

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  
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Citation (search report)  
• [X1] 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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