

Title (en)

SPLITTING DEVICE, IN PARTICULAR TO ASSIST IN THE EXCAVATION OF STONE BLOCKS AND PROCEDURE FOR THE EXCAVATION OF STONE BLOCKS

Title (de)

SPREIZVORRICHTUNG, INSBESONDERE ZUR UNTERSTÜTZUNG BEIM ABBAU VON STEINBLÖCKEN UND VERFAHREN ZUM ABBAU VON STEINBLÖCKEN

Title (fr)

DISPOSITIF D'ÉCARTEMENT, EN PARTICULIER POUR AIDER À L'EXCAVATION DE BLOCS DE PIERRE ET PROCÉDURE POUR L'EXCAVATION DE BLOCS DE PIERRE

Publication

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Application

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Priority

IT 201900024727 A 20191219

Abstract (en)

[origin: EP3838532A1] Described is a splitting device (10) to assist in the excavation of stone blocks, which comprises one or more valves (11) connectable through hydraulic conduits to as many splitting cushions (1), said valves (11) being connected, by means of a conduit (19) provided with a shut-off valve (20), with an inlet (17) of said device (10) of water coming from a hydraulic pump and with the lateral inlet (13) of a Venturi tube (14), which is in turn connected, by means of an inlet (15) of the Venturi tube (14), with said inlet (17) of the device (10) and, by means of an outlet (16) of the Venturi tube (14), with an outlet valve (18) of said device (10). The invention also relates to a method for the excavation of stone blocks, comprising the following steps:- inserting one or more splitting cushions (1) inside an opening generated, between a mountain (A) and a bank (B), by cutting the bank (B);- inflating said splitting cushions (1) with water, with consequent enlargement of said opening, moving the top of the bank (B) away from the mountain (A);- propping the bank (B);- deflating said one or more splitting cushions (1) and consequent lowering of said splitting cushions (1) into said opening; the steps of inflating, propping and deflating being repeated until a desired width of said opening is reached.

IPC 8 full level

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