Title (en)
MACHINE TO EXTRACT OIL FROM FRUIT

Title (de)
MASCHINE ZUR GEWINNUNG DES ÖLS EINER FRUCHT

Title (fr)
MACHINE POUR EXTRAIRE L'HUILE D'UN FRUIT

Publication
EP 1280425 A4 20051207 (EN)

Application
EP 01927507 A 20010502

Priority
• BR 0100055 W 20010502
• BR 0001692 A 20000502

Abstract (en)
[origin: WO0182721A2] This invention presents a modulating machine, used to extract and recover essential oil from citrus fruit such as lemons, oranges, mandarins, grapefruit, etc. not removing their peel, but by microperforating it and disrupting oil cells. The oil thus extracted is trapped in water so as to form an aqueous emulsion. The created machine comprises a set of grooved disks (9) mounted over corresponding supporting axes (8); a base structure (1) on which lower portion there is a transmission set installed, formed by pulleys (2) and chains or grooved belts (3) operated by a motor (4); a set of supporting axes (8) provided with alternate axial and rotational movement, by means of a set of operation (10) interconnected to rod (11) transmitting alternate movement to the connected handles (12), alternating to the ends (13) of said supporting axes (8); an emulsion tank (15) laterally provided with collectors (16); spillway (30); disk cleaning set (9); fruit washing and drying unit; and an automatic lubrication system for application of oil and grease at specific points.

IPC 1-7
A23N 1/00

IPC 8 full level
A23N 1/00 (2006.01)

IPC 8 main group level
A23L (2006.01)

CPC (source: EP)
A23N 1/00 (2013.01)

Citation (search report)
• [XA] US 4470344 A 19840911 - BUSHMAN RONALD C [US]
• [X] US 3707176 A 19721226 - BUSHMAN RONALD C
• [A] US 5483871 A 19960116 - KIRK WILLIAM [US], et al
• See references of WO 0182721A2

Designated contracting state (EPC)
ES IT

DOCDB simple family (publication)
WO 0182721 A2 20011108; **WO 0182721 A3 20020314**; AR 024433 A1 20021002; AU 5453601 A 20011112; BR 0001692 A 20011218; BR 0001692 B1 20081118; EP 1280425 A2 20030205; EP 1280425 A4 20051207; MX PA02010788 A 20040906; ZA 200208341 B 20030805

DOCDB simple family (application)
BR 0100055 W 20010502; AR P000103109 A 20000621; AU 5453601 A 20010502; BR 0001692 A 20000502; EP 01927507 A 20010502; MX PA02010788 A 20010502; ZA 200208341 A 20021016