

Title (en)
HANDHELD POWER TOOL

Title (de)
HANDWERKZEUGMASCHINE

Title (fr)
OUTIL ÉLECTRIQUE PORTATIF

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Application
EP 19754854 A 20190214

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Abstract (en)
The present invention relates to a hammer striking mechanism and a handheld power tool including the hammer striking mechanism. The hammer striking mechanism includes a hammer and a guide member that are relatively rotatable and an energy storage mechanism abutting the hammer. One of the hammer and the guide member is provided with a curve guide, and the other of the hammer and the guide member is correspondingly provided with an conversion member. The curve guide includes a plurality of slope ascending portions and descending portions corresponding to the slope ascending portions. When the conversion member moves past the slope ascending portion, the conversion member drives the hammer to overcome an applied force of the energy storage mechanism to move in a first direction. When the conversion member moves past the descending portion, the energy storage mechanism drives the hammer to move to produce a striking in a second direction opposite to the first direction. The relative rotational speed of the rotation of the hammer relative to the guide member is 1000 revolutions per minute to 2500 revolutions per minute, and a ratio of the striking frequency of the hammer to the relative rotational speed is 2 times per revolution to 4 times per revolution.

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