

Title (en)

BELT CONVEYORS AND VISCOELASTIC DAMPERS AND METHODS FOR DAMPING CONVEYOR BELTS

Title (de)

BANDFÖRDERER UND VISKOELASTISCHE DÄMPFER SOWIE VERFAHREN ZUR DÄMPFUNG VON FÖRDERBÄNDERN

Title (fr)

TRANSPORTEURS À COURROIE ET AMORTISSEURS VISCOÉLASTIQUES, ET PROCÉDÉS D'AMORTISSEMENT DE COURROIES
TRANSPORTEUSES

Publication

EP 3131838 A1 20170222 (EN)

Application

EP 15780116 A 20150326

Priority

- US 201414255474 A 20140417
- US 2015022638 W 20150326

Abstract (en)

[origin: WO2015160486A1] Viscoelastic dampers and belt conveyor systems using viscoelastic dampers to attenuate belt vibration and methods for damping belt speed variations. One version of the viscoelastic dampers includes a low-friction carryway element mounted to a viscoelastic pad that is firmly attached to stationary conveyor framework at various locations along the length and width of the conveyor system. Speed fluctuations of the conveyor belt supported on and advancing along the low-friction carryway elements are damped by the viscoelastic dampers. In some versions, magnetic forces are used to clamp the conveyor belt to the dampers to increase the effective damping.

IPC 8 full level

B65G 15/60 (2006.01)

CPC (source: EP KR)

B65G 15/58 (2013.01 - KR); **B65G 15/62** (2013.01 - EP KR); **B65G 23/26** (2013.01 - KR); **B65G 43/00** (2013.01 - EP); **B65G 23/26** (2013.01 - EP); **B65G 2203/0291** (2013.01 - EP); **B65G 2812/02138** (2013.01 - KR); **B65G 2812/02168** (2013.01 - KR)

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

DOCDB simple family (publication)

WO 2015160486 A1 20151022; BR 112016024033 A2 20170815; CN 106458451 A 20170222; EP 3131838 A1 20170222;
EP 3131838 A4 20180110; JP 2017516725 A 20170622; JP 6612773 B2 20191127; KR 20160145683 A 20161220; MX 2016013479 A 20170509

DOCDB simple family (application)

US 2015022638 W 20150326; BR 112016024033 A 20150326; CN 201580021588 A 20150326; EP 15780116 A 20150326;
JP 2016562217 A 20150326; KR 20167031543 A 20150326; MX 2016013479 A 20150326