

Title (en)

Use of a sulfate and a process for the production of a steel component by forming in a machine

Title (de)

Verwendung eines Sulfats sowie Verfahren zum Herstellen eines Stahlbauteils durch Umformen in einer Umformmaschine

Title (fr)

Utilisation d'un sulfate et procede pour la production d'un élément en acier par formage dans une machine de formage

Publication

**EP 2995674 B1 20200715 (DE)**

Application

**EP 14184415 A 20140911**

Priority

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Abstract (en)

[origin: CA2958500A1] The invention relates to the use of a sulphate from the group including aluminium sulphate, ammonium sulphate, iron sulphate, magnesium sulphate, as a coating means which both permits optimum tribological conditions when forming flat steel products with a minimum lubricant requirement, and is non-hazardous in terms of the effect on the environment. Using this coating means, a steel component can be produced by forming a flat steel product in a forming machine, via the following steps: providing a flat steel product; forming a tribologically effective layer on at least one of the surfaces, contacting during the forming process, of the flat steel product or of the forming machine designed for forming, by coating using a coating means from the group including aluminium sulphate, ammonium sulphate, iron sulphate, magnesium sulphate; introducing the flat steel product into the forming tool; and forming the flat steel product introduced into the forming machine into the component.

IPC 8 full level

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CPC (source: CN EP KR US)

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Cited by

DE102018209737A1; US11078573B2; WO2021074388A1; WO2018215236A1; WO2017125131A1

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