

Title (en)
APPARATUS FOR DRYING AND COOLING HIGHLY CRYSTALLINE SUGAR, ESPECIALLY FRUCTOSE

Publication
EP 0114939 B1 19860903 (DE)

Application
EP 83110553 A 19831022

Priority
DE 8234134 U 19821204

Abstract (en)
[origin: EP0114939A2] 1. An apparatus for drying and cooling by a countercurrent method finely crystalline sugar, in particular fructose, the apparatus having a rotating cylindrical drum, in which the inner drum wall is provided with lifting scoops, and with a concentric hot-air pipe rotatable with the drum and projecting by stages into the drum and which is connectable at one end to a hot-air blower on the outside of the drum and open at the other end positioned inside the drum, cooling air being blown into the drum outside hot-air pipe and coaxially therewith, characterized in that two air-deflecting devices (8, 9) are provided for mixing the cooling air and the hot air upstream of the open end (5a) of the hot-air pipe (5) and at a distance therefrom, each device has deflector plates (10, 11) extending radially at approximately the same inclination to the longitudinal axis of the drum and the ends of each deflector plate (10, 11) are fixed in planes displaced axially from one another, and the deflector plates (10, 11) of the two air-deflecting devices (8, 9) are inclined towards one another and mesh with one another in the manner of a cog.

IPC 1-7
C13F 5/00; C13K 11/00

IPC 8 full level
C13B 40/00 (2011.01); **C13K 11/00** (2006.01)

CPC (source: EP)
C13B 40/002 (2013.01); **C13K 11/00** (2013.01)

Cited by
EP0338099A1; US2011099833A1; US8601711B2

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
EP 0114939 A2 19840808; EP 0114939 A3 19841219; EP 0114939 B1 19860903; DE 3365889 D1 19861009; DE 8234134 U1 19830526

DOCDB simple family (application)
EP 83110553 A 19831022; DE 3365889 T 19831022; DE 8234134 U 19821204