

Title (en)  
APPARATUS FOR THE PRODUCTION OF A VACUUM

Publication  
**EP 0186776 B1 19890201 (DE)**

Application  
**EP 85114893 A 19851125**

Priority  
DE 3444731 A 19841207

Abstract (en)  
[origin: ES8701917A1] A device for generating a vacuum comprises a liquid-ring vacuum pump driven by an electric motor and operating with a working fluid. A mixture of compressed air and working fluid from the pump flows to a preseparator which separates a major portion of the working fluid from the gaseous mixture. The separated working fluid is fed from a reservoir in the preseparator via a liquid cooling coil back to the liquid-ring vacuum pump, while the gas still loaded with a residue of the working fluid is fed to a fine separator by means of a gas cooler, working fluid separated in the fine separator being returned to the pump via a return line. The preseparator and the fine separator are physically spaced from one another. The gas cooler and the liquid cooling coil are also physically spaced from one another and are located in the path of the cooling air stream for the electric motor. The coolers are designed so that the gas from the preseparator is cooled to a substantially lower temperature than the temperature to which the working fluid is cooled in the liquid cooling coil.

IPC 1-7  
**F04C 29/04**; **F04C 23/00**

IPC 8 full level  
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CPC (source: EP US)  
**F04C 23/00** (2013.01 - EP US); **F04C 29/04** (2013.01 - EP US)

Citation (examination)  
"Fluid" Okt 1982; Helmut Jansen "Oleingespritzte Kompressoren" S.58

Cited by  
US5087178A; US5492461A

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

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**EP 0186776 A1 19860709**; **EP 0186776 B1 19890201**; AT E40583 T1 19890215; CN 1005642 B 19891101; CN 85106797 A 19860610; DE 3568071 D1 19890309; ES 549668 A0 19861201; ES 8701917 A1 19861201; IN 162159 B 19880409; JP S61138897 A 19860626; US 4657487 A 19870414

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