

Title (en)

SHEET METAL JOINING APPARATUS WITH A DIE ASSEMBLY AND THE METHOD FOR ITS ASSEMBLY

Title (de)

BLECHVERBINDUNGSVORRICHTUNG MIT EINER MATRIZENANORDNUNG UND DAS VERFAHREN ZU SEINEM ZUSAMMENBAU

Title (fr)

APPAREIL D'ASSEMBLAGE DE TÔLE COMPORTANT UN ENSEMBLE DE MOULE ET LA MÉTHODE DE SON ASSEMBLAGE

Publication

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Application

EP 19187992 A 20190724

Priority

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Abstract (en)

[origin: EP3769859A1] A metal joining apparatus (31) is provided. In another aspect, a single piece die guard (51) includes an integral die shield section (71) and an integral retainer section (73) wherein a die anvil (161, 461, 561) can be removed. A further aspect employs a workpiece-facing surface of a die guard having a generally uniform height at both a die shield section and a retainer section with a separately insertable anvil and/or die body (163). A method of assembling a die assembly includes inserting a die blade (121, 321, 421, 521) sub-assembly into one end of a bore of a die guard, and inserting at least a portion of a die having an anvil into an opposite end of the same bore in the die guard. Yet another aspect discloses an apparatus and a method of assembling a die assembly wherein a laterally enlarged flange (167, 467, 567) of a die is removeably trapped between a backside of a die guard and an actuator frame (33) to which the die guard is removeably secured, with a workpiece-clinching anvil projecting from the die within the die guard.

IPC 8 full level

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