

Title (en)
LABORATORY CENTRIFUGE, COMPRISING REFRIGERATION UNIT

Title (de)
LABORZENTRIFUGE MIT KUEHLAGGREGAT

Title (fr)
CENTRIFUGEUSE DE LABORATOIRE A GROUPE FRIGORIFIQUE

Publication
EP 1196247 B1 20030423 (DE)

Application
EP 00942132 A 20000626

Priority
• DE 19932721 A 19990716
• EP 0005877 W 20000626

Abstract (en)
[origin: DE19932721C1] The invention relates to a laboratory centrifuge, comprising a rotor (2) that is driven by an electric centrifuge motor (5) and a refrigeration unit (17) that is driven by an electric cooling motor (22). The centrifuge motor is configured as a frequency-controlled induction motor which is fed by a frequency converter (20), operated by a control device (30). Said frequency converter has a centrifuge current inverter (7) which feeds the centrifuge motor and which is connected to a d.c. voltage source (10) that is fed by a power rectifier (12). The laboratory centrifuge is characterised in that the cooling motor is configured as a frequency-controlled induction motor and that the frequency converter has an additional cooling current inverter (24) which is connected to the d.c. voltage source, parallel to the centrifuge current inverter and feeds the cooling motor.

IPC 1-7
B04B 15/02; **B04B 9/10**

IPC 8 full level
F25B 1/00 (2006.01); **B04B 9/10** (2006.01); **B04B 15/02** (2006.01); **F25B 49/00** (2006.01)

CPC (source: EP US)
B04B 9/10 (2013.01 - EP US); **B04B 15/02** (2013.01 - EP US)

Cited by
EP2335830A1; CN102166546A

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 19932721 C1 20010118; DE 50001890 D1 20030528; EP 1196247 A1 20020417; EP 1196247 B1 20030423; JP 2003504197 A 20030204; JP 4365062 B2 20091118; US 6866621 B1 20050315; WO 0105516 A1 20010125

DOCDB simple family (application)
DE 19932721 A 19990716; DE 50001890 T 20000626; EP 0005877 W 20000626; EP 00942132 A 20000626; JP 2001510592 A 20000626; US 3146802 A 20020612