

Title (en)

METHOD OF AND ARRANGEMENT FOR APPLYING A FLUID TO A SURFACE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUFTRAG EINES FLUIDS AUF EINE OBERFLÄCHE

Title (fr)

PROCEDE ET DISPOSITIF D'APPLICATION D'UN FLUIDE SUR UNE SURFACE

Publication

**EP 0784514 B1 20011010 (EN)**

Application

**EP 95921103 A 19950627**

Priority

IB 9500521 W 19950627

Abstract (en)

[origin: WO9701393A1] The invention relates to a method of applying a fluid (12) to a surface (13), the pressurised fluid being applied from a container (1) to the surface via a hollow needle (7). In order to preclude clogging of the needle the needle is subjected to a longitudinal vibration during the application of fluid. The invention also relates to an arrangement for carrying out the method, the arrangement comprising a vibration device (3), such as a piezoelectric transducer, which can be coupled to the needle (7) to set the needle into longitudinal vibration. The fluid may be, for example, a solder paste or an adhesive.

IPC 1-7

**B05B 15/02**; B05C 21/00

IPC 8 full level

**B05C 5/00** (2006.01); **B05C 11/10** (2006.01); **B05D 1/26** (2006.01); **B05D 3/12** (2006.01); **H05K 3/34** (2006.01); **B05B 15/02** (2006.01); **B05B 17/06** (2006.01)

CPC (source: EP US)

**B05C 11/10** (2013.01 - EP US); **B05B 15/50** (2018.01 - EP US); **B05B 17/06** (2013.01 - EP)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**WO 9701393 A1 19970116**; DE 69523164 D1 20011115; DE 69523164 T2 20020606; EP 0784514 A1 19970723; EP 0784514 B1 20011010; JP H10505280 A 19980526

DOCDB simple family (application)

**IB 9500521 W 19950627**; DE 69523164 T 19950627; EP 95921103 A 19950627; JP 50426597 A 19950627