

Title (en)
IMPROVED PROCESS FOR THE THERMO-CHEMICAL TREATMENT OF BIOMASS USING CONTROLLED APPLICATION OF OXYGEN

Title (de)
VERBESSERTES VERFAHREN ZUR THERMOCHEMISCHEN BEHANDLUNG VON BIOMASSE MIT KONTROLLIERTER ANWENDUNG VON SAUERSTOFF

Title (fr)
PROCÉDÉ AMÉLIORÉ DE TRAITEMENT THERMOCHIMIQUE DE BIOMASSE À L'AIDE DE L'APPLICATION RÉGULÉE D'OXYGÈNE

Publication
EP 3280786 A1 20180214 (EN)

Application
EP 16744573 A 20160613

Priority
• US 201562175793 P 20150615
• NL 2015476 A 20150921
• NL 2016050424 W 20160613

Abstract (en)
[origin: WO2016204610A1] The present invention relates to a process for thermo-chemical treatment of biomass, said process comprising the following steps: Step 1) supplying biomass; Step 2) heating said biomass obtained in step 1) to a predetermined temperature T_h to obtain a heated biomass; and Step 3) the thermo-chemically treatment of said heated biomass obtained in step 2) at a temperature T_t between a minimal treatment temperature T_{min} and a maximum treatment temperature T_{max} wherein $T_h < T_{min}$ by supplying a controlled flow of oxygen to said biomass during at least part of said treatment to obtain a thermo-chemically treated biomass; Step 4) optionally cooling said thermo-chemically treated biomass obtained in step 3) to a cooled temperature T_c in order to obtain a solid fuel and to the solid fuel thus obtained.

IPC 8 full level
C10L 5/44 (2006.01); **C10L 5/36** (2006.01); **C10L 9/08** (2006.01)

CPC (source: EP)
C10L 5/442 (2013.01); **C10L 5/445** (2013.01); **C10L 9/083** (2013.01); **C10L 5/363** (2013.01); **C10L 2200/0469** (2013.01); **C10L 2290/02** (2013.01); **C10L 2290/06** (2013.01); **C10L 2290/08** (2013.01); **C10L 2290/145** (2013.01); **C10L 2290/28** (2013.01); **C10L 2290/30** (2013.01); **C10L 2290/50** (2013.01); **C10L 2290/52** (2013.01); **C10L 2290/562** (2013.01); **C10L 2290/58** (2013.01); **Y02E 50/10** (2013.01); **Y02E 50/30** (2013.01)

Citation (search report)
See references of WO 2016204610A1

Designated contracting state (EPC)
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 state (EPC)
BA ME

DOCDB simple family (publication)
WO 2016204610 A1 20161222; EP 3280786 A1 20180214

DOCDB simple family (application)
NL 2016050424 W 20160613; EP 16744573 A 20160613