Title (en)

PROCESS FOR MAKING FOAM RESINS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON SCHAUMHARZEN

Title (fr)

PROCÉDÉ DE PRÉPARATION DE RÉSINES EXPANSÉES

Publication

EP 1861453 A1 20071205 (EN)

Application

EP 06723058 A 20060217

Priority

- EP 2006001463 W 20060217
- EP 05425146 A 20050311
- EP 06723058 A 20060217

Abstract (en)

[origin: EP1700880A1] Process for making foam resins starting from a first composition, which is polymerizable through a radicalic mechanism, contained in a reservoir (1) and by a second polymerizable composition, for example an epoxy resin and an anhydride, which at room temperature is in the liquid state, contained in a reservoir (2). In particular, the first composition contains a catalyst for triggering polymerization in the second composition and the second composition comprises a catalyst for triggering polymerization in the first composition. In particular, the first composition comprises a polyester, a vinylester or an acrylic compound. In particular, the second composition comprises an epoxy resin, for example a mono-glycidyl-ether, a di-glycidyl-ether or a tri-glycidyl-ether and by an anhydride that can be: phthalic anhydride, tetra-hydro-phtalic anhydride, HET anhydride, methyl-nadic anhydride. Through a pressurized duct (11 or 13) a determined amount of a swelling gas is added, for example CO 2 or N 2 , in two respective reservoirs (1 or 2), then the compositions and the swelling dissolved gas are sent by means of volumetric pumps (20) to a mixer (3) in which they are mixed and some process parameters are controlled, in particular viscosity. The mixture obtained is then brought to an expansion head (35) in which a controlled expansion is achieved of the mixture that causes a pressure reduction and causes a gas solubility decrease in the liquid that expands in the liquid mass forming bubbles.

IPC 8 full level

C08J 9/00 (2006.01); **B29C 44/12** (2006.01); **B32B 5/18** (2006.01); **C08L 63/02** (2006.01)

CPC (source: EP)

C08J 9/0061 (2013.01); **C08L 63/00** (2013.01); C08J 2363/00 (2013.01)

C-Set (source: EP)

C08L 63/00 + **C08L 2666/18**

Citation (search report)

See references of WO 2006094614A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1700880 A1 20060913; EP 1861453 A1 20071205; WO 2006094614 A1 20060914

DOCDB simple family (application)

EP 05425146 A 20050311; EP 06723058 A 20060217; EP 2006001463 W 20060217