

Title (en)
STREAMLINED PROCESS FOR PRODUCING ALUMINUM-SCANDIUM ALLOY

Title (de)
STROMLINIENFÖRMIGES VERFAHREN ZUR HERSTELLUNG EINER ALUMINIUM-SCANDIUM-LEGIERUNG

Title (fr)
PROCÉDÉ SIMPLIFIÉ DE PRODUCTION D'ALLIAGE ALUMINIUM-SCANDIUM

Publication
EP 4339313 A1 20240320 (EN)

Application
EP 23194282 A 20230830

Priority
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• US 202318177429 A 20230302

Abstract (en)
An alloy product is produced by an aluminothermic reduction process and an alloying process with one or more other metals or master alloy, where the reduction process and the alloying process are performed in a single stage. The final alloy product may have a scandium concentration that is greater than 0% and less than about 2%. According to another aspect of the present disclosure, a first melt is produced at a first melt temperature, a melting and alloying step is performed at a second melt temperature, less than the first melt temperature, and the temperature of the first melt is not substantially less than the second melt temperature before the melting and alloying step.

IPC 8 full level
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Citation (applicant)
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