

Title (en)
Vane expander

Title (de)
Flügelzellenexpander

Title (fr)
Etendeur à ailettes

Publication
EP 2527590 B1 20150429 (DE)

Application
EP 12001770 A 20120315

Priority
CH 9152011 A 20110527

Abstract (en)
[origin: EP2527590A2] The vane expander has housing (16), an inlet and an outlet for a gaseous medium, and a rotor (11) is arranged in the housing. An internal contour (10) of the housing has multiple lifting zones, which are in connection with the inlet for the gaseous medium such that the gaseous medium simultaneously expands in multiple lifting zones during the operation of the energy recovery system. The inner contour or the control slots of the housing are same for all stroke ranges. The blades (12) are guided by a restraint ring (17) to opposite side of the housing. Independent claims are included for the following: (1) a method for operating an energy recovery system; and (2) a method for manufacturing a vane expander.

IPC 8 full level
F01C 1/344 (2006.01); **F01C 11/00** (2006.01); **F01C 19/02** (2006.01)

CPC (source: EP)
F01C 1/3446 (2013.01); **F01C 19/08** (2013.01); **F01C 21/0836** (2013.01); **F04C 2250/30** (2013.01)

Cited by
CN107956514A

Designated contracting state (EPC)
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EP 2527590 A2 20121128; EP 2527590 A3 20131030; EP 2527590 B1 20150429; CH 705013 A1 20121130

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