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BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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(54) Title: IMPROVEMENTS TO A PROPELLER

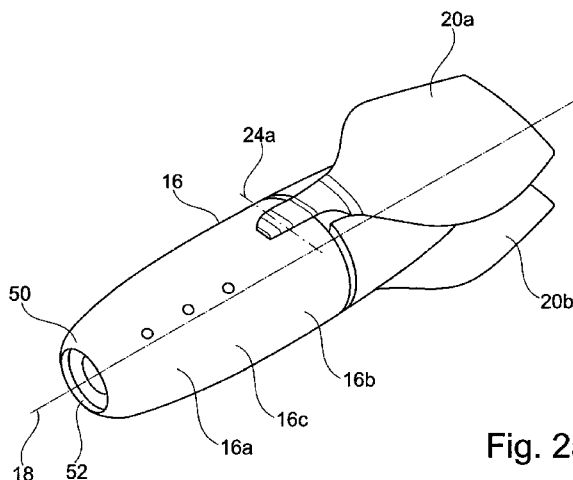


Fig. 2a

(57) Abstract: Apparatus suitable for use in positioning ceiling or wall panels in predetermined locations. The apparatus includes one or more channel means shaped to receive at least part of a panel in use, said channel means at least partially defined by one or more substantially planar outer walls and at least one inner wall. At least part of the inner wall depends away from the outer wall thereby forming the opening into said channel means through which the ceiling or wall panel is inserted in use.

INTERNATIONAL SEARCH REPORT

International application No
PCT/GB2015/052526

A. CLASSIFICATION OF SUBJECT MATTER INV. B63B59/04 B63H1/24 C23F13/02 C23F13/06 C23F13/18 ADD.			
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) B63H B63B C23F			
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) EPO-Internal, WPI Data			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	WO 95/17331 A1 (GORI 1902 AS [DK]; OLSEN STEEN CHRISTIAN [DK]; EHRENSKJOELD SUNE [DK]) 29 June 1995 (1995-06-29)	1-13,17, 18,22-24	
Y	page 6, line 30 - page 7, line 10; figures 1-5	19-21	
A		14-16	
Y	----- US 3 591 311 A (BUTLER FRANK W) 6 July 1971 (1971-07-06) column 2, lines 30-33	19-21	
X	----- WO 93/01973 A1 (GORI AF 1902 A S [DK]) 4 February 1993 (1993-02-04) the whole document	1-12	
X	----- US 997 884 A (WELLS DANIEL D [US]) 11 July 1911 (1911-07-11) the whole document	1-10	
	----- -/--		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.		<input checked="" type="checkbox"/> See patent family annex.	
* Special categories of cited documents :			
"A" document defining the general state of the art which is not considered to be of particular relevance	"E" earlier application or patent but published on or after the international filing date	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
		"&" document member of the same patent family	
Date of the actual completion of the international search	Date of mailing of the international search report		
24 May 2016	02/06/2016		
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Barré, Vincent		

INTERNATIONAL SEARCH REPORT

International application No PCT/GB2015/052526

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 391 567 A (CIAMPOLILLO DOMINICK [US]) 5 July 1983 (1983-07-05) column 1, line 50 - column 2, line 12 column 4, line 56 - column 5, line 22 claims figures -----	25
X	US 2 732 021 A (JOHN G. TAFT) 24 January 1956 (1956-01-24) column 1, line 22 - line 35 column 1, line 50 - column 2, line 2 column 2, line 62 - line 69 figures claims 1,2,4,6 -----	25

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2015/052526

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-24

retractable propeller

2. claim: 25

Anode assembly

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/GB2015/052526

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9517331	A1	29-06-1995	
		AU 696931 B2	24-09-1998
		AU 1310795 A	10-07-1995
		CA 2179731 A1	29-06-1995
		DE 69420285 D1	30-09-1999
		DE 69420285 T2	03-02-2000
		DK 0735967 T3	13-12-1999
		EP 0735967 A1	09-10-1996
		NZ 277760 A	26-06-1998
		US 6152693 A	28-11-2000
		WO 9517331 A1	29-06-1995
US 3591311	A	06-07-1971	NONE
WO 9301973	A1	04-02-1993	
		AU 2411492 A	23-02-1993
		WO 9301973 A1	04-02-1993
US 997884	A	11-07-1911	NONE
US 4391567	A	05-07-1983	NONE
US 2732021	A	24-01-1956	NONE