

Title (en)
SUPPORTING BEAM PROVIDED WITH REINFORCEMENT

Title (de)
TRAGBALKEN MIT VERSTÄRKUNG

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

Publication
EP 3987123 A1 20220427 (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
E04C 3/20 (2006.01); **E04C 5/06** (2006.01); **E04C 5/07** (2006.01)

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

Citation (search report)
See references of WO 2020256559A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2020256559 A1 20201224; EP 3987123 A1 20220427; EP 3987123 B1 20231011; EP 3987123 C0 20231011

DOCDB simple family (application)
NL 2020050407 W 20200622; EP 20745331 A 20200622