

Title (en)

PACKAGING MACHINE WITH VACUUM PUMP

Title (de)

VERPACKUNGSMASCHINE MIT VAKUUMPUMPE

Title (fr)

MACHINE D'EMBALLAGE AVEC POMPE À VIDE

Publication

**EP 3417175 B1 20211201 (DE)**

Application

**EP 17701691 A 20170126**

Priority

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- EP 2017051594 W 20170126

Abstract (en)

[origin: WO2017140471A1] The invention relates to a vacuum pump (10) for a packaging machine (1), said vacuum pump (10) comprising an electric motor (11), a pressure generation unit (12) and a housing (14). The vacuum pump (10) is characterized in that a controller (15) is provided in or on the housing (14) of the vacuum pump (10).

IPC 8 full level

**F04D 19/04** (2006.01); **F04C 25/02** (2006.01); **F04D 25/06** (2006.01)

CPC (source: EP)

**F04C 25/02** (2013.01); **F04D 19/04** (2013.01); **F04D 25/068** (2013.01); **F04C 18/16** (2013.01); **F04C 18/344** (2013.01); **F04C 29/124** (2013.01); **F04C 2240/403** (2013.01); **F04C 2240/808** (2013.01); **F04C 2240/81** (2013.01)

Citation (opposition)

Opponent : EDWARDS LIMITED,

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Opponent : GEA Food Solutions Germany GmbH

- US 2013259717 A1 20131003 - MUELLER DIDIER [CH], et al
- DE 202015003927 U1 20150713 - OERLIKON LEYBOLD VACUUM GMBH [DE]
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- DE 4410903 A1 19951005 - LEYBOLD AG [DE]
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FR3133650A1; WO2023179954A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

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