

Title (en)
Apparatus for conditioning bulk material.

Title (de)
Einrichtung zum Konditionieren von Schüttgut.

Title (fr)
Dispositif de conditionnement d'une matière en vrac.

Publication
EP 0326012 B1 19940406 (DE)

Application
EP 89100844 A 19890119

Priority
DE 3802489 A 19880128

Abstract (en)
[origin: EP0326012A2] Bulk vegetable material, especially bulk material in the form of wood chips, is conditioned for the manufacture of cellulose pulp in a silo (2) by means of steam. The steam must be introduced into the wood chips under strict temperature accuracy and distributed as freely and uniformly as possible. <??>To this end, the steam inlet nozzles (15) are so arranged at different points in the silo (2) that they are distributed with a high degree of uniformity and are shielded to prevent blockage by the bulk material. <??>The equipment is particularly intended for the conditioning of vegetable chips, especially of wood chips, for the manufacture of cellulose pulp or predominantly fibres for the production of paper and cardboard as well as the manufacture of fibre board. <IMAGE>

IPC 1-7
D21B 1/02

IPC 8 full level
D21B 1/02 (2006.01)

CPC (source: EP US)
D21B 1/021 (2013.01 - EP US)

Cited by
EP0611845A1; US5564198A

Designated contracting state (EPC)
AT DE ES FR SE

DOCDB simple family (publication)
EP 0326012 A2 19890802; EP 0326012 A3 19910515; EP 0326012 B1 19940406; EP 0326012 B2 19991215; AT E104001 T1 19940415; CA 1315584 C 19930406; DE 3802489 A1 19890803; DE 3802489 C2 19971218; DE 58907366 D1 19940511; ES 2050725 T3 19940601; ES 2050725 T5 20000401; FI 87664 B 19921030; FI 87664 C 19970701; FI 890356 A0 19890125; FI 890356 A 19890729; NO 173666 B 19931004; NO 173666 C 19980203; NO 890345 D0 19890127; NO 890345 L 19890731; PT 89527 A 19891004; PT 89527 B 19940131; US 4930230 A 19900605

DOCDB simple family (application)
EP 89100844 A 19890119; AT 89100844 T 19890119; CA 589300 A 19890127; DE 3802489 A 19880128; DE 58907366 T 19890119; ES 89100844 T 19890119; FI 890356 A 19890125; NO 890345 A 19890127; PT 8952789 A 19890125; US 30333589 A 19890130