

Title (en)
CONTINUOUS MIXING PLANT

Title (de)
KONTINUIERLICHE MISCHANLAGE

Title (fr)
INSTALLATION DE MALAXAGE CONTINU

Publication
EP 1118380 A1 20010725 (EN)

Application
EP 99973769 A 19990308

Priority
JP 9901114 W 19990308

Abstract (en)
An object of the present invention is to provide a continuous mixing plant that, for example, simply continuously feeds the necessary materials while metering the amount thereof and drops these materials by the gravitational force so that the mixed material may be manufactured continuously for a short period of time suitably. As a means for attaining this object, a continuous mixing plant comprising a continuous metering and feeding means for keeping on feeding at least two kinds of materials to be mixed with each other while continuously metering the materials, the number of the continuous metering and feeding means being the number corresponding to the materials, and at least one mixing box unit for mixing the materials fed continuously from the continuous metering and feeding means, is characterized in that the mixing box unit is provided with: a plurality of modified passages each of which has an inlet at one end and an outlet at the other end and a cross-sectional shape of which is continuously changed from the inlet toward the outlet and which extend in an axial direction; and a merging and dividing means provided between the inlet and the outlet of each of the modified passages for merging and dividing each material passing through each of the modified passages, and each material is continuously cast from the inlet portion and passed toward the outlet portion through each of the modified passages by the gravitational force to be mixed. In the case where the mixed material is concrete, in particular, each material is continuously measured with high precision and fed to a mixer to thereby make it possible to continuously produce the high quality concrete for a short period of time. <IMAGE>

IPC 1-7
B01F 5/00; **B01F 15/04**; **B01F 15/02**

IPC 8 full level
B01F 25/90 (2022.01); **B28C 5/04** (2006.01); **B28C 7/04** (2006.01); **B28C 9/00** (2006.01)

CPC (source: EP KR US)
B01F 25/00 (2022.01 - KR); **B01F 25/432** (2022.01 - EP); **B01F 25/4321** (2022.01 - EP); **B01F 25/83** (2022.01 - EP); **B01F 25/90** (2022.01 - EP); **B01F 33/26** (2022.01 - EP); **B01F 33/805** (2022.01 - EP); **B01F 33/834** (2022.01 - EP); **B01F 35/2218** (2022.01 - EP); **B01F 35/71705** (2022.01 - EP); **B01F 35/71731** (2022.01 - EP KR US); **B01F 35/71775** (2022.01 - EP); **B01F 35/892** (2022.01 - EP); **B28C 5/04** (2013.01 - EP); **B28C 7/0431** (2013.01 - EP); **B01F 23/60** (2022.01 - EP); **B01F 25/84** (2022.01 - EP); **B01F 33/82** (2022.01 - EP)

Cited by
GR1010334B; ITFI20110009A1; GB2419099A; GB2419099B; US6876904B2; US7050886B2; US7488141B2; WO2006005902A1; WO2004058469A1

Designated contracting state (EPC)
DE FR GB SE

DOCDB simple family (publication)
EP 1118380 A1 20010725; **EP 1118380 A4 20020123**; **EP 1118380 B1 20040602**; DE 69917794 D1 20040708; DE 69917794 T2 20050714; KR 20010043397 A 20010525; WO 0053302 A1 20000914

DOCDB simple family (application)
EP 99973769 A 19990308; DE 69917794 T 19990308; JP 9901114 W 19990308; KR 20007012423 A 20001107