

Title (en)  
VIBRATION ISOLATOR FOR HAND-HELD VIBRATING DEVICES

Title (de)  
SCHWINGUNGABSORBER FÜR HANDVIBRATIONSAPPARATE

Title (fr)  
ISOLATEUR DE VIBRATIONS POUR DISPOSITIFS VIBRANTS TENUS EN MAIN

Publication  
**EP 0680399 B1 20001115 (EN)**

Application  
**EP 94905414 A 19931216**

Priority  
• US 9312271 W 19931216  
• US 969393 A 19930127

Abstract (en)  
[origin: WO9416864A1] An isolator is used in a hand-held vibrating device (10) for providing optimum vibration isolation by utilizing buckling elastomer sections (44A) which operate in a buckled mode during normal use. The buckled elastomer sections (44A) significantly reduce the spring rate within an operating load range thus substantially reducing the vibration transmitted to the user. Six embodiments are shown which utilize buckling sections to enhance vibration isolation along an axial direction of vibration. A first embodiment includes a frusto-conical section (20A). A first embodiment of a front grip isolator (30A) that is used with the buckling isolator (20A) for reducing the radial mechanical vibration transmitted to the front hand of the user, also utilizing buckling sections, is also taught.

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Cited by  
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