

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 March 2005 (10.03.2005)

PCT

(10) International Publication Number
WO 2005/021887 A1

(51) International Patent Classification⁷: **E04D 3/362**,
3/366, E04F 13/12, 13/08

(74) Agent: **VAN DER DONK, Henricus Matheus**; Corus
Technology BV, P.O. Box 10000, 1970 CA IJMUIDEN
(NL).

(21) International Application Number:
PCT/EP2004/008963

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(22) International Filing Date: 6 August 2004 (06.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03077670.2 27 August 2003 (27.08.2003) EP
04076002.7 6 April 2004 (06.04.2004) EP

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **CORUS
BAUSYSTEME GmbH** [DE/DE]; August-Horch-Strasse
20-22, 56070 Koblenz (DE).

(72) Inventors; and

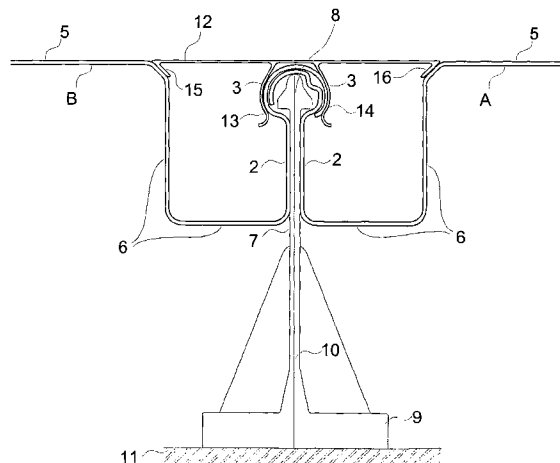
(75) Inventors/Applicants (*for US only*): **Döhren, Hans-Jür-
gen** [DE/DE]; Krükenmorgen 16, 55452 Guldental (DE).
Pritzkow, Jan Wolfgang Christian [DE/DE]; Karl-Broel-
Strasse 11, 53604 Bad Honnef (DE).

Published:

— with international search report

[Continued on next page]

(54) Title: COMBINATION OF TWO BUILDING MEMBERS, A RETAINING ELEMENT AND A BRIDGING ELEMENT



(57) Abstract: The invention relates to a combination of two building members (A, B) wherein the building members comprise upstanding flanges on opposite sides and an intermediate portion between the upstanding flanges where the upstanding flanges have a curved portion at their free end and a retaining element, wherein the retaining element comprises a head portion, a base for securing to a support member and a web portion joining the head portion to the base portion, wherein the head portion supports at least the curved portion of one upstanding flange on one building member (A) and one upstanding flange on the other building member (B) and wherein the combination further comprises a bridging element extending at least partially between building member (A) and other building member (B) over the head of the retaining element, wherein the curved portion of one upstanding flange on one building member (B) closely surrounds the curved portion of the upstanding flange of the other building member (A) and the bridging element comprises depending parts which closely surround the curved portions of the upstanding flanges.

WO 2005/021887 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.