

Title (en)  
HYDROPNEUMATIC ACCUMULATOR

Title (de)  
HYDROPNEUMATISCHER DRUCKSPEICHER

Title (fr)  
ACCUMULATEUR DE PRESSION HYDROPNEUMATIQUE

Publication  
**EP 1370772 B1 20040818 (DE)**

Application  
**EP 02702406 A 20020313**

Priority  
• DE 10112976 A 20010317  
• EP 0202750 W 20020313

Abstract (en)  
[origin: WO02075161A1] Hydropneumatic accumulator comprising an accumulator housing (1) and a diaphragm (3) located therein, which forms a displaceable partition element between a first chamber, in particular a gas chamber (7) and a second chamber, in particular a liquid chamber (5). Said membrane has several annular regions (31, 33, 35, 37, 39), interconnected by annular weak points (61, 63, 65, 67, 69, 71). The annular regions (31, 33, 35, 37, 39) have protuberances (81, 83, 85, 87, 89) on the interior face of the membrane (3) facing away from the wall of the accumulator housing (1). Said protuberances are at their thickest in the central region between neighbouring weak points, thus increasing the wall thickness of the membrane (3) and are at least partially convex (91, 93), tapering off to a respective flat form towards the weak points.

IPC 1-7  
**F15B 1/10**

IPC 8 full level  
**F15B 1/08** (2006.01); **F15B 1/10** (2006.01); **F15B 1/14** (2006.01)

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**F15B 1/10** (2013.01 - EP US); **F15B 1/14** (2013.01 - EP US); **F15B 2201/205** (2013.01 - EP US); **F15B 2201/3151** (2013.01 - EP US); **F15B 2201/3156** (2013.01 - EP US); **F15B 2201/41** (2013.01 - EP US); **F15B 2201/415** (2013.01 - EP US)

Cited by  
EP2447544A2; DE102010050113A1; WO2022152624A1

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