(11) **EP 1 214 990 A3** 

(12)

## **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: 29.10.2003 Bulletin 2003/44

(51) Int CI.7: **B21D 3/10** 

- (43) Date of publication A2: 19.06.2002 Bulletin 2002/25
- (21) Application number: 01201470.0
- (22) Date of filing: 23.04.2001
- (84) Designated Contracting States:

  AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

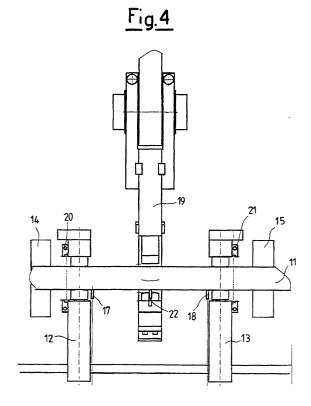
  MC NL PT SE TR

Designated Extension States:

AL LT LV MK RO SI

- (30) Priority: 15.12.2000 IT MI202720
- (71) Applicant: Cesare Galdabini S.p.A. 27029 Vigevano (Pavia) (IT)

- (72) Inventor: Galdabini, Luigi I-27029 Vigevano(Pavia) (IT)
- (74) Representative: Zanardo, Giovanni et al Ing. Barzanò & Zanardo Milano S.p.A., Via Borgonuovo 10 20121 Milan (IT)
- (54) Machine and process for straightening pieces of small cross section and great length
- (57) A machine (10) for straightening pieces of small cross section and great length, comprising supporting means of a piece (11) to be straightened, associated with a system of applying the force and a system for measuring and controlling the process, also providing a system for feeding and advancing said piece (11), where the system feeding the pieces (11) to be straightened provides two clamps (12, 13) acting on the piece (11) to be straightened, so as to move it to the various operating positions. It is also described a process of straightening pieces of small cross section and great length, performed by using the mentioned machine.



EP 1 214 990 A3



## **EUROPEAN SEARCH REPORT**

**Application Number** EP 01 20 1470

	DOCUMENTS CONSIDE	· · · · · · · · · · · · · · · · · · ·			
Category	Citation of document with indi of relevant passage		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
Х	EP 0 414 036 A (MAE APPARATEBAU GÖTZEN) 27 February 1991 (19 * the whole document	91-02-27)	1,2,5-8, 10-14	B21D3/10	
A	DE 23 28 111 A (LIND 19 December 1974 (19 * claims; figures 1-	74-12-19)	1,3,7-14		
A	DE 11 41 160 B (AERO 13 December 1962 (19 * column 3, line 23 figures 1-4 *	62-12-13)	1,7		
A		uary 1954 (1954-02-04)	1		
				TECHNICAL FIELDS SEARCHED (Int.CI.7)	
				B21D B21F	
	The present search report has been	<u>'</u>			
Place of search		Date of completion of the search 4 September 2003	Examiner Maritano I		
MUNICH  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 L E : earlier patent doou after the filing date D : document cited in t L : document cited for	T : theory or principle underlying the invention E : earlier patent document, but published on, or		

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

EP 01 20 1470

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.

04-09-2003

Patent docume cited in search re		Publication date		Patent family member(s)	Publication date
EP 0414036	A	27-02-1991	DE DE EP	3927465 A1 59001683 D1 0414036 A2	21-02-199 15-07-199 27-02-199
DE 2328111	Α	19-12-1974	DE	2328111 A1	19-12-197
DE 1141160	В	13-12-1962	NONE		
DE 903396	С	04-02-1954	NONE		
		o Official Journal of the E			