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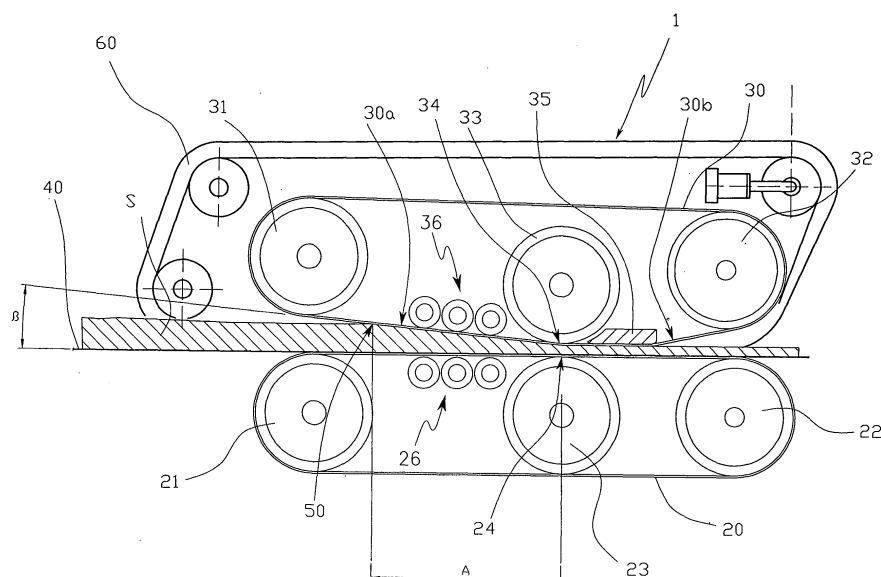
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(54) **System for compacting ceramic powders for forming slabs using a belt**

(57) A system (1) for compacting ceramic powders for forming slabs using a belt comprising:
- a conveyor belt (40) on which a continuous strip (S) of powdered ceramic material is created;
- a first bottom compacting belt (20) arranged in contact with the conveyor belt (40) and below it;

- a second top compacting belt (30) cooperating with said first belt (20) and having a first receiving portion (30a) having an inclination (β) with respect to the direction in which the powders (S) advance, and a second expansion portion (30b), where the length (A) of the portion of powder (S) involved at the instant of compacting is between 2 and 28 times the thickness of the powders (S).



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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X,D	EP 1 356 909 A (SACMI COOPERATIVA MECCANICI IMOLA SOCIETA' COOPERATIVA; SACMI COOPERAT) 29 October 2003 (2003-10-29)	1,4	INV. B28B3/12 B28B3/00 B30B5/06
Y	* claim 10; figures * * page 3, column 3, paragraphs 26,27 * -----	2,3,5,6	
A	EP 1 226 927 A (EVOLUZIONI DI MAURO COMASTRI) 31 July 2002 (2002-07-31)	1-4	
Y	* pages 2-3, columns 2-3, paragraph 16 * * page 3, column 3, paragraph 20 * * page 4, columns 5-6, paragraph 33 * * figures * -----	2,3	
A	US 5 454 304 A (BIELEFELDT ET AL) 3 October 1995 (1995-10-03)	1,2	
Y	* column 3, lines 42-54 * * column 4, lines 34-41 * -----	5,6	
A	PATENT ABSTRACTS OF JAPAN vol. 016, no. 507 (M-1327), 20 October 1992 (1992-10-20) & JP 04 187706 A (NISSHIN STEEL CO LTD), 6 July 1992 (1992-07-06) * abstract; figures * -----	1,5,6	TECHNICAL FIELDS SEARCHED (IPC) B30B B22F B28B B27N
A	US 4 325 686 A (LEON ET AL) 20 April 1982 (1982-04-20) * column 6, lines 46-49 * * column 8, lines 39-41 * -----	1,5,6	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 1 September 2006	Examiner Labre, A
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	

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

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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.

01-09-2006

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1356909	A	29-10-2003	BR 0300939 A	08-06-2004
			CN 1453110 A	05-11-2003
			IT RE20020035 A1	24-10-2003
			MX PA03003502 A	14-02-2005

EP 1226927	A	31-07-2002	IT MI20010153 A1	29-07-2002

US 5454304	A	03-10-1995	NONE	

JP 04187706	A	06-07-1992	NONE	

US 4325686	A	20-04-1982	AR 227447 A1	29-10-1982
			AU 547713 B2	31-10-1985
			AU 7795181 A	03-06-1982
			BE 891279 A1	16-03-1982
			BR 8107498 A	10-08-1982
			CA 1165981 A1	24-04-1984
			DD 202248 A5	07-09-1983
			DE 3146156 A1	19-08-1982
			DK 526881 A	29-05-1982
			ES 8205574 A1	01-11-1982
			FR 2495014 A1	04-06-1982
			GB 2088276 A	09-06-1982
			IE 52226 B1	19-08-1987
			IT 1146720 B	19-11-1986
			JP 1654150 C	13-04-1992
			JP 3018997 B	13-03-1991
			JP 57118900 A	23-07-1982
			LU 83791 A1	07-05-1982
			NL 8105383 A	16-06-1982
			PL 234003 A1	21-06-1982
			PT 74041 A	01-12-1981
