

Title (en)
Excavator and machine for the transfer of material.

Title (de)
Bagger und Maschine zum Materialumschlag

Title (fr)
Excavatrice et machine pour le transfert de matériel.

Publication
EP 1614814 A3 20070502 (DE)

Application
EP 05014569 A 20050705

Priority
DE 102004032868 A 20040707

Abstract (en)
[origin: EP1614814A2] A bagger or machine for wrapping material comprises a boom or shaft (12) which is movable by one or more hydraulic cylinders (14) is also linked to one or more additional hydraulic cylinders (16) connected to one more hydraulic reservoirs (20). The additional hydraulic cylinders are connectable to the main hydraulic circuit via switchable valves (22, 24).

IPC 8 full level
E02F 9/22 (2006.01)

CPC (source: EP US)
E02F 9/2217 (2013.01 - EP US); **F15B 1/024** (2013.01 - EP US); **F15B 21/14** (2013.01 - EP US)

Citation (search report)

- [X] FR 2238811 A1 19750221 - POCLAIN SA [FR]
- [X] JP 2004116675 A 20040415 - KOMATSU MFG CO LTD
- [X] JP 2004125094 A 20040422 - KOMATSU MFG CO LTD
- [XA] WO 9833989 A1 19980806 - BRUUN LARS [SE]
- [X] JP 2004116676 A 20040415 - KOMATSU MFG CO LTD
- [XA] JP H04120324 A 19920421 - KOMATSU MFG CO LTD
- [XA] JP S60250128 A 19851210 - MITSUBISHI HEAVY IND LTD
- [A] JP H09310379 A 19971202 - CATERPILLAR MITSUBISHI LTD
- [A] JP H05163745 A 19930629 - KOMATSU MFG CO LTD
- [A] JP H0336333 A 19910218 - KOMATSU MFG CO LTD
- [A] WO 9311363 A1 19930610 - HYDAC TECHNOLOGY GMBH [DE]

Cited by
EP2952773A1; EP2690292A4; EP2148014A3; WO2012013253A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1614814 A2 20060111; EP 1614814 A3 20070502; DE 102004032868 A1 20060209; US 2006053666 A1 20060316;
US 2009071139 A1 20090319; US 7434391 B2 20081014

DOCDB simple family (application)
EP 05014569 A 20050705; DE 102004032868 A 20040707; US 17575305 A 20050706; US 23139008 A 20080902