

Title (en)  
Connecting element.

Title (de)  
Verbindungselement.

Title (fr)  
Élément de connexion.

Publication  
**EP 0359046 A1 19900321 (DE)**

Application  
**EP 89116080 A 19890831**

Priority  
DE 8811069 U 19880901

Abstract (en)  
[origin: US4947960A] It has been necessary up to now for connecting two ladder elements in order to construct a free-standing ladder to connect the lower ends of the ladder elements by means of a tie rod. Furthermore a reliable connection only in the area of the upper ends of the ladder elements is not possible because of the danger of damaging the sidepieces. These disadvantages are supposed to be avoided with the invention. The invention provides, that the clamping elements of a connecting element fastened on a first sidepiece are constructed like a flat contact plate inclined with respect to the longitudinal axis of the first sidepiece and connected to the connecting element and like a swivel plate pivotal about an axis arranged perpendicularly with respect to the longitudinal axis of the first sidepiece. The connecting element of the invention can be used in all types of multi-purpose ladders.

Abstract (de)  
Zur Verbindung zweier Leiterelemente (1, 2) ist ein Verbindungselement vorgesehen wobei die Klemmelemente eines an einem ersten Holm (1) befestigten Verbindungselementes in Form einer ebenen, zur Längsachse des ersten Holms (1) geneigten, mit dem Verbindungselement verbundenen Anlageplatte (3) und einer um eine senkrecht zur Längsachse des ersten Holms (1) angeordnete Achse (4) schwenkbaren Schwenkplatte (5) ausgebildet ist. Das Verbindungselement ist bei allen Arten von Mehrzweckleitern verwendbar.

IPC 1-7  
**E06C 1/32**

IPC 8 full level  
**E06C 1/18** (2006.01); **E06C 1/32** (2006.01)

CPC (source: EP US)  
**E06C 1/18** (2013.01 - EP US); **E06C 1/32** (2013.01 - EP US)

Citation (search report)  
• [A] FR 2150013 A5 19730330 - HYMER LEICHTMETALLBAU  
• [A] FR 2391349 A1 19781215 - MULLCA [FR]  
• [A] FR 1166010 A 19581103  
• [A] FR 1372452 A 19640918  
• [A] US 2223911 A 19401203 - GARNETTE JAMES L

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Designated contracting state (EPC)  
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**DE 8811069 U1 19881110**; EP 0359046 A1 19900321; US 4947960 A 19900814

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