

Title (en)
WAVE ROLL DIE ASSEMBLY

Title (de)
WELLENROLLEN-MATRIZENANORDNUNG

Title (fr)
ENSEMBLE MATRICE DE LAMINAGE ONDULÉ

Publication
EP 4255650 A1 20231011 (EN)

Application
EP 21901368 A 20211201

Priority
• US 202063119939 P 20201201
• US 2021061369 W 20211201

Abstract (en)
[origin: WO2022119901A1] A wave rolling assembly and a process for manufacturing a component for a vehicle using the wave rolling assembly is provided. The process includes conveying a metal coil through a first leveler to present a metal sheet, and conveying the metal sheet through a looping pit. The metal sheet travels from the looping pit to the wave rolling assembly for forming a plurality of waves along the side edges of the metal sheet. The wave rolling assembly stretches the metal sheet. The wave rolling assembly can include a die assembly or a roll forming apparatus. The metal sheet is then conveyed through a second leveler to flatten the metal sheet. The metal sheet is cut into blanks and formed into the finished component in a blanking press and die assembly. Less scrap is generated due to the reduced thickness along the edges and overall increased width of the blanks.

IPC 8 full level
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