

Title (en)

Automatic-assembly machine for fins, in particular for heat exchangers or radiators.

Title (de)

Automatische Maschine zum Zusammensetzen von Lamellen, insbesondere für Wärmeaustauscher oder Heizkörper.

Title (fr)

Machine automatique d'assemblage d'ailettes particulièrement pour échangeurs de chaleur ou radiateurs.

Publication

**EP 0020222 A1 19801210 (FR)**

Application

**EP 80400659 A 19800513**

Priority

FR 7912147 A 19790514

Abstract (en)

1. A machine for the assembly of fins (2) and tubes (41) for heat exchangers or radiators in particular comprising a continuous dispensing press (1) of fins ready for assembly which are then taken up by a transfer system (3, 5) supplying a stacking station (P), which fins are then subjected to an interspacing control system with combs (35) before the fitting of tubes (41), characterised in that the transfer system (5) has a discontinuous movement, that this transfer system alternately supplies at least two stacking stations (P1 , P2 ), that a movable carriage (20) which may be displaced horizontally below each stacking station and transversely to the said transfer system ensures the reception of fins (2), that the movable carriage ensures the release of the block of fins made and that these various continuous or discontinuous movements are ensured on the basis of one and the same motor mechanism at the press outlet by chain drive (5), shafts (54), bevel gears (53, 55) and cams operating the jacks.

Abstract (fr)

La machine comporte successivement, un dispositif de transfert d'ailettes découpées sortant de presse en continu sur un transporteur à mouvement discontinu (5) un mécanisme à tiroirs libérant les pièces dans au moins un poste d'empilement, un sous-ensemble à chariot mobile (20) recevant l'empilement d'ailettes, un dispositif (34) de contrôle d'écartement à peignes, un mécanisme d'alimentation de tubes et d'emmanchement de tubes dans les ailettes. Application à la réalisation de blocs à ailettes pour échangeurs d'appareils de chauffage au gaz.

IPC 1-7

**B21D 53/08**

IPC 8 full level

**B21D 43/12** (2006.01); **B21D 53/08** (2006.01)

CPC (source: EP)

**B21D 53/085** (2013.01)

Citation (search report)

- FR 2306031 A1 19761029 - BRITISH LEYLAND UK LTD [GB]
- FR 1535785 A 19680809 - INST LEICHTBAU UND OKONOM VERW
- FR 1510577 A 19680119 - HUDSON ENGINEERING CORP
- DE 2150086 A1 19730412 - LINDE AG
- DE 1452950 A1 19710114 - VAILLANT JOH KG

Cited by

CN114131322A; CN109483233A; CN115241590A; CN107649600A; CN107855430A; EP0342975A3; CN107598010A; CN102896238A; CN112171248A; CN113997074A

Designated contracting state (EPC)

CH DE GB IT NL

DOCDB simple family (publication)

**EP 0020222 A1 19801210; EP 0020222 B1 19830525**; DE 3063443 D1 19830707; ES 491400 A0 19810216; ES 8102484 A1 19810216; FR 2456568 A1 19801212; FR 2456568 B1 19820903; JP S5626645 A 19810314

DOCDB simple family (application)

**EP 80400659 A 19800513**; DE 3063443 T 19800513; ES 491400 A 19800512; FR 7912147 A 19790514; JP 6388180 A 19800514