



(19)

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 754 506 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
05.02.1997 Bulletin 1997/06

(51) Int. Cl.⁶: B21D 5/02

(43) Date of publication A2:
22.01.1997 Bulletin 1997/04

(21) Application number: 96201947.7

(22) Date of filing: 11.07.1996

(84) Designated Contracting States:
AT BE CH DE ES FR GB LI NL PT SE

(72) Inventor: Gianelli, Giuseppe Vittorio
20010 S. Pietro all'Olmo (MI) (IT)

(30) Priority: 17.07.1995 IT MI951546

(74) Representative: Arena, Giovanni
Viale Certosa 135
20151 Milano (IT)

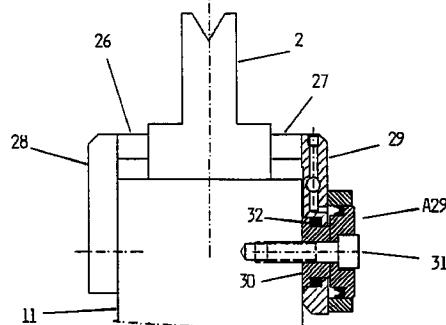
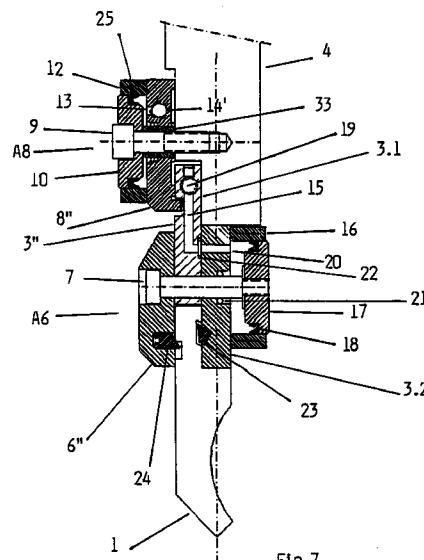
(71) Applicant: ABIEMME S.r.L.
29010 Rottofreno (PC) (IT)

(54) Compressed air system for clamping and unclamping cornice brake tools

(57) In the cornice brake are present rows of punches, dies and modular units constituting extensions of punches and clamping jaws for said punches and extensions.

The compressed air system is characterized in that:

- clamping of the jaws takes place through bolts put in tension by means of compressed air cylinder actuators;
- supply of the compressed air cylinders of the actuators takes place through ducts made inside the body of the jaws and/or said extensions and through tubes running between jaws and/or said extensions of each side-by-side pair; and
- the tubes running between said extensions are metal tubes with straight horizontal axis partly running between extensions of each side-by-side pair and partly inserted in cavities made in the sides of said extensions with the capability of airtight running within said cavities.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 96 20 1947

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	EP-A-0 446 810 (KOSMEK KK) 18 September 1991 * the whole document * ---	1-3	B21D5/02
A	US-A-4 612 796 (SMYTH JR DALE C) 23 September 1986 ---		
A	GB-A-2 057 047 (HAEMMERLE AG MASCHF) 25 March 1981 ---		
A	FR-A-2 609 909 (NORLANDER GORAN) 29 July 1988 ---		
A	FR-A-2 339 485 (COLLY PIERRE) 26 August 1977 -----		
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	11 December 1996	Peeters, L	
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			