

Title (en)

Steel for the manufacture of divisible mechanical parts and parts made from this steel

Title (de)

Stahl für die Herstellung von teilbare Maschinenteile und Maschinenteile, hergestellt aus diesen Stahl

Title (fr)

Acier pour la fabrication de pièces de mécanique sécables et pièce obtenue

Publication

EP 0779375 A1 19970618 (FR)

Application

EP 96402534 A 19961126

Priority

FR 9514833 A 19951214

Abstract (en)

A steel alloy comprises by weight: 0.25-0.75% carbon, 0.2-1.5% silicon, 0.1-2% manganese, 0-1% each of nickel, chromium, molybdenum and copper, 0-0.2% vanadium, 0.02-0.35% sulphur, 0.04-0.2% phosphorous, 0-0.005% and, 0.005-0.02% nitrogen. The residue is iron plus possible impurities, with possibly<0.1% of at least one of lead, tellurium and selenium. The steel may have been treated with calcium. Also claimed is the use of such steel to make a mechanical component comprising at least two parts obtained by snapping a blank, and a component so made.

Abstract (fr)

Acier pour la fabrication d'une pièce de mécanique sécable dont la composition chimique comprend, en poids: 0,25% <= C <= 0,75%, 0,2% <= Si <= 1,5%, 0,1% <= Mn <= 2%, 0% <= Ni <= 1%, 0% <= Cr <= 1%, 0% <= Mo <= 1%, 0% <= Cu <= 1%, 0% <= V <= 0,2%, 0,02% <= S <= 0,35%, 0,04% <= P <= 0,2%, 0% <= Al <= 0,005%, 0,005% <= N <= 0,02%; éventuellement au moins un élément pris parmi le plomb, le tellure et le sélénium en des teneurs inférieures à 0,1%, le reste étant du fer et des impuretés résultant de l'élaboration, l'acier étant éventuellement traité au calcium. Utilisation de l'acier pour la fabrication d'une pièce sécable et pièce obtenue.

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IPC 8 full level

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CPC (source: EP KR US)

C22C 38/04 (2013.01 - KR); **C22C 38/42** (2013.01 - KR); **C22C 38/60** (2013.01 - EP US)

Citation (applicant)

US 5135587 A 19920804 - OLANIRAN MOSES A [US], et al

Citation (search report)

- [AD] US 5135587 A 19920804 - OLANIRAN MOSES A [US], et al
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