

Title (en)
METHOD FOR PRODUCING ETHYLENE HOMOPOLYMERS AND COPOLYMERS BY MEANS OF RADICAL HIGH PRESSURE
POLYMERIZATION

Title (de)
VERFAHREN ZUR HERSTELLUNG VON ETHYLENHOMO- UND -COPOLYMEREN DURCH RADIKALISCHE HOCHDRUCKPOLYMERISATION

Title (fr)
PROCEDE POUR LA PRODUCTION D'HOMOPOLYMERES ET DE COPOLYMERES D'ETHYLENE PAR POLYMERISATION RADICALE A
HAUTE PRESSION

Publication
EP 1395618 A1 20040310 (DE)

Application
EP 02743142 A 20020604

Priority
• DE 10128221 A 20010611
• EP 0206074 W 20020604

Abstract (en)
[origin: DE10128221A1] The invention relates to a method for producing ethylene homopolymers and copolymers by means of radical polymerization in a tubular reactor at pressures greater than 1000 bar and temperatures ranging from 120 to 400 DEG C. Initially, small quantities of radical chain starters are supplied to a streaming flow medium containing ethylene, molar mass regulators and optionally, polyethylene, whereupon polymerization takes place. According to the invention, polymerization takes place at pressures between 2000 and 3500 bar, and the temperature profile of the reaction mixture inside the tubular reactor ranges from 100 to 350 DEG C.
[origin: DE10128221A1] Preparation of ethylene homo- and copolymers in a rotary reactor at a pressure above 1000 bar and temperature 100-400 deg C during radical polymerization with a streaming flow medium containing ethylene, a molecular weight regulator, small amounts of radical chain starter and, optionally polyethylene (PE). Polymerisation is conducted at 2000-3500 bar and the temperature is held at 100-350 deg C.

IPC 1-7
C08F 10/02

IPC 8 full level
C08F 2/38 (2006.01); **C08F 2/00** (2006.01); **C08F 2/01** (2006.01); **C08F 10/02** (2006.01); **C08F 110/02** (2006.01)

CPC (source: EP US)
C08F 10/02 (2013.01 - EP US); **C08F 110/02** (2013.01 - EP US)

Citation (search report)
See references of WO 02100907A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
DE 10128221 A1 20021219; CN 1233670 C 20051228; CN 1527850 A 20040908; EP 1395618 A1 20040310; JP 2004529253 A 20040924; JP 4150335 B2 20080917; US 2004220358 A1 20041104; US 6894126 B2 20050517; WO 02100907 A1 20021219

DOCDB simple family (application)
DE 10128221 A 20010611; CN 02811698 A 20020604; EP 0206074 W 20020604; EP 02743142 A 20020604; JP 2003503673 A 20020604; US 48024403 A 20031209