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(54) **Perfecting milling drum for scarifier machines**

(57) The invention realises a milling drum (1; 100; 200) for scarifier machines which comprises a plurality of annular elements (4, 5) coaxially arranged outside a core (2) connected with the driving shaft of the scarifier machine, supplied with operating protruding elements (6) arranged like a spiral and suitable for shuttering the soil to remove. Said annular elements comprise at least two ending annular elements (3) realised one - piece and one or more intermediate annular elements (4, 5) in between said ending annular elements (3), where at least one (4) of said one or more intermediate annular elements is formed of at least two shells (41) supplied at the ends with radial flanges (411) opposable among them which are united by fastening means (412) in order to render these annular elements (4, 5, 3) integral among them and with said core (2).

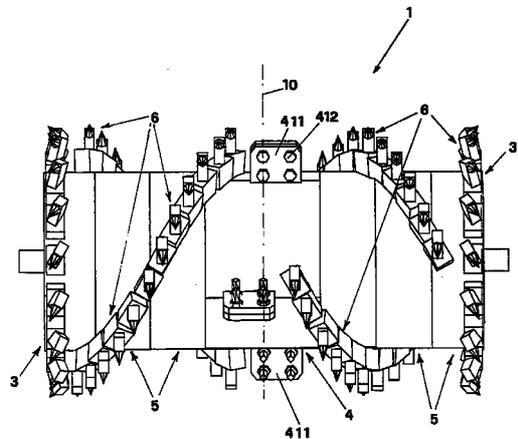


FIG.1

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EUROPEAN SEARCH REPORT

Application Number
EP 98 10 6304

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)
A	EP 0 694 651 A (WIRTGEN GMBH) 31 January 1996 * column 11, line 10 - column 12, line 54; figures 11,12 * ---	1-10	E01C23/088 B28D1/18
A	US 4 720 207 A (C. RANJAN SALANI) 19 January 1988 * abstract; figures 2-4 * ---	1-10	
A,D	EP 0 735 192 A (BITELLI SPA) 2 October 1996 * abstract; figures 2-8 * -----	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6) E01C B28D
Place of search BERLIN		Date of completion of the search 15 June 1999	Examiner Cuny, J-M
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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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 694651 A	31-01-1996	US 5505598 A US 5722789 A	09-04-1996 03-03-1998
US 4720207 A	19-01-1988	NONE	
EP 735192 A	02-10-1996	IT VI950053 A	30-09-1996