



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 917 843 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
22.11.2000 Bulletin 2000/47

(51) Int. Cl.⁷: **A47C 1/026**, A47C 20/04

(43) Date of publication A2:
26.05.1999 Bulletin 1999/21

(21) Application number: **98120689.9**

(22) Date of filing: **06.11.1998**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **21.11.1997 IT MI972605**

(71) Applicant: **Shaf S.p.A.**
20017 Rho (Milano) (IT)

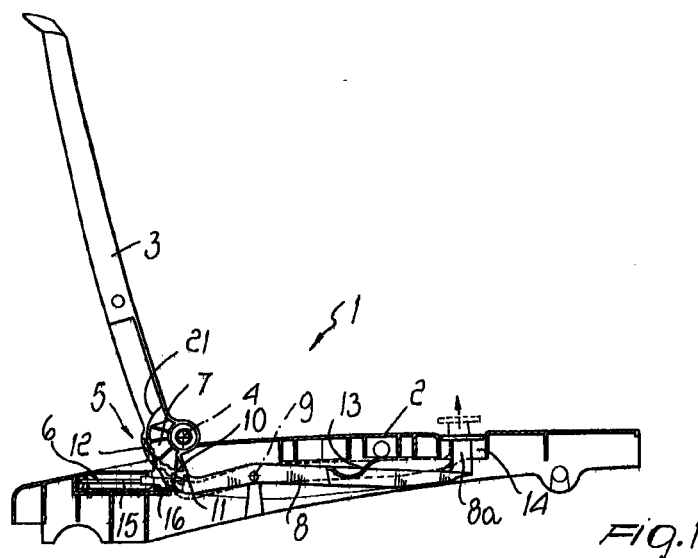
(72) Inventor: **Houli, Alain**
20124 Milano (IT)

(74) Representative:
Modiano, Guido, Dr.-Ing. et al
Modiano & Associati SpA
Via Meravigli, 16
20123 Milano (IT)

(54) **Bed or chair with variable-position backrest**

(57) A bed or chair with variable-position backrest, comprising a seat portion (2) and a backrest (3) which is hinged to the seat portion (2), about a substantially horizontal axis (4), proximate to the rear side of the seat portion. The bed or chair comprises a detent device (5) which is interposed between the seat portion (2) and the backrest (3) and is suitable to lock the backrest, in its rotation about its horizontal axis (4), in positions which lie at various angles with respect to the plane of

arrangement of the seat portion (2). An elastic means (6) is provided which is interposed between the seat portion (2) and the backrest (3) and elastically contrast the rotation of the backrest (3) about its horizontal axis (4) in the direction of rotation that causes an increase in the angle formed by the backrest (3) with respect to the plane of arrangement of the seat portion (2).



EP 0 917 843 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 12 0689

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.6)
X	US 4 337 978 A (HIRAO KOJI ET AL) 6 July 1982 (1982-07-06) * the whole document *	1,2	A47C1/026 A47C20/04
Y		3-6	
A		7-14	
Y	US 4 801 177 A (KANAZAWA YUZO) 31 January 1989 (1989-01-31) * the whole document *	3,4,6	
Y	US 5 397 168 A (HAND JOSEPH M) 14 March 1995 (1995-03-14) * figures 2-4 *	5	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			A47C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20 September 2000	Examiner Neiller, F
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 1503.03.82 (P04C01)

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

EP 98 12 0689

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.

20-09-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4337978 A	06-07-1982	JP 1274455 C	31-07-1985
		JP 55146115 A	14-11-1980
		JP 59051285 B	13-12-1984
		DE 3016036 A	06-11-1980
US 4801177 A	31-01-1989	NONE	
US 5397168 A	14-03-1995	CA 2102973 A	03-03-1995

EPO FORM P0459

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