

Title (en)

Packerhead for a reinforced concrete pipe making machine

Title (de)

Verdichtungskopf einer Fertigungsmaschine für Stahlbetonrohre

Title (fr)

Tête de pressage pour machine à fabriquer des tuyaux en béton renforcés

Publication

EP 0689917 A3 19970618 (DE)

Application

EP 95106678 A 19950504

Priority

DE 4422891 A 19940630

Abstract (en)

[origin: US5616351A] A compaction head of a production machine for reinforced concrete pipes has a smoothing cylinder, non-rotatably mounted on its drive shaft, for smoothing the inside of the concrete mixture that has been filled into a vertical mold. On a covering wall of the smoothing cylinder, the rolls, for the radial compaction of a concrete mixture, are mounted axis-parallel and orbiting on a circular path around and driven by the drive shaft at a specified orbiting speed about the axis of the drive shaft and about their own axis, such that the direction of rotation of each of the rolls about its own axis is opposite to that of the covering wall also driven by the drive shaft. To prevent the concrete from being pushed along in front of the rolls during the compaction, and to assure that the concrete is compacted, without thrust, outward in the radial direction, so that the steel wires of the reinforcing cage are completely covered by concrete and that no stresses occur between the cage and the concrete, with corresponding cracks in the interior of the concrete, provision is made that the covering wall of the smoothing cylinder is mounted separately on the drive shaft so that it can rotate relative to the latter, and the rolls are driven by the drive shaft via a transmission, whose transmission ratio is chosen so that the circumferential speed of the rolls is at least the same as their orbiting speed.

IPC 1-7

B28B 21/24; **B28B 21/56**

IPC 8 full level

B28B 21/24 (2006.01); **B28B 21/56** (2006.01)

CPC (source: EP US)

B28B 21/24 (2013.01 - EP US); **B28B 21/247** (2013.01 - EP US)

Citation (search report)

- [X] US 3632270 A 19720104 - BAKER CLIFFORD AUBREY, et al
- [A] US 4407648 A 19831004 - FOSSE NAVARRO T [US]
- [A] US 4540539 A 19850910 - CRAWFORD GERALD R [US], et al

Designated contracting state (EPC)

AT DE ES FR GB IT

DOCDB simple family (publication)

US 5616351 A 19970401; AT E212278 T1 20020215; DE 4422891 C1 19950302; DE 59510006 D1 20020314; EP 0689917 A2 19960103; EP 0689917 A3 19970618; EP 0689917 B1 20020123; ES 2168103 T3 20020601

DOCDB simple family (application)

US 58265996 A 19960103; AT 95106678 T 19950504; DE 4422891 A 19940630; DE 59510006 T 19950504; EP 95106678 A 19950504; ES 95106678 T 19950504