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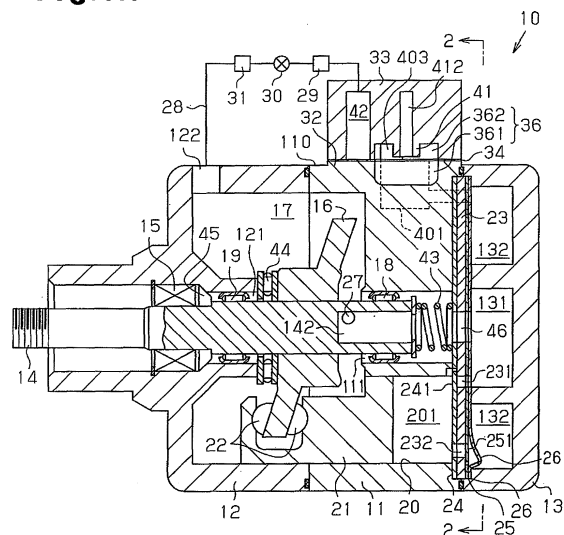
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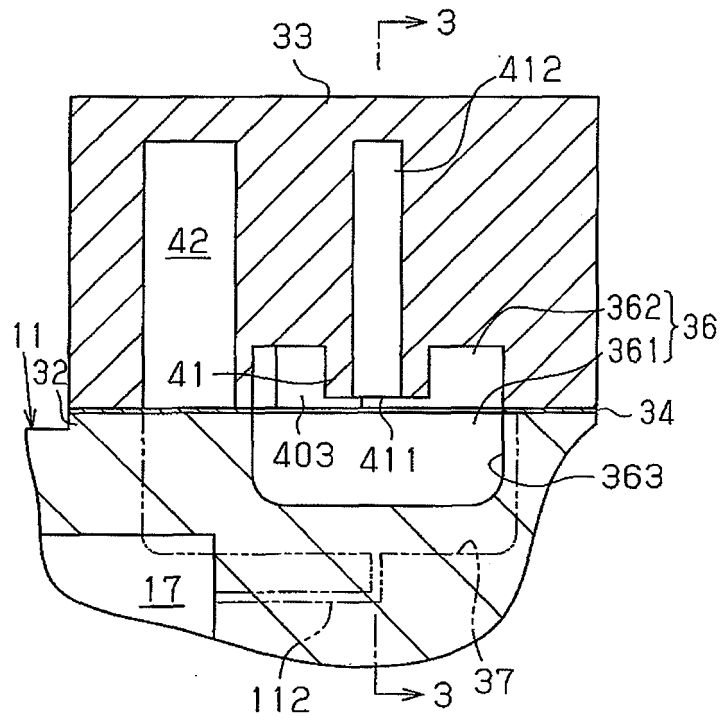
(54) **Oil separation structure in compressor**

(57) A muffler forming member (33) defines a muffler chamber (42). Refrigerant discharged from a cylinder bore (20) is sent to the muffler chamber (42). The muffler forming member (33) is coupled to a circumferential surface (110) of a housing (11) of a compressor (10). An oil separation chamber (36) is defined in a discharge pressure zone (132, 40, 36, 42) of the compressor (10). The oil separation chamber (36) separates the oil from the refrigerant discharged from the cylinder bore (20). The oil separation chamber (36) extends into both the muffler forming member (33) and the housing (11). The oil separation chamber (36) has a refrigerant inlet (403) through which the refrigerant flows into the oil separation chamber (36). The refrigerant inlet (403) is formed in the muffler forming member (33). Therefore, the oil separation chamber (36) is prolonged in the direction from the muffler forming member toward the housing (11), thereby improving the oil separation performance (Fig. 3).

**Fig.1A**



**Fig.1B**





## EUROPEAN SEARCH REPORT

Application Number  
EP 07 10 0878

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			TECHNICAL FIELDS SEARCHED (IPC)
			F04B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 17 December 2010	Examiner Pinna, Stefano
<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 &amp; : member of the same patent family, corresponding document</p>			

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EPO FORM 1503 03/02 (P04C01)

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

EP 07 10 0878

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