

Title (en)  
APPARATUS AND METHOD FOR HYDROFORMING A TUBULAR PART

Title (de)  
VORRICHTUNG UND VERFAHREN ZUM HYDROFORMEN EINES ROHRFÖRMIGEN TEILS

Title (fr)  
APPAREIL ET PROCEDE D'HYDROFORMAGE DE PIECE TUBULAIRE

Publication  
**EP 1326722 B1 20051012 (EN)**

Application  
**EP 01974611 A 20011017**

Priority  
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• US 24133700 P 20001019

Abstract (en)  
[origin: WO0232596A1] A method and apparatus for shaping a raw tube (40) into a formed part. The part can be configured within a die assembly including a hydroforming die structure (12, 14) and a pair of tube-engaging punches (81). The punches are inserted into the ends of the raw tube to shape the ends into the desired configuration. The middle portion of the raw tube is shaped into the desired configuration by hydroforming. Thus, the method and apparatus can shape the raw tube along its entire length, leaving no remnants of the raw tube that must be trimmed away.

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IPC 8 full level  
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**WO 0232596 A1 20020425; WO 0232596 A8 20021024; WO 0232596 A9 20030828**; AT E306337 T1 20051015; AU 2001294124 A1 20020429; AU 9412401 A 20020429; BR 0114789 A 20030812; CA 2426029 A1 20020425; CA 2426029 C 20091124; CN 1227079 C 20051116; CN 1471444 A 20040128; CZ 20031109 A3 20040114; DE 60114038 D1 20051117; DE 60114038 T2 20060622; EP 1326722 A1 20030716; EP 1326722 B1 20051012; JP 2004511349 A 20040415; KR 100789014 B1 20071226; KR 20030087614 A 20031114; MX PA03003379 A 20040504; NZ 525377 A 20030926; US 2005126243 A1 20050616

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