

Title (en)
ADJUSTMENT MECHANISM

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Application
EP 87108143 A 19870605

Priority
DE 3620879 A 19860621

Abstract (en)
[origin: US4772182A] An adjusting device for adjustable rotor vanes of a machine rotor including a first gear wheel (34) on a machine shaft (2) and a second gear wheel (44) on an adjusting shaft (4), whereby a relative rotation between the machine shaft and the adjusting shaft can be initiated through a transmission (38) by either of two braking devices (12, 22). The adjusting device of the invention makes it possible to adjust the rotor vanes with a simple construction and with a good degree of efficiency while simultaneously providing good accessibility for assembly and service. A further brake (40, 41) is provided between the transmission (38) and the machine shaft (2) or the adjusting shaft (4) to maintain synchronous rotation of the adjusting shaft (4) with the machine shaft (2) during normal operation, i.e., so long as no adjustment of the rotor vanes (64) is to take place. This further brake (40, 41) is constructed in such a way that when the first braking device (12) or the second braking device (22) is actuated, the braking moment of the further brake (40, 41) is overcome.

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Citation (search report)

- [Y] FR 2525285 A1 19831021 - DURAND ENGRENAGES [FR]
- [Y] US 2738045 A 19560313 - MERGEN JOSEPH M, et al
- [A] US 2423400 A 19470701 - NICHOLS HARRY J
- [A] US 1964102 A 19340626 - RALPH WISHON

Cited by
EP0684365A3

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