

Title (en)

Apparatus for dispensing slurry to a workpiece.

Title (de)

Vorrichtung zum Aufsprühen eines abrasiven Fluids auf Werkstücke.

Title (fr)

Appareil pour projeter un liquide abrasif sur une pièce.

Publication

**EP 0283113 A1 19880921 (EN)**

Application

**EP 88300509 A 19880121**

Priority

US 1577487 A 19870217

Abstract (en)

A slurry dispensing apparatus for supplying slurry to a workpiece comprises a reservoir (10) for containing a supply of slurry, a first conduit (16) in fluid communication with the reservoir (10), and selectively operable pressure means (20,21,24,26,28) operable to force slurry from the reservoir into the first conduit (16). A needle or nozzle (14) supplies slurry to a workpiece. A bypass chamber (18) connects the first conduit (16) to the needle or nozzle to supply slurry under pressure from the first conduit (16) to the needle or nozzle (14), the bypass chamber (18) diverting excess slurry. A second conduit (30) is connected to the bypass chamber (18) for receiving the excess slurry from the first conduit (16). A chamber (32) is positioned at an elevation below the bypass chamber (18) and is connected to the second conduit (30) to receive the excess slurry. A delivery conduit (34,38) delivers slurry in the chamber (32) to the reservoir (10). The delivery conduit includes a normally closed first valve (38), so that, when slurry is forced from the reservoir (10) to the needle or nozzle (14), excess slurry is collected in the chamber (32) and, when the pressure means (20,21,24,26,28) is operated not to force slurry from the reservoir (10), the valve (34) is opened to permit slurry in the chamber (32) to return to the reservoir (10) and air is admitted to clean the apparatus.

IPC 1-7

**B05B 15/02; B24C 1/08**

IPC 8 full level

**B65G 53/30** (2006.01); **B05B 9/04** (2006.01); **B05B 15/02** (2006.01); **B05B 15/55** (2018.01); **B24C 7/00** (2006.01)

CPC (source: EP)

**B05B 9/04** (2013.01); **B05B 15/55** (2018.01); **B24C 7/00** (2013.01)

Citation (search report)

- [A] US 3559351 A 19710202 - RICHTER EDWARD S
- [A] FR 2555469 A1 19850531 - BERTHOUD SA [FR]
- [A] US 3019522 A 19620206 - BLUTH JOHN M, et al

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0283113 A1 19880921**; JP S63202518 A 19880822

DOCDB simple family (application)

**EP 88300509 A 19880121**; JP 32941287 A 19871225