

Title (en)

ROLLING FRICTION OR SUSPENSION FRICTION IMPACT MINING METHOD AND WEAR-RESISTANT IMPACT MINING MACHINE USING SAID METHOD

Title (de)

PRALLABBAUVERFAHREN MIT ROLLREIBUNG ODER SUSPENSIONSREIBUNG UND VERSCHLEISSFESTE PRALLABBAUMASCHINE UNTER VERWENDUNG EINES SOLCHEN VERFAHRENS

Title (fr)

PROCÉDÉ D'EXPLOITATION MINIÈRE À PERCUSSION À FROTTEMENT DE ROULEMENT OU À FROTTEMENT EN SUSPENSION, ET MACHINE D'EXPLOITATION MINIÈRE À PERCUSSION RÉISTANT À L'USURE UTILISANT LEDIT PROCÉDÉ

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Abstract (en)

A rolling friction or suspension friction impact mining method and a wear-resistant impact mining machine using said method. The mining machine comprises a reciprocating impact part (3). The reciprocating impact part comprises an impact drive device (4), a rolling reciprocating device, and an impact head (6). The rolling reciprocating device comprises a rubbing body (38), a rubbing body support (39), an impact guiding element (5.1), and a position-limiting mechanism. The rubbing body (5.3) are disposed between the rubbing body support (39) and the impact guiding element (5.1), and inside of the position-limiting mechanism to form rolling guiding. The impact drive device is disposed with a damage-prevention mechanism, a rotary power buffer device, and a structural buffer device, such that the impact head reciprocatingly move and have rolling or suspending friction under the support of the impact guiding element, thereby preventing the damage-prevention force to damage a power drive device and a rolling channel guiding device, and preventing the impact vibration caused by the reciprocating impact part to affect the machine body and other parts. The overall stability is therefore enhanced, and the service life is extended

IPC 8 full level

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