

Title (en)
Surface winder and method.

Title (de)
Aufwickelmaschine mit Kontaktantrieb und Verfahren.

Title (fr)
Dispositif et méthode d'enroulement par entraînement de contact.

Publication
EP 0505712 A1 19920930 (EN)

Application
EP 92102496 A 19920214

Priority
US 67234391 A 19910320

Abstract (en)
A surface winder for developing a convolutely bound log in which a vacuum roll is positioned between the perforator and the station for applying a core to the web to take up slack developed during transfer. <IMAGE>

IPC 1-7
B65H 19/24

IPC 8 full level
B65H 19/22 (2006.01); **B65H 19/24** (2006.01); **B65H 19/26** (2006.01); **B65H 19/30** (2006.01); **B65H 35/10** (2006.01)

CPC (source: EP)
B65H 19/24 (2013.01); **B65H 19/26** (2013.01); **B65H 2402/351** (2013.01); **B65H 2408/235** (2013.01)

Citation (search report)
• [X] EP 0408526 A2 19910116 - PERINI NAVI SPA [IT]
• [AD] US 4828195 A 19890509 - HERTEL JAMES E [US], et al
• [Y] PATENT ABSTRACTS OF JAPAN vol. 8, no. 237 (P-310)30 October 1984 & JP-A-59 112 454 (SONY K.K.) 28 June 1984
• [A] PATENT ABSTRACTS OF JAPAN vol. 14, no. 212 (M-969)2 May 1990 & JP-A-02 048 361 (MITSUBISHI HEAVY IND. LTD.) 19 February 1990

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US6651923B2; CN114014065A; CN114014066A; US6464163B1; WO9932383A1

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