

Title (en)  
DEVICE FOR HYDRO-MECHANICAL FORMING OF ARTICLES

Publication  
**EP 0473797 A4 19920826 (EN)**

Application  
**EP 91907153 A 19910318**

Priority  
SU 4799355 A 19900319

Abstract (en)  
[origin: WO9114523A1] A device for hydro-mechanical forming of articles comprising, all mounted coaxially, a multiplier (1), a power cylinder (2) and a demultiplier (3). On the rod of the power cylinder (2) is mounted coaxially to the latter a container (20) provided with a chamber (21) in which is mounted a matrix (22) for the blank, and which at the moment of forming the blank is filled with a plastifying liquid. Between the container (20) and the rod (25) of the demultiplier (3) is mounted a punch (34) sealing the chamber (21) during the forming of the blank. The hydraulic line (29) connecting the low-pressure chamber (26) of the multiplier (3) to a source (12) for the working liquid and to a receiver (13) for its discharge is provided with a non-return valve (30), intended to prevent the working liquid flow from the low-pressure chamber (26) of the demultiplier (3) to the receiver (13) for the working liquid discharge, and with an accumulator (31) the hydraulic chamber (32) of which is connected to a section (33) of the hydraulic line (29), which is located between the non-return valve (30) and the low-pressure chamber (26) of the demultiplier (3).

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CPC (source: EP)  
**B21C 23/007** (2013.01); **B21J 5/04** (2013.01)

Citation (search report)

- [A] US 3871202 A 19750318 - CLAEISSON HARRY
- [A] US 3455134 A 19690715 - THOMPSON PETER JOHN
- See references of WO 9114523A1

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**WO 9114523 A1 19911003**; DK 188791 A 19920113; DK 188791 D0 19911119; EP 0473797 A1 19920311; EP 0473797 A4 19920826; JP H04506183 A 19921029; RU 2052308 C1 19960120

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