

Title (en)

Lightweight metal dimple panel and method of manufacture

Title (de)

Leichtbauplatte aus Metall in Form einer Höckerplatte und Verfahren zu ihrer Herstellung

Title (fr)

Panneau à butée en métal léger et procédé de fabrication

Publication

EP 0892122 A3 19991103 (DE)

Application

EP 98111848 A 19980626

Priority

DE 19730647 A 19970717

Abstract (en)

[origin: EP0892122A2] The light structural plate is formed with a sheet aluminium plate (3) bonded at the end faces to a steel plate (1) through a metal connection produced by heat action without melting phase with a shear strength of more than 15 N/mm². The steel plate can be zinc-plated at least on its connecting side. The connection can also be provided with a keyed engagement using grooves and ribs. The indents (2) are preferably longer than they are wide and the cavity between the plates can be filled with shape-stable filler.

IPC 1-7

E04C 2/32; **E04C 2/34**

IPC 8 full level

B23K 20/04 (2006.01); **B23K 26/08** (2006.01); **E04C 2/08** (2006.01); **E04C 2/32** (2006.01); **E04C 2/34** (2006.01)

CPC (source: EP US)

E04C 2/32 (2013.01 - EP US); **Y10T 428/12347** (2015.01 - EP US); **Y10T 428/1241** (2015.01 - EP US); **Y10T 428/12757** (2015.01 - EP US)

Citation (search report)

- [A] DE 19503166 A1 19960808 - THYSSEN STAHL AG [DE]
- [DA] DE 19502140 C1 19960515 - THYSSEN STAHL AG [DE]

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0892122 A2 19990120; **EP 0892122 A3 19991103**; **EP 0892122 B1 20030521**; DE 19730647 A1 19990121; DE 19730647 C2 20000810; DE 59808415 D1 20030626; US 6065266 A 20000523

DOCDB simple family (application)

EP 98111848 A 19980626; DE 19730647 A 19970717; DE 59808415 T 19980626; US 11476498 A 19980714