

Title (en)
CONVEYOR MEASURING SYSTEM

Title (de)
FÖRDERMESSSYSTEM

Title (fr)
SYSTÈME DE MESURE DE TRANSPORTEUR

Publication
EP 3391034 A4 20191016 (EN)

Application
EP 16876376 A 20161201

Priority
• US 201514974890 A 20151218
• US 2016064432 W 20161201

Abstract (en)
[origin: WO2017105862A1] A conveyor and a sensing system for sensing various conditions on an advancing conveying bodies of a conveyor. The conveyor includes an array of sensing elements embedded in the conveying bodies to measure belt conditions. The sensing elements form parts of passive resonant circuits that each include a capacitor and an inductive coil. The capacitor or the inductive coil can be a sensing element. Measuring circuits external to the belt are inductively or capacitively coupled to the resonant circuits in the conveying bodies as they pass closely by. The sensing elements change the resonant frequency of their resonant circuits as a function of the sensed conditions. Frequency detectors in the measuring circuits measure that frequency change and convert it into a functionally related value used to determine a conveyor condition. Exemplary conditions include temperature, pressure, humidity, spillage, and product weight.

IPC 8 full level
G01N 27/02 (2006.01); **B65G 43/02** (2006.01); **G01G 7/06** (2006.01); **G01G 11/00** (2006.01); **G01G 19/03** (2006.01); **G01N 27/22** (2006.01)

CPC (source: EP)
B65G 43/02 (2013.01); **G01G 11/003** (2013.01); **B65G 17/08** (2013.01); **G01G 7/06** (2013.01); **G01G 19/035** (2013.01)

Citation (search report)
• [X1] US 2015292935 A1 20151015 - KLECZEWSKI LAZLO [NL]
• See references of WO 2017105862A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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US 2016064432 W 20161201; CN 201680073833 A 20161201; EP 16876376 A 20161201; EP 20158074 A 20161201; JP 2018530525 A 20161201