

(19)



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(11)

EP 0 686 466 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
28.02.1996 Bulletin 1996/09

(51) Int. Cl.⁶: **B28D 1/00, B28D 1/04**

(43) Date of publication A2:
13.12.1995 Bulletin 1995/50

(21) Application number: **95102804.2**

(22) Date of filing: **27.02.1995**

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

(30) Priority: **17.03.1994 IT MO940036**

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(54) **Multiple discs machine for cutting granite blocks, hard stone and stone slabs in general and relative plant**

(57) The machine is equipped with a trolley (6), mobile with reciprocating motion on a bridge (5), carrying a horizontal shaft (A) with a cluster of diamond cutting disks (7) for vertical cutting, arranged with progressively increasing diameters from the smallest (8) to the largest (9); a second vertical shaft (B) is mounted on the said trolley and is equipped with a group (10) of disks cutting horizontally in the same plane slabs or offcuts, cut simul-

taneously from the block (1) by the said cluster and group during the working runs. The blocks are handled on carriages (2) which in turn are anchored under the machine with clamps, tie rods and plinths. The plant includes at least one facing machine (3) and one block cutting machine (36) with separate access points and division of the enclosures with soundproofing.

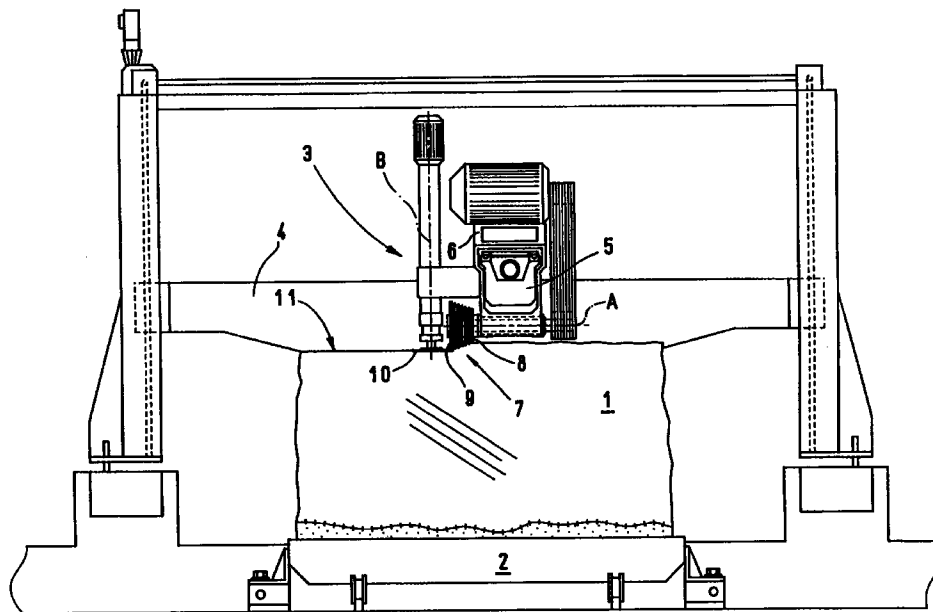


FIG. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 95 10 2804

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	DE-A-20 50 856 (E. MÜHLENBERG)	6	B28D1/00
A	* page 3, line 16 - page 4, line 5 *	1	B28D1/04
	* figures 1,2 *		

X	DE-A-38 07 136 (FA. URSULA SCHIEDEL)	6	
	* column 2, line 25 - line 37 *		
	* figure 6 *		

Y	DE-A-29 13 850 (EISENWERK HENSEL BAYREUTH DIPL.-ING BURKHARDT GMBH)	5	
	* page 5, line 1 - line 6 *		
	* figure 2 *		

Y	FR-A-2 480 666 (C. MOGAVERO)	5	
	* the whole document, in particular claims 1,2 *		

A	US-A-3 547 096 (A. RONZANI)	1,2,7	
	* column 3, line 47 - line 57 *		
	* figures 11,12 *		
	& FR-A-1 454 689 (SECOBLITZ INDUSTRIA MECCANICA SPA)		

A	GB-A-487 533 (O.W. BURKHARDT)	1,2,7	B28D B23D B27B B24B
	* page 2, line 24 - line 53 *		
	* figures 1,2 *		

A	CH-A-163 619 (E. FREI)	7	
	* page 2, left column, line 10 - line 18 *		
	* figures 1-3 *		

A	IT-A-1 147 547 (GREGORI SPA)		

A	FR-A-2 467 069 (C. LAINE)		

A	DE-C-818 764 (O.W. BURKHARDT)		

A	FR-A-2 578 481 (SARL CEMERA)		

The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 7 December 1995	Examiner Moet, H
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 03.92 (P04C01)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions.

namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1-4,6,7: A multiple disk machine for cutting granite blocks having a horizontal shaft carrying a cluster of cutting disks having a gradually increasing diameter and having a vertical shaft carrying a cutting disk for cutting of slabs. A diamond cutting disk cluster with cutting disks having increasing diameter. A group of diamond disk cutting tools with vertical axis
2. Claim 5 : A plant for cutting blocks including several machines, provided with means for transporting the blocks and sound-proof working areas