

Title (en)
ROLLER DRILL OR ROLLER BIT

Title (de)
ROLLENBOHRWERKZEUG ODER ROLLENMEISSEL

Title (fr)
TRÉPAN À MOLETTES

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Application
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Abstract (en)
[origin: WO2009036781A1] The invention relates to a roller drill for removing material, especially rocks, minerals, or the like, according to the undercutting principle. Said roller drill comprises a cutting edge (12) that is concentric to a central axis M and conically widens towards the face (11) of the roller drill (10), and a supporting element (15) which is arranged on the internal face of the cutting edge (12) and extends to the face (11) of the tool. In order to design a roller drill or a roller bit, the down time of which is shorter or the useful life of which is longer than in prior art, the cutting edge (12) is made of a harder material than the supporting element (15), and the supporting element (15) forms an annular web (22) which is conical at least on an external circumferential wall (20) and delimits a free space (21) on the face (11) of the drill/bit by means of the internal circumferential wall (23) thereof. The drill/bit can be autonomously resharpened as a result of the free space and the different material combination.

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