Title (en)

SLIPFORMING EXTRUDER FOR HOLLOW-CORE CONCRETE ELEMENTS

Publication

EP 0229751 B1 19900418 (EN)

Application

EP 87890002 A 19870112

Priority

FI 860235 A 19860117

Abstract (en)

[origin: EP0229751A2] This publication describes a slipforming extruder for production of hollow-core concrete elements (23), movable in respect to a casting bed (4) and comprising a frame (18) which is movable, e.g. supported by wheels (19), and provided with at least two adjacent auger flights (2, 25) with flights (5) and core-forming mandrels (3), mounted to the final end of each auger flight (2). Furthermore, the machine comprises a primary drive and power train system (7, 15, 16, 17) for rotating the auger flights (2) and a feed apparatus attached to the frame (18), e.g. a hopper (1), for feeding the auger flights (2) with the concrete mix to be cast. According to the invention, a secondary drive and power train system (8...14) is adapted to move the core-forming mandrel extensions (3) of the adjacent auger flights (e.g. 2 and 25) in a synchronized and counterphased reciprocating manner in the axial direction with respect to each other so as to make an annular slot (29) remaining between the final end of auger flights (2, 25) and corresponding core-forming mandrels (3, 30) alternately widen and narrow due to the relative movement between the auger flight (2, 25) and the corresponding counterphased moving core-forming mandrel (3, 30), thus mixing the concrete.

IPC 1-7

B28B 1/29; B28B 7/18

IPC 8 full level

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CPC (source: EP)

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