

Title (en)

Process and apparatus for curtain coating of a travelling support

Title (de)

Verfahren und Vorrichtung zur Vorhangbeschichtung eines bewegten Trägers

Title (fr)

Procédé et appareil pour le revêtement par rideau d'un support en mouvement

Publication

EP 0906789 B1 20010919 (DE)

Application

EP 97810732 A 19971003

Priority

EP 97810732 A 19971003

Abstract (en)

[origin: EP0906789A1] The air carried by the film is sucked-off in front of the coating medium curtain, and controlled air is constantly supplied. The air supply is set as a function of the removed air, so that a parabolic speed profile is developed, with a point at a distance to the film, in which the air speed is zero. The speed profile is calculated according to the Hagen- Poiseuille formula. The appliance body (1) has a first hollow chamber (6) with connected air extraction channel (7) and a second hollow chamber (9) with connected air supply channel (11). Both chambers extend across the full width of the film and have a porous material coating (8, 10) of the side of the film, so that an even concentric or parallel gap (4) between film (5) and body is formed.

IPC 1-7

B05D 1/30; **B05C 5/00**; **G03C 1/74**

IPC 8 full level

B05C 5/00 (2006.01); **B05D 1/30** (2006.01); **G03C 1/74** (2006.01)

CPC (source: EP US)

B05C 5/005 (2013.01 - EP US); **B05D 1/305** (2013.01 - EP US); **G03C 1/74** (2013.01 - EP US)

Cited by

DE112006001484B4; WO2006134052A1; WO2008000507A1; WO2006056386A1; WO0191917A1

Designated contracting state (EPC)

BE CH DE FI FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0906789 A1 19990407; **EP 0906789 B1 20010919**; DE 59704675 D1 20011025; JP H11188298 A 19990713; US 6162502 A 20001219

DOCDB simple family (application)

EP 97810732 A 19971003; DE 59704675 T 19971003; JP 28250498 A 19981005; US 16568898 A 19981002