

Title (en)

VIBRATION CONVEYOR AND METHOD FOR REGULATING A VIBRATION DRIVE OF A VIBRATION CONVEYOR

Title (de)

VIBRATIONSFÖDERER UND VERFAHREN ZUR REGELUNG EINES VIBRATIONSANTRIEBS EINES VIBRATIONSFÖRDERERS

Title (fr)

CONVOYEUR VIBRANT ET PROCÉDÉ PERMETTANT DE RÉGULER UN ENTRAÎNEMENT VIBRANT D'UN CONVOYEUR VIBRANT

Publication

**EP 3526145 A1 20190821 (DE)**

Application

**EP 17794783 A 20171009**

Priority

- CH 13762016 A 20161014
- IB 2017056229 W 20171009

Abstract (en)

[origin: WO2018069819A1] The vibration conveyor has a drive unit (4) which has a vibration drive (10), a support assembly (5) which has a conveyor element for material to be conveyed, and a controller (26) for the vibration drive (10). The drive unit (10) is equipped with an acceleration sensor (27) which detects the current acceleration of the drive unit (4) when the vibration conveyor (25) is being operated, and the controller (26) is designed to generate a control variable for the vibration drive (10) using a current acceleration signal of the acceleration sensor (26) such that the support assembly (5) substantially vibrates at its resonant frequency ( $f_{res}$ ), thus allowing the acceleration of a drive unit (4) of the vibration conveyor (25) to be detected during operation and a control variable for a vibration drive (10) to be generated therefrom such that a support assembly (5) of the vibration conveyor (25) vibrates more closely to its resonant frequency ( $f_{res}$ ) or is returned towards same. The amplitude of the support assembly (4) and the connected mass flow  $\dot{m}$  can additionally be regulated to a target value by means of the controller (28) according to the invention.

IPC 8 full level

**B65G 27/32** (2006.01)

CPC (source: CH EP US)

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Citation (search report)

See references of WO 2018069819A1

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