

Title (en)
COMPOSITE COMPACTING ROLL

Publication
EP 0025394 B1 19840215 (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.

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B30B 11/16

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

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