

Title (en)  
COMPOSITE COMPACTING ROLL

Publication  
**EP 0025394 B2 19890913 (FR)**

Application  
**EP 80401261 A 19800904**

Priority  
FR 7922444 A 19790907

Abstract (en)  
[origin: EP0025394A1] 1. A composite compacting cylinder, comprising a shaft and a case (2) which is an interference fit on said shaft, said case (2) being itself composite and comprising a first outer layer (3) of a first material A, a second inner layer (4) of a second material B, the materials of said two layers being metallurgically bonded together prior to the mounting of the case on the shaft, characterized in that the second material B has a coefficient of linear expansion which is higher than that of the material A, so as to pre-stress the material A in compression prior to the mounting of the case on the shaft, the value of this compression pre-stressing being at least equal to the tensile stress produced when the composite case is mounted on the shaft.

IPC 1-7  
**B30B 11/16**

IPC 8 full level  
**B21B 27/00** (2006.01); **B30B 11/16** (2006.01)

CPC (source: EP)  
**B21B 27/00** (2013.01); **B30B 11/165** (2013.01); **B21B 2267/10** (2013.01)

Cited by  
US2018036983A1; FR2663881A1; FR2578768A1; US4802528A; EP0178724A1; CN109534937A; EP3266602A4; KR20190064692A; US10479039B2; WO8605423A1; WO2022174186A1

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**EP 0025394 A1 19810318; EP 0025394 B1 19840215; EP 0025394 B2 19890913**; AT E6230 T1 19840315; BE 885101 A 19810305; CH 640177 A5 19831230; DE 3066603 D1 19840322; ES 495071 A0 19810616; ES 8105582 A1 19810616; FR 2464741 A1 19810320; FR 2464741 B1 19830624; IT 1147774 B 19861126; IT 8068385 A0 19800905; LU 82749 A1 19801215; MX 154296 A 19870629; ZA 805519 B 19810930

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