

Title (en)  
ELECTRIC COMPRESSOR

Title (de)  
ELEKTRISCHER VERDICHTER

Title (fr)  
COMPRESSEUR ÉLECTRIQUE

Publication  
**EP 3163083 A1 20170503 (EN)**

Application  
**EP 16195986 A 20161027**

Priority  
JP 2015211950 A 20151028

Abstract (en)  
An electric compressor 1 includes an electric motor 3, a rotary drive shaft 9 joined to a rotor 6 of the electric motor 3, a compression mechanism 4 including, at least on one end side of the rotary drive shaft 9, bearing members 10, 11 configured to support the rotary drive shaft 9 and driven through the rotary drive shaft 9, and a weight member 25 as a rotary inertia body provided at least on the end surface of the rotor 6 close to the compression mechanism 4 or each end surface of the rotor 6. The weight member 25 provided on the end surface of the rotor 6 close to the compression mechanism 4 is a ring-shaped weight member 25 hung over the outer periphery of a boss portion 10A of the bearing member 10 forming the compression mechanism 4 and having a flat outer end surface.

IPC 8 full level  
**F04C 23/00** (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP)  
**F04C 23/008** (2013.01); **F04C 29/0021** (2013.01); **F04C 29/0085** (2013.01); **F04C 2240/807** (2013.01)

Citation (applicant)  
• JP 2005248843 A 20050915 - MITSUBISHI ELECTRIC CORP  
• JP 2007146736 A 20070614 - SANYO ELECTRIC CO

Citation (search report)  
• [XYI] US 6231317 B1 20010515 - WATANABE KAZUTAKA [JP], et al  
• [XI] JP 2001304121 A 20011031 - MATSUSHITA ELECTRIC IND CO LTD  
• [XI] JP S62168976 A 19870725 - HITACHI LTD  
• [XI] JP S63215893 A 19880908 - MATSUSHITA ELECTRIC IND CO LTD  
• [Y] JP 2000134882 A 20000512 - MATSUSHITA ELECTRIC IND CO LTD  
• [A] JP S61118589 A 19860605 - MATSUSHITA ELECTRIC IND CO LTD  
• [A] US 5230616 A 19930727 - SERIZAWA YUKIO [JP], et al

Cited by  
CN115199546A; EP4020779A1; US11863021B2

Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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