

Title (en)
Method for hardening an adhesive material

Title (de)
Verfahren zur Aushärtung eines Klebstoffs

Title (fr)
Procédé de durcissement d'une colle

Publication
EP 2329884 B1 20120222 (DE)

Application
EP 09013847 A 20091104

Priority
EP 09013847 A 20091104

Abstract (en)
[origin: EP2329884A1] The method for hardening an adhesive (3'), which is arranged on a first component (1') and a second component (2') to be adhered with the first component, by application of adhesive with a radiation (20), comprises influencing a part of the radiation directed in the direction of the adhesive in such a way that the part strikes on the selected area of the adhesive. The part of the radiation is blocked or diverted. A complete application of the adhesive with the radiation is carried out with a further irradiation process. The method for hardening an adhesive (3'), which is arranged on a first component (1') and on a second component (2') to be adhered with the first component, by application of adhesive with a radiation (20), comprises influencing a part of the radiation directed in the direction of the adhesive in such a way that the part strikes on the selected area of the adhesive. The part of the radiation is blocked or diverted. The ratio of the area and/or the surface on which the radiation is not struck on the basis of blockage or diversion on the available adhesive is selected to the area and/or the surface on which the radiation is struck on the available adhesive, in such a way that the adhesive volume not stopping the radiation is slightly greater than the shrink volume of the hardened adhesive. A complete application of the adhesive with the radiation is carried out with a further irradiation process. The adhesive is applied as layer between the components to be adhered, and a flat, radiopaque mask is used as means for partial blockage of the beam, where the mask is equipped with a radiation permeable area and is positioned between the radiation source and the component to be adhered. The radiation is UV-radiation and the adhesive is UV-curable adhesive. An independent claim is included for a microfluidic system.

IPC 8 full level
B01L 3/00 (2006.01); **B81C 3/00** (2006.01); **C08F 2/46** (2006.01)

CPC (source: EP)
B01L 3/502707 (2013.01); **B01L 2200/12** (2013.01)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2329884 A1 20110608; EP 2329884 B1 20120222; AT E546226 T1 20120315

DOCDB simple family (application)
EP 09013847 A 20091104; AT 09013847 T 20091104