

Title (en)
DOWEL AND SLEEVE FOR THE ABSORPTION AND TRANSFER OF A SHEARING FORCE

Publication
EP 0059171 B1 19861112 (DE)

Application
EP 82810082 A 19820222

Priority
CH 116981 A 19810223

Abstract (en)
[origin: EP0059171A1] 1. Mandrel (1-13) and sleeve (21-32) for holding and transmission of a transverse force in only one direction and its opposite direction and for the compensation of thrust in the hereof vertical situated cross direction as well as in longitudinal direction, for the connecting of construction units in building and below grade construction like roof purlins, base plates, ceilings, walls, supports, retaining walls or parts thereof together or with other construction units, for which the sleeve (21-32) in one of the construction units to be connected, the mandrel (1-13) in the other one have to be connected and fixed in such a manner, that the mandrel (1-13) and/or the sleeve (21-32) protrudes of the construction unit referred to on the mandrel (1-13) penetrates the sleeve (21-32) at which the mandrel (1-13) has on both sides a movement clearance only in the for holding or transmitting transverse force vertically standing cross direction in the sleeve (21-32), which is at least as big as by the different extensions and contractions between both of the construction units to be connected, occurring mutual displacements accross of mandrel and sleeve, and the mandrel (1-13) and/or the sleeve (21-32) outside in the area of the connecting part and at least over one of its external end neighbouring section is equipped with a reinforcement (41-53, 61-72), which at least in the plane vertical to the received or transmitted transverse force has a bigger surface than the section of the mandrel or the sleeve, covered by the reinforcement, and at which the reinforcement (41-53, 61-72) under the effect of the transverse force is at least partly more elastic than the mandrel resp. the sleeve itself.

IPC 1-7
E04B 1/48; **E01C 11/14**

IPC 8 full level
E01C 11/14 (2006.01); **E04B 1/48** (2006.01)

CPC (source: EP)
E01C 11/14 (2013.01); **E04B 1/483** (2013.01)

Cited by
EP0328484A1; US4733513A; GB2285641A; EP0119652A3; US5618125A; US6145262A; US5941045A; EP3330448A1; US7736088B2; US6354760B1; WO9639564A1; US10077551B2; US10385567B2; EP0773324B1; EP2743415A1; US7637689B2; US7716890B2; US10119281B2; US7481031B2

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