

Title (en)

Pull roller unit for a rotary printing machine.

Title (de)

Zugwalzeneinheit für eine Rollendruckmaschine.

Title (fr)

Rouleaux tendeurs pour une machine rotative d'impression.

Publication

EP 0415882 B1 19941102 (DE)

Application

EP 90810622 A 19900817

Priority

CH 314989 A 19890830

Abstract (en)

[origin: EP0415882A2] The pull roller unit has only one suction roller (20b, 21b) as pull roller, in which a permanently acting suction effect acts along that circumferential section which is wrapped by the paper web whereas the remaining circumferential section is not subjected to any suction effect. The suction roller has a fixed, hollow roller core (65) and a roller shell (61) which can be rotated about said core and is made of carbon fibres impregnated with plastic with suction openings (62) distributed over its circumference. The roller core (65) is provided on one side with an axial nozzle (68b) for attachment to the machine frame and for connection to a source of negative pressure, on its other side with a bearing journal (66), and on its circumference exhibiting passage openings (70) with two radial partitions (69) which are arranged with a certain angular spacing from one another and enclose a suction chamber between them. The roller shell is mounted on the bearing journal (66) by a conical connection flange (61b), which is attached directly to the armature shaft of the drive motor, and on the nozzle (68b) by its other end, the gap between the roller shell and the partitions (69) being almost airtight. Instead of a suction roller, a pull roller can also be provided which is subjected to compressed air on the outside along the circumferential section mentioned, or the suction air and compressed air effect can be combined. <IMAGE>

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IPC 8 full level

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CPC (source: EP KR US)

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Cited by

CN111590918A; EP2239217A3; EP0681974A1; US5649890A; CH688893A5; CN1064021C; WO2008068399A3

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EP 0415882 A2 19910306; **EP 0415882 A3 19910612**; **EP 0415882 B1 19941102**; AT E113531 T1 19941115; AU 6193190 A 19910307; AU 631920 B2 19921210; CA 2022549 A1 19910301; CA 2022549 C 20000613; CN 1022303 C 19931006; CN 1050000 A 19910320; DD 297368 A5 19920109; DE 59007617 D1 19941208; JP 2919026 B2 19990712; JP H03118156 A 19910520; KR 0169473 B1 19990501; KR 910004353 A 19910328; RU 1838150 C 19930830; UA 18592 A 19971225; US 5230456 A 19930727

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