

Title (en)
Installation for mixing liquids with solid materials

Title (de)
Anlage zum Mischen von Flüssigkeit und Feststoff

Title (fr)
Appareil pour mélanger des liquides avec des solides

Publication
EP 0729780 A3 19970108 (DE)

Application
EP 96102635 A 19960222

Priority
DE 19507366 A 19950303

Abstract (en)
[origin: EP0729780A2] A predetermined quantity of liq. is mixed with a predetermined quantity of solid, e.g. pigment, in a plant having a storage container (1) for the liq. and a mixer (4) with a mixing shaft (9) powered by a drive motor (11). A liq. supply line (34) connects a supply pipe (13) of the mixer to the container and a solid metering device (29) opens into the pipe. The required ratio of solid to liq. is obtd. by several passages of the liq. through the mixer. The mixer is separate from the container and has an outlet (24) connecting to the storage container via a return line (25).

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B01F 3/12; **B01F 5/10**

IPC 8 full level
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B01F 23/50 (2022.01 - KR); **B01F 23/56** (2022.01 - EP); **B01F 23/59** (2022.01 - EP US); **B01F 25/51** (2022.01 - EP US);
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B01F 23/56 (2022.01 - US); **B01F 27/112** (2022.01 - EP US); **B01F 27/1143** (2022.01 - EP US)

Citation (search report)
• [A] US 4099005 A 19780704 - FULLINGTON MICHAEL C, et al
• [AD] US 4394980 A 19830726 - MAERZ DIETER [DE], et al
• [A] DE 3340544 A1 19840510 - MITECO AG [CH], et al
• [AD] WO 9221436 A1 19921210 - YSTRAL GMBH MASCHINENBAU & PRO [DE]
• [A] US 2718471 A 19550920 - SAMLER LEE F
• [A] DE 3922389 A1 19910117 - PROCTER & GAMBLE GMBH [DE]

Cited by
IT201900023220A1; EP0805174A1; US5856381A; DE19917056A1; DE19917056B4; EP3418352A1; WO9851406A1; WO2014127761A1

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