



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
07.03.2007 Bulletin 2007/10

(51) Int Cl.:
A47D 9/00 (2006.01) E04H 15/48 (2006.01)

(43) Date of publication A2:
10.01.2007 Bulletin 2007/02

(21) Application number: **06013637.1**

(22) Date of filing: **30.06.2006**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK YU

(72) Inventors:
• **Chu, Wan-sing**
Sheung Wan (HK)
• **Wu, Lai-ha**
Sheung Wan (HK)

(30) Priority: **06.07.2005 US 696515 P**

(74) Representative: **Casalonga, Axel et al**
Bureau Casalonga & Josse
Bayerstrasse 71/73
80335 München (DE)

(71) Applicant: **Best Tide Mfg. Co., Ltd**
Sheung Wan,
Hong Kong (CN)

(54) **Collapsible structures adapted for child use**

(57) A collapsible structure includes a first frame member defining a base of the structure and a second frame member defining a top of the structure. A piece of foldable material is attached to and extends between the first and second frame members. A plurality of foldable frame supporters is mounted on the piece of foldable

material whereby folding of the frame supporters drives the first and second frame members towards a superimposed and collapsed position, and unfolding of the frame supporters drives the first and second frame members towards a spaced apart and expanded position. The collapsible structure can be in the form of a baby bed, a play pen, an igloo or a teepee.

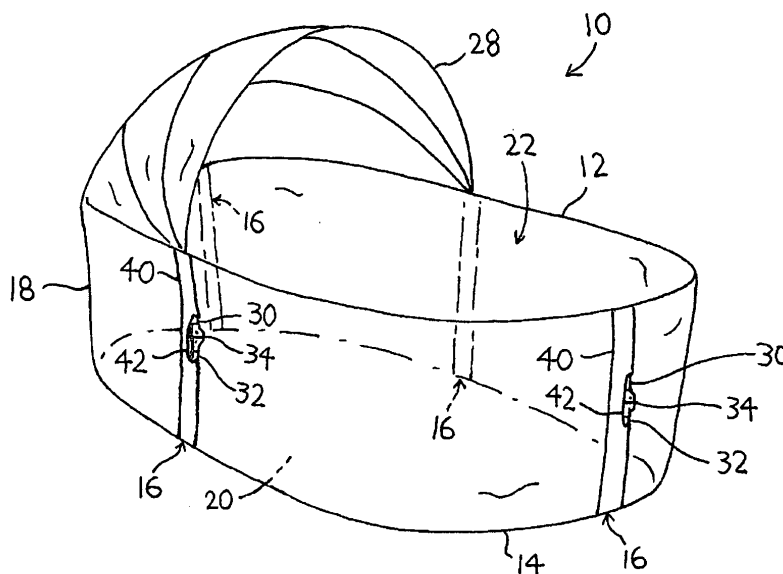


FIG. 1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 06 01 3637

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	EP 1 493 361 A (COOPER HOWARD LEE [GB]; WAGSTAFF STEVEN [GB]) 5 January 2005 (2005-01-05) * paragraphs [0020] - [0024], [0036]; figures 1,2 *	1-10, 23-25,28	INV. A47D9/00 E04H15/48
X	BE 654 166 A (LAUNE, PIERRE) 1 February 1965 (1965-02-01) * page 3, lines 13-16; figure 2 *	1,23	
X	US 2 575 189 A (SCHMIDT THEODORE F) 13 November 1951 (1951-11-13) * figure 2 *	1,23	
A	US 2 870 462 A (TURRIN JOSEPH G ET AL) 27 January 1959 (1959-01-27) * column 2, lines 25-45,63-68 *	1,23	
X	FR 2 765 607 A1 (MANUF STEPHANOISE DE TRANSFORM [FR]) 8 January 1999 (1999-01-08) * page 3, lines 11-25; figures 1,2,6 *	12,13, 15-17	TECHNICAL FIELDS SEARCHED (IPC)
Y	EP 0 507 012 A1 (BAE JIN CORP [KR]) 7 October 1992 (1992-10-07) * the whole document *	18-22	A47D E04H
X	GB 2 094 367 A (HYDE PETER JEREMY) 15 September 1982 (1982-09-15) * the whole document *	12,15-17	
Y	CH 685 352 A5 (BAEJIN CORP [KR]) 15 June 1995 (1995-06-15) * column 3, lines 1,2; figure 4 *	18-22	
Y	US 4 393 887 A (ORRIBIN EDWIN H [AU]) 19 July 1983 (1983-07-19) * column 1, lines 57-61; figure 1 *	18-22	
	-/--		
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 17 January 2007	Examiner Lassen, Steen
<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</p> <p>& : member of the same patent family, corresponding document</p>			

2
EPO FORM 1503 03.82 (P04C01)



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 06 01 3637

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	US 3 176 698 A (WARNER HARRY A) 6 April 1965 (1965-04-06) * the whole document * -----	18-22	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 17 January 2007	Examiner Lassen, Steen
<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>			

2
EPO FORM 1503 03.82 (P04C01)

**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

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:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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. claims: 1-11,23-25,28

A struture with frame members defining a base and a top, respectively, of the structure and multiple foldable frame supports between said base and top, the erected structure being of a generally open form.

2. claims: 12-22,26,27

A structure comprising multiple frame assemblies each including a plurality of hinged frame segments, the erected structure being of a generally closed form.

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

EP 06 01 3637

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.

17-01-2007

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1493361	A	05-01-2005	NONE	
BE 654166	A	01-02-1965	NONE	
US 2575189	A	13-11-1951	NONE	
US 2870462	A	27-01-1959	NONE	
FR 2765607	A1	08-01-1999	NONE	
EP 0507012	A1	07-10-1992	CA 2044451 C CN 1065505 A DE 69124222 D1 DE 69124222 T2 ES 2098314 T3 JP 4119068 U US 5195551 A	27-12-1994 21-10-1992 27-02-1997 21-08-1997 01-05-1997 23-10-1992 23-03-1993
GB 2094367	A	15-09-1982	NONE	
CH 685352	A5	15-06-1995	KR 960008869 Y1	10-10-1996
US 4393887	A	19-07-1983	BE 878273 A1 DE 2932352 A1 DK 342279 A FR 2433318 A1 GB 2031477 A JP 55040587 A NL 7906125 A NZ 191287 A SE 7906574 A ZA 7904224 A	17-12-1979 06-03-1980 17-02-1980 14-03-1980 23-04-1980 22-03-1980 19-02-1980 15-03-1983 17-02-1980 24-09-1980
US 3176698	A	06-04-1965	NONE	