

Title (en)
Two-step telescopic cylinder

Title (de)
Zweistufen-Teleskopzylinder

Title (fr)
Cylindre télescopique à deux étages

Publication
EP 2058528 A3 20100407 (EN)

Application
EP 08167038 A 20081020

Priority
JP 2007289374 A 20071107

Abstract (en)
[origin: EP2058528A2] A two-step telescopic cylinder 5 of the present invention is provided with a piston rod 11, an inner cylinder tube 12, an outer cylinder tube 13, an inner extension oil chamber 17, an outer extension oil chamber 18, an inner stowage oil chamber 19 and an outer stowage oil chamber 20. The inner extension oil chamber and the outer extension oil chamber do not communicate with each other, and the inner stowage oil chamber and the outer stowage oil chamber communicate with each other. A first oil path 25 communicating with the inner extension oil chamber, a second oil path 26 communicating with the outer extension oil chamber and a third oil path 27 communicating with the inner stowage oil chamber are formed in the piston rod so as not to communicate with each other. A communication line 28 is provided in a bottom portion of the inner cylinder tube. One end of this communication line is inserted into the second oil path. When the piston rod and the inner cylinder tube relatively perform an extension action, insertion length of the communication line into the second oil path is accordingly changed. Size of the two-step telescopic cylinder of the present invention is small so as to enhance usability.

IPC 8 full level
F15B 15/16 (2006.01)

CPC (source: EP)
F15B 15/149 (2013.01); **F15B 15/16** (2013.01)

Citation (search report)
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