

Title (en)
MANUFACTURING MASTIC ASPHALT

Publication
EP 0140687 A3 19870422 (EN)

Application
EP 84307396 A 19841026

Priority
GB 8328877 A 19831028

Abstract (en)
[origin: EP0140687A2] In an installation for manufacturing mastic asphalt, bitumen from a hopper (10) is kept warm so that it remains sufficiently fluid to enable it to be easily handled and is supplied to a primary mixer (16). Powdered limestone filler from a hopper (14) is heated by means of heaters (18) and is added, together with unheated grit from a hopper (12), to the mixer (16), via a weighing hopper (20). The constituent materials are mixed without further heat input and are then discharged into a secondary mixer (24) where further mixing occurs. The mixer (24) incorporates passages for the circulation of a heat exchange medium which contacts the asphalt to cool it to a temperature suitable for moulding. The heat extracted from the asphalt is returned to the heaters (18) and re-used for heating the filler for asphalt produced subsequently. Asphalt is discharged from the secondary mixer (24) into a plurality of moulds (52) through a pneumatically-actuated gate (34). The gate (34) is operated by a control system incorporating a microprocessor. Each mould (52) is weighed after filling and a signal indicative of the weight of the mould is fed to the microprocessor. The time for which the gate (34) is opened is varied by the microprocessor in response to the measured weight of the mould so as to render the weight of the asphalt blocks produced as consistent as possible. Consequently, the blocks produced are of substantially uniform size and can be formed, after unmoulding, into a self-supporting stack. The filled moulds (52) are conveyed through a cooling tower (50) in which they pass through an array of spray nozzles arranged to spray water onto the moulds (52) so that at least some of the water impinging on the moulds (52) initially forms steam and thereby cools the asphalt. Inside the cooling tower (50) the moulds (52) are conveyed along a vertical zig-zag path so as to fit.

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B65B 63/08; **C10C 3/18**

IPC 8 full level
B65B 63/08 (2006.01); **C10C 3/18** (2006.01)

CPC (source: EP)
B65B 63/08 (2013.01); **C10C 3/18** (2013.01)

Citation (search report)
• [A] EP 0088258 A1 19830914 - SANGIORGI CESARE
• [A] DE 516355 C 19310122 - OPPERMAN & DEICHMANN, et al
• [A] DE 2359760 B2 19780323

Cited by
US6006497A; EP1053181A4; WO9842792A3

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EP 0140687 A2 19850508; **EP 0140687 A3 19870422**; GB 2148778 A 19850605; GB 2148778 B 19870624; GB 2152425 A 19850807; GB 8328877 D0 19831130; GB 8427197 D0 19841205

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