

Title (en)

Vane assembly and method of assembling a vane assembly for a variable-nozzle turbocharger

Title (de)

Schaufelanordnung und Verfahren zur Montage einer Schaufelanordnung für einen Turbolader mit variabler Düse

Title (fr)

Ensemble d'aubes de guidage variable pour turbocompresseur et procédé d'assemblage d'un tel ensemble

Publication

EP 1887189 A2 20080213 (EN)

Application

EP 07113861 A 20070806

Priority

US 46278506 A 20060807

Abstract (en)

A vane assembly includes vanes each having an axle and an arm immovably connected with the vane prior to assembling the vane assembly. The vane, axle, and can be an integral one-piece structure formed by casting, machining, or metal injection molding. The axles engage apertures in a nozzle ring are rotatable in the apertures about axes of the vanes. An actuator ring is assembled with the nozzle ring and is rotatable relative thereto. The actuator ring defines connecting elements that connect with cooperative connecting elements on the vane arms. Rotation of the actuator ring causes the vanes to rotate for adjusting the angles of the vanes. During assembly, the motion of inserting the axles into the apertures is also effective for placing the in position for connection with the actuator ring.

IPC 8 full level

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CPC (source: EP US)

F01D 17/165 (2013.01 - EP US); **F05D 2220/40** (2013.01 - EP US)

Cited by

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