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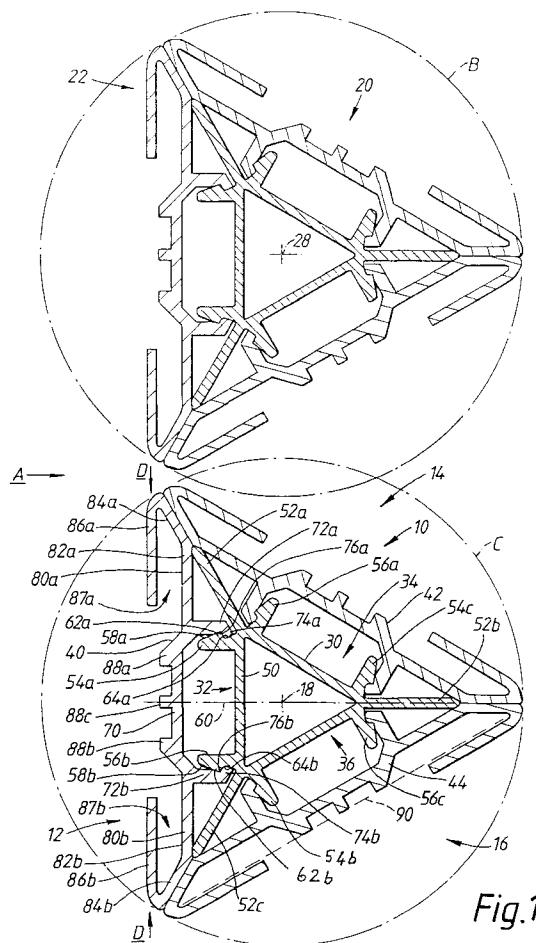
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(54) Rotary display apparatus and vane therefor

(57) A vane (10, 20) for a rotary display apparatus comprises an elongate core member (30) defining a triangular cross-section. The core (30) is mountable for rotation about its long axis (28) when mounted in a rotary display apparatus in parallel with a set of similar vanes such that three display surfaces (12, 14, 16) can be presented. The core of aluminium say has a pair of parallel elongate lugs (54a, 56b) associated with each triangular side which are shaped to receive cooperating legs (72a, 72b) of a facet member (40, 42, 44) of resilient material. A clear acrylic is preferred. A respective facet member (40, 42, 44) is detachably mounted to each side (32, 34, 36) of the core and has a pair of opposed elongate slots (87a, 87b) for receiving the edges of a strip of display material. The slots (87a, 87b) are provided by reflexed lips (86a, 86b) and the outer edges (80a, 80b) of the facet members meet to define a triangular shape in cross-section. The core has three radially projecting parts (52a, 52b, 52c) that provide location and support for the facet members (40, 42, 44) at the corners of the triangle. The disclosed structure is particularly useful in making up cassettes (120) of vanes pre-loaded with strips of display material.

**Fig.1****EP 0 829 843 A3**



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EUROPEAN SEARCH REPORT

Application Number
EP 97 30 7217

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Y,D	GB 2 134 301 A (PRISMAVISION AB) 8 August 1984 see abstract * page 1, line 6 - page 2, line 10; figures 1-8 *	1-13	G09F11/02
Y	DE 92 13 435 U (HUND, FRANZ) 28 January 1993 * page 1, line 10 - page 4, line 11; figures 1-5 *	1,2,7,9, 12,13	
Y	DE 295 16 260 U (BENADDA, AHMED) 21 December 1995 * page 1, last paragraph - page 4, paragraph 3; claims 1,5; figures 1-4 *	3-6,8	
Y	GB 2 250 122 A (POWERGRAPHIC DISPLAYS LIMITED) 27 May 1992 * page 3, line 2 - page 4, line 20; figures 1,2 *	3-6,8	
Y	EP 0 569 326 A (PLAKATRON AG) 10 November 1993 * page 1, line 1 - page 3, line 21; figures 1-3 *	10	TECHNICAL FIELDS SEARCHED (Int.Cl.6) G09F B42F
Y	WO 96 05588 A (JURCEVIC, MIODRAG) 22 February 1996 see abstract * page 11, line 6-19; figures 2-10 *	11	
A	DE 538 170 C (PREISS, FRANZ) * page 2, line 34 - line 89; figures 1-6 *	1-13	
A	US 2 728 622 A (O. H. GRISWOLD) 27 December 1955 * figures 1-4 *	1-13	
-The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 3 August 1998	Examiner Greiner, E
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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LACK OF UNITY OF INVENTION
SHEET B

Application Number

EP 97 30 7217

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claim : 1 to 13

Rotary vane display apparatus

2. Claim : 14 to 20

System and method for changing display material



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EUROPEAN SEARCH REPORT

Application Number
EP 97 30 7217

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	GB 2 105 895 A (ULTRAVISION) 30 March 1983 SEE ABSTRACT * figures 1-12 * -----	1-13	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 3 August 1998	Examiner Greiner, E
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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