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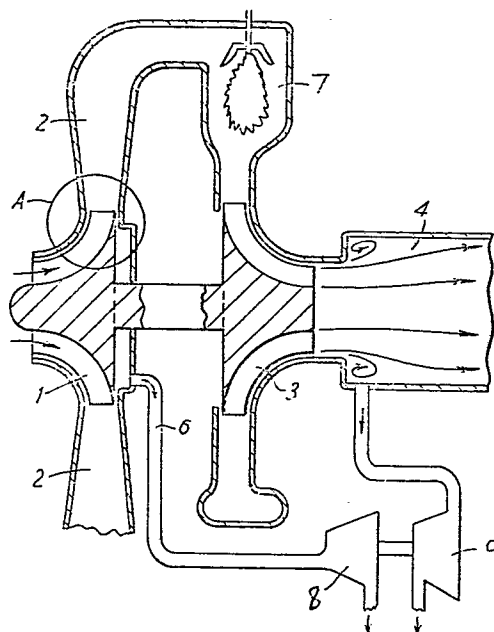
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Method of bleeding off working fluid in turbo-machines, and turbo-machines with bleed-off means.

In a turbo-machine comprising a compressor (1) including a labyrinth seal (5) and a turbine (3) including an exhaust gas diffuser (4), air leaking through the labyrinth seal (5) of the compressor (1) is bled off and used as a driving medium for removing exhaust gas from boundary layers or vortex flows in the exhaust gas diffuser (4). Since the pressure of the exhaust gas to be removed from the exhaust gas diffuser (4) is below the ambient pressure, suction has to be established to remove the desired gas from the boundary layers or vortex flows. This suction is established by an ejector or a pump (9) which is driven by the energy of the compressed leakage air bled from the compressor (1). Such a pump (9) may be driven by a turbine (8) driven by the leakage air.



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EUROPEAN SEARCH REPORT

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Application number

EP 82 30 5243

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)
A	US-A-3 109 285 (SMITH) * Column 1, lines 67-72; column 2, lines 1-20 *	1	F 04 D 27/02 F 04 D 25/04
A,D	--- US-A-3 856 430 (LANGHAM)		
A,D	--- FR-A-1 199 042 (BERTIN) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			F 04 D F 02 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 20-06-1983	Examiner WOOD R.S.
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	