

Title (en)

Lifting jack comprising a lower control system regulating the flow rate of lifting jack oil

Title (de)

Hebezyylinder mit einem unteren Steuerungssystem dass die Durchflussrate des Zylinderöls reguliert

Title (fr)

Vérin hydraulique avec un système de controle inférieur pour controler le débit de liquide hydraulique de vérin

Publication

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Application

EP 03252363 A 20030414

Priority

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Abstract (en)

A lower control system serves to regulate the flow rate of lifting jack oil, and is installed between a reverse flow valve (5) and an inner oil chamber (101) to regulate the oil flow from the inner chamber (101) to an outer chamber (102), the lower control system comprising an outer valve body (1), a steel ball (2), a spring (3), and a throttle body (4), the throttle body (4) having a tapered portion (41), formed at its front end, and at least one throttling slot way (411) and one lateral slot way (42), formed respectively on the tapered portion (41) and the circumferential wall thereof, such that, when the jack is not loaded, the reverse flow valve (5) can lift the steel ball (2) so that oil swiftly flows by the throttle body (4) through the lateral slot ways (42) to complete the reverse flow, and, when the jack is loaded, oil gently flows by the throttle body (4) through the throttling slot ways (411), leading to a reduction of oil flow rate and a slower descending of the jack. <IMAGE>

IPC 1-7

B66F 3/24; **B66F 3/42**

IPC 8 full level

B66F 3/42 (2006.01); **F15B 11/05** (2006.01)

CPC (source: EP)

B66F 3/42 (2013.01); **F15B 13/023** (2013.01); **F15B 13/027** (2013.01); **F15B 15/204** (2013.01)

Citation (search report)

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