



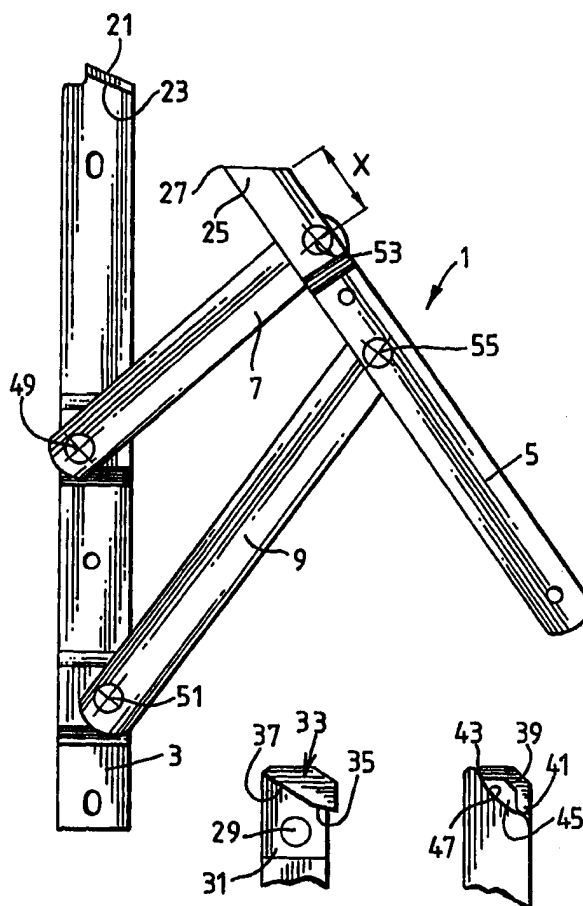
## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>E05D 15/46, 11/08</b>	<b>A3</b>	(11) International Publication Number: <b>WO 98/18299</b> (43) International Publication Date: 30 April 1998 (30.04.98)
(21) International Application Number: PCT/GB97/02906 (22) International Filing Date: 21 October 1997 (21.10.97)  (30) Priority Data: 9621981.1      22 October 1996 (22.10.96)      GB 9625100.4      3 December 1996 (03.12.96)      GB 9626473.4      20 December 1996 (20.12.96)      GB  (71) Applicant (for all designated States except US): SE- CURISTYLE LIMITED [GB/GB]; Kingsmead Industrial Estate, Princess Elizabeth Way, Cheltenham, Gloucester- shire GL51 7RE (GB).  (72) Inventors; and (75) Inventors/Applicants (for US only): BAKER, Neil, Martin [GB/GB]; 59 Colin Road, Barnwood, Gloucester GL4 7JN (GB). JOURNEE, Matthew, Francis [NZ/GB]; 2 Nightingale Close, Rowlands Castle, Portsmouth, Hants PO9 6EU (GB).  (74) Agent: JACKSON, Richard, Eric; Carpmaels & Ransford, 43 Bloomsbury Square, London WC1A 2RA (GB).		(81) Designated States: NZ, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims</i> <i>and to be republished in the event of the receipt of amendments.</i>  (88) Date of publication of the international search report: 2 July 1998 (02.07.98)

(54) Title: HINGES AND PARTS THEREOF

## (57) Abstract

A hinge (1) for a vent, the hinge comprising mounting means (3) for attachment to a fixed frame, a vent arm (5) for attachment to a movable vent, a first link (7) pivotally attached at pivot points (49, 53) to the mounting means (3) and to the vent arm (5) and a third link (9) pivotally attached to the mounting means (3) and to the vent arm (5) at pivot points (51, 55) spaced from the pivot points (49, 53) of the first link (7), wherein the vent arm (5) has an end point (25) which engages an end cap (33) when the hinge (1) is closed. An improved hinge is thereby provided.



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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 97/02906

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 6 E05D15/46 E05D11/08

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)

IPC 6 E05D

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 practical, 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.
X	GB 2 165 883 A (MILA) 23 April 1986	1-12, 16-23, 26,28, 30,34, 74-76
Y	see column 1 - column 2; figures	13-15, 24,27, 40,41, 57,59
X	--- US 3 797 169 A (ARMSTRONG) 19 March 1974	4-6,60, 67,70, 72,73
Y	see column 3, line 11 - line 33 see column 5, line 67 - column 6, line 4; figures ---	64,65
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

6 May 1998

Date of mailing of the international search report

12.05.98

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 97/02906

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 092 221 A (SHAW) 11 August 1982  see page 2, line 115 - page 3, line 54; figures ---	6,60-63, 67,69, 70,72,73
X	GB 2 148 384 A (HARDWARE & SYSTEMS PATENTS LTD) 30 May 1985  ---	6,60-63, 67,69, 70,72,73
Y	see page 1, line 80 - line 129; figures ---	41
X	GB 2 101 203 A (SHAW) 12 January 1983  ---	6,60,62, 67-70, 72,73
A	see page 3, line 27 - page 4, line 64; figures ---	66
X	WO 96 29495 A (EUROMOND) 26 September 1996  ---	43,44, 46,55
Y	see page 8, line 18 - page 10, line 10; figures ---	40,52, 56,57,59
A		25
X	FR 2 554 860 A (BEZAULT) 17 May 1985 see page 4, line 25 - page 5, line 9; figures ---	43,44
Y	GB 2 255 588 A (COTSWOLD) 11 November 1992 see page 3, line 7 - line 21; figures ---	13-15
Y	GB 2 262 308 A (SECURISTYLE) 16 June 1993 see page 6, line 11 - line 15; figures ---	24
A		51
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Y	EP 0 142 999 A (SECURISTYLE) 29 May 1985 see page 3, line 13 - line 15; figures ---	64,65
A	EP 0 467 728 A (BEZAULT) 22 January 1992 see abstract -----	47,48

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/GB 97/ 02906

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 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 II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

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

1. Claims: 1-59,74-76: Four bar vent hinge
2. Claims: 60-73: Friction pivot of a hinge

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 fee, this Authority did not invite payment of any additional fee.
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.
- ☒ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat I Application No

PCT/GB 97/02906

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