

Title (en)  
Locking assurance construction

Title (de)  
Sperrsicherungskonstruktion

Title (fr)  
Construction assurant un verrouillage

Publication  
**EP 2186944 B1 20130529 (EN)**

Application  
**EP 09175649 A 20091111**

Priority  
FI U20080367 U 20081117

Abstract (en)  
[origin: EP2186944A2] The invention concerns a locking assurance construction in an extension joint for precast reinforced concrete piles. The first reinforced concrete pile (P1) and the second reinforced concrete pile (P2) have, at their interconnectible ends (11, 12), lock housings (2a) provided with transverse holes (3a), and lock spindles (2b) provided with transverse holes (3b). The lock housings and lock spindles extend one within the other with said transverse holes in line with each other. Said locking assurance construction comprises a locking ring (4) in each internal extension (13) of the transverse holes (3a) in the lock housings (2a). Said locking ring has between its outer diameter (D1) and inner diameter (D2) a continuous peripheral segment (5), and between the inner diameter (D2) and the bore diameter (D3) of a central aperture (15), spring tabs (6) separated from each other by radial slots (9). Said locking assurance construction also comprises in the insert pins (16), a cylindrical or cross-sectionally polygonal inner end (7), having an engagement diameter (D4) which is less than the locking ring's inner diameter (D2) and more than the locking ring's bore diameter (D3).

IPC 8 full level  
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CPC (source: EP)  
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Cited by  
WO2020094923A1; CN113756298A; RU200419U1; WO2016171566A1; WO2023084125A1; US11530519B2

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