

Title (en)
ALUMINIUM CASTING ALLOY

Title (de)
ALUMINIUM-GUSSLEGIERUNG

Title (fr)
ALLIAGE D'ALUMINIUM DE COULÉE

Publication
EP 4215634 A1 20230726 (EN)

Application
EP 21869849 A 20210915

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Abstract (en)
The invention refers to the field of metallurgy, in particular to aluminum-based alloys, and can be used to manufacture thin-walled complex-shaped castings by casting in a metal mold, in particular for automotive components, parts of electronic devices, etc. The aluminum-based casting alloy contains, wt. %: calcium 1.5-5.1; iron up to 0.7; silicon up to 1.0; zinc 0.1-1.8 and, optionally, one or more manganese 0.2-2.5; titanium 0.005-0.1; zirconium 0.05-0.14; chrome 0.05-0.15, with calcium and zinc present in the alloy structure primarily as eutectic particles. The technical result is to provide the required combination of process properties in casting and corrosion resistance. 3 patent claims, 3 tables, 4 attachments, 2 figures.

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