

Title (en)  
REEL

Publication  
**EP 0166713 B1 19870107 (DE)**

Application  
**EP 85890112 A 19850517**

Priority  
AT 197284 A 19840618

Abstract (en)  
[origin: US4630785A] A coiler comprises an expanding core comprising a tubular coiler shaft and an expanding mechanism, which is accommodated in the tubular coiler shaft and operable to extend heatable extensible segments. Heat insulating material and cooling means are provided between the heatable part of the expanding core and the coiler shaft. In order to restrict the dissipation of heat. Pressure applying tubes having axes which are radial with respect to the coiler shaft are provided between the expanding mechanism and the extensible segments. The wall thickness of said pressure applying tubes increases toward the extensible segments. Cooling means are provided between the pressure applying tubes and the expanding mechanism.

IPC 1-7  
**B65H 75/24**; **C21D 9/68**; **B21C 47/30**

IPC 8 full level  
**B65H 54/54** (2006.01); **B21C 47/02** (2006.01); **B21C 47/30** (2006.01); **B65H 75/24** (2006.01); **C21D 9/68** (2006.01)

CPC (source: EP KR US)  
**B21C 47/30** (2013.01 - EP US); **B65H 75/2484** (2021.05 - EP KR US); **C21D 9/68** (2013.01 - EP US); **B65H 2301/5305** (2013.01 - KR); **Y10S 242/909** (2013.01 - EP US)

Cited by  
DE102009029918A1; IT201800006760A1; CN112384314A; WO2020003182A1

Designated contracting state (EPC)  
BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0166713 A1 19860102**; **EP 0166713 B1 19870107**; AT 382393 B 19870225; AT A197284 A 19860715; CA 1226133 A 19870901; DD 233144 A5 19860219; DE 3560041 D1 19870212; JP S6117326 A 19860125; KR 860000208 A 19860127; SU 1311605 A3 19870515; US 4630785 A 19861223

DOCDB simple family (application)  
**EP 85890112 A 19850517**; AT 197284 A 19840618; CA 483007 A 19850603; DD 27744685 A 19850617; DE 3560041 T 19850517; JP 13008485 A 19850617; KR 850004217 A 19850614; SU 3911823 A 19850617; US 74274385 A 19850610