

Title (en)  
Telescopic strut for building construction.

Title (de)  
Teleskopstütze für Bauschalungen.

Title (fr)  
Etai télescopique pour la construction de bâtiments.

Publication  
**EP 0665348 A1 19950802 (DE)**

Application  
**EP 94120095 A 19941219**

Priority  
DE 4400360 A 19940108

Abstract (en)  
The support with a load-carrying capacity greater than 30kN and a height greater than 1 m incorporates telescopic inner and outer tubes which are provided with support plates (16,27) at their free ends. At the other end the outer tube has a coarse outside thread carrying a nut mechanism. The inner and outer tubes (14,13) are made respectively of steel and aluminium. The thread (28) is on a tube section (23) whose bore accommodates the inner tube with a small clearance. The diameter and length of the section (26) of the outer tube are larger than the corresponding parameters of the section (23). The tube sections (26) and (23) are joined by a sleeve (24). The inner tube (14) has the form of a circular cylinder to which the inner surface of the tube section (23) is complementary. The inner tube is provided with pairs of radial holes with regular axial distances. The thread (28), whose length lies between one and four such distances, is a rolled trapezoidal thread. The nut mechanism is, in essence, a steel casting. The wall of the inner tube is thickened in the region of the hole pairs.

Abstract (de)  
Bekannte Stützen (11) in der Bauindustrie oder dergleichen bestehen aus Stahl. Dann sind sie sehr schwer, können allerdings hoch belastet werden. Aluminiumstützen sind dagegen zwar leicht. Sie sind aber teuer und erfordern für beide Teleskoprohre komplizierte Profile. Die Erfindung vermeidet solche und weitere Nachteile, indem sie das äußere Teleskoprohr (13) aus Aluminium und das innere Teleskoprohr (14) aus Stahl macht. Dabei wird das äußere Teleskoprohr so gestaltet, daß es vergleichbar hoch belastbar ist wie das innere Teleskoprohr. Ferner wird ein Übergangsbereich zwischen innerem und äußerem Teleskoprohr geschaffen, der eine gute Kraftverteilung ergibt. <IMAGE>

IPC 1-7  
**E04G 25/06**

IPC 8 full level  
**E04G 11/48** (2006.01); **E04G 25/06** (2006.01)

CPC (source: EP)  
**E04G 11/48** (2013.01); **E04G 25/06** (2013.01); **E04G 25/061** (2013.01); **E04G 25/065** (2013.01); **E04G 25/066** (2013.01)

Citation (search report)

- [A] EP 0457377 A1 19911121 - LEEUW PETRUS J L DE [NL]
- [A] FR 993547 A 19511102 - ALUMINIUM FRANCAIS
- [A] DE 8802297 U1 19880505
- [A] EP 0553666 A1 19930804 - PERI GMBH [DE]
- [A] DE 3445657 A1 19860626 - ISCHEBECK FRIEDRICH GMBH [DE]
- [A] AU 537327 B2 19840621 - HITCHINS W G
- [A] BE 879330 A 19800201 - SALZGITTER MASCHINEN AG
- [A] EP 0390128 A1 19901003 - PERI WERK SCHWOERER KG ARTUR [DE]

Cited by  
NL2019510B1; DE102007001170B3; CN105888295A; EP2021558A4; WO2008080377A1; US11987999B2; WO2023287409A1

Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)  
**EP 0665348 A1 19950802; EP 0665348 B1 19971029**; AT E159787 T1 19971115; DE 4400360 A1 19950713; DE 59404473 D1 19971204

DOCDB simple family (application)  
**EP 94120095 A 19941219**; AT 94120095 T 19941219; DE 4400360 A 19940108; DE 59404473 T 19941219