

(19)



(11)

EP 4 411 092 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
05.02.2025 Bulletin 2025/06

(43) Date of publication A2:
07.08.2024 Bulletin 2024/32

(21) Application number: **24179980.8**

(22) Date of filing: **22.01.2020**

(51) International Patent Classification (IPC):
E04H 15/28 ^(2006.01) **A45B 23/00** ^(2006.01)
A45B 19/10 ^(2006.01) **A45B 25/02** ^(2006.01)
A45B 25/18 ^(2006.01) **E04H 15/48** ^(2006.01)

(52) Cooperative Patent Classification (CPC):
A45B 19/10; A45B 23/00; A45B 25/02;
A45B 25/18; E04H 15/28; E04H 15/48;
A45B 2023/0093

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR

(30) Priority: **22.01.2019 AU 2019900194**
08.03.2019 AU 2019100254

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
20744993.5 / 3 914 791

(71) Applicant: **Fraser, Mark Andrew**
Hamilton, Queensland 4007 (AU)

(72) Inventor: **Fraser, Mark Andrew**
Hamilton, Queensland 4007 (AU)

(74) Representative: **Dehns**
10 Old Bailey
London EC4M 7NG (GB)

(54) A PORTABLE SHELTER

(57) The present invention relates to a portable shelter assembly. The assembly includes a support; and an expandable shelter for being supported by the support and expanding to shelter at least one person. The shelter includes ribs extending from the support. Each rib includes one or more proximal elements pivotally mounted to the support. Each rib further includes a distal element extending from the proximal elements and configured to

move outwardly to expand the shelter when the proximal elements pivot in a first direction. Advantageously, the distal elements may be simply pulled down one at a time to lift the connected proximal elements and extend the ribs, which is advantageous in windy conditions, or pulled down together to lift the proximal elements and extend the ribs.

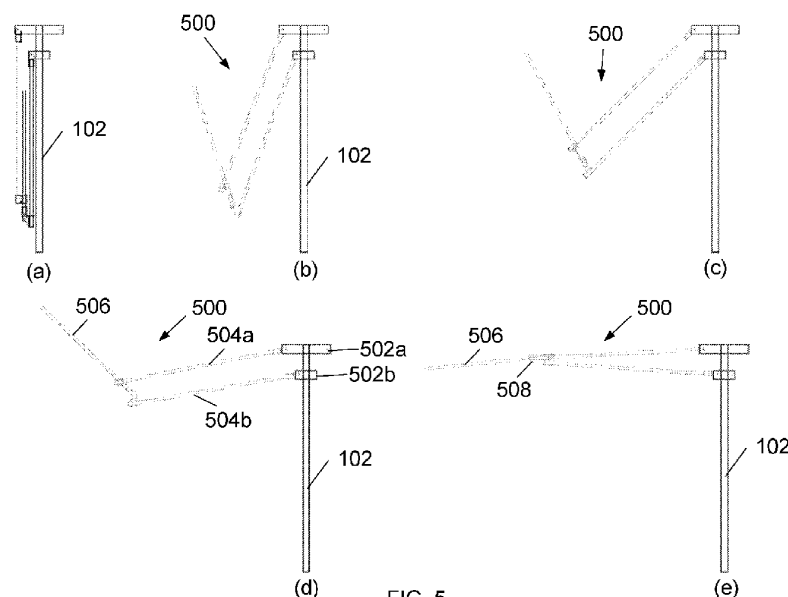


FIG. 5

EP 4 411 092 A3



EUROPEAN SEARCH REPORT

Application Number

EP 24 17 9980

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2008/114305 A2 (TELONERIA DEGL INNOCENTI S R L [IT]; DEGLNNNOCENTI STEFANO [IT]) 25 September 2008 (2008-09-25)	1-9,11, 12,14,15	INV. E04H15/28 A45B23/00 A45B19/10
A	* figures 5-8 *	10,13	A45B25/02 A45B25/18
X	US 1 908 453 A (CONRAD SCHMIDT HENRY) 9 May 1933 (1933-05-09)	1-12,15	E04H15/48
A	* page 2, lines 31-77; figures 1,2,5,7,8 *	13,14	
X	US 2 492 457 A (ROY BENTON IVAN LE) 27 December 1949 (1949-12-27)	1-12,15	
A	* column 2, line 48 - column 3, line 14; figures 1-5 *	13,14	
X	WO 2018/107238 A1 (FRASER MARK ANDREW [AU]) 21 June 2018 (2018-06-21)	1-8,11, 14,15	
A	* paragraph [00048] - paragraph [00060]; figures 7-10b *	9,10,12, 13	
X	US 1 964 292 A (LIVINGSTON WALTER A) 26 June 1934 (1934-06-26)	1-8,11, 12,15	TECHNICAL FIELDS SEARCHED (IPC)
A	* page 1, line 55 - page 2, line 31; figures 1,2 *	9,10,13, 14	A45B E04H
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 23 October 2024	Examiner Decker, Robert
CATEGORY OF CITED DOCUMENTS		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	
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			

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

EP 24 17 9980

5

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

23-10-2024

10

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2008114305 A2	25-09-2008	EP 2122088 A2	25-11-2009
		WO 2008114305 A2	25-09-2008

US 1908453 A	09-05-1933	NONE	

US 2492457 A	27-12-1949	NONE	

WO 2018107238 A1	21-06-2018	AU 2016273947 B1	25-05-2017
		US 2019218814 A1	18-07-2019
		WO 2018107238 A1	21-06-2018

US 1964292 A	26-06-1934	NONE	

15

20

25

30

35

40

45

50

55

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82