

Title (en)  
Concrete element with an underside plastic sole

Title (de)  
Betonteil mit einer unterseitigen Kunststoffplatte

Title (fr)  
Élément en béton doté d'une semelle en plastique

Publication  
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Application  
**EP 11710720 A 20110311**

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- EP 10156352 A 20100312
- EP 2011053709 W 20110311
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Abstract (en)  
[origin: WO2011110669A1] The invention relates to a concrete sleeper comprising a plastic footing on its lower face and provided with a concrete body (12) which has a lower face (14). The concrete sleeper further comprises a plastic panel (18) which is disposed on the lower face (14) of the concrete body (12), the single-layer or multi-layer plastic panel (18) being connected to the concrete body (12) by a random fiber layer (16) which comprises fibers that are connected to the plastic panel (18) and/or are embedded in the concrete body (12). The random fiber panel (16) comprises fibers that have a diameter between 15 µm and 50 µm and a density of 20 to 200 fibers per square millimeter. Approximately 20% to 60% of the fibers have their free ends embedded in the concrete body (12) and the embedded fiber sections of the other fibers are designed as loops, approximately 10% to 60% of the free fiber ends embedded in the concrete being curved by 30° to 90° relative to the lower face (14) of the concrete body (12).

IPC 8 full level  
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Cited by  
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DOCDB simple family (publication)  
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