

Title (en)
CHANGEABLE JAW-PROTECTING HELMET

Title (de)
SICHERHEITSHELM MIT AUSTAUSCHBARER KINNSCHUTZSTRUKTUR

Title (fr)
CASQUE MODIFIABLE À PROTÈGE-MÂCHOIRE

Publication
EP 2478785 A4 20130327 (EN)

Application
EP 11824289 A 20110621

Priority
• CN 201010538198 A 20101110
• CN 2011076064 W 20110621

Abstract (en)
[origin: EP2478785A1] The present invention pertains to the technical field of safety helmet, and more particularly relates to a safety helmet with changeable chin-guard structure, comprising a helmet body, a chin-guard with two holders, and two mounting plates symmetrically arranged on the two opposite sides of the helmet body, wherein the mounting plates and the helmet body are fixedly connected, or formed in one piece, the safety helmet is characterized in that each mounting plate is provided with two grooved tracks and cooperates with two movable nails, wherein one end of each moving nail is penetrated into the corresponding track of the mounting plate, and each holder is connected with two moving nails, driven by the chin-guard via the holders, each moving nail is moveable along the corresponding guide-track groove; constrained by the moving nails and the grooved tracks, the position of the chin-guard is changeable. In comparison with the existing technology, the present invention no longer requires the sliding grooves arranged on the chin-guard, thus the bending strength of the chin-guard is enhanced so that the rupture strength of the holders is enhanced, in addition, abandoning the sliding grooves on the holders can effectively eliminate the hidden problems associated with stress concentration, the strength of the chin-guard is thus further enhanced.

IPC 8 full level
A42B 3/32 (2006.01)

CPC (source: EP)
A42B 3/326 (2013.01)

Citation (search report)
• [AD] WO 2006045912 A1 20060504 - SHARK SA [FR], et al
• [A] EP 0395845 A1 19901107 - AGV SPA [IT]
• [A] US 2008196148 A1 20080821 - MORIN CLAUDE [FR]
• See references of WO 2012062114A1

Cited by
FR3143278A1; GB2518723A; AU2020381441B2; EP3278684A4; ES2878249R1; EP4011232A1; WO2016037845A1; US11903438B2; US11696613B2

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