

Title (en)
CURTAIN COATING APPARATUS AND CURTAIN COATING METHOD

Title (de)
VORHANGBESCHICHTUNGSVORRICHTUNG UND VORHANGBESCHICHTUNGSVERFAHREN

Title (fr)
APPAREIL ET PROCÉDÉ DE COUCHAGE À NAPPE

Publication
EP 2474369 A4 20140319 (EN)

Application
EP 10811687 A 20100809

Priority
• JP 2009200349 A 20090831
• JP 2010063495 W 20100809

Abstract (en)
[origin: EP2474369A1] Provided are a curtain coating apparatus and a curtain coating method for supplying a curtain film of paint on a surface of a delivered web so as to coat paint on the surface of the web, said apparatus and method enabling reduction of the energy consumed for the coating operation, a marked decrease in the apparatus investment, and improvement in the coating quality. The curtain-coating apparatus applies the paint on the surface of the web by treating the paint with a vacuum defoaming device, supplying the treated paint to a curtain head in order to form a curtain film of the paint by the curtain head, and applying the curtain film onto a surface of the delivered web, wherein the curtain-coating apparatus is characterized in that a heating device is installed in a pipeline for feeding the paint from the vacuum defoaming device to the curtain head for heating the paint flowing through the pipeline to a temperature approximate to the temperature of the curtain head. The curtain-coating method applies the paint on the surface of the web by treating the paint with a vacuum defoaming device, supplying the treated paint to a curtain head in order to form a curtain film of the paint by the curtain head, and applying the curtain film onto a surface of the delivered web, wherein the curtain-coating method is characterized in that the paint supplied from the vacuum defoaming device to the curtain head is heated to a temperature approximate to the temperature of the curtain head.

IPC 8 full level
B05C 5/00 (2006.01); **B05C 11/10** (2006.01); **B05D 1/30** (2006.01); **B05D 3/00** (2006.01); **B05D 7/00** (2006.01)

CPC (source: EP)
B05C 5/005 (2013.01); **B05C 5/008** (2013.01); **B05C 11/10** (2013.01); **B05C 11/1039** (2013.01); **B05C 11/1042** (2013.01); **B05C 15/00** (2013.01); **B05D 1/305** (2013.01); **B05D 3/0493** (2013.01); **B05D 2252/02** (2013.01)

Citation (search report)
• [X] US 2004173093 A1 20040909 - TAKAHASHI YASUO [JP]
• [I] DE 102007000801 A1 20090402 - VOITH PATENT GMBH [DE]
• [I] DE 102005027831 A1 20061228 - VOITH PATENT GMBH [DE]
• See references of WO 2011024637A1

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EP2811068A1

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 SE SI SK SM TR

DOCDB simple family (publication)
EP 2474369 A1 20120711; **EP 2474369 A4 20140319**; **EP 2474369 B1 20190501**; CN 102574147 A 20120711; CN 102574147 B 20150603; JP 2011050817 A 20110317; WO 2011024637 A1 20110303

DOCDB simple family (application)
EP 10811687 A 20100809; CN 201080038213 A 20100809; JP 2009200349 A 20090831; JP 2010063495 W 20100809