

Title (en)

Flow machine for gas compression.

Title (de)

Strömungsmaschine zur Gasverdichtung.

Title (fr)

Machine à courant pour la compression d'un gaz.

Publication

**EP 0567874 B1 19950906 (DE)**

Application

**EP 93106279 A 19930417**

Priority

- DE 4213765 A 19920427
- DE 4230770 A 19920915

Abstract (en)

[origin: EP0567874A1] A flow machine (fluid kinetic machine) is demonstrated and described which has a centrifugal compressor having radial blades (4) and feeding a side-channel compressor which is arranged at its perimeter and has forward-curved blades (5). In order to increase the efficiency it is provided that, in the case of the machine being designed as a gas compression machine, the forward-curved blades (5) and the radial blades (4) have opposite curvatures in each case, that the forward-curved blades (5) and the radial blades (4) in their transition zones (23) have a curvature point of inflection, and that the blades (4, 5) in the transition zone (23) are inclined, by an angle (b) of equal magnitude and less than 30 DEG , e.g. of 15 DEG , with respect to the circumferential tangent (T) at the transition zone (23). <IMAGE>

IPC 1-7

**F04D 25/16**; **F04D 23/00**

IPC 8 full level

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CPC (source: EP US)

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