

Title (en)

Method and apparatus for sawing stones and marble.

Title (de)

Verfahren und Vorrichtung zum Sägen von Steinen und Marmor.

Title (fr)

Procédé et dispositif pour le sciage de pierres et marbres.

Publication

**EP 0028418 A1 19810513 (FR)**

Application

**EP 80106772 A 19801104**

Priority

FR 7927255 A 19791105

Abstract (en)

1. A method for sawing stone or similar material using a chain saw comprising cutting inserts (5a-5f) of tungsten carbide each fixed by mechanical clamping (6a-6f, 7) in a housing or receptacle with a corresponding cross-section so enabling the insert to be rotated, after being unclamped, through a suitable angle for evening out the wear, characterized in that the chain comprises successive sequences of links each formed by a large number of links (1a, 2, 1b, 2 ... 1f, 2), with the geometrical axes (8a-8f) of these inserts, and therefore of their respective housing, being so positioned as to meet the axis of the chain (9) at a constant distance from the corresponding insert, with each of these axes being angularly offset with respect to the axis of the preceding link by a constant amount round the chain axis, the cutting face or the inserts being coated with synthetic diamond reconstituted in situ by a known method and the inserts being positioned to have a negative cutting angle of 3 to 6 degrees, these inserts having a cylindrical shape of revolution or a polygonal prismatic shape with multiple symmetry.

Abstract (fr)

Sciage de pierres ou similaire à l'aide d'une scie à chaîne comportant des plaquettes de coupe rapportées. On utilise comme plaquettes de coupe des plaquettes de carbure de tungstène dont la face de coupe est revêtue de diamant synthétique reconstitué sur place selon un procédé connu, ces plaquettes étant disposées pour avoir un angle de coupe négatif de 3 à 6° et la chaîne étant entraînée à une vitesse linéaire de 1,60 à 3 m/s.

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**B28D 1/12**

IPC 8 full level

**B28D 1/08** (2006.01); **B28D 1/12** (2006.01)

CPC (source: EP)

**B28D 1/125** (2013.01)

Citation (search report)

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