

Title (en)
SYSTEMS AND METHODS OF DETERMINING A VOLUMETRIC RATIO OF A MATERIAL TO THE TOTAL MATERIALS IN A MIXING VESSEL

Title (de)
SYSTEME UND VERFAHREN ZUR BESTIMMUNG EINES VOLUMETRISCHEN VERHÄLTNISSSES EINES MATERIALS ZU DEN GESAMTMATERIALIEN IN EINEM MISCHBEHÄLTER

Title (fr)
SYSTEMES ET PROCEDES PERMETTANT DE DETERMINER LE RAPPORT VOLUMETRIQUE D'UNE MATIERE PAR RAPPORT A LA TOTALITE DES MATIERES PRESENTES DANS UNE CUVE DE MELANGE

Publication
EP 1969440 A2 20080917 (EN)

Application
EP 06831494 A 20061229

Priority

- GB 2006004943 W 20061229
- US 32383105 A 20051230
- US 32332305 A 20051230

Abstract (en)
[origin: WO2007077427A2] Systems are provided for determining an estimated volumetric ratio of a material to total materials in a mixing vessel. In various embodiments, the systems may comprise: a summation block for determining an estimated volumetric rate of change of the material in the mixing vessel; an integration element for determining an estimated volume of the material in the mixing vessel based on the estimated volumetric rate of change of the material in the mixing vessel; a first gain element for converting the estimated volume of the material in the mixing vessel to the estimated volumetric ratio of the material to the total materials; and a second gain element for converting the estimated volumetric ratio of the material to the total materials to an output flowrate of the material from the mixing vessel.

IPC 8 full level
G05D 11/13 (2006.01)

CPC (source: EP)
B01F 33/834 (2022.01); **B01F 35/213** (2022.01); **B01F 35/2132** (2022.01); **G01N 9/36** (2013.01); **G05D 11/132** (2013.01); **B01F 33/81** (2022.01)

Citation (search report)
See references of WO 2007077427A2

Designated contracting state (EPC)
DE DK FR GB IT NL

DOCDB simple family (publication)
WO 2007077427 A2 20070712; WO 2007077427 A3 20071011; CA 2635511 A1 20070712; CA 2635511 C 20130212; EP 1969440 A2 20080917; NO 20083092 L 20080930

DOCDB simple family (application)
GB 2006004943 W 20061229; CA 2635511 A 20061229; EP 06831494 A 20061229; NO 20083092 A 20080710