

Title (en)

BIOPOLYMERS ISOLATED FROM RESIDUAL BIOMASS AND FOSSIL SOURCE; PRODUCTION PROCESSES AND PRODUCT USE

Title (de)

VON EINER RESTBIOMASSE UND EINER FOSSILEN QUELLE ISOLIERTE BIOPOLYMERE; HERSTELLUNGSVERFAHREN DAFÜR UND VERWENDUNG DES PRODUKTS DARAUSS

Title (fr)

BIOPOLYMÈRES ISOLÉS À PARTIR D'UNE BIOMASSE RÉSIDUELLE ET D'UNE SOURCE FOSSILE ; PROCÉDÉS DE PRODUCTION ET UTILISATION DU PRODUIT

Publication

EP 2793608 A1 20141029 (EN)

Application

EP 12824749 A 20121221

Priority

- IT TO20111192 A 20111222
- IT 2012000399 W 20121221

Abstract (en)

[origin: WO2013093951A1] Composition, and processes for the production and use of mixture of water soluble biopolymers, said mixture comprising an organic fraction and a mineral fraction, the organic fraction comprising polymer molecules having a molecular weight included between 5 and 500 kDalton and a polydispersion index included between 6 and 53, wherein the organic fraction contains, in % weight of dry substance, $37 \leq C \leq 65$; $3 < N \leq 7$, and N and C mean nitrogen and organic carbon being distributed among the following types of carbon atoms and functional groups with the following composition expressed as molar fraction of the total organic carbon: $0.3 < Cal \leq 0.6$; $CN \leq 0.1$; $OMe \leq 0.1$; $0.3 \leq OR \leq 0.6$; $0.02 \leq OCO \leq 0.08$; $0.07 \leq Ph \leq 0.30$; $0.02 \leq PhOH \leq 0.06$; $PhOR/Ar \leq 0.09$; $0.04 \leq COOH \leq 0.12$; $CON \leq 0.12$; $C=O \leq 0.05$; and the mineral fraction contains, in % weight of dry substance, ashes ≤ 30 ; $Si \leq 3.0$; $Fe \leq 0.9$; $Al \leq 0.8$; $Mg \leq 1.2$; $Ca \leq 6.5$; $K \leq 10$; $Na \leq 10$; $Cu \leq 0.03$; $Ni \leq 0.01$; $Zn \leq 0.05$; $Cr \leq 0.003$; $Pb \leq 0.01$.

IPC 8 full level

A23K 1/00 (2006.01); **A01N 61/00** (2006.01); **B09B 3/00** (2006.01); **B09C 1/00** (2006.01); **C02F 1/56** (2006.01); **C05F 11/00** (2006.01); **C08H 7/00** (2011.01); **C08H 99/00** (2010.01); **C09J 201/00** (2006.01); **C12P 7/00** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2013093951A1

Citation (examination)

US 5262315 A 19931116 - GROSS BRIGITTE [FR], et al

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