

Title (en)  
Concrete forming structures.

Title (de)  
Beton-Schalungskonstruktion.

Title (fr)  
Coffrage pour constructions en béton.

Publication  
**EP 0062420 A1 19821013 (EN)**

Application  
**EP 82301301 A 19820315**

Priority  
CA 374073 A 19810327

Abstract (en)  
Panel framework for supporting panel sheeting used in concrete forming structures (10), such as structures for supporting poured concrete in forming floors and walls. The framework comprises a perimeter frame of spaced parallel siderails (38) and endcap rails (40) with a plurality of spaced rigid cross-members (42) within the frame. The endcap rails (40) and cross-members (42) are mechanically secured to the siderails (38) to provide for replacement of components of the framework. The cross-members (42), as mechanically secured to the siderails (38), support the panel sheeting when affixed to the framework and used in forming concrete. In assembling panels for forming walls, tie member panels may be used where the wall form panels (22) are connectable to one another and to the tie member panels. The panels (22) are all of the same depth and have uninterrupted abutting edges, thus when interconnected, provide a substantially planar continuous frontwall face against which concrete may be poured without concrete leaking through the connections. The rear edges of the panel rails also all lie in substantially the same plane. Tie members (18) span the opposing tie member panels and are arranged and so connected to the opposing wall arrangements to hold them in their predetermined spaced-apart relationship after concrete is poured between the wall arrangements. Reinforcing members may be used with the tie members and clamped against the panel rear edges to reinforce the wall arrangements.

IPC 1-7  
**E04G 11/08**; **E04G 17/04**; **E04G 9/08**; **E04G 11/48**

IPC 8 full level  
**E04G 9/02** (2006.01); **E04G 9/08** (2006.01); **E04G 11/08** (2006.01); **E04G 11/12** (2006.01); **E04G 11/48** (2006.01); **E04G 17/04** (2006.01); **E04G 17/14** (2006.01)

CPC (source: EP)  
**E04G 9/02** (2013.01); **E04G 11/087** (2013.01); **E04G 11/12** (2013.01); **E04G 17/04** (2013.01); **E04G 17/047** (2013.01); **E04G 17/14** (2013.01); **E04G 2009/025** (2013.01)

Citation (search report)  
• [A] US 3163911 A 19650105 - KENNEY WILLIAM H  
• [A] GB 1343051 A 19740110 - SYMONS CORP  
• [A] GB 1142861 A 19690212 - RAPID METAL DEVELOPMENTS LTD  
• [A] US 3362676 A 19680109 - BOWDEN GEORGE F  
• [A] US 3171186 A 19650302 - BOWDEN GEORGE F  
• [A] US 3246871 A 19660419 - BOWDEN GEORGE F

Cited by  
HRP920017A2; GB2143886A; US4978099A; EP0674067A1; EP3543432A1; ES2113770A1; AU579208B2; FR2782337A1; US10550590B2; US6322043B1; US4473209A; US6581898B2; EP0758043A1; ES2179708A1; CN101886467A; CN109457944A; DE102019104316A1; US6568651B2; US4976401A; US4744541A; EP0202927A3; GB2175636A; US4776557A; AU587457B2; US11624196B2; US11293194B2; WO8602400A1; WO9807935A1; WO2018161137A1; WO2019023745A1; US10975585B2; US11976483B2; US11306492B2; US11970873B2; WO8402943A1; WO2022175978A1

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

DOCDB simple family (publication)  
**EP 0062420 A1 19821013**; **EP 0062420 B1 19860618**; AT E20485 T1 19860715; CA 1159274 A 19831227; DE 3271732 D1 19860724; JP S57169171 A 19821018; NO 821048 L 19820928

DOCDB simple family (application)  
**EP 82301301 A 19820315**; AT 82301301 T 19820315; CA 374073 A 19810327; DE 3271732 T 19820315; JP 4877282 A 19820326; NO 821048 A 19820329