



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 110 689 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
18.12.2002 Bulletin 2002/51

(51) Int Cl.7: **B28B 13/02, B30B 15/30**

(43) Date of publication A2:
27.06.2001 Bulletin 2001/26

(21) Application number: **00204556.5**

(22) Date of filing: **15.12.2000**

(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

(72) Inventor: **Marazzi, Filippo**
41050 Colombaro (Modena) (IT)

(74) Representative: **Faraggiana, Vittorio, Dr. Ing.**
Ingg. Guzzi & Ravizza S.r.l.
Via Vincenzo Monti 8
20123 Milano (IT)

(30) Priority: **21.12.1999 IT MI990771 U**

(71) Applicant: **Marazzi Gruppo Ceramiche S.p.A.**
40123 Bologna (IT)

(54) **Tile press equipped with improved charging device**

(57) Tile pressing press comprising a pressing mold into which a charging device (14,114) dumps powder to be pressed. The charging device (14,114) comprises in turn a charging box (18,118) having a bottom (37,137) opening on command and running between a charging position outside the press and a position for dumping into the mold within the press. The box in its charging

position is near means (15,16,17,115,116,117) of input therein of powder to be pressed and the box bottom in its dumping position is opened to dump the powder into the mold. In one embodiment the box bottom is made with a plurality of parallel plates (37) rotting on command between a smooth closed position and an inclined dumping position. In another embodiment the opening bottom is made with a running gate (137).

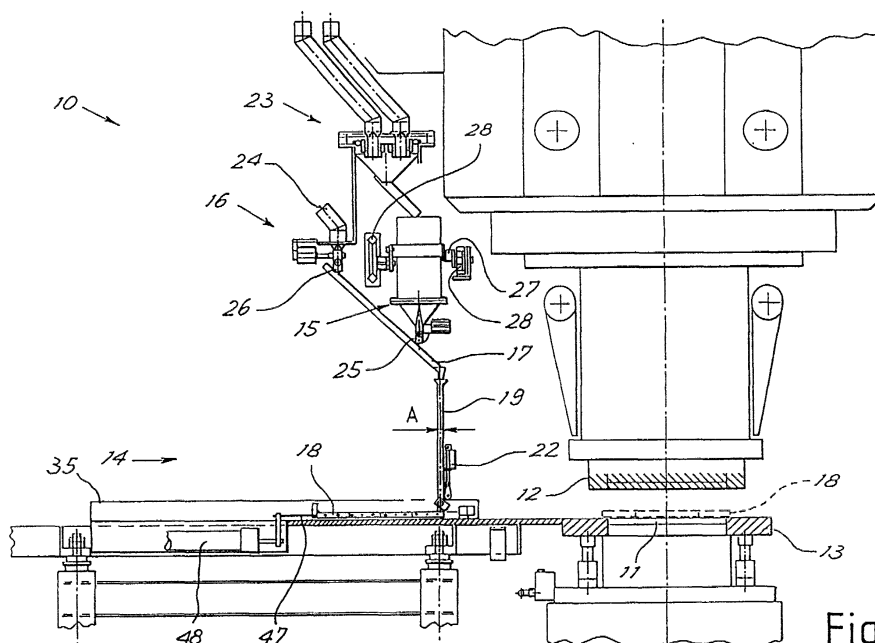


Fig. 1

EP 1 110 689 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 20 4556

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.7)
X	DE 11 83 001 B (PAUL BOEHRINGER MASCHINENFABRI) 3 December 1964 (1964-12-03) * claims; figures *	1-3	B28B13/02 B30B15/30
Y	----	5,6	
Y	EP 0 962 294 A (IRIS CERAMICA SPA ;ARIOSTEA S P A (IT)) 8 December 1999 (1999-12-08) * abstract; figures *	5,6	
X	DE 69 02 613 U (FIRMA BÖHRINGER & CO) 22 May 1969 (1969-05-22) * claims; figures *	1-3	
X	DE 195 41 281 C (ZENITH MASCHF GMBH) 27 February 1997 (1997-02-27) * abstract; figures *	1,2	
A	DE 85 01 856 U (PASSAVANT-WERKE AG & CO KG) 30 May 1985 (1985-05-30) * claims; figures *	1	
A	EP 0 839 618 A (LB OFFICINE MECCANICHE SPA) 6 May 1998 (1998-05-06) * abstract; figures *	1,5,6	B28B B30B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 31 October 2002	Examiner Bel1be1, C
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 (P4/C01)

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

EP 00 20 4556

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.

31-10-2002

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
DE 1183001	B	03-12-1964	NONE		
EP 0962294	A	08-12-1999	IT	RE980062 A1	02-12-1999
			EP	0962294 A2	08-12-1999
DE 6902613	U	22-05-1969	NONE		
DE 19541281	C	27-02-1997	DE	19541281 C1	27-02-1997
DE 8501856	U	30-05-1985	DE	8501856 U1	30-05-1985
EP 0839618	A	06-05-1998	IT	RE960084 A1	29-04-1998
			DE	69714944 D1	02-10-2002
			EP	0839618 A1	06-05-1998