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(54) **Rotary sliding-vane air compressor**

(57) 1. A rotary sliding-vane compressor comprising:

- a longitudinally extended cylindrical stator (3) having an internal cylindrical surface defining a compression chamber (7); a longitudinally extended cylindrical rotor (9) eccentrically inserted in said stator (3), said rotor (9) having a series of radial grooves (11) which extend longitudinally to the rotor (9); and a series of longitudinally extended radial vanes (13), each vane (13) having an apex and a base of the vane (13) and being radially slidable in one corresponding groove (11) of the rotor (9) between a radially retracted position and a radially extended position; at the radially extended position each vane (13) coming into contact with the internal cylindrical surface of the stator (3) along a longitudinal contact generatrix (23) separating two compression zones (19m, 19v) of said compression chamber (7) with different pressure, the compression zone (19m) with lower pressure being in fluid communication with a space (27) between the base (25) of the vane (13) and the groove (11) wherein the vane (13)

slides; characterised in that the apex of each vane (13) provides a nose (30) projecting into the compression zone with higher pressure (19v).

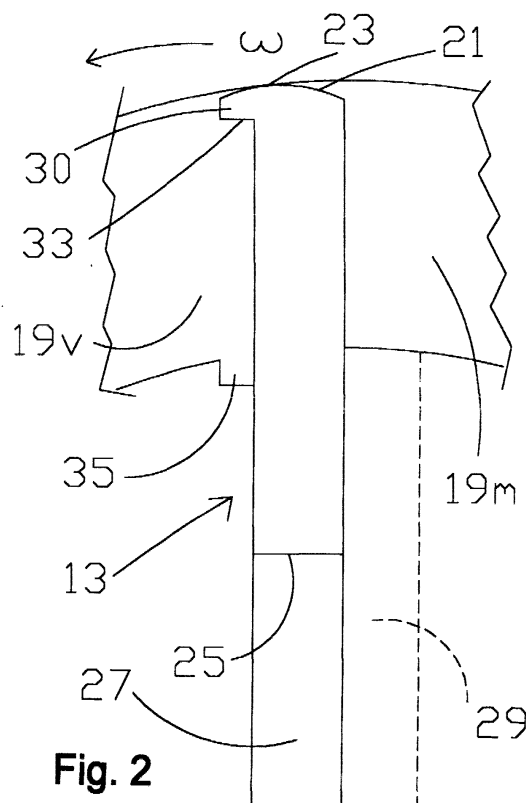


Fig. 2

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EUROPEAN SEARCH REPORT

Application Number
EP 01 11 2998

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Place of search THE HAGUE		Date of completion of the search 12 November 2002	Examiner Dimitroulas, P				
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							

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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