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(71) Applicant: **TOTALENERGIES ONETECH** [FR/FR]; La Défense 6, 2 Place Jean Millier, 92400 COURBEVOIE (FR).

(72) Inventors: **DE FEO, Modestino**; Centre de Recherche de Solaize, Chemin du Canal – BP 22, 69360 SOLAIZE (FR). **REVERCHON, Ernesto**; Università di Salerno, Dipartimento di Ingegneria Industriale, Via Giovanni Paolo II, n. 132, 84084 FISCIANO (SA) (IT). **CAMPARDELLI, Roberta**; Dipartimento di ingegneria Civile Chimica e Ambientale DICCA, Via Opera Pia 15, 16145 GENOVA (IT).

(74) Agent: **CABINET NONY**; 11 rue Saint-Georges, 75009 PARIS (FR).

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(54) Title: METHOD FOR DEODORIZING REGENERATED LUBRICATING OILS USING SUPERCRITICAL CO₂

(57) Abstract: Method for deodorizing regenerated lubricating oils using supercritical CO₂. The present invention relates to a process of deodorization of a at least partly regenerated lubricating oil, said process comprising the steps of: - fractionating the at least partly regenerated lubricating oil in a countercurrent fractional distillation column with a countercurrent flow of supercritical carbon dioxide (sCO₂), wherein said oil and supercritical CO₂ are fed in the countercurrent column with a ratio of the sCO₂ flow rate on oil flow rate ranging from 15 to 50; and - recovering the deodorized lubricating oil which is freed of the bad smelling fraction, said bad smelling fraction being extracted within the supercritical CO₂. It further relates to a process for preparing a lubricant composition from a deodorized base oil obtained according to the invention.



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