

Title (en)

APPARATUS AND METHOD FOR ADVANCED STRUCTURAL FOAM MOLDING

Title (de)

VORRICHTUNG UND VERFAHREN ZUM FORTSCHRITTLICHEN STRUKTURSCHAUMSTOFF-SPRITZGIESSEN

Title (fr)

DISPOSITIF ET PROCEDE POUR LE MOULAGE EVOLUE DE MOUSSE STRUCTUREE

Publication

**EP 1937455 A2 20080702 (EN)**

Application

**EP 06820982 A 20060830**

Priority

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Abstract (en)

[origin: WO2007026257A2] An advanced structural foam molding technology for improving the dispersion of the blowing agent in the polymer matrix has been invented. This technological innovation is an Improvement on the well-known existing low-pressure structural foam molding technology based on the preplasticating-type (so called piggy-bag) injection-molding machines. By introducing means for continuing the polymer matrix melt flow stream, preferably an additional accumulator and a gear pump, the processing conditions become more consistent to disperse the injected gas more uniformly in the polymer matrix. By using this technology, the structural foams have a smaller cell size, a more uniform cell structure, a larger void fraction (i.e., more material saving), less surface swirl, and less weld line contrast.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2007026257A2

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