

Title (en)
Work machine, in particular digger

Title (de)
Arbeitsmaschine, insbesondere Bagger

Title (fr)
Machine de travail, notamment machine d'excavation

Publication
EP 2338827 A3 20120104 (DE)

Application
EP 10015237 A 20101202

Priority
DE 202009017388 U 20091222

Abstract (en)
[origin: US2011150617A1] The present invention relates to a work machine, in particular to an excavator, having a boom, an extension element and a piece of working equipment, wherein the extension element is attached to a pivotal connection axle of the boom via a first gimbal mounting and bears the piece of working equipment, wherein the piece of working equipment is attached to a pivotal connection axle of the extension element via a second gimbal mounting.

IPC 8 full level
B66C 3/16 (2006.01); **E02F 3/413** (2006.01)

CPC (source: EP US)
E02F 3/301 (2013.01 - EP US); **E02F 3/3677** (2013.01 - EP US); **E02F 3/369** (2013.01 - EP US); **E02F 3/4136** (2013.01 - EP US);
E02F 9/2825 (2013.01 - EP US); **E02F 9/2858** (2013.01 - EP US)

Citation (search report)

- [XI] US 4315652 A 19820216 - BARWISE ROBERT D
- [XJ] DE 4428712 A1 19960229 - WEINMANN ALBERT [DE]
- [IJ] US 3726349 A 19730410 - HEUSLER H, et al
- [AJ] DE 2501780 A1 19760722 - LIEBHERR HYDRAULIKBAGGER
- [XJ] US 5437531 A 19950801 - KRESS EDWARD S [US]
- [XJ] DE 202008008397 U1 20090305 - EGERLAND MATTHIAS [DE]
- [AJ] DE 19632030 A1 19980212 - HILDEBRANDT FRITZ [DE]
- [AJ] DE 3142377 A1 19830505 - HILDEBRANDT GEB SEWERIN FRIEDA
- [AJ] US 3301587 A 19670131 - HEIKKINEN LEO L
- [AJ] EP 1655417 A2 20060510 - FIAT KOBELCO CONSTRUCTION MACH [IT]

Cited by
CN109208678A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 202009017388 U1 20110505; DE 102010053870 A1 20110630; EP 2338827 A2 20110629; EP 2338827 A3 20120104;
US 2011150617 A1 20110623; US 8578638 B2 20131112

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