

Title (en)
BIOFUEL

Title (de)
BIOKRAFTSTOFF

Title (fr)
BIOCARBURANT

Publication
EP 3383982 A1 20181010 (EN)

Application
EP 16823028 A 20161202

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- GB 201521464 A 20151204
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- GB 201617690 A 20161019
- GB 201617692 A 20161019
- GB 2016053810 W 20161202

Abstract (en)
[origin: GB2545103A] Biofuel composition comprising waste coffee grounds (WCG). It is preferably solid, formed as briquettes, pucks or pellets, the pellets being suitable for combustion in a biomass boiler. Preferably it comprises at least 50% wt WCG, even more preferably at least 75%. At least half of this quantity is preferably made up of waste coffee grounds from the manufacture of instant coffee (IWCG). The biofuel may additionally contain a fibrous filler (sawdust, coffee bean husks), preferably less than 50% wt, and a binding agent (lignosulphonate, glycerol), preferably up to 10% wt. Other possible ingredients are oxidisers like sodium / potassium nitrate and processing agents like starch (also a binder). The biofuel preferably has a durability of at least 60% and a net calorific value of 16-24 MJ/kg. A method of producing such biofuel is also claimed, by compressing suitable feedstock into pellets etc. The WCG may be dried to a moisture content of 6-20%. Coffee oil is preferably extracted therefrom, then the WCG are mixed with other ingredients and the feedstock may be conditioned through treatment with steam, then pressed / extruded through a die having boreholes into pellets which are further cooled. A relevant apparatus is also claimed.

IPC 8 full level
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Citation (search report)
See references of WO 2017093757A1

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