

Title (en)  
SUPPORTING DEVICE FOR POSITIONING REINFORCEMENTS

Publication  
**EP 0290831 A3 19890125 (DE)**

Application  
**EP 88106357 A 19880421**

Priority  
DE 3713484 A 19870422

Abstract (en)  
[origin: EP0290831A2] The insert, to be set in concrete, for ensuring the desired position of reinforcements in reinforced concrete building components consists of at least two stirrups, which are open towards the formwork and welded together by means of longitudinal bars to form a unit, and at the stirrup ends of which the internally threaded sleeves are arranged, which are equipped with holding elements for the lower reinforcement, while the upper reinforcement is supported by the stirrup crosspieces or the longitudinal bars. The concrete covering for the upper reinforcement is ensured by the fact that the height of the stirrups is adapted to the desired position of the upper reinforcement. The insert is characterised in that it serves both to ensure the desired position of the reinforcements and, after the concrete has set, permanently, if necessary, as a constructional reinforcement for suspended loads acting on the underside of the building component and/or as a shear reinforcement. <IMAGE>

IPC 1-7  
**E04C 5/18**

IPC 8 full level  
**E04C 5/18** (2006.01)

CPC (source: EP)  
**E04C 5/18** (2013.01)

Citation (search report)

- [A] DE 2204086 A1 19730809 - EISEN FISCHER GMBH & CO KG
- [A] US 4074493 A 19780221 - OUTRAM CHRISTOPHER DAVID
- [A] AU 529548 A
- [A] WO 8605538 A1 19860925 - BBT BETON BAUTECHNIK GMBH [DE], et al
- [A] NL 7605566 A 19771128 - AARDING WEERSTANDLAS BV
- [A] DE 8507748 U1 19850509
- [A] GB 2137252 A 19841003 - DREIZLER SELMA
- [A] FR 1359709 A 19640430

Designated contracting state (EPC)  
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