

Title (en)
Weight-reduced single-piece multi-stage drum of an axial flow compressor

Title (de)
Gewichtsreduzierte einteilige Mehrstufentrommel eines Axialverdichters

Title (fr)
Tambour multi-étage monobloc allégé de compresseur axial

Publication
EP 2369136 B1 20121219 (FR)

Application
EP 10156427 A 20100312

Priority
EP 10156427 A 20100312

Abstract (en)
[origin: EP2369136A1] The stage has a wall (4) that is symmetrical in revolution about an axis of rotation and forming a hollow body that comprises a veil. An annular area is integrally formed with the veil for supporting a row of vanes (14). The annular area includes a central part (21) raised in relation to a central part of the veil. An exterior surface of the central part of the annular area delimits fluid stream between the vanes. The annular area comprises a stiffener part placed perpendicular to the axis of rotation for connecting the central part to the veil. The hollow body is in oval/ogive shape.

IPC 8 full level
F01D 5/34 (2006.01); **B23P 15/00** (2006.01); **F01D 5/06** (2006.01); **F01D 5/30** (2006.01); **F04D 29/32** (2006.01); **F04D 29/34** (2006.01)

CPC (source: EP US)
F01D 5/063 (2013.01 - EP US); **F01D 5/3061** (2013.01 - EP US); **F01D 5/34** (2013.01 - EP US); **F04D 29/053** (2013.01 - EP US); **F04D 29/321** (2013.01 - EP US); **F04D 29/329** (2013.01 - US)

Citation (examination)
EP 2204541 A1 20100707 - TECHSPACE AERO SA [BE]

Cited by
EP2818635A1

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DOCDB simple family (publication)
EP 2369136 A1 20110928; EP 2369136 B1 20121219; CA 2733435 A1 20110912; CA 2733435 C 20170117; CN 102192186 A 20110921; CN 102192186 B 20150325; RU 2011108828 A 20120920; RU 2556945 C2 20150720; US 2011223013 A1 20110915; US 8932012 B2 20150113

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