

Title (en)
VALVE ARRANGEMENT FOR THE INFLATION AND DEFLATION OF AN AIR CUSHION

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EP 0152401 A3 19850925 (DE)

Application
EP 85890040 A 19850215

Priority
AT 52284 A 19840216

Abstract (en)
[origin: EP0152401A2] For the inflation and deflation of an air cushion, in particular for ski boots, a pump (1) with a valve arrangement is proposed, which comprises two valves (3 and 4). The two valves (3 and 4) are arranged in such a manner that, after operation of the operating member (9) of the inlet valve (3) and after a predetermined travel this valve interacts with the operating member (12) of a second valve (4). The second valve (4) is, like the first valve (3), designed as a check valve. Air from the pump chamber can thus be pumped out of the pump chamber of the pump (1) into an air cushion (8) when the check valve (4) is pressed open at the same time as the valve (3) is kept closed. For drawing more air into the air pump (1), the check valve (4) closes automatically, the valve (3) being opened to draw in the air. Finally, for the emptying of air from the cushion (8) and the supply of the valve (3), the valve (4) is opened so that the air can escape via both valves (Fig. 1). <IMAGE>

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CPC (source: EP)
A43B 5/0407 (2013.01); **F04B 33/00** (2013.01); **F04B 45/02** (2013.01)

Citation (search report)
• [A] AT 339770 B 19771110 - KOEFLACH SPORTGERAETE GMBH [AT]
• [A] FR 1074116 A 19541001
• [A] FR 2162955 A5 19730720 - ANDREASSON BROR

Cited by
EP0209849A1; EP0536202A4; US5158767A; US5351710A; US5113599A; US5353525A; US4999932A; US10251450B2; US9290222B1; US2018298889A1; US10539125B2; WO9004323A3; EP0155908B1; WO2022198727A1

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