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## **EUROPEAN PATENT APPLICATION**

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(84) Designated Contracting States: AT BE CH DE FR IT LI LU NL SE (71) Applicant: Lancaster Glass Fibre Limited 33 Europa Way Lune Industrial Estate Lancaster Lancashire LA1 5QP(GB)

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(54) Improvements in or relating to inserts for silencers.

57) An insert (10) for use in an internal combustion engine silencer consisting of a central cylindrical former, an outer portion surrounding the former formed of a fibrous material in which the fibres are heat resistant such as basalt fibres, and an outer covering of sheet or scrim material (44) for retaining the fibrous material of the outer portion in position relatively to the former. The insert (10) is formed by inserting a length of the fibrous material loosely around the former placing the fibrous material and former into a loop (34) of an endless belt (32), applying tension thereto and rotating the endless belt to roll the fibrous material around the former and an outer covering of sheet or scrim material (44) is wrapped around the rolled insert to retain the shape thereof.

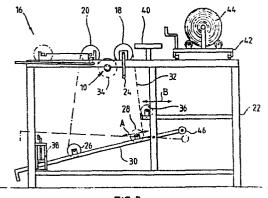


FIG. 3.



## **EUROPEAN SEARCH REPORT**

Application number

EP 82 30 4500

	DOCUMENTS CONSI	DERED TO BE RE	LEVANT			
Category		indication, where appropriate, int passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)	
х	GB-A-2 065 596 THE APPLICANT) * Whole document	`	OF	1-8,9- 12,14, 16	F 01 N B 65 H	
х	GB-A-1 503 644  * Claims; figur 101-108; page 116-126 *	es; page 3,	lines	9-12, 14		
х	US-A-2 471 595 * Column 5, li 6, lines 1-60 *	- (WHITE) nes 70-75; c	olumn	9-11		
A	CB-A- 841 828 * Page 2, lin lines 12-39 *	•		1,2,6, 7	TECHNICAL SEARCHED	
A	DE-A-2 827 237 KOGYO) * Page 7, line 8	•	į	1-8,14 ,15	F 01 N B 65 H D 04 H	
A	GB-A- 447 376 SERVAIS)	 (NORMAN HASI	ING			
A	DE-A-2 649 979	(METZGER)				
		<b>.</b>	/ eu			
	The present search report has b	een drawn up for all claims	· · · · · · · · · · · · · · · · · · ·			
	Place of search THE HAGUE	Date of completion 17-01-1	of the search 1984	D HUI	Examiner LSTER E.W	.F.
Y: #	CATEGORY OF CITED DOCL particularly relevant if taken alone particularly relevant if combined we document of the same category technological background non-written disclosure intermediate document	vith another D	earlier pate after the fill document of document	int document ing date cited in the ap cited for othe	rlying the inventi , but published o opilication r reasons ent family, corre	n, or



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Application number

EP 82 30 4500

	DOCUMENTS CONS	Page 2			
Category	Citation of document with indication, where appropriate, of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)	
A	GB-A- 704 329 ENGINEERING)	(LATHOM			
A	US-A-2 834 425	(RAWSON)			
A	US-A-2 583 366	(ENGELS)			
A	FR-A-1 461 528	(FRANCISOL)			
				•	
				TECHNICAL FIELDS	
				SEARCHED (Int. Cl. 3)	
	The present search report has b	een drawn up for all claims			
	Place of search THE HAGUE	Date of completion of the search 17-01-1984	tion of the search Examiner D HULSTER E.W.F.		
X : pa Y : pa do A : ter	CATEGORY OF CITED DOCL articularly relevant if taken alone articularly relevant if combined we becoment of the same category chnological background on-written disclosure	****		lying the invention but published on, or plication reasons ant family, corresponding	