

Title (en)  
METHOD FOR PRODUCING STEEL COMPOSITE MATERIALS

Title (de)  
VERFAHREN ZUM ERZEUGEN VON STAHLVERBUNDWERKSTOFFEN

Title (fr)  
PROCÉDÉ DE PRODUCTION DE MATÉRIAUX COMPOSITES À BASE D'ACIER

Publication  
**EP 3625049 A1 20200325 (DE)**

Application  
**EP 18730228 A 20180517**

Priority

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Abstract (en)  
[origin: WO2018211039A1] The invention relates to a method for producing a steel composite, according to which at least two steel sheets consisting of different steel stocks are placed one on top of the other and hot-rolled together and subsequently optionally cold-rolled. Following the rolling, the composite material produced thereby, consisting of at least two layers with different steel compositions, is diffusion-annealed, the annealing temperature being controlled such that the chemical potential of the steel materials is selected such that the following equation is true:  $\mu_C$ , material 1 >  $\mu_C$ , material 2, material 1 having a lower carbon content than material 2, such that a carbon uphill diffusion takes place between material 1 and material 2.

IPC 8 full level  
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Citation (search report)  
See references of WO 2018211039A1

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DOCDB simple family (publication)  
**DE 102017110851 B3 20180802**; EP 3625049 A1 20200325; US 11801663 B2 20231031; US 2020094524 A1 20200326; WO 2018211039 A1 20181122

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