

Title (en)

Apparatus and method for producing cellular mortar and concrete

Title (de)

Vorrichtung und Verfahren zur Herstellung von zellulärem Mörtel und Beton

Title (fr)

Appareil et procédé de production d'un mortier de béton cellulaire

Publication

**EP 2172319 A1 20100407 (EN)**

Application

**EP 09172141 A 20091002**

Priority

IT PV20080011 A 20081003

Abstract (en)

The invention relates to the construction sector, to apparatus for preparation of cellular concrete, and introduces a separation between the production stages, which are performed by two distinct but complementary apparatus: one for production of the water/cement mixture, the other for foam production, foam mixing with the grout and laying. The division of the production procedures by separating the apparatus enables work to be done in a continuous mode, guaranteeing rapidity and quality. By positioning the station for foam production and pumping at the laying level, structural shrinkage caused by collapsing of air cells after pumping, typical in the prior art, is prevented. The invention remotely pumps only the grout, whereas the product integrated with the foam is produced and laid by the mobile second apparatus, which is transported by the operatives as they move up through the building's floors, meaning that the operatives can work in high buildings or in positions that are remote from the locus of production of the grout, without there being any need for further intermediate pumping stations.

IPC 8 full level

**B28C 5/38** (2006.01)

CPC (source: EP)

**B28C 5/386** (2013.01)

Citation (search report)

- [X] AT 357459 B 19800710 - MAYREDER KRAUS & CO ING [AT]
- [X] US 5419632 A 19950530 - STEPHENS PATRICK J [US]
- [X] DE 19632666 C1 19980423 - INGENIEURKONTOR FUER MASCHINEN [DE], et al
- [A] FR 2246169 A5 19750425 - LEANDRI LUIGI [IT]
- [A] WO 9910296 A2 19990304 - FRIATEC AG [DE], et al

Cited by

CN105034172A; AT526383A1; AT526383B1; US2015083958A1; US9915065B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2172319 A1 20100407**; IT PV20080011 A1 20100404

DOCDB simple family (application)

**EP 09172141 A 20091002**; IT PV20080011 A 20081003