

Title (en)
METHOD FOR MANUFACTURING INCONEL 718 NICKEL SUPERALLOYS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON INCONEL-718-NICKELSUPERLEGIERUNGEN

Title (fr)
PROCEDE DE FABRICATION DE SUPERALLIAGES DE NICKEL DE TYPE INCONEL 718

Publication
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Application
EP 10801646 A 20101209

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Abstract (en)
[origin: WO2011070302A1] The invention relates to a method for manufacturing Inconel 718 nickel superalloys. The last step for forging undergone by said nickel superalloy is such that said step is carried out at a temperature T less than the d-solvus temperature where, at every point M of said nickel superalloy, the local deformation rate D is at least equal to a minimum value Dm. Said method is characterized in that said nickel superalloy does not undergo heat treatment at a temperature greater than a threshold temperature Ts equal to 750° C after said quenching.

IPC 8 full level
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CPC (source: EP US)
C22C 19/056 (2013.01 - EP US); **C22F 1/10** (2013.01 - EP US)

Citation (examination)
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• W. HORVATH ET AL: "The Effectiveness of Direct Aging on INCONEL 718 Forgings Produced at High Strain Rates as Obtained on a Screw Press", SUPERALLOYS 718, 625, 706 AND VARIOUS DERIVATIVES : PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON SUPERALLOYS 718, 625, 706 AND VARIOUS DERIVATIVES ; HELD JUNE 17 - 20, 2001, 1 January 2001 (2001-01-01), Warrendale, Pa., pages 223 - 228, XP055579520, ISBN: 978-0-87339-510-6, DOI: 10.7449/2001/Superalloys_2001_223_228
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