

Title (en)  
BROAD MOLECULAR WEIGHT DISTRIBUTION POLYMER PRODUCT FROM LOOP REACTORS WITH INTENTIONAL THERMAL GRADIENTS

Title (de)  
POLYMERPRODUKT MIT BREITER MOLEKULARGEWICHTSVERTEILUNG AUS SCHLAUFENREAKTOREN MIT GEZIELTEN THERMISCHEN GRADIENTEN

Title (fr)  
PRODUIT POLYMÈRE À LARGE DISTRIBUTION DE POIDS MOLÉCULAIRE ISSU DE RÉACTEURS EN BOUCLE À GRADIENTS THERMIQUES INTENTIONNELS

Publication  
**EP 3947480 A1 20220209 (EN)**

Application  
**EP 20720578 A 20200323**

Priority

- US 201962829750 P 20190405
- EP 19173838 A 20190510
- US 2020024226 W 20200323

Abstract (en)  
[origin: WO2020205311A1] A method for producing a polyolefin with a wide molecular weight distribution can comprise: polymerizing one or more monomers in the presence of a catalyst system in a loop reactor to produce a polyolefin product having a polydispersity index of 2.5 to 8, wherein the loop reactor comprises two or more reactors in series, and wherein the loop reactor has a loop thermal gradient of 50°C to 150°C and/or a standard deviation of inter-component thermal gradients along the loop reactor of 10°C to 50°C.

IPC 8 full level  
**C08F 210/06** (2006.01)

CPC (source: EP)  
**C08F 10/00** (2013.01); **C08F 2400/02** (2013.01)

Citation (search report)  
See references of WO 2020205311A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2020205311 A1 20201008**; CN 113646343 A 20211112; EP 3947480 A1 20220209; SG 11202110446Q A 20211028

DOCDB simple family (application)  
**US 2020024226 W 20200323**; CN 202080025947 A 20200323; EP 20720578 A 20200323; SG 11202110446Q A 20200323