

Title (en)  
Rigid coupling of sleepers

Title (de)  
Biegesteife Koppelung von Schwellen

Title (fr)  
Couplage résistant à la flexion de rails

Publication  
**EP 1908880 A1 20080409 (DE)**

Application  
**EP 07117272 A 20070926**

Priority  
• DE 102006045967 A 20060927  
• DE 102007014529 A 20070327

Abstract (en)  
The method involves making multiple pre-stressed concrete sleepers (12, 14) in a long clamping bed and interspersing the concrete sleepers by clamping steel wires (20-30) clamped in the clamping bed. The steel wires are anchored at front surface with full or desired pre-stressing force on anchor plate elements (16, 18) running along a front surface of the concrete sleepers. The anchor plate elements are pre-stressed by pre-stressing steel with a smooth surface running in a longitudinal direction of the sleeper, with the same pre-stressing force as the sleeper. An independent claim is also included for a connection between two pre-stressed concrete sleepers, and/or sections of pre-stressed concrete sleepers in particular pre-stressed concrete switch-point sleepers.

Abstract (de)  
Verfahren zum Herstellen von Stirnflächen aufweisenden Spannbetonschwellen (12,14), wobei mehrere Spannbetonschwellen in einem langen Spannbett hergestellt werden und die mehreren Spannbetonschwellen von in dem Spannbett gespannten Spannstahldrähten (24,26,28,30) durchsetzt werden. Entlang zumindest einer Stirnfläche der Spannbetonschwelle verläuft ein Ankeiplattenelement (16,18), in dem mit zumindest der vollen oder gewünschten Vorspannkraft die Spannstahldrähte an der Stirnfläche verankert werden.

IPC 8 full level  
**E01B 3/34** (2006.01); **E01B 7/22** (2006.01)

CPC (source: EP)  
**E01B 3/34** (2013.01); **E01B 7/22** (2013.01)

Citation (search report)  
• [A] DE 3832505 A1 19900329 - DYCKERHOFF & WIDMANN AG [DE]  
• [DA] DE 19519617 A1 19961205 - PFLEIDERER VERKEHRSTECHNIK [DE]  
• [A] EP 1026321 A1 20000809 - PFLEIDERER INFRASTRUKTURT GMBH [DE]  
• [A] GB 240757 A 19251008 - CHARLES JONES

Cited by  
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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1908880 A1 20080409**; DE 102007014529 A1 20080410

DOCDB simple family (application)  
**EP 07117272 A 20070926**; DE 102007014529 A 20070327