

Title (en)  
SUPPORTING BEAM PROVIDED WITH REINFORCEMENT

Title (de)  
TRAGBALKEN MIT VERSTÄRKUNG

Title (fr)  
POUTRE DE SUPPORT DOTÉE D'UN FERRAILLAGE

Publication  
**EP 3987123 C0 20231011 (EN)**

Application  
**EP 20745331 A 20200622**

Priority  
• NL 2024637 A 20200109  
• NL 2023349 A 20190620  
• NL 2020050407 W 20200622

Abstract (en)  
[origin: WO2020256559A1] A supporting beam 1 has a reinforcement 3 consisting of a number of parallel rods 5 extending in the longitudinal direction of the supporting beam and a number of strands 7, 9 of basalt fibers which are wound helically to the left and right around the rods, thereby crossing each other. In the places 13, 15 where the strands 7, 9 are in contact with the rods 5, the strands are attached to the rods and at the places where the strands 7, 9 intersect the strands are attached to each other. The reinforcement 3 is embedded in concrete 11, wherein a lower part 1A of the supporting beam which is subjected to tension during use has a trapezoidal cross-section and an upper part 1B of the supporting beam which is subjected to compression during use has a rectangular cross-section and the cross section of the lower part is smaller than the cross section of the upper part.

IPC 8 full level  
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CPC (source: EP)  
**E04C 3/20** (2013.01); **E04C 5/07** (2013.01); **E04C 5/0618** (2013.01)

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Participating member state (EPC – UP)  
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

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