

Title (en)

USE OF A PROCESS FOR IMPROVING THE DUCTILITY OF A PRODUCT MADE FROM A MARTENSITIC TRANSFORMATION ALLOY

Publication

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Application

EP 88420216 A 19880622

Priority

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Abstract (en)

[origin: US4878954A] A process is disclosed for improving the ductility of shape-memory alloy products based on Ti-Ni involving martensitic transformation. The process comprises at least one thermal treatment cycle of alternating hot and cold treatment, wherein the first thermal treatment cycle comprises a cold treatment at a temperature both lower than -50 DEG C. and lower than Ms-50 DEG C., where Ms is the temperature at which martensitic transformation of the product begins, and a hot treatment of the product at a temperature of 700 DEG to 900 DEG C. Each optional subsequent thermal treatment cycle comprises a cold treatment of the product at a temperature both lower than -50 DEG C. and lower than Ms-30 DEG C., and a hot treatment of the product at a temperature of 600 DEG to 900 DEG C.

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