

Title (en)  
CONVEYOR SYSTEMS AND METHODS

Title (de)  
FÖRDERSYSTEME UND -VERFAHREN

Title (fr)  
SYSTÈMES ET PROCÉDÉS POUR TRANSPORTEUR

Publication  
**EP 3589566 A4 20201230 (EN)**

Application  
**EP 17899125 A 20170831**

Priority  
• NL 2017050127 W 20170301  
• US 2017049598 W 20170831

Abstract (en)  
[origin: WO2018160218A1] Embodiments of the invention provide systems and methods for monitoring and removing contaminants from a conveyor surface based upon predicted frictional engagement qualities detected on a conveyor surface. In some examples, the methods may include monitoring the conveyor surface with at least one sensor configured to sense a condition on the conveyor surface. The sensor may detect the presence of a contaminant, and communicate the location of the detected contaminant to a processor. A treatment cycle may then be initiated to remove or displace the contaminant from the conveyor surface after the presence of a contaminant has been detected.

IPC 8 full level  
**B65G 43/00** (2006.01); **B65G 45/00** (2006.01); **B65G 45/22** (2006.01); **B65G 45/24** (2006.01)

CPC (source: EP)  
**B65G 45/22** (2013.01); **B65G 45/24** (2013.01); **B65G 2203/0266** (2013.01); **B65G 2203/0283** (2013.01); **B65G 2203/042** (2013.01); **B65G 2207/26** (2013.01)

Citation (search report)  
• [XY] US 8141695 B2 20120327 - KRAUS PAUL R [US], et al  
• [X] US 6321586 B1 20011127 - WOJTOWICZ EDWARD A [US], et al  
• [XY] US 2012211645 A1 20120823 - TULLO JOE [CA], et al  
• [Y] US 2005109580 A1 20050526 - THOMPSON CYNTHIA [US]  
• [Y] WO 2012014322 A1 20120202 - BUNSHI JAPAN CO LTD [JP], et al  
• See references of WO 2018160218A1

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)  
**WO 2018160218 A1 20180907**; CN 110352169 A 20191018; EP 3589566 A1 20200108; EP 3589566 A4 20201230

DOCDB simple family (application)  
**US 2017049598 W 20170831**; CN 201780087754 A 20170831; EP 17899125 A 20170831