Title (en)

Method of and apparatus for drying products with a closed gas stream and a desiccant liquid; and products prepared thereby.

Title (de)

Verfahren und Vorrichtung zum Trocknen von Produkten mittels eines geschlossenen Gasumlaufs und einer trocknenden Flüssigkeit und so hergestellte Produkte.

Title (fr)

Procédé et appareil pour le séchage de produits par un courant de gaz en circulation fermée et d'un liquide dessiccatif, et produits ainsi obtenus.

Publication

EP 0013081 A2 19800709 (EN)

Application

EP 79302699 A 19791127

Priority

HU EE002605 A 19781128

Abstract (en)

A method of and apparatus for drying products with a gas stream passing the product to extract moisture therefrom and a contacting device (43) producing at least one desiccant liquid layer (1) in the vicinity of the product (50) to be dried, which liquid layer removes moisture from the gas. The gas stream is bubbled through a substantially horizontal liquid layer or can pass between liquid film conducting elements (58). The desiccant liquid is continuously regenerated in a regenerator (150). By moans of several partial gas streams and a contacting device having more separated liquid film modules, a counter-current type of drying is possible. The product to be dried can be heated to a predetermined temperature by the desiccant liquid through the drying gas stream.

IPC 1-7

F26B 21/02; F26B 21/08

IPC 8 full level

B01D 1/14 (2006.01); **F24F 3/14** (2006.01); **F26B 3/04** (2006.01); **F26B 5/16** (2006.01); **F26B 21/02** (2006.01); **F26B 21/08** (2006.01)

CPC (source: EP)

F24F 3/1417 (2013.01); **F26B 21/02** (2013.01); **F26B 21/083** (2013.01); F24F 2003/144 (2013.01)

Cited by

CZ297514B6; EP0026074A1; US9273876B2; US9308491B2

Designated contracting state (EPC)

AT BE CH DE FR GB IT LU NL SE

DOCDB simple family (publication)

EP 0013081 A2 19800709; **EP 0013081 A3 19800723**; **EP 0013081 B1 19830727**; AR 222673 A1 19810615; AT E4348 T1 19830815; AU 5325279 A 19800529; AU 533601 B2 19831201; BR 7907718 A 19800722; CA 1131903 A 19820921; CS 261204 B2 19890112; DD 147402 A5 19810401; DE 2966006 D1 19830901; DK 157769 B 19900212; DK 157769 C 19900716; DK 503579 A 19800529; ES 486405 A0 19801201; ES 493430 A0 19810516; ES 8101256 A1 19801201; ES 8105466 A1 19810516; FI 67758 B 19850131; FI 67758 C 19850510; FI 793735 A 19800529; GR 72249 B 19831005; HU 179156 B 19820828; IL 58809 A0 19800229; IL 58809 A 19821231; IN 152091 B 19831015; MX 153067 A 19860725; NO 151304 B 19841203; NO 151304 C 19850313; NO 793856 L 19800529; PL 127670 B1 19831130; PL 219953 A1 19800825; PT 70511 A 19791201; RO 84961 A 19840817; RO 84961 B 19840930; SU 1209043 A3 19860130; YU 292779 A 19840831; YU 42317 B 19880831

DOCDB simple family (application)

EP 79302699 A 19791127; AR 27905879 A 19791128; AT 79302699 T 19791127; AU 5325279 A 19791128; BR 7907718 A 19791128; CA 340796 A 19791128; CS 817179 A 19791127; DD 21716879 A 19791127; DE 2966006 T 19791127; DK 503579 A 19791127; ES 486405 A 19791128; ES 493430 A 19800716; FI 793735 A 19791128; GR 790160610 A 19791127; HU EE002605 A 19781128; IL 5880979 A 19791126; IN 1250CA1979 A 19791128; MX 18056779 A 19791214; NO 793856 A 19791127; PL 21995379 A 19791128; PT 7051179 A 19791128; RO 9938579 A 19791128; SU 2850129 A 19791127; YU 292779 A 19791128