

Title (en)
IMPACT TOOL

Title (de)
SCHLAGWERKZEUG

Title (fr)
OUTIL D'IMPACT

Publication
EP 2199031 A4 20111130 (EN)

Application
EP 08830366 A 20080912

Priority
• JP 2008066561 W 20080912
• JP 2007237990 A 20070913

Abstract (en)
[origin: EP2199031A1] An impact tool is provided which is improved in its structure for absorbing an impact force caused by rebound of a tool bit after its striking movement. The impact tool of this invention includes a tool body (103), a hammer actuating member (119, 145), a striking element (143), a weight part (163) to which a reaction force is transmitted from the hammer actuating member in a reaction force transmitting position when the hammer actuating member performs a hammering operation on the workpiece and which moves from the reaction force transmitting position in a direction different from the axial direction of the hammer actuating member by the transmitted reaction force, and an elastically deformable elastic element (165). The weight part (163) changes in its state between a first state in which the reaction force is not yet transmitted to the weight part and a second state in which the weight part is caused to move by the transmission of the reaction force in the direction different from the axial direction of the hammer actuating member. Further, the elastic element (165) exerts a biasing force such that the weight part (163) is placed in the first state, and when the weight part (163) changes from the first state to the second state by the reaction force, the elastic element (165) elastically deforms by being pushed by the weight part (163) and thereby absorbs the reaction force transmitted to the weight part (163).

IPC 8 full level
B25D 17/24 (2006.01)

CPC (source: EP)
B25D 17/06 (2013.01); **B25D 17/24** (2013.01); **B25D 2211/003** (2013.01); **B25D 2222/42** (2013.01); **B25D 2250/371** (2013.01)

Citation (search report)
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• [A] EP 1604785 A2 20051214 - HITACHI KOKI KK [JP]
• See references of WO 2009035090A1

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

DOCDB simple family (publication)
EP 2199031 A1 20100623; EP 2199031 A4 20111130; EP 2199031 B1 20130102; CN 101801611 A 20100811; CN 101801611 B 20120919; JP 2009066710 A 20090402; JP 5100272 B2 20121219; WO 2009035090 A1 20090319

DOCDB simple family (application)
EP 08830366 A 20080912; CN 200880106987 A 20080912; JP 2007237990 A 20070913; JP 2008066561 W 20080912