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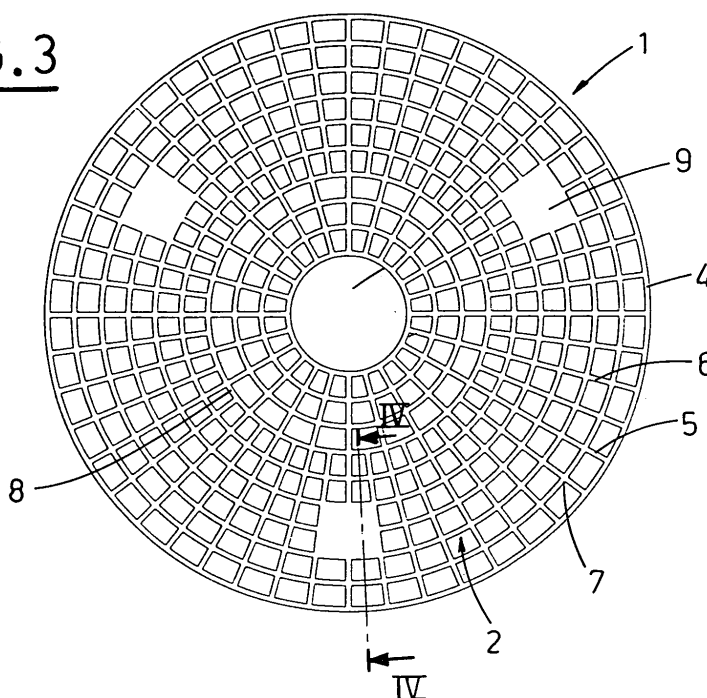
(54) **Reinforcing frame for abrasive discs**

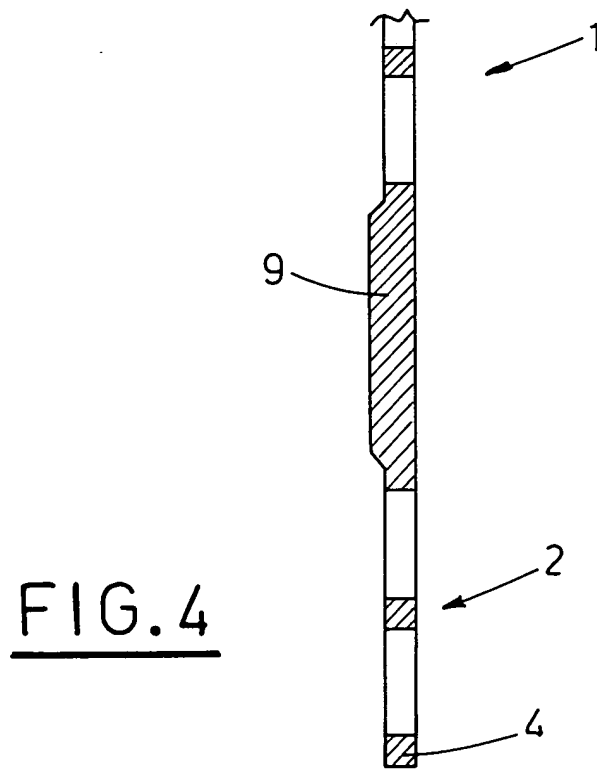
(57) The frame for abrasive discs includes a one-piece gridlike structure, obtained by molding of a material which can be molded by injection.

The frame (1) includes a plurality of concentric and substantially thread-like circumferential elements (2), which are disposed, at predefined distances one from another, between an inner edge circumferential element

(3) and an outer edge circumferential element of the (4). The frame (1) includes also a plurality of radial elements (5,6), substantially thread-like and extending for predetermined lengths and with predetermined angular distances. Each of said radial elements (5,6) is connected to at least a part of the circumferential elements (2) in the region of relative intersection points (7).

FIG.3







European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 03 02 8542

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	FR 2 040 854 A (GALLIA ETS) 22 January 1971 (1971-01-22) * page 2, line 12 - line 27; figures 1,2 * -----	1-8	B24D5/04 B24D5/08 B24D7/04 B24D7/08
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B24D
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 1 April 2005	Examiner Eschbach, D
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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

EP 03 02 8542

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
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 2040854 A	22-01-1971	FR 2040854 A5	22-01-1971

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82