

Title (en)

Combined convective-radiative system for heat treatment of a web

Title (de)

Kombiniertes Konvektions-Strahlungssystem zur Wärmebehandlung einer kontinuierlichen Warenbahn

Title (fr)

Système convecto-radiatif pour traitement thermique d'une bande continue

Publication

EP 0916915 A1 19990519 (FR)

Application

EP 98402768 A 19981106

Priority

FR 9714321 A 19971114

Abstract (en)

The installation comprises an array of infrared elements (3) and blowers (2) arranged above a moving band (1) that is to be heated. The blowers are arranged between the infrared elements with an aspirator (4) on either side of the blower with the end of the aspirator extending into the proximity of the infrared element.

Abstract (fr)

Installation pour le traitement thermique d'une bande (1), se déplaçant en continu en regard d'éléments radiants infra-rouges (3) et d'éléments soufflants (2) de l'air sur cette bande (1). Cette installation comprend une succession d'éléments soufflants (2) séparés les uns des autres par au moins un élément radiant infra-rouge (3), chaque élément soufflant (2) comprenant de chaque côté un élément d'aspiration (4) s'étendant à proximité d'un élément radiant infra-rouge (3). <IMAGE>

IPC 1-7

F26B 13/10; **F26B 3/30**

IPC 8 full level

C21D 1/34 (2006.01); **C21D 9/56** (2006.01); **F26B 3/28** (2006.01); **F26B 13/20** (2006.01)

CPC (source: EP US)

F26B 3/283 (2013.01 - EP US); **F26B 13/104** (2013.01 - EP US)

Citation (search report)

- [DY] EP 0291832 A1 19881123 - VITS HILMAR
- [Y] FR 1340311 A 19631018 - CHANTIER DE NANTES ATEL
- [PX] WO 9834079 A1 19980806 - MEGTEC SYS INC [US]
- [A] EP 0235723 A2 19870909 - VITS HILMAR
- [A] US 5606805 A 19970304 - MEYER JENS-UWE [US]
- [A] EP 0346081 A1 19891213 - GRACE W R & CO [US]
- [DA] EP 0539013 A1 19930428 - GRACE W R & CO [US]
- [A] DE 1951345 A1 19710415 - VITS MASCHINENBAU
- [A] WO 8808950 A1 19881117 - KRIEGER KURT [DE]
- [A] US 4594795 A 19860617 - STEPHANSEN ERIK [US]
- [A] DE 29602178 U1 19960404 - VITS MASCHINENBAU GMBH [DE]
- [A] EP 0508254 A1 19921014 - BRANDWIJK SYSTEMS PROGRAMMING [NL]
- [A] FR 2247687 A1 19750509 - BUETTNER SCHILDE HAAS AG [GB]
- [A] FR 2306733 A1 19761105 - PPG INDUSTRIES INC [US]

Cited by

EP1030149A1; EP2772362A1; DE102007051963A1; EP2056052A2; US9272301B2; FR2790072A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

EP 0916915 A1 19990519; **EP 0916915 B1 20010711**; AR 017621 A1 20010912; AT E203103 T1 20010715; AU 734667 B2 20010621; AU 9138598 A 19990603; BR 9805018 A 20010320; CA 2252702 A1 19990514; CN 1110678 C 20030604; CN 1226674 A 19990825; DE 69801088 D1 20010816; DE 69801088 T2 20011031; ES 2161027 T3 20011116; FR 2771161 A1 19990521; FR 2771161 B1 20000114; JP 4190630 B2 20081203; JP H11217628 A 19990810; US 6088930 A 20000718

DOCDB simple family (application)

EP 98402768 A 19981106; AR P980105778 A 19981113; AT 98402768 T 19981106; AU 9138598 A 19981106; BR 9805018 A 19981113; CA 2252702 A 19981103; CN 98124483 A 19981111; DE 69801088 T 19981106; ES 98402768 T 19981106; FR 9714321 A 19971114; JP 32394598 A 19981113; US 18989798 A 19981111