

Title (en)  
FRAME CONSTRUCTION

Publication  
**EP 0223106 A3 19870819 (DE)**

Application  
**EP 86114844 A 19861025**

Priority  
DE 3539003 A 19851102

Abstract (en)  
[origin: US4742658A] A frame structure consisting of two compound units provided with mutually facing grooves undercut on either side, in which the first compound unit can be attached in a desired position to the second compound unit via a detachable coupling which comprises a turning part which can be turned from the outside manually via a handle about its longitudinal axis by about 90 DEG into its coupling or decoupling position, and which in its coupling position positively engages by means of a T-head at its one end in one of the two grooves and by means of anchoring means at its other end in the other of the two grooves and can be locked in this coupling position by means of an anti-rotation device. To connect the two compound units to each other without special tools, but above all to be able also to detach them from each other again, it is proposed according to the invention that the anchoring means comprise a punched part which is arranged longitudinally displaceably in the one groove and bears the turning part which is freely rotatable relative to it and that the handle comprise a resilient element connected securely against rotation to the turning part, which element in decoupling position extends in relieved state or under only slight stress between the two compound units and in coupling position engages under bending stress behind a holder.

IPC 1-7  
**E04B 2/96**

IPC 8 full level  
**F16S 1/02** (2006.01); **E04B 2/96** (2006.01)

CPC (source: EP US)  
**E04B 2/967** (2013.01 - EP US)

Citation (search report)  
• [AD] CH 580210 A5 19760930 - ALUSUISSE  
• [A] DE 3048152 A1 19820603 - KOLLER METALLBAU AG [CH]

Cited by  
EP0443190A1

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

DOCDB simple family (publication)  
**US 4742658 A 19880510**; AT E40169 T1 19890215; CA 1289011 C 19910917; DE 3539003 C1 19870115; DE 3661852 D1 19890223; EP 0223106 A2 19870527; EP 0223106 A3 19870819; EP 0223106 B1 19890118; JP S62184300 A 19870812; NO 165307 B 19901015; NO 165307 C 19910206; NO 864364 D0 19861031; NO 864364 L 19870504

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**US 92595886 A 19861103**; AT 86114844 T 19861025; CA 522068 A 19861103; DE 3539003 A 19851102; DE 3661852 T 19861025; EP 86114844 A 19861025; JP 25960886 A 19861030; NO 864364 A 19861031