

Title (en)
PROCESS AND APPARATUS FOR DRYING YARN OR FIBRE PACKAGES

Publication
EP 0137067 B1 19870429 (DE)

Application
EP 83110084 A 19831008

Priority
EP 83110084 A 19831008

Abstract (en)
[origin: US4590683A] Fiber or yarn wrapped on spools is dried in a pair of vessels in an alternating gas flow arrangement. Each vessel is located in a separate circulation loop. The two circulation loops have a common circulation leg. Each of the circulation loops is connected to an evacuation device via an evacuation duct. The evacuation duct contains valves for selective connection of the evacuation duct to one or the other circulation loops. The common circulation leg contains a blower, a heater, a connection for introducing moisture into the gas used in the circulation loops, a cooler and a moisture separator. Valve controlled bypasses are connected to each of the circulation loops and to the common circulation leg so that a selected flow of heating gas can be provided in one of the loops when it is being evacuated. High frequency heaters are arranged in each of the vessels for supplying additional heat to the fiber or yarn. While heating gas flows in one circulation loop, the other circulation loop is connected to the evacuation device for completing the drying operation. The circulation loops alternate between flowing heating gas and evacuating the vessel in the loop.

IPC 1-7
F26B 7/00; **F26B 5/00**; **F26B 9/06**

IPC 8 full level
F26B 5/04 (2006.01); **F26B 21/00** (2006.01)

CPC (source: EP US)
F26B 5/04 (2013.01 - EP US); **F26B 21/007** (2013.01 - EP US)

Cited by
CN113007988A; EP0539607A4

Designated contracting state (EPC)
BE CH DE FR GB IT LI SE

DOCDB simple family (publication)
EP 0137067 A1 19850417; **EP 0137067 B1 19870429**; DE 3371244 D1 19870604; US 4590683 A 19860527

DOCDB simple family (application)
EP 83110084 A 19831008; DE 3371244 T 19831008; US 65819684 A 19841005