

Title (en)

HYDROFORMED CAN BOTTOM EXPANSION PROCESS AND APPARATUS

Title (de)

EXPANSIONSVERFAHREN UND VORRICHTUNG FÜR HYDROGEFORMTEN DOSENBODEN

Title (fr)

PROCÉDÉ ET APPAREIL D'EXPANSION D'UN FOND DE BOÎTE MÉTALLIQUE HYDROFORMÉ

Publication

EP 2976169 A1 20160127 (EN)

Application

EP 14769148 A 20140321

Priority

- US 201361804055 P 20130321
- US 2014031506 W 20140321

Abstract (en)

[origin: WO2014153545A1] An apparatus, and associated process, expands a wall of an associated metal container. The apparatus includes a holder for retaining at least a portion of the metal container. A first tool has a first surface mounted for movement relative to the holder for selective advancement toward and dimensioned to engage at least a portion of the associated metal container. The first tool includes a seal so that fluid received in the associated metal container is pressurized and used to apply an expanding force to the associated metal container as the first tool advances therein. A bubble is formed in the bottom wall, and in a second station, the combination of fluid pressure and metal forming surfaces make the final configuration of the bottom wall.

IPC 8 full level

B21D 26/02 (2011.01); **B21D 26/033** (2011.01); **B21D 26/049** (2011.01)

CPC (source: EP US)

B21D 26/049 (2013.01 - EP US); **B21D 51/2669** (2013.01 - US)

Citation (search report)

See references of WO 2014153545A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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