

Title (en)

Lifter for cooling drums, rotary drum furnaces or similar devices.

Title (de)

Einbauten für Rohrkühler, Drehrohröfen oder dergleichen.

Title (fr)

Aube pour cylindres de refroidissement, fours à tambour rotatif ou installations similaires.

Publication

EP 0367956 B1 19931020 (DE)

Application

EP 89117507 A 19890922

Priority

DE 3837607 A 19881105

Abstract (en)

[origin: EP0367956A1] In the treatment of a granular substance, which is capable of being at least partly scattered, in a cooling drum, satellite cooler, rotary drum furnace, drum-type drier or similar devices, in order to increase the thermal efficiency, such as, for example, the cooling effect, in the critical heating zone without having to tolerate a perceptible increase in the dust load of the gas flow as well as an increase in the dimensions of the rotary drum, rotary drum lifters are proposed according to the invention, which rotary drum lifters, as viewed in the drum cross-section, consist of roughly hemispherical curved elements (13) which project arch-like into the drum interior and, in their apex region at their two front edges, each have a rim (19, 20) directed towards the inner wall of the drum, reducing the free curved cross-sectional area and preventing the scattering of the lifted substance located in the curved elements. <IMAGE>

IPC 1-7

F27B 7/16; **F27B 7/38**; **F27D 15/02**; **F26B 11/04**

IPC 8 full level

F26B 11/04 (2006.01); **F27B 7/16** (2006.01); **F27B 7/38** (2006.01); **F27B 7/40** (2006.01); **F27D 5/00** (2006.01); **F27D 15/02** (2006.01)

CPC (source: EP US)

F26B 11/0477 (2013.01 - EP US); **F27B 7/162** (2013.01 - EP US); **F27B 7/386** (2013.01 - EP US); **F27B 7/40** (2013.01 - EP US); **F27D 15/028** (2013.01 - EP US)

Cited by

EP0916917A1; CN107188223A; EP1909051A1; DE10208248A1; EP0916916A1; US8910393B2; WO2008040545A1

Designated contracting state (EPC)

AT BE DE FR GB

DOCDB simple family (publication)

EP 0367956 A1 19900516; **EP 0367956 B1 19931020**; AT E96223 T1 19931115; DE 3837607 A1 19900510; DE 58905971 D1 19931125; DK 172088 B1 19971020; DK 548889 A 19900507; DK 548889 D0 19891103; JP H02176387 A 19900709; US 4995809 A 19910226

DOCDB simple family (application)

EP 89117507 A 19890922; AT 89117507 T 19890922; DE 3837607 A 19881105; DE 58905971 T 19890922; DK 548889 A 19891103; JP 28315289 A 19891101; US 42750589 A 19891027