

Title (en)
A METHOD OF BENDING METAL OBJECTS

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Application
EP 88118683 A 19881109

Priority
PL 26903987 A 19871126

Abstract (en)
[origin: EP0317830A2] This present invention solves the problem of bending objects, particularly flat parallel ones, without employing an external force. The method according to this present invention involves subjecting the material of the object bent to a repetitive, two-phase heating and cooling process. During the first phase, the material undergoes heating with a concentrated stream of energy causing a thermal effect along the predetermined bending line and a partial plasticising, melting and flowing out in the region of the bending line. On the other hand, the material is subjected in the second phase to being cooled at ambient temperature or, additionally, in a stream of a blown air, thereby causing the previously heated material to shrink along fibres in the direction perpendicular to the bending line due to the internal stresses created by the thermal shrinkage of the material in the heated region, and thus the deformation of the material to be permanently changed. The method is suitable for bending metal objects.

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Cited by
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