



(12)

EUROPEAN PATENT APPLICATION

(21) Application number : **92830070.6**

(51) Int. Cl.⁵ : **A47C 5/12, A47C 4/02**

(22) Date of filing : **19.02.92**

PRIORITY 130391 ITU BS91000024.

(30) Priority : **13.03.91**

(43) Date of publication of application :
16.09.92 Bulletin 92/38

(84) Designated Contracting States :
**AT BE CH DE DK ES FR GB GR IT LI LU NL PT
SE**

(71) Applicant : **ARETA S.r.l.
Vico Ponno 16
I-72021 Francavilla Fontana (Brindisi) (IT)**

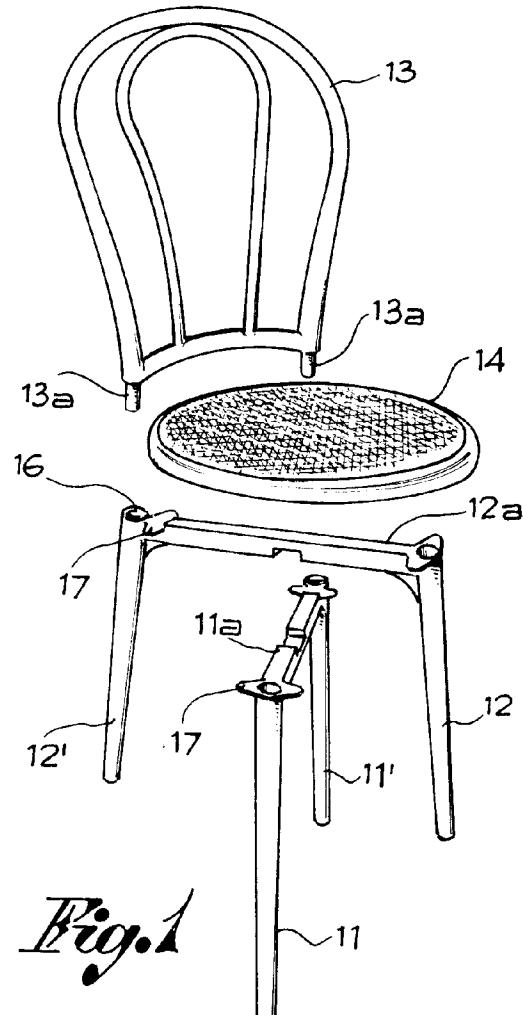
(72) Inventor : **Cozzi, Angelo**

**Vico Ponno 16
I-72021 Francavilla Fontana, (Brindisi) (IT)**

(74) Representative : **Manzoni, Alessandro
MANZONI & MANZONI - UFFICIO
INTERNAZIONALE BREVETTI P.le Arnaldo n.
2
I-25121 Brescia (IT)**

(54) **Space saving chair.**

(57) The present invention relates to a space saving chair made up of elements in a plastic material and in which the back (13) is made from a single piece which is applied to a pair of legs at the rear of the chair and can be kept separate for packing and transporting.



The present invention relates to chairs moulded in a plastic material, and in particular to a chair made up of elements which can be kept separate for packing and transporting in a reduced space.

The above mentioned type of chairs, not being as a single piece, can have a seat and at least one pair of legs which are detachable but the back is, however, integral to the other pair of legs, therefore not allowing for the desired reduction in its dimensions.

The present invention aims to supply a chair in which the back is also made from a single element, separable from the other components so as to reduce the dimensions of the chair as much as possible and therefore limit the size of packaging and minimize transporting and warehousing costs.

Another aim of the invention is to supply a chair made up of elements which are separable, easy to transport and simple and quick to assemble, even by the buyer, at the moment that the chair is to be used.

The here proposed chair is substantially in accordance with claim . It will however be described in further details with references to the attached drawings in which:

Fig. 1 is a prospective view of the elements of the chair separated from each other;

Fig. 2 is a side view to the assembled chair; and

Fig. 3 is a partial section view of the assembled chair in Fig. 2.

The chair has a first pair of legs (11, 11') joined together at the top by a crosspiece (11a), a second pair of legs (12, 12') also joined by a crosspiece (12a), a back (13) of the desired configuration and a seat (14). Said components are all obtained as separate elements and are subsequently assembled.

