

Title (en)  
METHOD FOR MAKING A STRUCTURAL ELEMENT HAVING A GENERALLY TUBULAR METAL WALL AND STRUCTURAL ELEMENT

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES STRUKTURBAUTEILS MIT EINER ROHRFÖRMIGEN METALLWAND UND STRUKTURBAUTEIL

Title (fr)  
PROCEDE DE FABRICATION D'UN ELEMENT DE STRUCTURE AYANT UNE PAROI METALLIQUE DE FORME GENERALE TUBULAIRE ET ELEMENT DE STRUCTURE

Publication  
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Application  
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Priority  
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Abstract (en)  
[origin: US7381476B2] At least one plane blank ( 20 ) is cut out from a sheet of metal material, the blank comprising a main part having the developed shape of the wall of the structural element and at least one additional overlap and fixing tab ( 26, 27, 28 ), the cutout blank ( 20 ) is folded along a plurality of lines ( 23 ) so as to form the wall of the structural element comprising a plurality of annular segments that are not in axial alignment out of folded portions ( 22, 24, 24', 25 ) of the main part of the cutout blank ( 20 ), and welding is used to fix at least one additional overlap and fixing tab ( 26, 27, 28 ) on at least one of a folded portion ( 22, 24, 24', 25 ) and a second overlap tab. During welding, at least one overlap tab ( 26, 27, 28 ) and the folded wall portion ( 22, 24, 24', 25 ) or the second overlap tab are maintained bearing resiliently one against the other in a superposed disposition, welding is perfectly performed by means of a laser beam, in transparency, the structural element of the invention has numerous applications in a very wide variety of industries.

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