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STEVENS, HEWLETT & PERKINS 5 Quality Court
Chancery Lane
London WC2A 1HZ(GB)(54) **Internally cooled flexible exhaust valve.**

(57) A flexible exhaust valve capable of conforming to a valve seat slightly out-of-round is disclosed. This valve, which includes internal cooling, will produce an excellent exhaust seal when used in combination with an exhaust valve seat that is machined round within about .001 inches. The improved seal is expected to reduce emissions of unburned hydrocarbon and improve engine life.

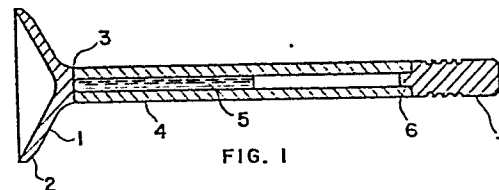


FIG. 1



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EUROPEAN SEARCH REPORT

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Application number

EP 83 30 4604

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. 3)
X	MACHINE DESIGN, vol. 37, no. 4, 18th February 1965, page 190, Cleveland, USA;	1	F 01 L 3/14
Y	--- DE-B-1 188 864 (MAN) * Column 1, lines 1-36 *	1	
Y	--- DE-A-2 727 006 (KHD) * Page 7, paragraphs 1,2 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
			F 01 L
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 19-10-1984	Examiner WASSENAAR G.
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	