

Title (en)
A double-acting telescopic hydraulic jack

Title (de)
Doppeltwirkender teleskopischer hydraulischer Heber

Title (fr)
Vérin hydraulique télescopique à double effet

Publication
EP 2025638 A1 20090218 (EN)

Application
EP 07425492 A 20070731

Priority
EP 07425492 A 20070731

Abstract (en)
A double-acting telescopic hydraulic jack, preferably a sequential retracting jack, comprises a first stem (2) which is cylindrical and hollow and has a predetermined diameter, a second stem (3) which is cylindrical and hollow and has a predetermined diameter which is greater than the diameter of the first stem (2), the first stem (2) being slidably inserted in the second stem (3), a hollow cylindrical body (4) having a diameter which is greater than the diameter of the second stem (3), the second stem (3) being slidably inserted in the body (4), actuating chambers (5, 6, 7, 8) for extension and retraction of the first stem (2) with respect to the second stem (3) and the second stem (3) with respect to the body (4), the first stem (2) defining, in combination with the second stem (3), a telescopic passage conduit (15) for an operating fluid for actuating the chamber (7) for extension of the second stem (3). The jack comprises a compensating chamber (17) set in fluid communication with the conduit (15) and having a variable volume according to the relative position of the first stem (2) and the second stem (3) in order to receive operating fluid during the retraction of the second stem (3), enabling complete retraction of the first stem (2) without placing the extension chamber (6) of the second stem (3) in discharge.

IPC 8 full level
B66F 3/28 (2006.01); **F15B 15/16** (2006.01)

CPC (source: EP)
B66F 3/28 (2013.01); **F15B 15/16** (2013.01)

Citation (search report)

- [A] EP 0016921 A1 19801015 - FISCHER AG GEORG [CH]
- [A] EP 0310022 A1 19890405 - NISAP MASKINFABRIK AS [DK]
- [A] DE 1107383 B 19610525 - RHEINSTAHL SIEGENER EISENBAHN
- [A] DE 2104502 A1 19720817

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 2025638 A1 20090218; **EP 2025638 B1 20110216**; AT E498580 T1 20110315; DE 602007012537 D1 20110331

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