

Title (en)  
**MIXER**

Publication  
**EP 0105107 B1 19870722 (DE)**

Application  
**EP 83107090 A 19830720**

Priority  
DE 3236780 A 19821005

Abstract (en)  
[origin: ES8404616A1] Mixing apparatus is provided for the production of mixtures of particulate solids and in particular, for the production of various mortar mixtures. The apparatus includes metering means, control means and transfer means for metering out and introducing predetermined quantities of components into a mixer and thereupon, after mixing, delivering the mixed product into means for loading transportation vehicles. The apparatus has no intermediate containers for storing various mixtures of building materials. A mixer is provided which can be emptied residue-free. A self-cleaning conveying system from the mixer to each transfer device is further provided. The lower wall zone of the mixer can be completely opened for residue-free emptying, the opening angle being greater than the angle of slide of the mixing material or residues thereof in the mixer. Such an opening prevents appreciable residues from being left in the mixer and from contaminating subsequent mixtures.

IPC 1-7  
**B01F 15/02**; **B01F 3/18**; **B01F 7/04**; **B28C 5/14**; **B28C 7/10**; **B28C 7/16**; **B28C 9/02**

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**B01F 15/02** (2006.01); **B01F 3/18** (2006.01); **B01F 7/04** (2006.01); **B01F 13/00** (2006.01); **B28C 5/14** (2006.01); **B28C 7/10** (2006.01); **B28C 7/16** (2006.01); **B28C 9/00** (2006.01); **B28C 9/02** (2006.01)

CPC (source: EP KR US)  
**B01F 33/00** (2022.01 - KR); **B01F 35/71** (2022.01 - KR); **B28C 9/00** (2013.01 - EP US)

Citation (examination)

- DE 3027069 A1 19820218 - MATHIS SYSTEMTECHNIK GMBH [DE]
- FR 1329058 A 19630607
- CH 349477 A 19601015 - BUEHLER AG GEB [CH]

Cited by  
EP0391494A1; CN102922605A; DE3930954A1; CN111923242A; CN111361007A; CN104118059A

Designated contracting state (EPC)  
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