





European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 99 31 0508

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.7)
A	US 3 067 985 A (CUSACK) 11 December 1962 (1962-12-11) * the whole document *	1	E04H17/14
A	US 5 581 868 A (BISCH ROBERT M) 10 December 1996 (1996-12-10) * column 3, line 15 - column 4, line 20; figures 1-5 *	1	
A	US 2 218 953 A (GUSTAFSON) 22 October 1940 (1940-10-22) * the whole document *	1	
P,X	US 5 873 564 A (BISCH ROBERT M) 23 February 1999 (1999-02-23) * column 7, line 27 - line 59; figures 17-19 *	1,2,6,7	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			E04H
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>29 May 2001</b>	Examiner <b>Fordham, A</b>
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			

EPO FORM 1503 03 92 (P4C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
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29-05-2001

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3067985	A	11-12-1962	NONE	
US 5581868	A	10-12-1996	US 5873564 A	23-02-1999
US 2218953	A	22-10-1940	NONE	
US 5873564	A	23-02-1999	US 5581868 A	10-12-1996