

Title (en)
TURBO COMPRESSOR AND TURBO REFRIGERATING MACHINE

Title (de)
TURBOVERDICHTER UND TURBOKÜHLMASCHINE

Title (fr)
TURBOCOMPRESSEUR, ET TURBOMACHINE FRIGORIFIQUE À AIR

Publication
EP 3020980 A4 20170315 (EN)

Application
EP 14822776 A 20140707

Priority
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• JP 2014068037 W 20140707

Abstract (en)
[origin: EP3020980A1] A turbo compressor (5) which is provided with a lubricant spray nozzle (39) which is disposed to penetrate a housing (20) and sprays a lubricant toward a bearing (26) accommodated in the housing (20), and an external manifold (38) which is detachably mounted on the housing (20) and supports the lubricant spray nozzle (39) outside of the housing (20) is adopted.

IPC 8 full level
F04D 29/62 (2006.01); **F04D 29/063** (2006.01); **F25B 1/053** (2006.01)

CPC (source: EP US)
F04D 17/10 (2013.01 - EP US); **F04D 25/02** (2013.01 - EP US); **F04D 29/063** (2013.01 - EP US); **F04D 29/60** (2013.01 - US); **F04D 29/624** (2013.01 - EP US); **F25B 1/053** (2013.01 - EP US); **F25B 1/10** (2013.01 - EP US); **F25B 31/004** (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP US)

Citation (search report)
• [Y] US 5443054 A 19950822 - TATENO MASAO [JP], et al
• [Y] US 2007233415 A1 20071004 - BABU MICHAEL [US], et al
• See references of WO 2015005274A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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DOCDB simple family (application)
EP 14822776 A 20140707; CN 201480038526 A 20140707; JP 2013144575 A 20130710; JP 2014068037 W 20140707; MY PI2015704684 A 20140707; US 201414900375 A 20140707