

Title (en)

PROCESS FOR THE EXTRACTION OF SQUALENE, STEROLS AND VITAMIN E CONTAINED IN CONDENSATES OF PHYSICAL REFINING AND/OR IN DISTILLATES OF DEODORIZATION OF PLANT OILS

Title (de)

VERFAHREN ZUR EXTRAKTION VON SQUALEN, STEROLEN UND VITAMIN E AUS KONDENSATEN AUS PHYSIKALISCHER VERFEINERUNG UND/ODER IN DESTILLATEN AUS DER DESODORIERUNG VON PFLANZENÖLEN

Title (fr)

PROCEDE D'EXTRACTION DE SQUALENE, DE STEROLS ET DE VITAMINE E CONTENUS DANS DES CONDENSATS DE RAFFINAGE PHYSIQUE ET/OU DANS DES DISTILLATS DE DESODORISATION D'HUILES VEGETALES

Publication

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Application

EP 09794030 A 20090702

Priority

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Abstract (en)

[origin: WO2010004193A1] The invention describes an overall process for the extraction of sterols, vitamin E, squalene and other plant-based hydrocarbons from deodorization distillates of plant oils. After an esterification of the free fatty acids, then a transesterification of the combined fatty acids (glycerides and sterides) by the same short alcohol, three successive distillations make it possible to successively recover a first fraction of hydrocarbons, the main fraction of alkyl esters, then the heaviest alkyl esters with squalene. The third distillate will be used for the production of squalene and a second fraction of hydrocarbons. The residue of the third distillation will be used for the production of sterols and vitamin E. By using bioethanol, plant-based glycerol and the plant-based hydrocarbons of the process, the process makes it possible to extract each of the four unsaponifiable substances without any solvent of oil-based origin and to claim the seals of approval for products obtained by natural physical and chemical processes.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2010004193A1

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