

Title (en)  
DEVICE FOR SEPARATING ATMOSPHERES

Title (de)  
VORRICHTUNG ZUR ATMOSPHÄRENTRENNUNG

Title (fr)  
DISPOSITIF DE SEPARATION D'ATMOSPHERES

Publication  
**EP 2452143 A1 20120516 (FR)**

Application  
**EP 10740745 A 20100702**

Priority  
• IB 2010053045 W 20100702  
• FR 0903365 A 20090708

Abstract (en)  
[origin: WO2011004302A1] The invention relates to a device for separating atmospheres installed between two chambers (Ca, Cb) of a continuous line for treating metal strips, said chambers having different types of atmospheres, in order to prevent the atmosphere of a first upstream chamber (Ca) from entering into a second downstream chamber (Cb), and vice versa, said device including: a first pair of motor-driven rollers (R1a, R1b), between which the strip (1) travels at the inlet of the device; and a second pair of motor-driven rollers (R2a, R2b), between which the strip travels at the outlet of the device. The pairs of rollers (R1a, R1b, R2a, R2b) are placed so as to cause a change in the plane of movement (Pa, Pb) of the strip between the inlet and outlet of the device, and the spacing between the rollers is adjusted such that, when the strip has defects in the shape thereof, the rollers reduce the defects in the strip on the width thereof, in order to limit the gas flows (Fa, Fb).

IPC 8 full level  
**F27D 99/00** (2010.01); **C21D 9/56** (2006.01); **F27D 3/00** (2006.01)

CPC (source: EP KR)  
**C21D 9/56** (2013.01 - EP KR); **C21D 9/565** (2013.01 - EP); **F27D 3/00** (2013.01 - KR); **F27D 3/0032** (2013.01 - EP); **F27D 99/00** (2013.01 - KR); **F27D 99/0073** (2013.01 - EP)

Citation (search report)  
See references of WO 2011004302A1

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)  
**WO 2011004302 A1 20110113**; BR 112012000265 A2 20160216; CN 102472586 A 20120523; CN 102472586 B 20160302; EP 2452143 A1 20120516; FR 2947737 A1 20110114; FR 2947737 B1 20120525; KR 20120038434 A 20120423

DOCDB simple family (application)  
**IB 2010053045 W 20100702**; BR 112012000265 A 20100702; CN 201080030408 A 20100702; EP 10740745 A 20100702; FR 0903365 A 20090708; KR 20127000297 A 20100702