

Title (en)  
HOT EXTRUSION-MOLDING METHOD FOR NI-BASED SUPER HEAT-RESISTANT ALLOY AND PRODUCTION METHOD FOR NI-BASED SUPER HEAT-RESISTANT ALLOY EXTRUSION MATERIAL

Title (de)  
WARMSTRANGPRESSVERFAHREN FÜR EINE SUPERWÄRMEBESTÄNDIGE LEGIERUNG AUF NI-BASIS UND HERSTELLUNGSVERFAHREN FÜR SUPERWÄRMEBESTÄNDIGES STRANGPRESSLEGIERUNGSMATERIAL AUF NI-BASIS

Title (fr)  
PROCÉDÉ DE MOULAGE PAR EXTRUSION À CHAUD POUR ALLIAGE À BASE DE NI TRÈS RÉSISTANT À LA CHALEUR ET PROCÉDÉ DE PRODUCTION D'UN MATÉRIAU D'EXTRUSION D'ALLIAGE À BASE DE NI TRÈS RÉSISTANT À LA CHALEUR

Publication  
**EP 3520916 A1 20190807 (EN)**

Application  
**EP 17855498 A 20170823**

Priority  
• JP 2016190801 A 20160929  
• JP 2017030079 W 20170823

Abstract (en)  
Provided are: a hot extrusion-molding method for a precipitation strengthened-type Ni-based super heat-resistant alloy; and a production method for a Ni-based super heat-resistant alloy extrusion material. The hot extrusion-molding method is for a Ni-based super heat-resistant alloy, wherein: a billet has a component composition for a precipitation strengthened-type Ni-based super heat-resistant alloy which has a gamma prime phase equilibrium precipitation amount of 40 mol% or more at 700 °C; a lubrication glass pad is installed between a die and the billet; and an adjustment is made such that the relationship between the outer diameter DB (mm) of the billet at the time of being inserted in a container and the inner diameter DC (mm) of the container satisfies the condition, (DC-DB): 2-8 mm, or an adjustment is made such that the relationship between the outer diameter DB' (mm) of the billet prior to being heated to a hot processing temperature and the inner diameter DC' (mm) of the container prior to being heated to a preheating temperature satisfies the condition, (DC'-DB'): 3-9 mm. The production method for a Ni-based super heat-resistant alloy extrusion material is performed using the hot extrusion-molding method mentioned above.

IPC 8 full level  
**B21C 23/00** (2006.01); **B21C 23/32** (2006.01); **C22C 19/05** (2006.01); **C22F 1/00** (2006.01); **C22F 1/10** (2006.01)

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