

Title (en)

Knife with bolster obtained by upset forging

Title (de)

Messer mit stauchgeschmiedetem Messerkropf

Title (fr)

Couteau à mitre obtenu par refoulage-forgeage

Publication

EP 1688224 A1 20060809 (DE)

Application

EP 06001783 A 20060128

Priority

DE 102005005640 A 20050205

Abstract (en)

The knife with an upset-forged finger guard (18) has the blade (22), the finger guard and the handle (24) constructed in one piece. The knife has several material layers, and this in the form of multi-layered steel. At least one layer has a high hardness which is 54 to 70 HRC, and preferably in the region of 66 HRC. The hardened layer may be hardened steel with a carbon portion of between 0.5 and 2 per cent. The material layer with a higher hardness is installed centrally in a core region. An independent claim is included for a method for the manufacture of a knife with a finger guard which is formed by an upset-forging stage.

IPC 8 full level

B26B 3/00 (2006.01); **B21J 5/08** (2006.01); **B21K 11/02** (2006.01)

CPC (source: EP KR US)

B21J 5/08 (2013.01 - EP KR US); **B21K 11/02** (2013.01 - EP KR US); **B26B 3/00** (2013.01 - EP KR US)

Citation (applicant)

- US 689046 A 19011217 - GOLD WILLIAM A [US]
- FR 694520 A 19301204
- EP 0429035 A2 19910529 - HENCKELS ZWILLINGSWERK AG [DE]

Citation (search report)

- [X] GB 692042 A 19530527 - BERNARD MARK MILLER
- [X] GB 603868 A 19480624 - FRANCIS BROTHERS DROP FORGERS, et al
- [X] FR 2612432 A1 19880923 - BOURNILHAS AGNES [FR]
- [A] US 4399611 A 19830823 - MARINGER THOMAS E [US]
- [A] GB 628476 A 19490830 - SUPERIOR STEEL CORP
- [A] GB 380336 A 19320915 - WILLIAM EDWARD EVANS

Cited by

DE102008058125A1; CN106891135A; DE102006042658A1; EP2226135A1; DE102010046972A1; WO2008031475A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 1688224 A1 20060809; EP 1688224 B1 20080227; EP 1688224 B2 20131127; CN 101080307 A 20071128; CN 101080307 B 20101013;
DE 102005005640 A1 20060914; DE 502006000365 D1 20080410; ES 2300070 T3 20080601; ES 2300070 T5 20140318;
JP 2008528298 A 20080731; JP 5009813 B2 20120822; KR 20070099514 A 20071009; US 2008092694 A1 20080424;
WO 2006081993 A1 20060810

DOCDB simple family (application)

EP 06001783 A 20060128; CN 200680001381 A 20060128; DE 102005005640 A 20050205; DE 502006000365 T 20060128;
EP 2006000743 W 20060128; ES 06001783 T 20060128; JP 2007553513 A 20060128; KR 20077000838 A 20070112; US 66157306 A 20060128