

Title (en)  
APPARATUS FOR MANUFACTURING PRESTRESSED CONCRETE RAILWAY TIES, AND TIES MANUFACTURED USING SUCH APPARATUS.

Title (de)  
VORRICHTUNG ZUM HERSTELLEN VON VORGESpanNTEN STAHLBETONEISENBAHNSCHWELLEN UND MIT DIESER VORRICHTUNG HERGESTELLE EISENBAHNSCHWELLEN.

Title (fr)  
APPAREIL DE FABRICATION DE TRAVERSES EN BETON PRECONTRAINTE POUR CHEMINS DE FER, ET TRAVERSES AINSI OBTENUES.

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Application  
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Abstract (en)  
[origin: WO9208589A1] An apparatus for manufacturing prestressed concrete piles or beams, in particular railway ties. The apparatus comprises a casting mould which is divisible into segments each having the length of a beam to be formed. Wire tensioning devices are arranged at the ends of the casting mould for tensioning the prestressing wires running through the segments. Upon hardening of the concrete poured into the casting mould, these prestressing wires can be cut between the respective segments by means of a cutting device so as to obtain separate prestressed beams of a length determined by the mould segments. According to the invention, adjacent mould segments are interconnected by at least one open passage (3) of trapezoidal cross-section surrounding the continuous prestressing wires (6), the mould (16) is supported by supporting means (13) which can be moved in vertical direction and vertically directed supporting rods (34) are provided at each open passage (3) between adjacent mould segments. These supporting rods (34) extend through the bottom of the mould (16) and can be moved in vertical direction separately from the mould (16). The arrangement is such that after hardening of the concrete poured into the mould (16), the interconnected beams (1, 1') remain supported by the supporting rods (34) during mould release by downward displacement of the mould (16).

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