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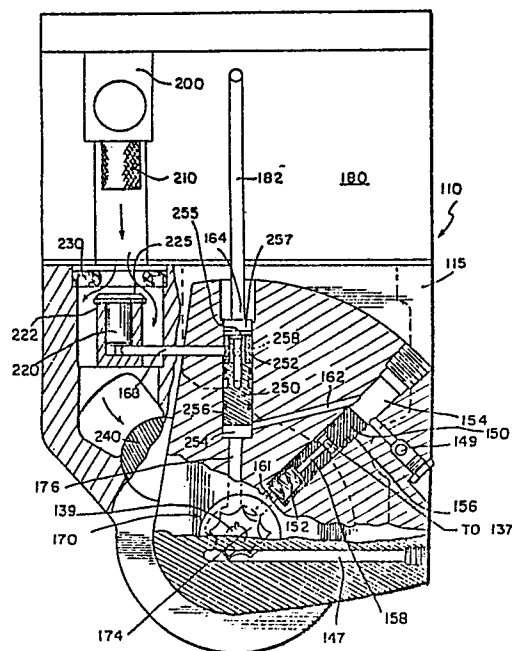
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54 **Antisuckback device for rotary piston pumps.**

57 A rotary piston vacuum pump (110) is provided with an oil pump (170) in the lubricating oil circuit, a pressure relief vent connected to the pumping chamber from a higher pressure source, and biased valve (250) connected between the oil pump (170) and the oil circuit as well as between the pressure relief vent and the first pumping chamber (20) for controlling the flow of oil and pressure, respectively. The oil pump (170) pressurizes the oil in the oil lubrication circuit as a function of vacuum pump operation. The valve (250) is responsive to the oil pressure created by the oil pump (170). The valve is actuated to maintain the free flow of oil from the oil pump to the oil circuit when the pump is operating. When the pump is shut-off, the bias of the valve shuts off the flow of oil through the oil circuit and opens the connection between the pressure relief vent and the first pumping chamber (20) to increase the pressure in the latter such that lubricating oil is not drawn into that pumping chamber. This increased pressure from the pressure relief vent actuates an inlet shut-off valve which isolates the first pressure chamber from the inlet to the operating chamber.





DOCUMENTS CONSIDERED TO BE RELEVANT			EP 85106168.9
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y	US - A - 3 057 546 (POWER et al.) * Totality * --	1-3	F 04 C 29/02 F 04 C 29/08
Y	DD - A - 131 487 (VEB MLW LABOR- TECHNIK ILMENAU) * Totality * --	1-3	
A	DE - A - 1 428 236 (S.A.E.M.A.) * Totality; especially numerals 17,18 * --	1	
A	DE - A1 - 3 033 082 (LEYBOLD-HERA- EUS GMBH) * Totality * ----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			F 04 C 29/00
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 09-12-1985	Examiner PIPPAN
<b>CATEGORY OF CITED DOCUMENTS</b>			
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	