

Title (en)
SUBLAYER FOR A NICKEL-BASED SUPERALLOY FOR ENHANCING THE LIFETIME OF THE PARTS AND IMPLEMENTATION METHOD THEREOF

Title (de)
UNTERSCHICHT FÜR SUPERLEGIERUNG AUF NICKELBASIS ZUR VERBESSERUNG DER LEBENSDAUER VON TEILEN UND IMPLEMENTIERUNGSVERFAHREN DAFÜR

Title (fr)
SOUS-COUCHE POUR SUPERALLIAGE BASE NICKEL PERMETTANT L'AMÉLIORATION DE LA DURÉE DE VIE DES PIÈCES ET SON PROCÉDÉ DE MISE EN OEUVRE

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Abstract (en)
[origin: WO2022029393A1] The invention relates to a nickel-based superalloy part (100) comprising: - a nickel-based superalloy substrate (10); and - a metal sublayer covering the substrate, characterised in that the sublayer comprises a first (11) and a second (12) layer, the first layer being located between the substrate and the second layer, the first layer comprising a first γ' -Ni₃Al phase and a second γ -Ni phase, the second layer comprising a first γ' -Ni₃Al phase, a second γ -Ni phase and a third β -NiAl phase, the average atomic fraction of aluminium in the second layer being strictly greater than the average atomic fraction of aluminium in the first layer.

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