

Title (en)  
FORMING COMPLEX HOLLOW SECTIONED STRUCTURAL MEMBERS

Publication  
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Application  
**EP 85308072 A 19851106**

Priority  
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Abstract (en)  
[origin: EP0181203A2] A method is described of forming relatively complex I-sectioned tubular beam from relatively simple O-sectioned tubular stock either seamed or seamless provided that the material of the stock is superplastically deformable. The O-sectioned stock is sealed and filled with inert gas, heated to superplastic forming temperature and, in one embodiment, is placed in a mould which has regions inwardly movable to compress the stock into a desired shape, the gaseous pressure thus formed internally of the sealed stock causing the material of the stock to conform to the final interior shape of the mould. In a further embodiment the sealed, filled and heated stock is urged axially through a die which compresses the stock and is again constrained to conform with the final interior shape of the die by virtue of its internal gaseous pressure.

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