

Title (en)

Roller with contoured surface for conveying ultrathin webs and apparatus comprising such a roller

Title (de)

Transportrolle mit profilierter Oberfläche zum Führen von ultradünnen Bahnen und Vorrichtung mit einer solchen Transportrolle

Title (fr)

Rouleau avec surface profilée pour transporter des bandes ultrafines et appareil comprenant un tel rouleau

Publication

EP 0820947 A1 19980128 (EN)

Application

EP 97202209 A 19970714

Priority

US 68690796 A 19960726

Abstract (en)

A web conveying roller (18) is provided with circumferentially or spirally extending grooves (42) and radially stiff lands (44), the lands having convex curvatures (46, 48; 54) to cause a conveyed, ultrathin web (30), at the beginning of a wrap angle (α) onto the roller (18), to undulate along the width of the roller (18) over the lands (44) and into the grooves (42) while remaining spaced from the convex curvatures of the lands (44); so that, air entrained between the web (30) and the lands (44) can flow into the grooves (42). <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] EP 0705786 A2 19960410 - EASTMAN KODAK CO [US]
- [XA] EP 0590253 A1 19940406 - ESCHER WYSS GMBH [DE]
- [A] EP 0316735 A1 19890524 - WOLFF WALSRÖDE AG [DE]
- [A] GB 2185726 A 19870729 - MITA INDUSTRIAL CO LTD

Cited by

US6550384B1; WO9962804A1

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DE FR GB IT NL

DOCDB simple family (publication)

EP 0820947 A1 19980128; JP H1077146 A 19980324

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