

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)

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DOCDB simple family (application)

**EP 05014569 A 20050705**; DE 102004032868 A 20040707; US 17575305 A 20050706; US 23139008 A 20080902