

Title (en)

Method of producing an outer air grid.

Title (de)

Verfahren zum Herstellen eines Aussenluftgitters.

Title (fr)

Procédé pour la fabrication d'un grillage d'air extérieur.

Publication

**EP 0489355 B1 19940914 (DE)**

Application

**EP 91120346 A 19911128**

Priority

DE 4038691 A 19901205

Abstract (en)

[origin: EP0489355A2] In a method of producing an outer air grid with vanes which forms the end of an air guide system, a metal sheet, in particular a steel sheet, of the size of the subsequent outer air grid is to be cut to size, bending lines are then to be impressed in the metal sheet as one side of the vanes. Slots which define the other sides of the vanes are then cut or punched out and, in a further work step, each vane is then bent at an angle about the bending line. <IMAGE>

IPC 1-7

**B21D 31/02**

IPC 8 full level

**B21D 31/02** (2006.01); **B21D 47/00** (2006.01)

CPC (source: EP)

**B21D 47/005** (2013.01)

Cited by

CN108180566A

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0489355 A2 19920610; EP 0489355 A3 19920812; EP 0489355 B1 19940914**; AT E111384 T1 19940915; DE 4038691 A1 19920611; DE 59102933 D1 19941027; ES 2062646 T3 19941216

DOCDB simple family (application)

**EP 91120346 A 19911128**; AT 91120346 T 19911128; DE 4038691 A 19901205; DE 59102933 T 19911128; ES 91120346 T 19911128