

Title (en)
ENCAPSULATED METAL NODULES FOR THE FORMATION OF SACRIFICIAL ANODES IN MORTAR OR REINFORCED CONCRETE AND METHOD FOR THE PRODUCTION OF SAID NODULES

Title (de)
GEKAPSELTE METALLISCHE KNOLLEN ALS OPFERANODEN FÜR BEWEHRTEN MÖRTEL ODER BETON UND VERFAHREN ZUR HERSTELLUNG SOLCHER KNOLLEN

Title (fr)
NODULES METALLIQUES ENCAPSULES DESTINÉES À FORMER DES ANODES SACRIFICIELLES DANS UN MORTIER OU UN BETON ARMÉ ET PROCÉDE DE FABRICATION DE TELS NODULES

Publication
EP 1194389 A1 20020410 (FR)

Application
EP 00927332 A 20000511

Priority
• FR 0001281 W 20000511
• FR 9906253 A 19990512

Abstract (en)
[origin: FR2793486A1] Metal core contains metal or metal alloy having electrochemical potential lower than that of iron. Protective envelope surrounding core is made such that when the nodules are used to produce and apply mortar or concrete sufficient mechanical resistance is provided during mixing, and a temporary water barrier is established when mixing with mortar or concrete grains until setting is complete. The nodules have an average granulometry of 1-10 mm or 2-11 mm. Each nodule includes one or more conducting fibers, preferably carbon fibers, joined to the core. The protective envelope comprises a water-permeable shell having suitable mechanical resistance and impregnated or coated with a water-repelling material that changes properties in alkaline medium of applying the nodules as a temporary water barrier. Independent claims are given for: (a) a mortar including, preferably, 10 weight % of the nodules; (b) a concrete including, preferably, 10 weight % of the nodules; and (c) a method for production of the metallic nodules

IPC 1-7
C04B 14/34; **C04B 20/10**

IPC 8 full level
C04B 14/34 (2006.01); **C04B 20/12** (2006.01); **C04B 22/04** (2006.01); **C23F 13/00** (2006.01)

CPC (source: EP)
C04B 14/34 (2013.01); **C04B 20/12** (2013.01); **C04B 22/04** (2013.01); **C04B 2111/265** (2013.01); **C23F 2201/02** (2013.01)

C-Set (source: EP)
1. **C04B 14/34 + C04B 20/1007 + C04B 20/1011 + C04B 20/1014 + C04B 20/1055 + C04B 40/0633**
2. **C04B 20/12 + C04B 14/34 + C04B 20/1077**
3. **C04B 20/12 + C04B 14/34 + C04B 20/1018**

Citation (search report)
See references of WO 0069788A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
FR 2793486 A1 20001117; **FR 2793486 B1 20020419**; AU 4575700 A 20001205; CA 2373435 A1 20001123; EP 1194389 A1 20020410; JP 2003512518 A 20030402; WO 0069788 A1 20001123

DOCDB simple family (application)
FR 9906253 A 19990512; AU 4575700 A 20000511; CA 2373435 A 20000511; EP 00927332 A 20000511; FR 0001281 W 20000511; JP 2000618210 A 20000511