

Title (en)  
A NEW BAINITIC STEEL

Title (de)  
BAINITISCHER STAHL

Title (fr)  
NOUVEL ACIER BAINITIQUE

Publication  
**EP 4146838 A1 20230315 (EN)**

Application  
**EP 21724278 A 20210506**

Priority  
• EP 20173354 A 20200506  
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Abstract (en)  
[origin: WO2021224423A1] The present disclosure relates to a new bainitic steel to be used for manufacturing a drill component, such as a drill rod, or in any other components wherein such steels are useful. The present disclosure further relates to a drill component comprising the bainitic steel. The bainitic steel comprises the following composition in weight %: C 0.33 to 0.40; Si 0.60 to 1.45; Mn 0.25 to  $\leq$  0.80; P  $\leq$  0.03; S  $\leq$  0.03; Cr 1.00 to 1.50; Ni 0.10 to 0.60; Mo 0.40 to 0.80; N  $\leq$  0.020; Al  $\leq$  0.05; balance Fe and unavoidable impurities.

IPC 8 full level  
**C22C 38/44** (2006.01); **C21D 6/00** (2006.01); **C21D 8/06** (2006.01); **C21D 9/22** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/42** (2006.01); **C22C 38/52** (2006.01); **E21B 17/00** (2006.01)

CPC (source: EP)  
**C21D 6/00** (2013.01); **C21D 6/004** (2013.01); **C21D 8/06** (2013.01); **C21D 8/065** (2013.01); **C21D 9/22** (2013.01); **C22C 38/00** (2013.01); **C22C 38/001** (2013.01); **C22C 38/02** (2013.01); **C22C 38/04** (2013.01); **C22C 38/06** (2013.01); **C22C 38/42** (2013.01); **C22C 38/44** (2013.01); **C22C 38/52** (2013.01)

Citation (search report)  
See references of WO 2021224423A1

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KH MA MD TN

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