

Title (en)

APPARATUS FOR COATING A MOVING WEB OF MATERIAL

Publication

EP 0109520 B1 19871202 (DE)

Application

EP 83109878 A 19831004

Priority

- DE 3243317 A 19821123
- DE 3305966 A 19830221

Abstract (en)

[origin: EP0109521A1] 1. Apparatus for applying coating material in adjustable coat thickness onto a web (1) of material travelling over a bracing roller (2) by means of a slit nozzle extending across the width of the web (1) of material and having a preliminary dosing gap (23), with a dosing chamber (25) extending across the width of the web (1) of material and with, considered in the web travel direction (A), a rear return lip (24) bounding said chamber, and a front dosing lip which is constructed with a doctor strip (6) which can be pressed against the web (1) of material by a pressure means (9), the wear-resistant end face (7) of which doctor strip, facing the web (1) of material to be coated and exhibiting a rectangular contour, forms with the web (1) of material a wedge gap narrowing independently of the contact pressure, and the exit edge of which forms a straight and sharp-edged breakaway edge (8), characterized in that the preliminary dosing gap (23) is constructed adjustably and the doctor strip (6) is guided with low friction on at least one sliding surface (4) plane on the exit side of the doctor bed (3) forming the dosing lip and is of flexurally soft construction in the region of the end face (7) and breakaway edge (8), and furthermore that the pressure means (9) is of resilient construction and is arranged between the doctor strip (6) and the doctor bed (3).

IPC 1-7

B05C 11/04; **B05C 11/02**

IPC 8 full level

B05C 5/02 (2006.01); **B05C 9/04** (2006.01); **B05C 11/02** (2006.01); **B05C 11/04** (2006.01); **D06B 15/08** (2006.01)

CPC (source: EP)

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Citation (examination)

DE 1652280 A1 19700917 - BRITTAINS LTD

Cited by

EP0307618A1; US4826555A; DE4402226A1; US5536312A; DE3934418A1; EP0423492A3; DE19603861C1; US6066208A; EP0787857A1

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