

Title (en)  
Bucket for crushing and screening rubble or stones

Title (de)  
Schaufel zum Zerkleinern und zum Sieben von Bauschutt oder Steinen

Title (fr)  
Godet pour le broyage et le criblage de gravats ou de pierres

Publication  
**EP 1138834 A3 20020925 (EN)**

Application  
**EP 01106464 A 20010323**

Priority  
IT PD20000069 A 20000328

Abstract (en)  
[origin: EP1138834A2] A bucket (10), particularly for crushing and screening rubble or similar stony material, comprising a box-like structure (11) which can be articulated to movement arms of self-propelled vehicles and is open at a first side (12), which is arranged frontally with respect to the advancement direction when picking up the rubble, and at a second side (13), being aligned with the first side, for the exit of the crushed and screened rubble. A crushing and screening unit (14) is supported inside the box-like (11) structure and comprises a movable crushing plate (15) being pivoted to a region which is arranged at the first side (12) and is free to oscillate under the control of actuation/vibration means (16), the plate forming, together with a wall (17) of the structure (11) which lies opposite thereto, a hopper whose output section can be adjusted, at the second side, so as to allow the screening of the rubble while it is being crushed, motor means (18) being provided which are suitable to drive the actuation/vibration means (16), the arms being suitable to change the box-like structure from a configuration for picking up the rubble, in which the first side is arranged frontally with respect to the advancement direction, to a crushing/screening configuration, in which the first and second sides (12,13) are arranged vertically, the second side (13) being arranged below so as to allow the rubble being crushed to fall by gravity, and vice versa. <IMAGE>

IPC 1-7  
**E02F 3/40**; B02C 1/04; E01C 19/05

IPC 8 full level  
**E02F 3/40** (2006.01); **E02F 3/96** (2006.01)

CPC (source: EP)  
**E02F 3/405** (2013.01); **E02F 3/407** (2013.01); **E02F 3/965** (2013.01); **E02F 7/06** (2013.01)

Citation (search report)

- [X] WO 9845043 A1 19981015 - GRAHAM MINING LTD [CA], et al
- [XA] US 3959897 A 19760601 - MAY WILLIAM P
- [A] GB 438674 A 19351121 - KRUPP FRIED GRUSONWERK AG
- [A] WO 8904718 A1 19890601 - KUE KEN CORP [US]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 08 30 June 1999 (1999-06-30)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 05 31 May 1999 (1999-05-31)

Cited by  
RU2599520C2; CN100422450C; US6871807B2; US6915972B2; WO2004026479A1; WO2006072322A1; US7222807B2; EP3800295A1; WO2021064093A1; WO2004020747A1; WO2012089879A1; EP3073019A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1138834 A2 20011004**; **EP 1138834 A3 20020925**; HK 1042931 A1 20020830; IT 1317319 B1 20030616; IT PD20000069 A1 20010928

DOCDB simple family (application)  
**EP 01106464 A 20010323**; HK 02102561 A 20020404; IT PD20000069 A 20000328