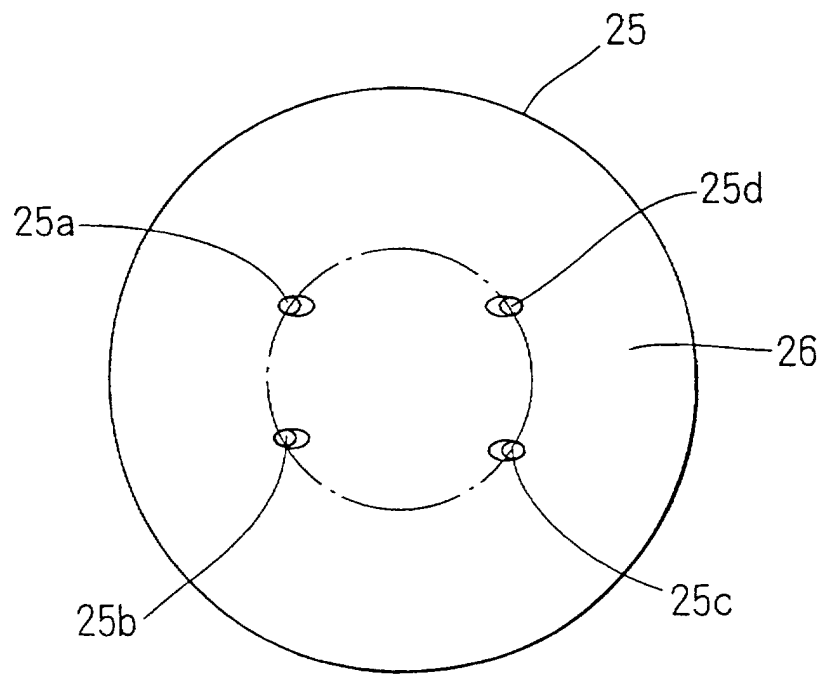


FIG. 1B





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EUROPEAN SEARCH REPORT

Application Number
EP 01 10 4258

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
E	US 2002/038825 A1 (TAKENOUCI SHOUICHI ET AL) 4 April 2002 (2002-04-04) * paragraph [0037] - paragraph [0057] * * paragraph [0075] - paragraph [0076]; figures 2,3A-4B,12A-B *	1-7,9	F02M61/18
X	DE 199 13 317 A (DENSO CORP) 30 September 1999 (1999-09-30) * column 4, line 1 - line 16 * * column 10, line 46 - column 11, line 62; figures 2,9-12 *	1-6	
X	US 5 540 200 A (IIYAMA AKIHIRO ET AL) 30 July 1996 (1996-07-30) * column 8, line 3 - line 24 * * column 11, line 65 - column 12, line 67; figures 1,11,12,29-32 *	1-4,6,7	
D,A	EP 0 740 071 A (NIPPON DENSO CO) 30 October 1996 (1996-10-30)		
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F02M
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 24 October 2003	Examiner Godrie, P
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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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-9



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LACK OF UNITY OF INVENTION
SHEET B

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-9

A fluid injection valve with an injection port plate having
a tapered inclined injection port

2. claims: 10-13

A fuel injection valve with an injection port plate
comprising an inclined injection port having a cross-section
forming a half moon shape

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

EP 01 10 4258

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.

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