



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 947 256 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
24.01.2001 Bulletin 2001/04

(51) Int. Cl.⁷: **B21D 3/05, B21F 1/02**

(43) Date of publication A2:
06.10.1999 Bulletin 1999/40

(21) Application number: **99105027.9**

(22) Date of filing: **22.03.1999**

(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

(72) Inventor: **Rupoli, Simone**
61032 Pesaro (IT)

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

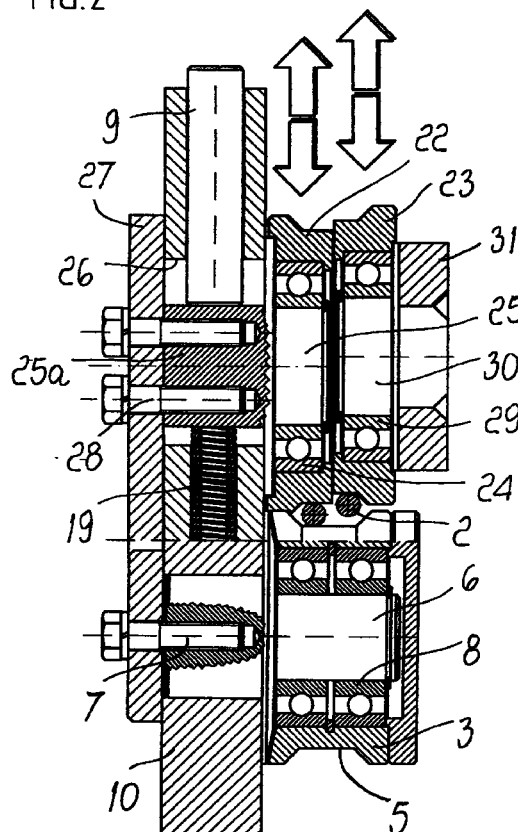
(30) Priority: **30.03.1998 IT BO980207**

(71) Applicant: **Schnell S.p.A.**
61032 Fano (Pesaro) (IT)

(54) **Method and apparatus for straightening metal profiled elements and the like**

(57) An apparatus for straightening metal profiled elements, particularly iron rods, comprising pairs of wheels (3,4) arranged in series, with parallel axes, on opposite sides with respect to a plane along which one or more side-by-side rods (2) to be straightened are fed. At an output region, the apparatus has a first split wheel (20) and a second split wheel (21), which are arranged in series and are adapted to cooperate with respective contrarotating wheels (3,4). Each one of the split wheels is constituted by at least a pair of wheels (22,23) arranged side by side which are adapted to be engaged respectively by the side-by-side rods (2) and are provided with an independent adjustment of the position of the axis in a direction which is perpendicular to the feed plane of the rods.

FIG.2



EP 0 947 256 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 10 5027

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)
A	EP 0 379 028 A (PIEGATRICI MACCH ELETTR) 25 July 1990 (1990-07-25) * column 5, line 16 - column 6, line 4; figures 4,5 *	1-3	B21D3/05 B21F1/02
A	US 5 520 039 A (ALBERT ECKEHARD) 28 May 1996 (1996-05-28) * the whole document *	4	
P,A	EP 0 864 387 A (SCHNELL SPA) 16 September 1998 (1998-09-16) * column 4, line 16 - line 28; figures 1,6 *	1-4	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B21D B21C B21F
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 23 November 2000	Examiner Ritter, 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 99 10 5027

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.

23-11-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0379028 A	25-07-1990	IT 1235174 B	23-06-1992
		CA 2007981 A	18-07-1990
		JP 2229620 A	12-09-1990
		US 5111677 A	12-05-1992
US 5520039 A	28-05-1996	DE 4311300 C	24-02-1994
		EP 0619154 A	12-10-1994
		ES 2105389 T	16-10-1997
EP 0864387 A	16-09-1998	IT B0970143 A	14-09-1998