Title (en)

HIGH-EFFICIENCY MINING METHOD FOR PERCUSSING FALLING-MATERIALS WITHOUT TRAPPING MATERIALS AND HIGH-EFFICIENCY MINING MACHINE FOR PERCUSSING FALLING-MATERIALS WITHOUT TRAPPING MATERIALS

Title (de)

HOCHEFFIZIENTES ERSCHLIESSUNGSVERFAHREN ZUM SCHLAGEN FALLENDER MATERIALIEN OHNE AUFFANGEN DIESER MATERIALIEN UND HOCHEFFIZIENTE MISCHMASCHINE ZUM SCHLAGEN FALLENDER MATERIALIEN OHNE AUFFANGEN DIESER MATERIALIEN

Title (fr)

PROCÉDÉ D'EXPLOITATION MINIÈRE À HAUT RENDEMENT DESTINÉ À PERCUTER DES MATÉRIAUX TOMBANTS SANS PIÉGER LES MATÉRIAUX ET MACHINE D'EXPLOITATION MINIÈRE À HAUT RENDEMENT DESTINÉE À PERCUTER DES MATÉRIAUX TOMBANTS SANS PIÉGER LES MATÉRIAUX

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- CN 201210290379 A 20120813
- CN 201210293169 A 20120813
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- CN 201210293253 A 20120813
- CN 201210297164 A 20120813
- CN 201210347294 A 20120910
- CN 201210346367 A 20120911
- CN 201210378528 A 20120911
- CN 201210454531 A 20121107
- CN 201210454001 A 20121107
- CN 201210454125 A 20121107
- CN 201210596479 A 20121228
- CN 201310020905 A 20130106
- CN 201310058073 A 20130222
- CN 201310058074 A 20130222
- CN 201310058117 A 20130222
- CN 201310058118 A 20130222
- CN 201310058119 A 20130222
- CN 201310058064 A 20130222
- CN 201310058138 A 20130222
- CN 201310058084 A 20130222
- CN 201310058071 A 20130222
- CN 201310100163 A 20130313
- CN 201310118683 A 20130323
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Abstract (en)

A high-efficiency mining machine for percussing falling-materials without trapping materials. A machine body of the mining machine is provided with a falling-material percussion mechanism (3). The falling-material percussion mechanism (3) comprises an outer-layer-material percussion mechanism (4) and an inner-layer-material percussion mechanism (5). The outer-layer-material percussion mechanism (4) comprises outer-layer-material percussion teeth (4.1). The outer-layer-material percussion teeth are disposed so that materials percussed down by the inner-layer-material percussion mechanism flow out through gaps between the outer-layer-material percussion teeth and/or a discharge hole (8) is reserved in the outer-layer-material percussion mechanism so that materials percussed down by the inner-layer-material percussion mechanism flow out through the discharge hole (8) of the outer-layer-material percussion mechanism. The inner-layer-material percussion mechanism comprises inner-layer-material percussion teeth (5.1). The inner-layer-material percussion mechanism and the outer-layer-material percussion mechanism work with each other to implement percussion and discharge of falling-materials. Also disclosed is a high-efficiency mining method for percussing falling-materials without trapping materials. The mining machine has a simple structure and works in a reliable way.

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