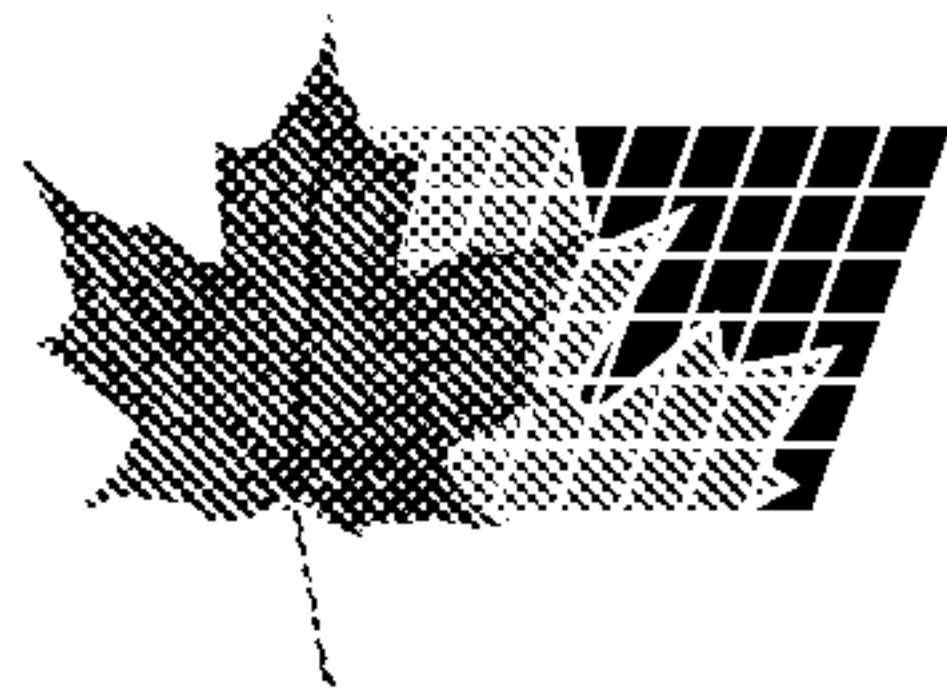




- (72) KONAKA, TSUTOMU, JP
(72) HAMBACH, MASASHI, JP
(72) ICHIKAWA, YOSHIYUKI, JP
(72) OGINO, KOICHI, JP
(71) SUMITOMO CHEMICAL COMPANY, LIMITED, JP
(51) Int.Cl.⁷ C08F 210/16, C08F 110/00, C08F 10/00
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(54) **REACTEUR A LIT FLUIDISE POUR LA POLYMERISATION EN
PHASE GAZEUSE D'OLEFINES, PROCESSUS DE
POLYMERISATION D'OLEFINES ET METHODE DE
PRODUCTION DE POLYMERES OLEFINIQUES**
(54) **FLUIDIZED BED REACTOR FOR GAS PHASE OLEFIN
POLYMERIZATION, PROCESS FOR POLYMERIZING OLEFIN
AND PROCESS FOR PRODUCING OLEFINIC POLYMER**

(57) There are provided: (1) a fluidized bed reactor for gas phase olefin polymerization, which has at least one drawing-out means for drawing out olefinic polymer powder within every zone of: (i) a zone (zone X) from a gas distribution plate to a height L_1 satisfying the following formula (1); and (ii) another zone (zone Y) from a height L_2 satisfying the following formula (2) to a powder level height of a fluidized bed, $L_1 < 0.1 \times D$ (1) $L_2 = 0.1 \times D$ (2) wherein L_1 is a height from the gas distribution plate to an upper limit of said zone X; L_2 is a height from the gas distribution plate to a lower limit of said zone Y; and D is the inside diameter of the fluidized bed reactor for gas phase polymerization, in which the olefinic polymer powder forms the fluidized bed, (2) a process for polymerizing olefin and (3) a process for producing an olefinic polymer, each of which processes comprises the steps of: (i) polymerizing an olefin in the aforesaid reactor; and (ii) drawing out the produced olefinic polymer powder through the aforesaid drawing-out means for drawing out the olefinic polymer powder.

Abstract

There are provided:

(1) a fluidized bed reactor for gas phase olefin
5 polymerization, which has at least one drawing-out means for
drawing out olefinic polymer powder within every zone of:

(i) a zone (zone X) from a gas distribution plate to
a height L_1 satisfying the following formula (1); and

(ii) another zone (zone Y) from a height L_2 satisfying
10 the following formula (2) to a powder level height of a
fluidized bed,

$$L_1 < 0.1 \times D \quad (1)$$

$$L_2 = 0.1 \times D \quad (2)$$

wherein L_1 is a height from the gas distribution plate to an
15 upper limit of said zone X; L_2 is a height from the gas
distribution plate to a lower limit of said zone Y; and D
is the inside diameter of the fluidized bed reactor for gas
phase polymerization, in which the olefinic polymer powder
forms the fluidized bed,

20 (2) a process for polymerizing olefin and

(3) a process for producing an olefinic polymer,
each of which processes comprises the steps of:

(i) polymerizing an olefin in the aforesaid reactor;
and

25 (ii) drawing out the produced olefinic polymer powder
through the aforesaid drawing-out means for drawing out the
olefinic polymer powder.

