

Title (en)

An integrally-gearred centrifugal compressor and a method for building an integrally-gearred centrifugal compressor

Title (de)

Zentrifugaler Getriebeverdichter und Verfahren zum Zusammenbau eines zentrifugalen Getriebeverdichters

Title (fr)

Compresseur centrifugal à engrenage intégré et procédé de construction associé

Publication

EP 2980413 A1 20160203 (EN)

Application

EP 14306213 A 20140729

Priority

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Abstract (en)

An integrally-gearred compressor including a bull gear (12), and at least two pinions (13,14,15) able to be driven by the bull gear, at least three compressor wheels, one of the pinions being connected to at least one compressor wheel and the other pinion being connected to two compressor wheels, wherein the compressor corresponds to a given predetermined compressor size, selected from a plurality of different standard sizes (A, B, C, D, E), each standard size being capable of producing output flowrates over a defined range at an output pressure over a defined range, wherein certain elements of the compressor correspond either to a single predetermined element size or one of only two predetermined element sizes, the predetermined element size or sizes being fixed for each compressor size and the certain elements being the bullgear, the first pinion (13,14), the first pinion shaft (18), the second pinion (14,15) and the second pinion shaft (18), the gear case and at least one volute (20). Method for building an integrally geared centrifugal compressor to produce compressed gas at a given outlet flowrate and a given outlet pressure

IPC 8 full level

F04D 25/16 (2006.01); **F04D 29/42** (2006.01); **F04D 29/62** (2006.01); **F04D 17/12** (2006.01)

CPC (source: EP)

F04D 25/163 (2013.01); **F04D 29/4206** (2013.01); **F04D 29/624** (2013.01); **F04D 17/12** (2013.01)

Citation (applicant)

EP 1302668 A1 20030416 - BOC GROUP INC [US]

Citation (search report)

- [ID] EP 1302668 A1 20030416 - BOC GROUP INC [US]
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- [A] WO 2008043527 A1 20080417 - GRUNDFOS MANAGEMENT AS [DK], et al
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- [T] EP 0484111 A1 19920506 - CARRIER CORP [US]
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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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