

Title (en)  
PRESS COINING SYSTEMS AND METHODS

Title (de)  
SYSTEME UND VERFAHREN ZUM PRÄGEN

Title (fr)  
SYSTÈMES ET PROCÉDÉS DE MATRIÇAGE

Publication  
**EP 4289527 A1 20231213 (EN)**

Application  
**EP 23177318 A 20230605**

Priority  
US 202217834814 A 20220607

Abstract (en)  
A method for forming a stiffened panel includes compressing a metal blank (110) between a first die (102) and a second die (104). The second die comprises a plurality of discrete protrusions forming a grid structure in the negative spaces therebetween. In response to being compressed between the first and second dies, material of the metal blank is moved from between the plurality of discrete protrusions and the first die to the grid structure, thereby forming the stiffened panel comprising a skin and a grid of stiffening ribs. The skin of the stiffened panel has a skin thickness which is less than an initial thickness of the metal blank. The grid of stiffening ribs has a rib height which is greater than the initial thickness of the metal blank.

IPC 8 full level  
**B21K 23/00** (2006.01)

CPC (source: EP US)  
**B21K 21/02** (2013.01 - US); **B21K 23/00** (2013.01 - EP)

Citation (search report)  
• [XYI] FR 3109364 B1 20220408 - LATECOERE [FR]  
• [Y] EP 0334976 A1 19891004 - MELE JOSEPH J  
• [Y] US 8535783 B2 20130917 - LUTJEN PAUL M [US], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4289527 A1 20231213**; US 2023390823 A1 20231207

DOCDB simple family (application)  
**EP 23177318 A 20230605**; US 202217834814 A 20220607