

Title (en)

A conical rotary actuator and its application to control an aircraft hinge

Title (de)

Konischer Drehflügelantrieb und seine Verwendung zur Steuerung eines Scharniers eines Flugzeuges

Title (fr)

Vérin rotatif conique et son application à la commande d'une gouverne d'aéronef

Publication

EP 0715084 B1 20000517 (FR)

Application

EP 95402648 A 19951123

Priority

- FR 9414222 A 19941128
- US 56276195 A 19951127

Abstract (en)

[origin: EP0715084A1] The cylinder consists of coaxially inner (32) and outer (34) housings enclosing at least one annular space containing two sets of vanes (40,44) one fixed to each housing and located alternately inside the space(s) to form variable-volume control chambers. At least one of the two housings has a variable cross-section, so that the vanes' width decreases from one end to the other. The other housing has a constant cross-section, while the inner one has truncated conical and cylindrical sections (38a,38b), meeting at the smaller end of the truncated conical section. The inner and outer housings form, respectively, a rotor and stator, with the inner housing linked to a heating fluid circuit.

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IPC 8 full level

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