

Title (en)
TUNGSTEN-NICKEL-IRON HIGH-DENSITY ALLOYS WITH VERY HIGH MECHANICAL PROPERTIES, AND PROCESS FOR MANUFACTURING THESE ALLOYS

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Application
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Priority
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Abstract (en)
[origin: EP0313484A1] These alloys are characterised in that the alpha phase of tungsten is in the shape of butterfly wings with dislocation cells between 0.01 and 1 μ m in size and the gamma phase of the binder has a mean free path of less than 15 μ m. <??>The process consists in subjecting the sintered and annealed product to at least three cycles of operations consisting, in each case in following the puddling by a heat treatment. <??>The invention finds its application in the production of alloys which have a tensile strength of between 1300 and 2000 MPa and intended especially for use at very high stresses. <IMAGE>

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Cited by
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