

Title (en)

METHOD AND DEVICE FOR PRODUCING HOLLOW MICROGLASS BEADS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON MIKROHOHLGLASKUGELN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE FABRICATION DE MICROPERLES EN VERRE CREUSES

Publication

EP 3475232 A1 20190501 (DE)

Application

EP 17745970 A 20170612

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- DE 102016117608 A 20160919
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Abstract (en)

[origin: CA3028838A1] The invention relates to a method and a device for producing hollow microglass beads (3.4) from molten glass (3), wherein the hollow microglass beads (3.4) are manufactured in a diameter range from 0.01 mm to 0.1 mm in a continuously operating process while avoiding glass filament formation. Molten glass strands (3.1) exiting a melting device (1) are atomized by means of hot gas (14) to form glass particles (3.2). Subsequently, during passage through a rounding/expansion duct (6), the glass particles (3.2) are rounded to form solid microglass beads (3.3) and expanded to form hollow microglass beads (3.4). The hollow microglass beads (3.4) can advantageously be used as a filler for lightweight building materials or as a constituent part of coatings, paints and plasters/renders.

IPC 8 full level

C03B 19/10 (2006.01)

CPC (source: EP KR US)

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DE 102016117608 A1 20171228; AU 2017287637 A1 20190214; BR 112018076667 A2 20190402; CA 3028838 A1 20180104; CN 109689582 A 20190426; EP 3475232 A1 20190501; IL 263885 A 20190131; JP 2019518709 A 20190704; KR 20190042549 A 20190424; MX 2018016147 A 20190610; RU 2019100695 A 20200728; US 2019202727 A1 20190704; WO 2018001409 A1 20180104

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