

Title (en)
DEVICE AND METHOD FOR MIXING A HYDRAULIC BINDER AND MINERAL MATERIALS WITH A LIQUID AND USE OF SAME

Title (de)
GEBRAUCH, VORRICHTUNG UND VERFAHREN ZUM MISCHEN EINES HYDRAULISCHEN BINDEMITTELS UND MATERIAL MIT EINER FLÜSSIGKEIT

Title (fr)
UTILISATION, DISPOSITIF ET PROCEDE DE MELANGE D'UN LIANT HYDRAULIQUE ET DE MATERIAUX MINEREAUX AVEC UN LIQUIDE

Publication
EP 0707512 A1 19960424 (FR)

Application
EP 94921687 A 19940706

Priority
• FR 9400829 W 19940706
• FR 9308587 A 19930707

Abstract (en)
[origin: US5810470A] PCT No. PCT/FR94/00829 Sec. 371 Date Apr. 5, 1996 Sec. 102(e) Date Apr. 5, 1996 PCT Filed Jun. 7, 1994 PCT Pub. No. WO95/01830 PCT Pub. Date Jan. 19, 1995A mixing device (1) having at least two concentric tubular elements (2, 3) including an outer tubular element (2) and an inner tubular element (3) inside the outer tubular element, the outer tubular element and the inner tubular element each supplying a liquid (5) or solid products to be mixed together, and a helical member (4) disposed for rotational movement inside the outer tubular element for entrainment of the liquid (5) or solid products, the helical member surrounding the inner tubular element, the outer tubular element including at least one inlet orifice (6a) for introducing the liquid (5) or solid products into the outer tubular element to be entrained by the helical member, and an outlet orifice (7) for delivering a mixture (9) of the liquid and solid products (5, 8) outside the outer tubular element, the inner tubular element (3) having an open end terminating inside the outer tubular element (2) downstream of the inlet orifice (6a) and upstream of the outlet orifice (7), wherein the mixture (9) is mortar, and the mortar is made of sand S, cement C and water W in ratios S/C from 0 to 10 and W/C from 0.1 to 2.

IPC 1-7
B01F 7/08; **B28B 19/00**; **B28C 5/14**

IPC 8 full level
B01F 7/08 (2006.01); **B28B 19/00** (2006.01); **B28C 5/14** (2006.01)

CPC (source: EP US)
B01F 27/725 (2022.01 - EP US); **B28B 19/0023** (2013.01 - EP US); **B28C 5/142** (2013.01 - EP US)

Citation (search report)
See references of WO 9501830A1

Designated contracting state (EPC)
AT CH DE ES FR GB IT LI

DOCDB simple family (publication)
US 5810470 A 19980922; AU 7230494 A 19950206; BG 99998 A 19960531; CA 2165428 A1 19950108; CZ 3296 A3 19960814; EG 20403 A 19990228; EP 0707512 A1 19960424; FR 2707204 A1 19950113; FR 2707204 B1 19950818; HU 9503676 D0 19960228; HU T74538 A 19970128; MX 9405138 A 19950131; MY 130058 A 20070531; PL 312459 A1 19960429; RU 2123379 C1 19981220; SA 95160489 B1 20051226; SK 696 A3 19970108; WO 9501830 A1 19950119

DOCDB simple family (application)
US 57190796 A 19960405; AU 7230494 A 19940706; BG 9999896 A 19960104; CA 2165428 A 19940706; CZ 3296 A 19940706; EG 40194 A 19940707; EP 94921687 A 19940706; FR 9308587 A 19930707; FR 9400829 W 19940706; HU 9503676 A 19940706; MX 9405138 A 19940706; MY PI9401760 A 19940706; PL 31245994 A 19940706; RU 96102780 A 19940706; SA 95160489 A 19951231; SK 696 A 19940706