

Title (en)
RECIPROCATING IMPACT BEVEL DISCHARGING SHOVEL OF RECIPROCATING IMPACT MINING MACHINE

Title (de)
ENTLADUNGSSCHAUFEL MIT HIN- UND HERGEHENDEM SCHLAGKEGEL FÜR HIN- UND HERGEHENDE SCHLAGBERGBAUMASCHINE

Title (fr)
PELLE DE DÉCHARGE DE BISEAU À PERCUSSION ALTERNATIVE D'UNE MACHINE D'EXPLOITATION MINIÈRE À PERCUSSION ALTERNATIVE

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Abstract (en)
Disclosed is a reciprocating impact bevel tooth discharging shovel of a reciprocating impact mining machine, which includes a reciprocating impact box and a reciprocating impact bevel tooth discharging shovel (1). The reciprocating impact box includes a reciprocating impact box body (3), a reciprocating impact power element, and a reciprocating impact guide element (2). The reciprocating impact power element is provided in the reciprocating impact box body (3), and is supported by the reciprocating impact box body (3) to drive the reciprocating impact guide element (2). One end or both ends of the reciprocating impact guide element (2) extend out of the reciprocating impact box body (3). The reciprocating impact bevel tooth discharging shovel (1) includes a main tooth seat (5), main impact teeth (4), a lateral discharging tooth wing plate (6), and lateral discharging bevel teeth (7). The main tooth seat (5) is provided at an end portion of the reciprocating impact guide element (2) extending out of the reciprocating impact box body (3). The main impact teeth (4) are provided at a top of the main tooth seat (5). A thickness of the lateral discharging tooth wing plate (6) is less than that of the main tooth seat (5) to reduce the height of a discharging surface of the reciprocating impact bevel tooth discharging shovel (1). The lateral discharging bevel teeth (7) are alternately or symmetrically provided or sequentially provided on the lateral discharging tooth wing plate (6). Tops of the lateral discharging bevel teeth (7) extend beyond a plane of one side of the lateral discharging tooth wing plate (6), so that impacted materials are discharged from a gap which is formed by the lateral discharging bevel teeth (7) towering over the lateral discharging tooth wing plate (6), which reduces resistance of the materials to the reciprocating impact bevel tooth discharging shovel (1).

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