The two pairs of legs (11, 11'; 12, 12') are assembled by joining the relative crosspieces (11a, 12a) in an 'X' and fixing them to each other through a screw (15). Each pair of legs therefore has one leg (11, 12) at the front of the chair whilst the other leg (11', 12') is at the rear of the chair. At least the rear legs (11', 12') have a slot (16) at the top which is open in an upwards direction. The back (13) has two end pieces (13a) at the bottom which are designed to be inserted and pressure locked in said slots (16) of the rear legs during the assembling of the chair.

Finally, ears (17) are foreseen on the crosspieces (11a, 12a) which join the pairs of legs. The seat (14) is fixed to said ears (17) through screws (18) for the completion of the chair.

The legs (11, 11'; 12, 12'), the back (13) and the seat (14) can be kept separate alongside each other and packed so as to be of minimum dimensions, therefore requiring a reduced size of packaging and resulting in lower costs and easier transporting.

Subsequently, the chair can be assembled at any moment so as to obtain the final result.

The manufacturing procedure described above can be applied to any type of chair made in a plastic

material with the obvious advantage of simplifying and reducing the dimensions of the dies seeing that the back is obtained from a separate element from the legs.

5

Claims

1) A space saving chair made up of elements in a plastic material, characterized in that a back (13) made from a single element is applied to a pair of legs at the rear of the chair and that can be kept separate for packing and transporting.

2) A chair in accordance with claim 1, characterized in that there is a first pair of legs (11, 11') joined by a crosspiece (11a), a second pair of legs (12, 12') joined by a crosspiece (12a), a back (13) and a seat (14), in that said first and second pairs of legs are joined and fixed through a coupling and wedge between the relative crosspieces and in such a way that each pair is diagonal, with a leg at the front and one at the rear of the chair, in that said back (13) is coupled and fixed at the top of the rear legs, and in that said seat is applied and fixed on ears (17) integral to the crosspieces (11a, 12a) joining the pairs of legs.

