

Title (en)

Process for preparing expandible polystyrene beads.

Title (de)

Verfahren zur Herstellung von kugelförmigen, expandierbaren Styrolpolymerisaten.

Title (fr)

Procédé de préparation de perles expansibles en polystyrène.

Publication

**EP 0000572 A1 19790207 (DE)**

Application

**EP 78100482 A 19780724**

Priority

DE 2734607 A 19770801

Abstract (en)

1. A process for the production of spherical, expandable styrene polymers by polymerization of styrene in the presence of particulate styrene polymer, containing expanding agent, in aqueous suspension, characterized by the following process steps : A. styrene polymer containing expanding agent and having a particle size between 0.1 and 5 mm is impregnated with 10 to 100% by weight (based on the polymer containing expanding agent) for 0.5 to 5 hours in aqueous suspension at temperatures between 0 and 75 degrees C, B. the styrene absorbed in the styrene polymer particles is then polymerized in the aqueous suspension at temperatures between 90 and 140 degrees C in the presence of 0.01 to 1% by weight (based on the styrene) of an organic peroxide.

Abstract (de)

Verfahren zur Herstellung von kugelförmigen, expandierbaren Styrolpolymerisaten durch Polymerisation von Styrol in Gegenwart von kugelförmigen oder Zylinderförmigem, treibmittelhaltigem Styrolpolymerisat in wässriger Suspension. Das teilchenförmige Styrolpolymerisat wird erst bei Temperaturen unterhalb von 100°C mit Styrol imprägniert, dann wird das absorbierte Styrol bei Temperaturen zwischen 90°C und 140°C in Gegenwart von organischem Peroxid polymerisiert.

IPC 1-7

**C08J 9/20**

IPC 8 full level

**C08F 257/02** (2006.01); **C08J 9/20** (2006.01)

CPC (source: EP)

**C08F 257/02** (2013.01); **C08J 9/20** (2013.01); **C08J 2325/04** (2013.01)

C-Set (source: EP)

**C08F 257/02 + C08F 212/08**

Citation (search report)

- US 3553112 A 19710105 - WEINSTEIN JERRY L, et al
- [D] DE 2338132 A1 19750227 - SEKISUI CHEMICAL CO LTD [JP], et al
- [A] FR 1368544 A 19640731 - BASF AG

Cited by

EP0053039A1; EP0379084A3; FR2428057A1; WO2010066454A2; US9976006B2; WO2010066454A3; WO2010066331A1; EP4345123A1; NL2033188B1; WO2015101621A1

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DOCDB simple family (application)

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