

Title (en)  
ELECTROLYSIS DEVICE

Title (de)  
ELEKTROLYSEVORRICHTUNG

Title (fr)  
DISPOSITIF D'ÉLECTROLYSE

Publication  
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Application  
**EP 20820315 A 20201105**

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Abstract (en)  
[origin: WO2021097505A1] The invention relates to a compressor (10) for compressing gases, in particular hydrogen, comprising a compression unit (1) and a pressure generation unit (2), wherein the compression unit (1) has a low pressure chamber (11) and a high pressure chamber (12) which are connected to one another by way of a valve (13), wherein the pressure generation unit (2) is configured as a hydraulic pressure intensifier and has a high pressure unit (22) and a low pressure unit (21), in which a liquid is present. It is provided according to the invention that the low pressure unit (21) of the pressure generation unit (2) is connected to the low pressure chamber (11) and the high pressure unit (22) of the pressure generation unit (2) is connected to the high pressure chamber (12) via fluid lines (3), wherein, in the case of an adjustment of the pressure generation unit (2) into a low pressure position, the pressure in the low pressure unit (21) is increased and the gas which is situated in the low pressure unit (11) is compressed to a first pressure level (p1) and forced into the high pressure chamber (12), and wherein, in the case of an adjustment of the pressure generation unit (2) into a high pressure position, the pressure in the high pressure unit (22) is increased and compresses the gas which is situated in the high pressure chamber (12) to a second pressure level (p2) above the first pressure level (p1).

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