

Title (en)

Rewinding machine with perforating means and method

Title (de)

Aufwickelvorrichtung mit Perforiermitteln sowie Verfahren

Title (fr)

Dispositif d'enroulement ayant des moyens de perforation ainsi que procédé

Publication

EP 2067584 A1 20090610 (EN)

Application

EP 07023645 A 20071206

Priority

EP 07023645 A 20071206

Abstract (en)

A rewinding machine for making a log (2a) of paper comprises a feeding roller (3) of the web (1 and, downstream of, a cradle (4) adapted to put a core (20) in a winding zone (9) at which is made the production of the log (2a) same. The winding zone (9), according to the prior art, comprises a upper winding roller (5), a lower winding roller (6) and a pressure roller (7). The latter follows the growth of the log (2) with the task of assuring its continuous contact with the winding rollers (5, 6) controlling its diameter growth. Upstream from the feeding roller (3) a perforating roller (15) is provided having peripherally a plurality of blades (16) with helical profile arranged at a determined angular distance ² from each other, for example four blades (16a-16d) arranged at 90°. The perforating roller (15) is mounted rotatable about its own axis of rotation (35) and interacts with a counter-roller (10), rotatable about an axis (30) arranged opposite to it with respect to the conveying direction of the web of paper (1), to provide on this transversal perforation lines. In particular, the counter-roller (10) has at least one first cutting profiled edge (11), having teeth distanced by a pitch p1 and at least one second cutting profiled edge (12), having teeth distanced by a pitch p2, with p1 < p2, in order to selectively set the distance of the slits of the perforation line.

IPC 8 full level

B26F 1/20 (2006.01)

CPC (source: EP)

B26F 1/20 (2013.01); **B65H 19/267** (2013.01); **B26D 2001/623** (2013.01); **B65H 2408/235** (2013.01); **B65H 2511/11** (2013.01)

Citation (applicant)

- EP 1232980 A1 20020821 - MTC MACCHINE TRASFORMAZIONE [IT]
- IT 1167982 B 19870520 - PERINI FABIO
- EP 1554202 A2 20050720 - BRETTING C G MFG CO INC [US]

Citation (search report)

[A] WO 0006351 A1 20000210 - PERINI FABIO SPA [IT], et al

Cited by

CN109153215A; CN102581867A; FR3018795A1; US10471620B2; US11034122B2; WO2015140466A1; US10807263B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

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