

Title (en)  
VIBRATION NIPPER FOR HEAVY MACHINERY

Title (de)  
VIBRATIONSGREIFER FÜR SCHWERES GERÄT

Title (fr)  
PINCE À VIBRATIONS POUR MATÉRIEL LOURD

Publication  
**EP 2562311 A2 20130227 (EN)**

Application  
**EP 11772202 A 20110419**

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Abstract (en)  
There is provided a vibrating nipper including a vibrating body in which a plurality of gears built therein and having eccentric pendulums are longitudinally arranged and rotated to generate longitudinal vibration, the vibrating body in which the gears rotated by an oil hydrolytic motor are longitudinally arranged to be rotatable, an eccentric pendulum mounted on each of the gears to generate the longitudinal vibration while rotating the gears, wherein a nipper blade is longitudinally mounted on a bottom of the vibrating body in such a way that the vibrating body is capable of being inserted deeply into the ground along the nipper blade when excavating the ground. According to the present invention, it is possible to manufacture the vibrating body whose width is relatively narrower than general ones, thereby manufacturing the breadth of a frame to be narrow in such a way that the vibrating body may be deeply inserted into the ground along the nipper blade while the nipper blade is inserted into the ground, thereby allowing the depth of excavation to be increased and improving excavation performance. In addition, though the nipper blade receives lateral excavation-resistance force from the ground when excavating the ground, since the nipper blade and the vibrating body are connected to the frame in a longitudinally displaceable link structure to improve a lateral supporting structure of the nipper blade, the nipper blade may freely operate, buffers supporting the vibrating body are protected and not damaged, and durability thereof is greatly improved.

IPC 8 full level  
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Cited by  
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