

Title (en)  
EXPANDABLE PIN FOR SUPPORTING PARENT REELS IN PAPER CONVERTING PLANTS

Title (de)  
EXPANDIERBARER STIFT ZUR UNTERSTÜTZUNG VON GROSSROLLEN IN PAPIERVERARBEITUNGSANLAGEN

Title (fr)  
CHEVILLE EXPANSIBLE PERMETTANT DE SUPPORTER DES BOBINES MÈRES DANS DES USINES DE TRANSFORMATION DU PAPIER

Publication  
**EP 3197810 A1 20170802 (EN)**

Application  
**EP 15818059 A 20150917**

Priority  
• IT FI20140216 A 20140923  
• IT 2015000231 W 20150917

Abstract (en)  
[origin: WO2016046854A1] Expandable pin for supporting reels of paper material, comprising an outer side (PX) and an inner side (PN), with the inner side (PN) that is adapted to be inserted into a reel (1) of paper material and with the outer side (PX) that remains on the outside of the same reel (1) when the inner side (PN) is inside the reel (1). An outer surface of said inner side (PN) is formed by more sectors (4), each of which is formed by a cylindrical surface portion with a free front part (40). The front parts (40) of said sectors (4) define a substantially circular shape with a diameter varying between a maximum value (4a) and a minimum value (4c). Each of said sectors (4) has a part pivoted on a respective hinge (42; 106) and is connected to moving means apt to determine its rotation around said hinge (42; 106) such that the sectors (4) define a cylindrical shape or a conical shape depending on their rotation around said hinge (42; 106).

IPC 8 full level  
**B65H 75/24** (2006.01)

CPC (source: EP US)  
**B65H 19/30** (2013.01 - US); **B65H 75/2437** (2021.05 - EP US); **B65H 75/248** (2013.01 - EP US); **B65H 2301/41346** (2013.01 - US); **B65H 2405/423** (2013.01 - US); **B65H 2801/84** (2013.01 - US)

Citation (search report)  
See references of WO 2016046854A1

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Designated extension state (EPC)  
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DOCDB simple family (publication)  
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