

Title (en)

PROCESS AND INSTALLATION FOR EXTRACTION OF BIOLOGICAL ACTIVE COMPOUNDS FROM PLANTS AND CONTINUOUS REACTOR FOR ULTRASOUND AND MICROWAVE ASSISTED EXTRACTION OF BIOLOGICAL ACTIVE COMPOUNDS FROM PLANTS

Title (de)

VERFAHREN UND ANLAGE ZUR EXTRAKTION VON BIOLOGISCHEN WIRKSTOFFEN AUS PFLANZEN UND KONTINUIERLICHER REAKTOR ZUR ULTRASCHALL- UND MIKROWELLENUNTERSTÜTZTEN EXTRAKTION VON BIOLOGISCHEN WIRKSTOFFEN AUS PFLANZEN

Title (fr)

PROCÉDÉ ET INSTALLATION D'EXTRACTION DE COMPOSÉS BIOLOGIQUEMENT ACTIFS À PARTIR DE PLANTES ET RÉACTEUR OPÉRANT EN CONTINU POUR L'EXTRACTION ASSISTÉE PAR MICRO-ONDES ET ULTRASONS DESDITS COMPOSÉS BIOLOGIQUEMENT ACTIFS À PARTIR DE PLANTES

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Application

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Abstract (en)

[origin: WO2016118034A2] This invention refers to a process for extraction of active biological compounds from plants by simultaneous application of ultrasounds and microwaves in a laminar continuous flow regime of extraction, under conditions of a controlled flow regime, at temperatures which do not affect the structure of thermolabile active biological compounds and to a new type of chemical reactor for extraction of active biological compounds from plants, continuous, for carrying out this process. Also, the invention refers to an installation for continuous extraction of active biological compounds with the new type of chemical reactor for extraction. By the application of the process according to the invention there are obtained essential oils, fatty oils, blends of polyphenols, blends of anthocyanins, terpenes, sesquiterpenes compounds, stabilized proteins or in pure form which cannot be obtained by others techniques of extraction due to thermal degradation and/or structural degradation occurring during the process of extraction.

IPC 8 full level

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