

Title (en)

Concrete and method of pre-stressing; container made of such concrete.

Title (de)

Beton und Verfahren zum Vorspannen; Behälter gefertigt aus diesem Beton.

Title (fr)

Béton et son procédé de mise en précontrainte, conteneur fabriqué avec ce béton.

Publication

**EP 0501879 B1 19950809 (FR)**

Application

**EP 92400491 A 19920226**

Priority

FR 9102340 A 19910227

Abstract (en)

[origin: EP0501879A1] The concrete according to the invention has better durability and mechanical strength characteristics which are equivalent to those of prestressed concrete. It comprises fibres (20) embedded within conventional concrete, these fibres being either fibres of a shape-memory metal alloy, or heat-shrinkable fibres. A subsequent heat treatment enables these fibres to take up a shape making it possible to induce compression stresses throughout the whole volume of the cast concrete. Application to the manufacture of containers for radioactive waste. <IMAGE>

IPC 1-7

**E04G 21/12**; **E04C 5/01**

IPC 8 full level

**B28B 23/04** (2006.01); **C04B 28/02** (2006.01); **C04B 40/00** (2006.01); **C22C 19/03** (2006.01); **E04C 5/01** (2006.01); **E04C 5/07** (2006.01); **E04C 5/08** (2006.01); **E04G 21/12** (2006.01); **G21F 9/36** (2006.01)

CPC (source: EP KR)

**E04C 5/012** (2013.01 - EP); **E04C 5/073** (2013.01 - EP); **E04C 5/08** (2013.01 - EP); **E04G 21/12** (2013.01 - EP KR)

Cited by

US5858082A; FR2709291A1; FR2705824A1; DE102012019125A1; DE102012019125B4; GB2465707A; US11691926B2; EP0922817A1; EP0712972A1; WO9612588A1; WO2006038225A3; WO2009019464A1

Designated contracting state (EPC)

BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0501879 A1 19920902**; **EP 0501879 B1 19950809**; CA 2061541 A1 19920828; DE 69203895 D1 19950914; FI 920848 A0 19920226; FI 920848 A 19920828; FR 2673223 A1 19920828; JP H058217 A 19930119; KR 920016682 A 19920925; TW 199228 B 19930201; ZA 921409 B 19921125

DOCDB simple family (application)

**EP 92400491 A 19920226**; CA 2061541 A 19920219; DE 69203895 T 19920226; FI 920848 A 19920226; FR 9102340 A 19910227; JP 4157692 A 19920227; KR 920003029 A 19920227; TW 81101449 A 19920226; ZA 921409 A 19920226