

Title (en)

HIGH STRENGTH, HIGH TOUGHNESS STEEL WIRE ROD, AND METHOD FOR MANUFACTURING SAME

Title (de)

HOCHFESTER STAHLWALZDRAHT MIT HOHER ZÄHIGKEIT SOWIE HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

FIL MACHINE EN ACIER DE RÉSISTANCE ET DE SOLIDITÉ ÉLEVÉES, ET SON PROCÉDÉ DE FABRICATION

Publication

**EP 2423344 B1 20151104 (EN)**

Application

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Abstract (en)

[origin: EP2423344A2] Provided are a high-strength, high-toughness steel wire rod and a method of manufacturing the same. The steel wire rod of the present invention has a composition including 0.07 wt% to 0.14 wt% of aluminum (Al) and nitrogen (N) wherein Al:N (where Al and N denote wt% of each element) is in a range of 15:1 to 25:1. Since a steel wire rod having sufficient strength and toughness improvement effects can be obtained with a simple alloy component, a steel wire rod capable of allowing processing such as cold forging to be performed without an additional heat treatment may be provided.

IPC 8 full level

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