



(12) **CORRECTED EUROPEAN PATENT APPLICATION**
published in accordance with Art. 153(4) EPC

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 71

(48) Corrigendum issued on:
17.01.2024 Bulletin 2024/03

(43) Date of publication:
06.12.2023 Bulletin 2023/49

(21) Application number: **22745275.2**

(22) Date of filing: **26.01.2022**

(51) International Patent Classification (IPC):
C08F 2/01 ^(2006.01) **C08F 4/646** ^(2006.01)
C08F 210/16 ^(2006.01)

(52) Cooperative Patent Classification (CPC):
C08F 2/01; C08F 4/646; C08F 210/16

(86) International application number:
PCT/CN2022/074017

(87) International publication number:
WO 2022/161402 (04.08.2022 Gazette 2022/31)

(84) Designated Contracting States:
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 States:
BA ME
Designated Validation States:
KH MA MD TN

(30) Priority: **01.02.2021 CN 202110135415**
01.02.2021 CN 202110135426
01.02.2021 CN 202110135239

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(54) **ETHYLENE POLYMER AND PREPARATION METHOD THEREFOR**

(57) The present invention relates to an ethylene polymer and a process for preparing the same, wherein the ethylene polymer has an average particle size of 50-3000 μm , a bulk density of 0.28-0.55 g/cm^3 , a true density of 0.930-0.980 g/cm^3 , a melt index at a load of 2.16Kg at 190°C of 0.01-2500 g/10min , a crystallinity of 30-90%, a melting point of 105-147°C, a comonomer molar insertion rate of 0.01-5 mol%, a weight-average molecular weight of 2×10^4 g/mol - 40×10^4 g/mol , and a molecular weight

distribution of 1.8-10. In the preparation process, raw materials containing ethylene, hydrogen gas and a comonomer are subjected to a tank-type slurry polymerization with an alkane solvent having a boiling point of 5-55°C or a mixed alkane solvent having a saturated vapor pressure of 20-150KPa at 20°C as the polymerization solvent in the presence of a polyethylene catalytic system, at the molar ratio of hydrogen gas to ethylene of 0.01-20:1, preferably 0.015-10:1, at the molar ratio of hydrogen gas to

the comonomer of 0.1-30:1, preferably 0.15-25:1 to prepare the ethylene polymer.