

Title (en)
HYDROPNEUMATIC ACCUMULATOR

Title (de)
HYDROPNEUMATISCHER DRUCKSPEICHER

Title (fr)
ACCUMULATEUR DE PRESSION HYDROPNEUMATIQUE

Publication
EP 1370772 A1 20031217 (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)

Citation (search report)
See references of WO 02075161A1

Cited by
EP2447544A2; DE102010050113A1; WO2022152624A1

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