



Publication number : **0 445 081 A3**

EUROPEAN PATENT APPLICATION

Application number : **91830028.6**

Int. Cl.⁵ : **B21D 9/00, B21D 7/00,
B21D 7/024, B21D 9/07**

Date of filing : **31.01.91**

Priority : **02.03.90 IT 4771390**

Date of publication of application :
04.09.91 Bulletin 91/36

Designated Contracting States :
AT BE CH DE DK ES FR GB GR LI LU NL SE

Date of deferred publication of search report :
12.02.92 Bulletin 92/07

Applicant : **C.M.L. COSTRUZIONI
MECCANICHE LIRI S.r.l.
Via Pantanelle, 21
I-03030 Piedimonte San Germano (Frosinone)
(IT)**

Inventor : **Caporusso, Alessandro
Via Pantanelle 21
I-03030 Piedimonte S.Germano (Frosinone)
(IT)
Inventor : Caporusso, Mario
Via Pantanelle 21
03030 Piedimonte S. germano, Frosinone (IT)**

Representative : **Gristina, Giorgio
Studio Rag. GRISTINA Giorgio Via Po, 49
I-00198 Roma (IT)**

Pipe bending machine with cantilevered bending head, with interchangeable multifunction tool, and being programmable by means of a computerized unit.

Pipe bending machine including a bending head placed on an overhanging arm, a bending pulley with race, which is controlled by the final gear of a speed reducer powered by an electric motor, thus determining the pipe bending until 180° in cooperation with an engagement tooth installed on the pulley, and with an adjustable shoe pad, with a junction unit installed between the pulley and the speed reducer, thus consenting the quick interchangeability of the pulley and the connection, if any, with a complementary machine, and a computerized unit in order to have the operational programming of the above described machine.

EP 0 445 081 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 91 83 0028

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	DE-A-2 445 090 (AEROSPATIALE) * figures 1,2; positions 16,7; claim 1 *	1,2	B 21 D 9/00 B 21 D 7/00 B 21 D 7/024 B 21 D 9/07
Y	US-A-4 747 283 (MOORE) * claims 1-4; figure 3 *	1,2	
A	EP-A-0 350 457 (COSTRUZIONI MECCANICHE) * figures 1,3; position 70 *	2	
A	DE-C- 844 850 (KNIPP) * figure 1; position 5 *	1,3,4	
A	EP-A-0 041 432 (GATEAU INTERNATIONAL) * figure 1; positions 5,9,31 *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 21 D
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 07-11-1991	Examiner SCHLAITZ J
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			

EPO FORM 1503 03.82 (P0401)