

Title (en)
RUBBER HOT-WATER BOTTLE CLOSURE

Title (de)
GUMMIWÄRMFLASCHENVERSCHLUSS

Title (fr)
BOUCHON POUR BOUILLOTTE EN CAOUTCHOUC

Publication
EP 1148855 A1 20011031 (DE)

Application
EP 00904874 A 20000105

Priority
• DE 19900197 A 19990106
• EP 0000033 W 20000105

Abstract (en)
[origin: WO0040187A1] Existing rubber hot-water bottles have a screw-type closure which is arranged directly on the hot-water bottle, and which forms a rather hard seal which causes discomfort to the user when lying on the bottle. Moreover, a screw-type closure is tedious to operate and must be screwed in using a certain amount of force which also corresponds to forces required for loosening. In order to avoid these disadvantages, the invention provides that the bottle neck (21) is configured in such a way that the closure is located distinctly at a distance from the body (20) of the bottle when the fill opening (22) is closed. According to another embodiment, a clamping device (23, 40, 60) is provided on the bottle neck (21) of the rubber hot-water bottle with which the bottle neck (21) can be closed. Clamping devices are easy to operate and require only a small amount of force for closing. In addition, they are easy to open and comprise a very flat design so that they do not cause discomfort to the user.

IPC 1-7
A61F 7/02

IPC 8 full level
A61F 7/02 (2006.01); **A61F 7/08** (2006.01); **B65D 33/02** (2006.01)

CPC (source: EP US)
A61F 7/086 (2013.01 - EP US); **Y10S 383/901** (2013.01 - EP US); **Y10S 383/904** (2013.01 - EP US)

Citation (search report)
See references of WO 0040187A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0040187 A1 20000713; AU 2662000 A 20000724; CA 2365748 A1 20000713; CA 2365748 C 20050628; DE 19900197 A1 20000810; DE 19900197 C2 20010523; EP 1148855 A1 20011031; US 6692146 B1 20040217

DOCDB simple family (application)
EP 0000033 W 20000105; AU 2662000 A 20000105; CA 2365748 A 20000105; DE 19900197 A 19990106; EP 00904874 A 20000105; US 89019702 A 20020122