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(54) **Title:** TITANIUM ALLOYS FOR RAPID SOLIDIFICATION PROCESSING

(57) **Abstract:** The invention relates to an additive manufacturing method for the production of components comprising the steps of (a) providing and melting a metal based powder, (b) merging the molten particles with each other and with their underground thereby forming merged material, (c) cooling and thereby solidifying the merged material characterized in that the metal based powder is a Ti based powder comprising at least Ta, Fe and i) Sn and/or ii) Nb and Zr.



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