Title (en)

INTERNAL PRESSURE REGULATING VALVE AND CUSHION WITH THE VALVE

Title (de)

VENTIL ZUR INTERNEN DRUCKREGULIERUNG UND KISSEN ALS VENTIL

Title (fr)

VALVE DE REGULATION DE LA PRESSION INTERNE ET MATELAS PRESENTANT CETTE VALVE

Publication

EP 1000599 A1 20000517 (EN)

Application

EP 99922503 A 19990527

Priority

- JP 9902779 W 19990527
- JP 14736598 A 19980528
- JP 14445099 A 19990525

Abstract (en)

A valve (3) comprising intake means (4) and exhaust means (5) is attached to a cushion comprising an elastic body (2) with air permeability surrounded air-tightly by a casing material (1) with no air permeability, and an internal pressure in the cushion is automatically adjusted by the valve (3). Said intake means (4) is opened to introduce outside air into the cushion when an internal pressure in the cushion becomes equal to or lower than a predetermined value. Said exhaust means (5) is opened to discharge air in the cushion to the outside when an internal pressure in the cushion becomes equal to or higher than a predetermined value. The elastic body (2) of said cushion comprises a high elastic member (21) and a low elastic member (22) which are bonded together. This enables automatic optimization of the elasticity of the cushion in accordance with uses of a patient or the like.

IPC 1-7

A61G 7/057; A47C 27/08

IPC 8 full level

A47C 27/08 (2006.01); **A61G 5/00** (2006.01); **A61G 7/05** (2006.01)

CPC (source: EP)

A47C 27/081 (2013.01)

Citation (search report)

See references of WO 9960978A1

Cited by

CN102421334A; EA019854B1; WO2008020259A1; WO2010109254A1

Designated contracting state (EPC)

DK FI GB NL SE

DOCDB simple family (publication)

WO 9960978 A1 19991202; **WO 9960978 A9 20000316**; EP 1000599 A1 20000517; JP 2000042062 A 20000215; JP 3066018 B2 20000717

DOCDB simple family (application)

JP 9902779 W 19990527; EP 99922503 A 19990527; JP 14445099 A 19990525