

The following are the patents claims that I'm applying for.

- 1) Structure, standard size a) shell a1) manufactured with material that is sturdy, durable and impact absorbent, a2) coating of surface is brightly coloured, shiny, dirt and peel resistant a3) shell remain intact without cracking during test, a4) protective function of shell shall not be compromised after the removable parts are dismantled and shall not pierce the head and neck, a5) exposed height of visor joints < 7, a6) exposed height of belt and other joints < 3, 7) radius of vents on the shell < 13, a7) joints shall not have rough edges, a8) edge shall be padded with a soft material to prevent hurting the head and neck directly, a9) shall cover the head including earmuffs. b) buffered layer, b1) manufactured with impact absorbent, poison-free and harmless material, b2) shape and standard size shall be fitting and not moving when worn, b3) shall cover the protection zone of the head (the earmuffs can be regarded as part of the buffered layer). c) comfortable padding, c1) manufactured with durable material that is comfortable to the touch, perspiration absorbent, air permeable and harmless to skin, c2) adhesive agent used to stick the comfortable padding (including the label) and buffered layer together shall not be poisonous or corrosive, neither can they be sewn together, c3) assure that the helmet is comfortable when worn. d) standard size, d1) small: 540mm~560mm, d2) medium: 560mm~580mm, d3) large: 580mm~600~, d4) sample in medium size. Protection range, a1) shall cover the head. Mass (kg), a1) mass of the entire helmet (including the accessories) < 1.60. visual field, a1) left visual field > 105, a2) upper visual field > 7, a3) right visual field > 105, a4) lower visual field > 30. Visor, a1) visor shall not be pieced or broken into pieces after the impact test, a2) light transmission rate of the visor shall exceed 85. Strength of wearing device (mm), a1) consist of belt, fastener, and joint, structure shall be sturdy and east to disengage, a2) extensibility of belt < 25, a3) belt shall not tear, joints shall not separate and fasteners shall not loosen. Impact absorbency, a1) acceleration peak value < 300g, reaction time when acceleration exceeds 150g < 4ms. Anti penetration, a1) iron drill shall not penetrate the helmet to come into contact with the head.



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