

Title (en)
Device for supplying web material

Title (de)
Bandzuführvorrichtung

Title (fr)
Dispositif d'alimentation d'une bande

Publication
EP 1013585 A1 20000628 (EN)

Application
EP 98830783 A 19981224

Priority
EP 98830783 A 19981224

Abstract (en)
The device includes a storage unit (5 to 8) and accommodates a reserve length of the web material (W) to be supplied. A first (17) and second (9) driving means make it possible to selectively control both the speed of the web material at the intake side (2) and the speed with which the stored reserve length of web material (W) is paid out, so that the speed at which the web material (W) is supplied at the output side (3) of the device can be kept constant independently of the fact that the supply of web material (W) to the intake side (2) is either slowed down or brought to a complete halt to permit, for example, the replacement of a roll from which the web material is supplied and/or to splice two lengths of the web material (W). The operation of the driving means (9, 17) is enslaved to a control signal generated by a sensor (19 to 23) that is preferably located at the output side (3) of the device and includes a return means (19) around which there passes a loop of the web material (W) that is being supplied. The control signal is generated as a function of the slackening and the shortening of the said loop in substantial absence of longitudinal tensile stresses applied to the web material (W). <IMAGE>

IPC 1-7
B65H 23/04; **B65H 20/34**

IPC 8 full level
B65H 20/34 (2006.01); **B65H 23/04** (2006.01)

CPC (source: EP)
B65H 20/34 (2013.01); **B65H 23/042** (2013.01)

Citation (search report)
• [Y] EP 0521159 A1 19930107 - SK ENG CO LTD [JP], et al
• [Y] DE 2227995 A1 19740103 - GIESENHAGEN KG
• [A] GB 616271 A 19490119 - CARNEGIE ILLINOIS STEEL CORP
• [A] EP 0169476 A2 19860129 - GRAPHISCHER MASCHINENBAU GMBH [DE]
• [DA] US 3995791 A 19761207 - SCHOPPEE LAWRENCE W
• [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 240 (M - 336) 6 November 1984 (1984-11-06)

Cited by
CN104386520A; WO2011114254A1; US6811637B2; WO20057168A1; EP3095589A1; US10377085B2; EP2886089A1; EP3583929A1; EP3578344A1

Designated contracting state (EPC)
DE IT

DOCDB simple family (publication)
EP 1013585 A1 20000628

DOCDB simple family (application)
EP 98830783 A 19981224