

Title (en)  
REGENERATIVE COMPRESSOR.

Title (de)  
SEITENKANALVERDICHTER.

Title (fr)  
COMPRESSEUR REGENERATIF.

Publication  
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Application  
**EP 92905634 A 19920302**

Priority  
• DE 9200167 W 19920302  
• DE 4108769 A 19910318

Abstract (en)  
[origin: WO9216752A1] A regenerative compressor has a housing in which an impeller (6) rotates. The impeller has a supporting ring (7) fitted with blades (8) and is connected by a wall section (9) to a hub element (10) which can be placed on a drive shaft (5). The wall section (9) forms one lateral boundary wall of the impeller (6) and its axial thickness is less than the axial width of the impeller (6). The other boundary wall of the impeller is formed by an annular cover part (14) secured to the impeller. The cover part extends along at least a partial region between the supporting ring (7) and the hub element (10) and its rim is applied to a corner recess (17) of the supporting ring (7). The compressor also has rectilinear sealing gaps (13 and 23) which extend linearly along their whole length between the boundary walls of the impeller (6) and the walls (12 and 22) of the housing. To simplify the assembly of the cover part, the cover part (14) extends over the whole region between supporting ring (7) and hub element (10) and is clamped axially against the supporting ring (7) and against the hub element (10).

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**F04D 23/00**

IPC 8 full level  
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