

Title (en)
Roller

Title (de)
Walze

Title (fr)
Rouleau

Publication
EP 1029976 B1 20020724 (DE)

Application
EP 99103084 A 19990217

Priority
EP 99103084 A 19990217

Abstract (en)
[origin: EP1029976A1] The roller (1) for use with web material, such as of paper, has a heating system using a medium, and especially steam, fed into the roller and distributed round its circumference to give a heated roller surface. The steam is carried by axial channels (8) along the roller length, which terminate in a common ring-shaped condensation collection zone (12,13) with at least one condensation riser to an axial condensation exhaust channel (16). The condensation riser has a jet to inject steam into it to carry the condensation away. The injector jet is aligned at an acute angle against the condensation riser, to give an axial movement component on the injection line. The injector jet has a controlled position setting at the steam feed line. There are fewer condensation risers than condensation channels (8), using 1-4 risers at a condensation collection zone. The roller (1) has a roller body with a projecting journal at least at one end. The end sides of the roller body are covered by thermal insulation covers (5,6), screwed into place.

IPC 1-7
D21F 5/10; **D21G 1/02**

IPC 8 full level
D21F 5/10 (2006.01); **D21G 1/02** (2006.01)

CPC (source: EP)
D21F 5/10 (2013.01); **D21G 1/0266** (2013.01)

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