

Title (en)
METHOD FOR IMPROVING DELAYED FRACTURE CHARACTERISTICS OF STEEL SHEET, METHOD FOR PRODUCING BLANK, METHOD FOR PRODUCING PRESS-FORMED ARTICLE, AND PRESS-FORMED ARTICLE

Title (de)
VERFAHREN ZUR VERBESSERUNG DER VERZÖGERTEN BRUCHEIGENSCHAFTEN VON STAHLBLECH, VERFAHREN ZUR HERSTELLUNG EINES ROHLINGS, VERFAHREN ZUR HERSTELLUNG EINES PRESSGEFORMTEN ARTIKELS UND PRESSGEFORMTER ARTIKEL

Title (fr)
PROCÉDÉ D'AMÉLIORATION DE CARACTÉRISTIQUES DE FRACTURE RETARDÉE DE FEUILLE D'ACIER, PROCÉDÉ DE PRODUCTION DE FLAN, PROCÉDÉ DE PRODUCTION D'ARTICLE FORMÉ À LA PRESSE, ET ARTICLE FORMÉ À LA PRESSE ASSOCIÉ

Publication
EP 4382222 A1 20240612 (EN)

Application
EP 22867283 A 20220901

Priority
• JP 2021146245 A 20210908
• JP 2022032988 W 20220901

Abstract (en)
Provided is a method for improving the delayed fracture characteristics of a metal sheet made of a high-strength steel sheet to suppress delayed fracture from a sheared end face after forming by a simple method. A method for improving delayed fracture characteristics of a metal sheet (10), the metal sheet (10) having a sheared end face (10A) on at least a part of a sheet end portion and being made of a high-strength steel sheet. Plastic deformation is imparted to at least a part of the sheared end face (10A) of the metal sheet (10).

IPC 8 full level
B21D 1/06 (2006.01)

CPC (source: EP KR)
B21B 15/0007 (2013.01 - KR); **B21D 1/06** (2013.01 - EP KR); **B21D 22/20** (2013.01 - EP)

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 MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4382222 A1 20240612; CN 117897239 A 20240416; JP 7435895 B2 20240221; JP WO2023037961 A1 20230316; KR 20240046543 A 20240409; WO 2023037961 A1 20230316

DOCDB simple family (application)
EP 22867283 A 20220901; CN 202280059756 A 20220901; JP 2022032988 W 20220901; JP 2023502853 A 20220901; KR 20247007801 A 20220901