

Title (en)  
Laboratory centrifuge with compressor cooler

Title (de)  
Laborzentrifuge mit Kompressorkühlung

Title (fr)  
Centrifugeuse de laboratoire dotée d'un refroidissement par compresseur

Publication  
**EP 2335830 B2 20201111 (DE)**

Application  
**EP 09015628 A 20091217**

Priority  
EP 09015628 A 20091217

Abstract (en)  
[origin: EP2335830A1] The laboratory separator (1) has a rotor propelled by a centrifuge engine (5) and cooling equipment, which has a compressor (6). The compressor is used as a rotation compressor, and has a group of rolling piston compressor, scroll compressor, wing cellular blower, swash plate compressor, rotary screw compressor, spiral compressor and rotary piston compressor.

IPC 8 full level  
**B04B 15/02** (2006.01)

CPC (source: EP)  
**B04B 15/02** (2013.01)

Citation (opposition)  
Opponent :

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- DE 4320537 A1 19931223 - MITSUBISHI ELECTRIC CORP [JP]
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- US 2006210418 A1 20060921 - BAE JI Y [KR], et al
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- DE 2707145 A1 19770901 - BECKMAN INSTRUMENTS INC
- US 6993932 B2 20060207 - LEE YONG TAEK [KR], et al
- CH 180152 A 19351015 - BOSCH ROBERT AG [DE]
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- Product catalogue from Mitsubishi Electric, "Refrigerant Compressors Scroll/Rotary", Juli 2006
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- Bitzer Letter, "Kälte-Klima-Aktuell (KKA)"
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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 MK MT NL NO PL PT RO SE SI SK SM TR

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**EP 2335830 A1 20110622; EP 2335830 B1 20130327; EP 2335830 B2 20201111**; CN 102166546 A 20110831; CN 102166546 B 20151125

DOCDB simple family (application)  
**EP 09015628 A 20091217**; CN 201010595829 A 20101216