

Title (en)
METHOD FOR PRODUCING DRY EXTRACTS IN A GENTLE MANNER

Title (de)
VERFAHREN ZUR SCHONENDEN GEWINNUNG VON TROCKENEXTRAKTEN

Title (fr)
PROCEDE PERMETTANT DE PRODUIRE DES EXTRAITS SECS SANS LES ALTERER

Publication
EP 1368605 B1 20051109 (DE)

Application
EP 02732476 A 20020312

Priority
• DE 10112167 A 20010312
• EP 0202714 W 20020312

Abstract (en)
[origin: US6996919B2] The invention concerns a method for obtaining dry plant extracts under mild conditions, in which a liquid plant extract is introduced into a vacuum drying equipment having a multi-shaft stirrer extending through a cylindrical mixing and drying chamber and with its own drive, together with a chopper rotating through a stator, and the liquid plant extract is dried at a vessel shell temperature of 20° C. to 50° C., a product temperature between 20° C. and 40° C., a pressure between 0.5 and 1,000 mbar, a stirrer rotation speed of greater than 0 to 10 rpm and a chopper rotation speed of 200 to 800 rpm, characterized in that the liquid plant extract is sprayed into the mixing and drying chamber through at least one nozzle above the liquid level in the latter, at a pressure differential of >100 mbar between the drying chamber and the reservoir, whereby the nozzle(s) each create(s) a droplet spray cone of >=30° in at least one spatial direction, the average droplet size of the liquid plant extract sprayed in is <=300 µm and the discharge capacity of the nozzle(s) is smaller than or equal to the evaporator capacity the drying equipment.

IPC 1-7
F26B 5/04; A61K 35/78

IPC 8 full level
F26B 5/04 (2006.01)

CPC (source: EP US)
F26B 5/04 (2013.01 - EP US)

Cited by
WO2011134667A2; EP2545932A1; DE102008054127A1; DE102007044916A1; EP2620155A1; WO2013113772A1; DE102010021842A1; WO2011147992A1; DE102010019099A1; WO2011134679A2; DE102009041753A1; WO2011032707A1; WO2013007807A1; DE102009019104A1; EP2810650A1; EP3498306A1; WO2019115822A1; DE102009011152A1; WO2011048221A1; DE102009050407A1; DE102010040705A1; WO2012035082A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 02073108 A1 20020919; AT E309513 T1 20051115; DE 10112167 A1 20021002; DE 10112167 C2 20030213; DE 50204865 D1 20051215; DK 1368605 T3 20060327; EP 1368605 A1 20031210; EP 1368605 B1 20051109; ES 2251592 T3 20060501; US 2004128852 A1 20040708; US 6996919 B2 20060214

DOCDB simple family (application)
EP 0202714 W 20020312; AT 02732476 T 20020312; DE 10112167 A 20010312; DE 50204865 T 20020312; DK 02732476 T 20020312; EP 02732476 A 20020312; ES 02732476 T 20020312; US 47130804 A 20040223