

Title (en)  
VEHICLE FOR LOADING, EXCAVATING, TRANSPORTATION OVER SHORT DISTANCES AND FOR UNLOADING MATERIALS AT VARIABLE HEIGHTS

Publication  
**EP 0077308 A3 19840104 (FR)**

Application  
**EP 82830246 A 19821001**

Priority  
IT 6388181 A 19811009

Abstract (en)  
[origin: EP0077308A2] The bucket can be lifted from its work position, during which it is immediately above the front axle of the vehicle, as far as the maximum height while its inclination w.r.t. a horizontal axis remains unchanged. It can move forward and downward while its initial position w.r.t. a horizontal axis remains unchanged and can also tip forward by rotation w.r.t. a horizontal axis. The third movement is obtained by expansion of an hydraulic jack whose shaft (17a) is attached to the top edge of the bucket (1) and whose cylinder (17) is pivoted horizontally on a brace which comprises a pair of L-shaped arms (2).

IPC 1-7  
**E02F 3/74**; **E02F 3/82**

IPC 8 full level  
**E02F 3/28** (2006.01); **E02F 3/34** (2006.01)

CPC (source: EP)  
**E02F 3/3405** (2013.01); **E02F 3/3417** (2013.01)

Citation (search report)  
• [Y] US 2978124 A 19610404 - BERNOTAS RALPH J  
• [Y] US 3370729 A 19680227 - CLARKE FREDERICK J  
• [A] FR 2085197 A1 19711224 - POTAIN SA  
• [A] US 3913768 A 19751021 - GROOSS FRANK AUGUST, et al  
• [A] US 3722724 A 19730327 - BLAKELY R  
• [A] DE 2338426 A1 19750213 - FRISCH GMBH

Cited by  
DE3341614A1; GB2169576A; GB2169576B; US6755604B1; WO0031351A1

Designated contracting state (EPC)  
AT CH DE FR GB LI

DOCDB simple family (publication)  
**EP 0077308 A2 19830420**; **EP 0077308 A3 19840104**; **EP 0077308 B1 19870304**; AT E25722 T1 19870315; DE 3275569 D1 19870409; ES 516394 A0 19831001; ES 8308606 A1 19831001; IT 1145875 B 19861112; IT 8100638 A0 19811009

DOCDB simple family (application)  
**EP 82830246 A 19821001**; AT 82830246 T 19821001; DE 3275569 T 19821001; ES 516394 A 19821008; IT 6388181 A 19811009