

Title (en)

Arrangement comprising a ladder hinge and fixing devices

Title (de)

Anordnung aufweisend ein Leitergelenk für den Einsatz in Leiterholmen und Befestigungselemente

Title (fr)

Configuration avec une articulation pour échelle et moyens de fixation

Publication

**EP 1096102 A1 20010502 (DE)**

Application

**EP 00121424 A 20000929**

Priority

DE 29919002 U 19991029

Abstract (en)

One of the shaft legs (22,23) has paired opposing holes (32,33) open to the free endface and in half-round form. The width of the shaft free end holes (24,34) is dimensioned to match the rung (5) section so as to grasp this when the shafts are slid into the stringers. The holes are rectangular and inwardly cranked to grasp the rung without clearance. Shaft (2) has a locking disk concentric to the joint axis and grooved peripherally to give ladder settings as held by a locking piece (35) when slid into the grooves until withdrawn by a release lever rotatably mounted on shaft (3). The locking piece is held in the grooves by a compression spring and the opposing groove edges are at different height to form a strike face for the inserted piece. The release lever is joined to the operating lever (6) and an angle step on the operating lever serves as locking bit and the release lever has a step-conforming hole which thus acts as engagement point for the operating lever.

Abstract (de)

Bei einem Leitergelenk, welches zwei um eine Gelenkachse drehbar miteinander verbundene Schäfte (2, 3) aufweist, wobei die Schäfte (2, 3) aus zwei U-Profilen (21, 31) gebildet sind, welche mit den Stirnflächen der freien Enden der Schenkel aneinanderstoßen, ist, um dieses Gelenk dauerhaft fest- und wackelfrei mit den Leiterholmen zu verbinden, zumindest ein Schenkel (22, 32) mit zumindest einer zu seiner Stirnseite hin offenen Aussparung versehen, welche zur Aufnahme von Befestigungselementen bestimmt ist. <IMAGE>

IPC 1-7

**E06C 1/32; E06C 7/08**

IPC 8 full level

**E06C 1/32** (2006.01)

CPC (source: EP)

**E06C 1/32** (2013.01)

Citation (search report)

- [XY] DE 4344921 A1 19950706 - RAUSCHENBERGER METALLWAREN GMB [DE]
- [YA] DE 19539157 A1 19970424 - HYMER LEICHTMETALLBAU [DE]
- [Y] DE 3737295 A1 19890518 - KRAUSE WERK GMBH & CO KG [DE]
- [A] DE 19517227 A1 19961114 - BRENNENSTUHL KG HUGO [DE]

Cited by

CN109154172A; US10801261B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 1096102 A1 20010502; EP 1096102 B1 20060301**; AT E318984 T1 20060315; DE 29919002 U1 20000203; DE 50012283 D1 20060427; ES 2258434 T3 20060901

DOCDB simple family (application)

**EP 00121424 A 20000929**; AT 00121424 T 20000929; DE 29919002 U 19991029; DE 50012283 T 20000929; ES 00121424 T 20000929