

Title (en)
Doctoring apparatus

Title (de)
Rakelvorrichtung

Title (fr)
Dispositif de racle

Publication
EP 0922500 A3 20020213 (DE)

Application
EP 98114696 A 19980805

Priority
DE 19755411 A 19971212

Abstract (en)
[origin: EP0922500A2] The doctor assembly, to spread and/or apply a coating to a moving web, has a pressure system to hold the doctor (18) against the web with at least one force unit (24) with a spring unit (26) acting on the force transfer unit (22). The force transfer unit (22) is at a carrier (28), which also supports at least one force unit (24), with at least one spring structure (26) for elasticity. The force transfer unit (22) is at least partially of a plastics material. At least one spring unit (26) has a draw spring and/or a pressure spring and/or a draw/pressure spring. The spring unit can be a coil spring (26), a gas spring and/or a leaf spring and/or a rubber component or of a rubber-type material. At least one damper is at the force unit and/or force transfer unit. The damper and spring system can be an integral structure. A number of force units (24) are deployed across the web width. The force transfer system has a number of units. A component lies across the web width, between the deployed force transfer units and the doctor. The force transfer unit (22) is in one piece, with a number of slits and/or thinner wall sections, at a set minute gap from the doctor. The doctor is a doctor blade (18), doctor rod or doctor bar.

IPC 1-7
B05C 11/04; D21H 23/34

IPC 8 full level
B05C 11/04 (2006.01); **B05D 1/40** (2006.01)

CPC (source: EP US)
B05C 11/042 (2013.01 - EP US)

Citation (search report)
• [XA] US 4169425 A 19791002 - WOHRLE ALBERT [DE]
• [XA] EP 0651094 A1 19950503 - JAGENBERG PAPIERTECH GMBH [DE]
• [PXA] DE 19652857 A1 19980625 - VOITH SULZER PAPIERMASCH GMBH [DE]

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EP2600986A4; EP1004702A3; EP2355224A1; US9088043B2

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EP 98114696 A 19980805; DE 19755411 A 19971212; JP 29515298 A 19981016; US 19878898 A 19981124