30

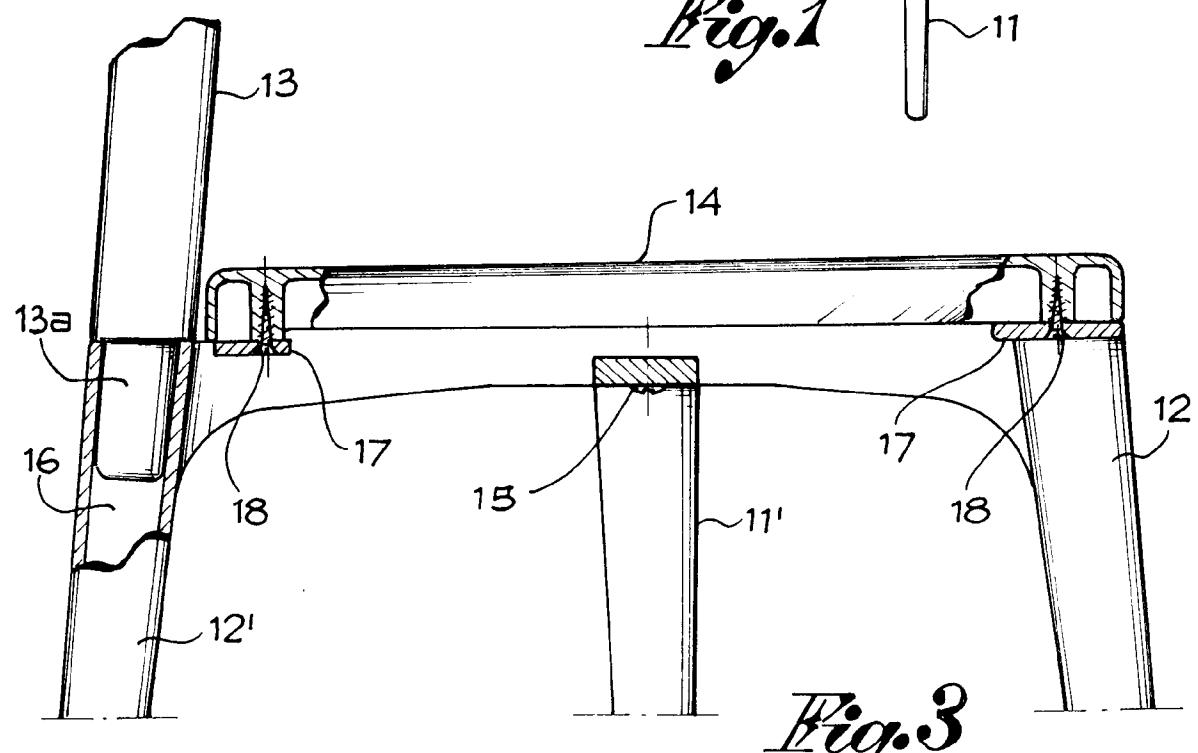
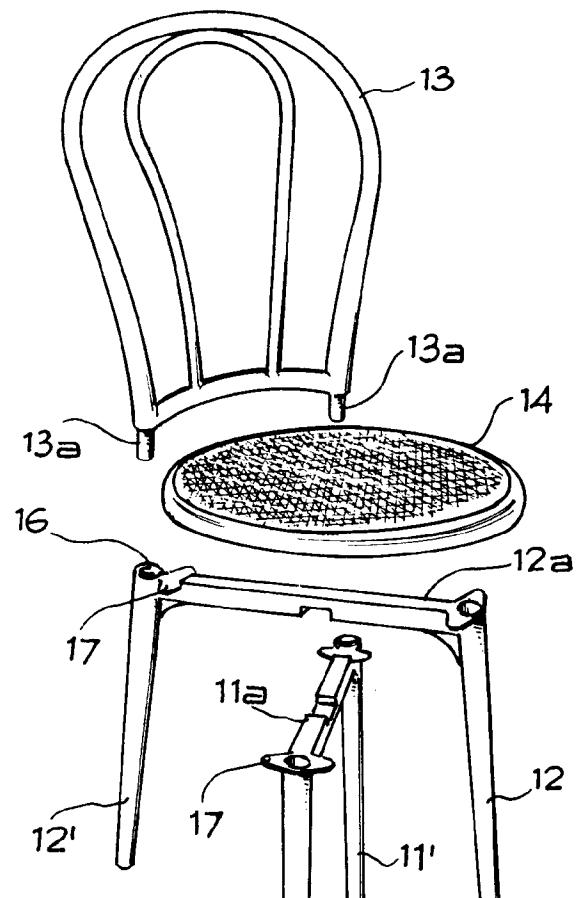
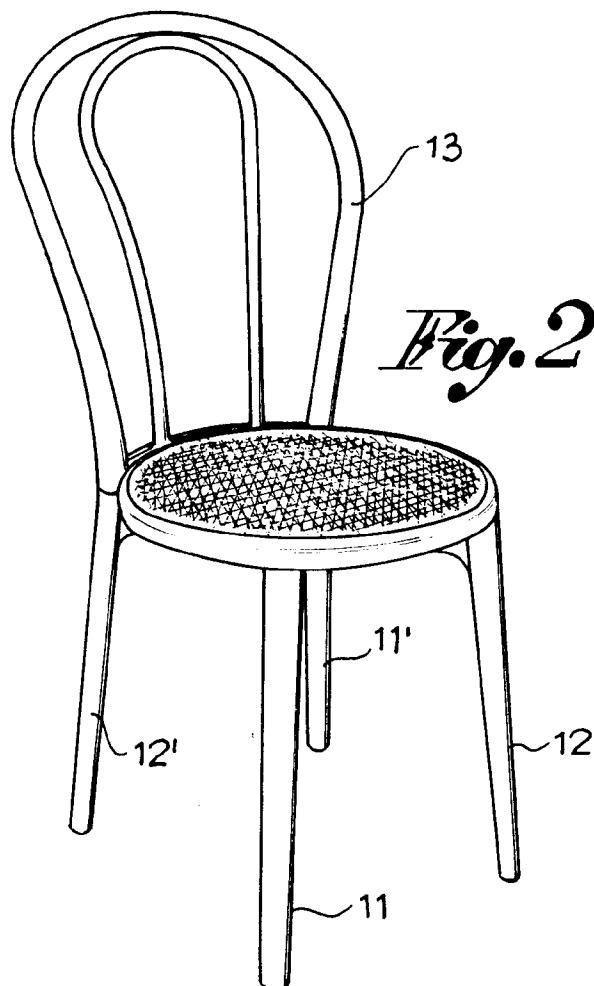
35

40

45

50

55





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 92 83 0070

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.5)
Y	US-A-1 744 799 (PROVISOR) * the whole document * ---	1,2	A47C5/12 A47C4/02
Y	US-A-3 455 605 (ANDERSON) * column 1, line 58 - line 65; figures 1,16 * ---	1,2	
A	US-A-4 974 906 (HINES) * figures 1-4,6 * -----	1,2	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			A47C
<p>The present search report has been drawn up for all claims</p>			
Place of search	Date of completion of the search		Examiner
THE HAGUE	08 MAY 1992		MYSLIWETZ W.P.
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			