



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 856 366 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
11.08.1999 Bulletin 1999/32

(51) Int. Cl.⁶: **B21D 1/12, B21D 1/06**

(43) Date of publication A2:
05.08.1998 Bulletin 1998/32

(21) Application number: **97121074.5**

(22) Date of filing: **01.12.1997**

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

(72) Inventors:
• **Maggi, Luciano**
54036 Marina di Carrara, Massa (IT)
• **Zeni, Dario**
54033 Carrara, Massa (IT)

(30) Priority: **05.12.1996 IT FI960149 U**

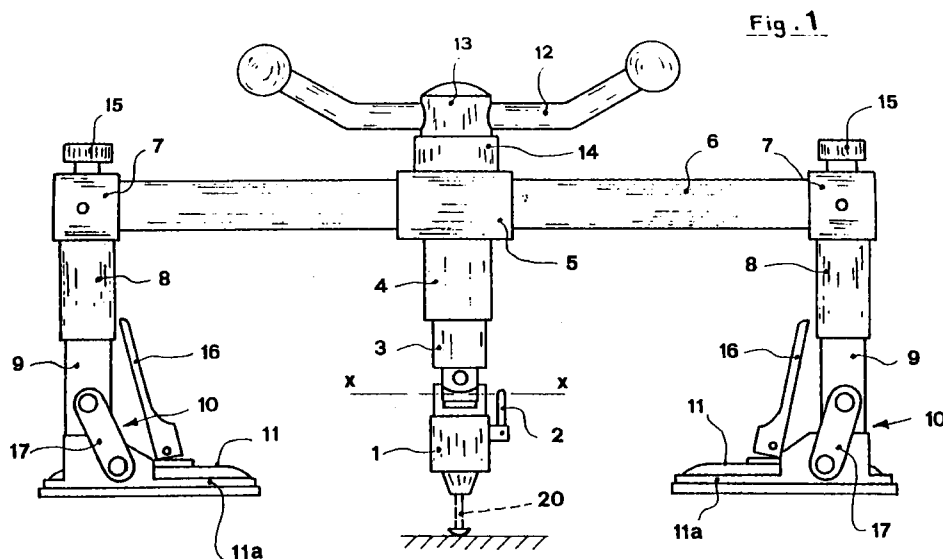
(74) Representative:
Modiano, Guido, Dr.-Ing. et al
Modiano & Associati SpA
Via Meravigli, 16
20123 Milano (IT)

(71) Applicant:
MB Autoattrezzature S.r.l.
40050 Centergross funo di Argelato (Bologna)
(IT)

(54) **Device for straightening dented vehicle body parts**

(57) A device for straightening dented parts of the surface of a vehicle body comprising axial grip means (1) for a metal stem (20) which is temporarily fixed to the dented part, the means being slideably mounted along a guide (6) which is substantially parallel to the surface

and is suitable to be temporarily rigidly coupled to the surface by virtue of fixing means (11). The grip means can be made to slide axially so as to apply a controlled traction or compression force to the surface.



EP 0 856 366 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 97 12 1074

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 4 930 335 A (ISHIHARA KOSEI) 5 June 1990 * the whole document * ---	1-3,5	B21D1/12 B21D1/06
X	DE 93 15 560 U (STORZ GMBH) 13 January 1994 * the whole document * ---	1-3,5	
A	US 4 026 139 A (GLASER MAX ET AL) 31 May 1977 * figures * ---	4	
P,X	EP 0 783 926 A (ISHIHARA KOSEI) 16 July 1997 * the whole document * -----	1-5	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B21D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 21 June 1999	Examiner Peeters, L
<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>			

EPO FORM 1503 03/82 (P04C01)

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

EP 97 12 1074

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.

21-06-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4930335 A	05-06-1990	NONE	
DE 9315560 U	13-01-1994	NONE	
US 4026139 A	31-05-1977	NONE	
EP 0783926 A	16-07-1997	JP 2855421 B	10-02-1999
		JP 9192742 A	29-07-1997
		CA 2194812 A	16-07-1997