

Title (en)

CONTROL DEVICE AND METHOD FOR CONTROLLING THE SPEED OF A CONVEYOR

Title (de)

STEUERVORRICHTUNG UND VERFAHREN ZUR GESCHWINDIGKEITSREGELUNG EINES FÖRDERERS

Title (fr)

DISPOSITIF DE COMMANDE ET PROCÉDÉ POUR RÉGULER LA VITESSE D'UN CONVOYEUR

Publication

EP 2544980 B1 20171129 (DE)

Application

EP 11706463 A 20110222

Priority

- CH 3402010 A 20100311
- CH 2011000031 W 20110222

Abstract (en)

[origin: WO2011109916A1] In order to control the speed of a conveyor (2) for supplying printed products to stacking devices (A, B, C), an assignment plan (Z) is maintained for the stacking devices (A, B, C), said assignment plan containing products (P, P*) that were detected on the conveyor (2) at a detection point (DD) upstream of the stacking devices (A, B, C) and that can be processed at a defined target speed (55) of the conveyor (2) by an associated stacking device (A, B, C). The target speed (55) of the conveyor (2) is automatically reduced if at least one detected product (P, P*) in the assignment plan (Z) cannot be associated with one of the stacking devices (A, B, C) in such a way that said product can be processed at the unreduced target speed (55) of the conveyor (2). The determination of whether and by which of the stacking devices (A, B, C) a product (P, P*) can be processed at the target speed (55) and the virtual assignment of the products (P, P*) to one of the stacking devices (A, B, C) on the basis of said determination makes it possible to automatically, dynamically, and flexibly adapt the conveying speed to production-specific parameters and states, wherein the production output is kept as high as possible.

IPC 8 full level

B65H 5/08 (2006.01); **B65H 5/26** (2006.01); **B65H 5/34** (2006.01); **B65H 29/04** (2006.01); **B65H 29/28** (2006.01); **B65H 29/60** (2006.01); **B65H 31/24** (2006.01)

CPC (source: EP US)

B65H 5/085 (2013.01 - EP US); **B65H 5/26** (2013.01 - EP US); **B65H 5/34** (2013.01 - EP US); **B65H 29/042** (2013.01 - EP US); **B65H 29/28** (2013.01 - EP US); **B65H 29/60** (2013.01 - EP US); **B65H 31/24** (2013.01 - EP US); **B65H 2301/323** (2013.01 - EP US); **B65H 2301/4433** (2013.01 - EP US); **B65H 2301/44712** (2013.01 - EP US); **B65H 2513/10** (2013.01 - EP US)

Cited by

CN110451305A; EP3878672A1

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 2011109916 A1 20110915; AU 2011226721 A1 20121011; AU 2011226721 B2 20151029; CA 2792377 A1 20110915; CA 2792377 C 20161011; CH 702716 A2 20110915; EP 2544980 A1 20130116; EP 2544980 B1 20171129; US 2013060376 A1 20130307; US 9008834 B2 20150414

DOCDB simple family (application)

CH 2011000031 W 20110222; AU 2011226721 A 20110222; CA 2792377 A 20110222; CH 3402010 A 20100311; EP 11706463 A 20110222; US 201113583599 A 20110222