

(19) World Intellectual Property Organization

International Bureau

(43) International publication date

29 August 2002 (29.08.2002)



PCT

(10) International publication number

WO 02/067062 A1

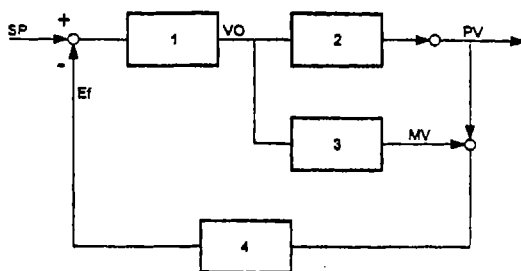
- (51) International patent classification⁷: G05B 13/04, B29C 47/92 (71) Applicant (for all designated States except US): SOLVAY POLYOLEFINS EUROPE-BELGIUM (SOCIETE ANONYME) [BE/BE]; rue du Prince Albert, 44, B-1050 Brussels (BE).
- (21) International application number: PCT/EP02/01670
- (22) International filing date: 14 February 2002 (14.02.2002)
- (25) Language of filing: French (72) Inventors; and (75) Inventors/Applicants (US only): LACROIX, Marc [BE/BE]; rue du Bassinia, 29, B-1348 Louvain-la-Neuve (BE). HONTOIR, Yves [BE/BE]; avenue du Champ de Blé, 37, B-1780 Wemmel (BE).
- (26) Language of publication: French
- (30) Data relating to the priority: 01/02,301 19 February 2001 (19.02.2001) FR (74) Representative: HUSEMANN, Claude; Solvay Polyolefins Europe-Belgium (Société Anonyme), Intellectual Property Department, rue de Ransbeek, 310, B-1120 Brussels (BE).

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As printed

(54) Title: METHOD FOR REGULATING A PROPERTY OF A PRODUCT DERIVED FROM A CHEMICAL TRANSFORMATION

(54) Titre: METHODE DE REGULATION D'UNE PROPRIETE D'UN PRODUIT RESULTANT D'UNE TRANSFORMATION CHIMIQUE



PV...REAL VALUE OF PROPERTY
MV...MODEL VALUE
SP...SET POINT
EI...FILTERED DIFFERENCE
VO...REGULATION SYSTEM



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(57) Abstract: The invention concerns a method for regulating a property of a product derived from a chemical transformation process, consisting in: a) modelling the relationship between said property and characteristic physical quantities of the process; b) fixing a set point value for said property; c) introducing said set point value in a regulation system based on the model obtained in (a) so as to apply to the process at least a physical quantity calculated from said set point value; d) calculating with a model defined in (a), corrected by a factor taking into account the delay, of a model value of the property of the product corresponding to the characteristic physical quantity/quantities defined by the regulation system; e) continuously measuring the real value of the property and the model value of the property of the product; f) determining the difference between said real value and the model value of the property of the product; g) using said difference, after filtering, to adapt the set point value so as to align the real value and its model value. The invention also concerns a regulating device and a chemical transformation method using said device for implementing said method.

(57) Abrégé: Méthode de régulation d'une propriété d'un produit résultant d'un procédé de transformation chimique, comprenant a) la modélisation de la relation entre ladite propriété et des grandeurs caractéristiques du procédé, b) la fixation d'une valeur de consigne pour ladite

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(81) Designated states (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated states (regional): ARIPO Patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI Patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, ARIPO Patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI Patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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- declaration by the inventor (Rule 4.17 paragraph iv) for US only

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- as regards the entitlement of the applicant to file and to obtain a patent (Rule 4.17 paragraph ii) for the following Contracting States AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,

Published:

- With the International Search Report.

For an explanation of the two-letter codes and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.

propriété.c) l'introduction de cette valeur de consigne dans un système de régulation basé sur le modèle obtenu en (a) afin d'appliquer au procédé au moins une grandeur caractéristique calculée à partir de cette valeur de consigne.d) le calcul à l'aide du modèle défini en (a), corrigé par un facteur tenant compte du retard, d'une valeur modèle de la propriété du produit correspondant à la (aux) grandeur(s) caractéristique(s) définie(s) par le système de régulation.e) la mesure en continu de la valeur réelle de la propriété du produit,f) la détermination de l'écart entre cette valeur réelle et la valeur modèle de la propriété du produit, g) l'utilisation de cet écart, après filtrage, pour adapter la valeur de consigne de manière à aligner la valeur réelle et sa valeur modèle. Dispositif de régulation et procédé de transformation chimique utilisant ledit dispositif en mettant en oeuvre ladite méthode.