

Title (en)
CONCRETE PRODUCT AND METHOD AND APPARATUS FOR PRODUCING A CONCRETE PRODUCT

Title (de)
BETONERZEUGNIS SOWIE VERFAHREN UND GERÄT ZUM HERSTELLEN EINES BETONERZEUGNISSES

Title (fr)
PRODUIT EN BETON, PROCEDE ET APPAREIL PERMETTANT DE LE FABRIQUER

Publication
EP 1187709 B1 20040414 (EN)

Application
EP 00929569 A 20000519

Priority
• FI 0000458 W 20000519
• FI 991165 A 19990521

Abstract (en)
[origin: WO0071315A1] The invention relates to a method and apparatus for manufacturing a fiber-reinforced concrete product, in which method at least one auger feeder (5) is used for propelling concrete mix through a defined extruder cross section (20, 21, 23). In the manufacture of the product, at least two different materials are produced suitable for use in the manufacture of a concrete product, at least one of the materials containing reinforcing fiber and both materials being dosed onto the auger feeders (5). The apparatus has two containers for the materials and during the feeding the relative proportions of the materials are controlled so that the ratio of the amount of the fiber-reinforced material to the amount of the unreinforced material is such that gives the end product an inhomogeneous distribution of the reinforcing fiber in the volume of the product, whereby at least one portion of the product volume has a greater volumetric content of the reinforcement than that of an equivalent volume in at least one other portion of the product. The final cast product contains desired amounts of reinforcement on areas where bigger loads are to be imposed on the product.

IPC 1-7
B28B 1/52; **B28B 3/22**; **E04C 2/06**

IPC 8 full level
B28B 1/00 (2006.01); **B28B 1/08** (2006.01); **B28B 13/02** (2006.01); **E04C 2/06** (2006.01)

CPC (source: EP)
B28B 1/008 (2013.01); **B28B 1/084** (2013.01); **B28B 3/228** (2013.01); **B28B 13/02** (2013.01); **B28B 13/022** (2013.01); **E04C 2/06** (2013.01)

Cited by
CN105883233A; US2020010227A1; US11897644B2

Designated contracting state (EPC)
DE FI IT NL

DOCDB simple family (publication)
WO 0071315 A1 20001130; AU 4759200 A 20001212; DE 60009901 D1 20040519; DE 60009901 T2 20050317; EP 1187709 A1 20020320; EP 1187709 B1 20040414; FI 109982 B 20021115; FI 991165 A0 19990521; FI 991165 A 20001122

DOCDB simple family (application)
FI 0000458 W 20000519; AU 4759200 A 20000519; DE 60009901 T 20000519; EP 00929569 A 20000519; FI 991165 A 19990521