

Title (en)  
FABRICATING A METAL BEAM

Title (de)  
HERSTELLUNG EINES METALLTRÄGERS

Title (fr)  
FABRICATION D'UN PROFILE METALLIQUE

Publication  
**EP 1896202 A1 20080312 (EN)**

Application  
**EP 06744094 A 20060605**

Priority  
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Abstract (en)  
[origin: WO2006129118A1] Method of fabricating a metal beam from flat metal components (2, 3, 6). Two face plates of sheet metal (2, 3) are held mutually spaced apart by a reinforcing web (6) which is perpendicular to each of the face plates (2, 3) and which preferably extends in a non-linear path. Each face plate (2, 3) is formed with a row of slots (5) which together follow a line of engagement between the face plate (2, 3) and the supporting web (6). Each longitudinal edge of the reinforcing web (6) is formed as an array of edge projections (7) sized and spaced apart to engage with the slots (5) in the respective face plate (2, 3). Some of the edge projections (8) are sized to pass completely through the slots (5) with which they engage, and are bent preferably by twisting to form a temporary retention between the supporting web (6) and the face plates (2, 3). Whilst thus temporarily retained, each face plate (2, 3) is welded or brazed to the supporting web (6) along the line of engagement therebetween. Finally all edge projections (8) that stand proud on the other side are removed by grinding. The resulting metal beam can be an I-section beam or a box section beam.

IPC 8 full level  
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