

Title (en)
Fluid dynamic conveyor device

Title (de)
Strömungsdynamische Fördervorrichtung

Title (fr)
Dispositif de transport à écoulement dynamique

Publication
EP 2784329 A1 20141001 (DE)

Application
EP 13161601 A 20130328

Priority
EP 13161601 A 20130328

Abstract (en)
The conveyor device has a flow channel (60) having a channel wall (62). The flow channel has a vane occupying impeller, which is rotatably arranged in such a way that a gap is formed between vanes and channel wall. The perforations are formed in the channel wall in the region of the gap. A sound-absorbing material (26) is arranged opposite to impeller side of channel wall. The channel wall and sound-absorbing material are integrally formed with each other.

Abstract (de)
Die Erfindung betrifft eine strömungsdynamische Fördervorrichtung (12, 34) mit einem Strömungskanal (10, 38, 40, 46, 60), welcher eine Kanalwand (14, 36, 44, 48, 62) aufweist, wobei in dem Strömungskanal (10, 38, 40, 46, 60) ein mit Schaufeln (16) besetztes Schaufelrad (18) derart drehbar angeordnet ist, dass zwischen den Schaufeln (16) und der Kanalwand (14, 36, 44, 48, 62) jeweils ein Spalt (20) ausgebildet ist, wobei die Kanalwand (14, 36, 44, 48, 62) im Bereich des Spalts (20) Perforationen (22) aufweist.

IPC 8 full level
F04D 29/42 (2006.01); **F04D 29/52** (2006.01); **F04D 29/54** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP)
F04D 29/4213 (2013.01); **F04D 29/526** (2013.01); **F04D 29/545** (2013.01); **F04D 29/664** (2013.01); **F04D 29/665** (2013.01)

Citation (search report)

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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

Designated extension state (EPC)
BA ME

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