

Title (en)
PROCESS FOR THE PRODUCTION OF HIGH IMPACT POLYSTYRENE

Title (de)
DAS VERFAHREN ZUR ERZEUGUNG VON POLYSTYROL MIT HOHER SCHLAGFESTIGKEIT

Title (fr)
PROCÉDÉ DE PRODUCTION DE POLYSTYRÈNE CHOC

Publication
EP 1996632 A2 20081203 (EN)

Application
EP 07753329 A 20070316

Priority
• US 2007006694 W 20070316
• US 38473706 A 20060320

Abstract (en)
[origin: CN101405313A] The present invention discloses a continuous process for producing high impact polystyrene comprising feeding at least one vinyl aromatic monomer, an elastomer, and a free radical initiator to a first linear flow reactor to form a reaction mixture, polymerizing the reaction mixture in said linear flow reactor to at least the phase inversion point of the mixture, and feeding the reaction mixture from the first linear flow reactor to a second reactor for post-inversion polymerization of the mixture. A method of producing an elastomer-reinforced polymer comprising inverting a reaction mixture comprising at least one vinyl aromatic monomer, an elastomer, and a free radical initiator in a plug flow reactor. A high impact polystyrene reactor system, comprising a linear flow reactor having an inlet and an outlet, and a continuously stirred tank reactor having an inlet in fluid communication with the linear flow reactor outlet and receiving an effluent from the linear flow reactor.

IPC 8 full level
B01J 19/18 (2006.01); **B01J 19/24** (2006.01); **C08F 279/02** (2006.01); **C08L 51/04** (2006.01)

CPC (source: EP)
B01J 19/2415 (2013.01); **C08F 279/02** (2013.01); **C08L 51/04** (2013.01)

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
CA 2642953 A1 20070927; CN 101405313 A 20090408; CN 101405313 B 20110209; EP 1996632 A2 20081203; EP 1996632 A4 20100602

DOCDB simple family (application)
CA 2642953 A 20070316; CN 200780010029 A 20070316; EP 07753329 A 20070316