy to transport and store.

According to the present invention is provided a display for use in the presentation of graphical or pictorial information comprising a sheet of pliable material bearing an image for presentation. Preferably, for maximum flexibility and robustness, this should be a textile material, which can be printed with the dye-sublimation process, or similar, which will not be damaged by folding and rolling.

Most specifically the display described can be mounted on standard exhibition booth partitions often referred to as “shell scheme” and supplied by Octanorm, Sodem and other companies Worldwide.

These partitions are made with a system of slotted aluminium upright poles at approx 990mm centres (**marked F in Fig. 1 and Fig. 3**) and aluminum crossbeams (**marked E in Fig. 1 and Fig. 2**) which lock on to the top and bottom of the uprights forming a rigid framework holding infill panels which are often made with foamed pvc sheet (**marked J in Fig. 1 and Fig. 2**).

Under the present invention suitable lengths of aluminium extrusion (**marked C in Fig. 1 and 2**) are provided into which the top and bottom edges of printed textile or sheet materials can be pushed and held in place with plastic extrusions (**marked M in Fig. 2**) inserted into a groove in the aluminium rail (**C**).

These lengths (about 930mm) of the aluminium extrusion rail (**C**) are fixed by means of the extruded plastic inserts (**M**) to the textile (**G**) along the top and bottom edges with a gap of approximately 60mm between each rail. This gap

(marked D in Fig. 1) serves two purposes; firstly to form a hinge so that the cloth can be easily folded and rolled up for transport and storage and secondly to bridge over the aluminium upright poles **(F)** which stand about 20mm proud of the infill panels mounted between them.

Two rail clips **(marked B in Fig. 1 and 2)** are attached to each top rail **(C)** and then hooked over the top rails of the shell scheme **(E)** so that the printed textile **(G)** hangs over the shell scheme walls

Two rail clips **(B)** are then attached to the bottom rails **(C)** that are attached to the textile **(G)**. These rail clips are hooked under the bottom rail **(E)** of the shell scheme with hook **(marked K in Fig. 1)** and the printed textile **(G)** is tightened vertically by means of the tensioning straps **(marked L in Fig. 1)**.

The vertical edges at each end of the textile **(G)** are pushed into the vertical grooves in the uprights **(F)** using a length of the flexible extrusion **(marked Q in Fig. 3)**. The excess textile at internal corners is similarly pushed into the groove in **F**, tensioning the printed textile **G** in a horizontal direction. The combined action of tensioning strap **L** extrusion **Q** both a vertical and horizontal direction serves to pull out creases in the printed textile resulting from folding and rolling for transport and storage.

Flexible extrusion **Q** can also be used to join two Shell-Suit displays edge-to-edge by inserting the vertical edge of each into the groove in **F** and inserting **Q** to hold them in place.

Extrusion **Q** can be variously inserted to suit different types of shell scheme **(see Fig. 3)**, and the gap **D** between aluminium rails **C** can be varied to suit different centres for upright **F**.

When removed from the shell scheme at the end of the exhibition, the top and bottom rails **(C)** are folded around each other and the textile is then rolled around them for transport and storage. Neodymium magnets **(shown N in Fig. 2)** and hook and loop fastener **(shown P in Fig. 2)** at each end of the rails **(C)** hold the rails in alignment together when folded thus.

Claims

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1. A portable graphic display system comprising a piece of fabric printed with an image, means of attachment means for attaching the display to an exhibition booth, rails that attach to the top and bottom edges of the printed fabric display and a tensioning system to remove creases from the printed fabric.
2. A portable display system according to claim 1, in which the attachment of the display to an exhibition booth is by means of clip fasteners that hook and clip to the rails attached to the printed fabric of the display and also hook onto the top and bottom rails of said exhibition booth.
3. A portable display system according to claim 1, in which folding of the printed fabric for transport or storage is facilitated by fabric hinge areas between, and in line with, rails in several parts that are attached to the top and the bottom edges of the printed fabric.
4. A portable display according to claim 1, in which magnets and hook and loop fastener pads are attached to the rails to keep them aligned when folded up for transport or storage
5. A display according to claim 1, in which flexible plastic extrusions push-fit into slots in the uprights of a standard exhibition booth to attach the vertical edges of the printed fabric of said display to standard types of exhibition booth.
6. A display according to claim 5, in which flexible plastic extrusions are provided to push-fit into the slots in the uprights at the internal corners of a standard exhibition booth, trapping the fabric of the display in said vertical slot and, in so doing, tensioning the fabric of the display
7. A portable display according to claim 5, in which the clips that attach the top and bottom rails to an exhibition booth snap-fit over the printed fabric display so that the top and bottom rails are hidden to give an uninterrupted image from top to bottom of the graphic display.
8. A portable fabric display according to Claim 1, provided with sprung top clip fastener attachments and tensionable bottom attachments that are able, between them, to compensate for misaligned rails in inaccurately-built exhibition booths



Application No: GB1414059.4

Examiner: Dr Karen Payne

Claims searched: -

Date of search: 26 February 2016

Patents Act 1977: Search Report under Section 17

Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X	-	US 2007/0234658 A1 (TRANSFORMIT) See pages 3 - 5 and figures 11, 12 & 18.
X	-	The London Display Company Limited, "Display Graphics" [online] 12 July 2014. Available from: https://web.archive.org/web/20140712042907/http://www.thelondondisplay.co.uk/strech-fabric-exhibition-stands.php [Accessed 26 February 2016]

Categories:

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC^X :

Worldwide search of patent documents classified in the following areas of the IPC

E04B; E04H

The following online and other databases have been used in the preparation of this search report

EPODOC, WPI, INTERNET

International Classification:

Subclass	Subgroup	Valid From
E04H	0001/12	01/01/2006