

Title (en)
Telescopic vertical tube with dead stop

Title (de)
Teleskopierbares Vertikalrohr mit Anschlag

Title (fr)
Tube vertical télescopable doté d'une butée

Publication
EP 2378034 B1 20151223 (DE)

Application
EP 11154458 A 20110215

Priority
DE 102010027873 A 20100416

Abstract (en)
[origin: EP2378034A2] The tube (1) has an inner tube (3) movable in an outer tube (2), and front-sided head-and/or base plates (4) provided at one of lower ends (21) and an upper end. A stopper limits maximum insertion of the inner tube into the outer tube. A damper (7) e.g. hydraulic damper and pneumatic spring damper, is designed as the stopper or a lateral slotted sleeve and made of rubber. The base plates comprise an opening at an inner side of the outer tube, where diameter of the opening is less than inner diameter of the outer tube at the lower end and outer diameter of the damper.

IPC 8 full level
E04G 25/00 (2006.01); **E04G 25/06** (2006.01)

CPC (source: EP)
E04G 25/00 (2013.01); **E04G 25/06** (2013.01); **E04G 25/061** (2013.01); **E04G 25/065** (2013.01); **E04G 2025/006** (2013.01)

Citation (examination)
JP H08158654 A 19960618 - ITO SEISAKUSHO

Cited by
CN105257017A; CN105257018A; EP4227478A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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