

Title (en)  
INLET CONNECTING PIECE FOR AN AXIAL-FLOW COMPRESSOR

Title (de)  
EINTRITTSSTUTZEN FÜR EINEN AXIALVERDICHTER

Title (fr)  
MANCHON D'ADMISSION POUR COMPRESSEUR AXIAL

Publication  
**EP 2240696 B1 20190102 (DE)**

Application  
**EP 08872325 A 20081103**

Priority  
• EP 2008009254 W 20081103  
• DE 102008008886 A 20080213

Abstract (en)  
[origin: WO2009100741A1] The invention relates to an inlet connecting piece for an axial-flow compressor, especially a turbocompressor, comprising an inlet housing (1) containing a bearing housing (2) comprising a bearing (3), especially a radial and/or axial bearing, for a rotor. The bearing housing (2) is connected to the inlet housing (1) via an inlet strut (4) which is connected to the inlet housing in a front cross-section. The central bearing point of the bearing (3) is located in the flow direction of a fluid to be compressed, axially behind the centroid of the front cross-section, at least by 0.1 times the chord length of the front cross-section, especially at least by 0.15 times same, especially at least by 0.2 times same, and especially at least by 0.25 times same. Additionally or alternatively, a fluid passage (5, 6) is formed in the inlet strut, said fluid passage (5, 6) forming an acute angle with a normal plane in relation to the longitudinal axis of the inlet connecting piece, at least in sections.

IPC 8 full level  
**F04D 29/52** (2006.01); **F04D 19/02** (2006.01); **F04D 29/059** (2006.01); **F04D 29/64** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)  
**F01D 9/065** (2013.01 - US); **F01D 25/162** (2013.01 - US); **F04D 19/02** (2013.01 - EP US); **F04D 29/059** (2013.01 - EP US);  
**F04D 29/063** (2013.01 - EP US); **F04D 29/522** (2013.01 - EP US); **F04D 29/644** (2013.01 - EP US); **F04D 29/668** (2013.01 - US)

Citation (examination)  
US 2648493 A 19530811 - STALKER EDWARD A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**DE 102008008886 A1 20090820**; CN 101952604 A 20110119; CN 101952604 B 20131106; EP 2240696 A1 20101020;  
EP 2240696 B1 20190102; JP 2011511899 A 20110414; JP 5444254 B2 20140319; US 2010329861 A1 20101230; US 9004856 B2 20150414;  
WO 2009100741 A1 20090820

DOCDB simple family (application)  
**DE 102008008886 A 20080213**; CN 200880127166 A 20081103; EP 08872325 A 20081103; EP 2008009254 W 20081103;  
JP 2010546218 A 20081103; US 86607708 A 20081103