

Title (en)
Vibrating tamper

Title (de)
Vibrationsstampfer

Title (fr)
Dispositif de bourrage par vibrations

Publication
EP 0857828 B1 20011205 (DE)

Application
EP 98101033 A 19980122

Priority
DE 19704495 A 19970207

Abstract (en)
[origin: EP0857828A1] The appliance has an integral drive (3) and a guide bracket (6) with a grip end for an operator. Mass distribution of the bracket results in vibration reduction at the bracket grip end (9). Bracket geometry and mass distribution are satisfied according to:- H_s divided by $ms(lhg \times lh - lv \times lv) = 0.8 - 1.3$ ms = mass of the guide bracket; H_s = mass moment of inertia of the bracket about an axis through the centre of gravity (10) of the bracket, which is parallel to an axis through the hinge points (8); lh = distance at right angles to tamper axis (A), between centre of gravity and axis through hinge points; lhg = distance at right angles to tamper axis, between grip end and centre of gravity; lv = distance parallel to the tamper axis, between centre of gravity and axis through hinge points. The ratio for weight distribution is approx. between 0.9 and 1.3, esp. between 1.0 and 1.15. For this purpose, the bracket has a weight.

IPC 1-7
E02D 3/061; **E01C 19/35**; **B06B 1/14**

IPC 8 full level
E01C 19/34 (2006.01); **B06B 1/14** (2006.01); **E01C 19/35** (2006.01); **E02D 3/061** (2006.01)

CPC (source: EP US)
B06B 1/14 (2013.01 - EP US); **E01C 19/35** (2013.01 - EP US); **E02D 3/061** (2013.01 - EP US)

Cited by
CN108487224A; EP1039035A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB IE IT LI NL PT SE

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EP 0857828 A1 19980812; **EP 0857828 B1 20011205**; AT E210227 T1 20011215; AU 5299498 A 19980813; AU 722562 B2 20000803; BR 9800528 A 19990706; CA 2228924 A1 19980807; CA 2228924 C 20071204; DE 19704495 A1 19980813; DE 59802279 D1 20020117; DK 0857828 T3 20020304; ES 2168692 T3 20020616; JP H10219615 A 19980818; PT 857828 E 20020531; US 6019179 A 20000201; ZA 98944 B 19980811

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