

Title (en)  
PROCESS AND PLANT FOR PRODUCING COMPONENTS MADE OF THIXOTROPIC BILLETS OF AN ALUMINIUM ALLOY FOR VEHICLES,  
AND COMPONENTS OBTAINED THEREBY

Title (de)  
VERFAHREN UND ANLAGE ZUR HERSTELLUNG VON BAUTEILEN AUS THIXOTROPISCHEN KUGELN EINER ALUMINIUMLEGIERUNG FÜR  
FAHRZEUGE UND DADURCH ERHALTENE BAUTEILE

Title (fr)  
PROCÉDÉ ET INSTALLATION DE FABRICATION DE COMPOSANTS FAITS DE BILLETES THIXOTROPES D'UN ALLIAGE ALUMINIUM POUR  
VÉHICULES, ET COMPOSANTS OBTENUS AINSI

Publication  
**EP 1907152 A1 20080409 (EN)**

Application  
**EP 05769243 A 20050705**

Priority  
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Abstract (en)  
[origin: WO2007004241A1] A plant and a process are disclosed for producing components made of an aluminium alloy for vehicles and white goods, through the steps of: providing thixotropic billets made of an aluminium alloy; obtaining crop ends of material by sizing the billets; heating the crop ends in a range of temperatures during which both solid phase and liquid phase coexist with a prevalence in the solid phase (more than 50%) in heating furnaces (5); loading the heated crop ends in a die-casting machine (11) for products of the "Semi Solid Material" type; forming a molding with the die casting machine (11); extracting the molding; depositing the molding onto a conveyor belt (15); and controlling a quality of the obtained molding, sending then it to mechanical workings and/or an heat treatment; alternatively, previously cooling the molding in a tank (16); and depositing the cooled molding on a shearing die for shearing feedheads and/or risers.

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