

Title (en)  
MULTI-STAGE SIDE CHANNEL COMPRESSOR

Publication  
**EP 0344516 B1 19910717 (DE)**

Application  
**EP 89108883 A 19890517**

Priority  
DE 3818374 A 19880530

Abstract (en)  
[origin: US4943208A] The invention relates to a multi-stage lateral channel compressor, wherein the housings of the individual compressor stages consisting of individual housing shells are arranged axially, one behind the other, and are mechanically interconnected, wherein, in addition, a common driving shaft is provided for the impellers of the individual compressor stages, and a coolant is provided in the interspace which exists between the housings of the individual compressor stages. An intensive cooling is thereby achieved, in that the interspace is sealed both from the outside and also against the driving shaft, an inlet and an outlet orifice are each assigned to the interspace and a liquid coolant, which flows through the interspace, is supplied and evacuated by way of these orifices.

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