

Title (en)

LOADING DEVICE FOR SUPPORTING PARTS TO BE THERMALLY TREATED IN A FURNACE

Title (de)

ANORDNUNG ZUR LADUNG VON GUTTRÄGERN FÜR THERMISCHE OFENBEHANDLUNGEN

Title (fr)

DISPOSITIF DE CHARGEMENT POUR LE SUPPORT DE PIÈCES À TRAITER THERMIQUEMENT DANS UN FOUR

Publication

EP 1042517 B1 20030108 (FR)

Application

EP 98959989 A 19981215

Priority

- FR 9802732 W 19981215
- FR 9715842 A 19971215

Abstract (en)

[origin: US6318571B1] The loader device is made of a thermostructural composite material and comprises a base (20), a loading pole (30) secured to the base and extending at least over the full height of the loader device, and a plurality of loading trays (40) each provided with a central passage through which the loading pole can pass. Each loading tray carries a plurality of spacers (50) enabling the trays to be mounted in succession at predetermined intervals, each tray carrying the same number of spacers which are in alignment so that after the trays have been assembled the spacers make up load-carrying columns extending over the height of the loader device, and at least one of the spacers carried by each tray has a disposition and/or a size that differs from the other spacers carried by the same tray so as to enable the trays to be indexed during assembly. Each tray (40) has means (45) for positioning parts at predetermined locations.

IPC 1-7

C21D 9/00

IPC 8 full level

C21D 1/00 (2006.01); **C21D 9/32** (2006.01); **C21D 9/40** (2006.01); **F27D 3/12** (2006.01); **F27D 5/00** (2006.01)

CPC (source: EP KR US)

C21D 9/0025 (2013.01 - KR); **F27D 5/00** (2013.01 - EP US); **F27D 5/0006** (2013.01 - EP KR US)

Cited by

EP2620339A1

Designated contracting state (EPC)

AT DE ES FR GB IT

DOCDB simple family (publication)

US 6318571 B1 20011120; AT E230804 T1 20030115; CA 2315169 A1 19990624; CA 2315169 C 20080219; DE 69810662 D1 20030213; DE 69810662 T2 20031113; EP 1042517 A1 20001011; EP 1042517 B1 20030108; ES 2190124 T3 20030716; FR 2772467 A1 19990618; FR 2772467 B1 20000310; JP 2002508444 A 20020319; JP 3977595 B2 20070919; KR 100562459 B1 20060320; KR 20010024719 A 20010326; RU 2220394 C2 20031227; WO 9931284 A1 19990624

DOCDB simple family (application)

US 58149200 A 20000614; AT 98959989 T 19981215; CA 2315169 A 19981215; DE 69810662 T 19981215; EP 98959989 A 19981215; ES 98959989 T 19981215; FR 9715842 A 19971215; FR 9802732 W 19981215; JP 2000539180 A 19981215; KR 20007006486 A 20000614; RU 2000118817 A 19981215