

Title (en)
Stone sawing machine.

Title (de)
Steinsägemaschine.

Title (fr)
Machine pour le sciage des pierres.

Publication
EP 0539635 A1 19930505 (EN)

Application
EP 91310072 A 19911031

Priority
PT 9302590 A 19900201

Abstract (en)
The present invention concerns an alternative machine for cutting stone blocks with a laminated diamond tool, in which the cutting is done vertically during the descendent stroke, the inverse stroke movement being passive for the cutting. Besides, the support structure of the diamond blades is compensated statically by another structure having the same mass which can be passive or active to cut if it bears or not a diamond tool and which describes a parallel movement to the first one but with a phase difference of half cycle. The present machine is useful to cut ornamental stones.

IPC 1-7
B27B 3/12; **B28D 1/06**; **B28D 1/12**

IPC 8 full level
B27B 3/12 (2006.01); **B28D 1/06** (2006.01)

CPC (source: EP)
B27B 3/12 (2013.01); **B28D 1/066** (2013.01); **B28D 1/068** (2013.01)

Citation (search report)

- [E] PT 93025 A 19911112
- [Y] DE 3004662 A1 19810813 - BEITZER HANS WERNER DIPL PHYS
- [Y] WO 8604295 A1 19860731 - B M S N C OFF [IT]
- [A] US 1725495 A 19290820 - WELLINGTON VOGLER CRAWFORD
- [A] PATENT ABSTRACTS OF JAPAN, vol. 13, no. 76 (M-800), 21st February 1989; & JP-A-63 274 508 (NOMURA SEISAKUSHO K.K.) 11-11-1988
- [A] SOVIET INVENTIONS ILLUSTRATED, section PQ, week 8832, 21st September 1988, class P64, AN=88-226370/32, Derwent Publications Ltd, London, GB; & SU-A-1368 184 (V.P. KOTOV) 23-01-1988

Cited by
ES2179718A1; DE19747651A1

Designated contracting state (EPC)
BE DE ES FR GB GR IT

DOCDB simple family (publication)
EP 0539635 A1 19930505; BR 9003763 A 19911112; PT 93025 A 19911112

DOCDB simple family (application)
EP 91310072 A 19911031; BR 9003763 A 19900801; PT 9302590 A 19900201