

Title (en)  
CONTROL METHOD OF AN IMPACT WRENCH

Title (de)  
STEUERUNGSVERFAHREN EINES SCHLAGSCHRAUBERS

Title (fr)  
PROCÉDÉ DE COMMANDE D'UNE VISSEUSE À PERCUSSION

Publication  
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Application  
**EP 17713969 A 20170329**

Priority  
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• EP 2017057402 W 20170329

Abstract (en)  
[origin: WO2017174415A1] The control method according to the invention comprises two operating modes, which are implemented in response to a setting of a selector switch. The first operating mode provides the following steps: performing first impacts of the hammer (16) on the anvil (17); detecting the event of an impact of the hammer (16) on the anvil (17) by means of an impact sensor (27); detecting an angular position (phi) of the anvil (17) by means of an angle sensor (29); estimating an individual impact angle (theta) of the anvil (17) by means of the most recently detected impact on the basis of the angular position (phi) of the anvil (17) before the most recently detected impact and the angular position (phi) of the anvil (17) after the most recently detected impact, and comparing the individual impact angle (theta) with an individual impact setpoint angle (Theta). The first operating mode is ended if the individual impact angle (theta) falls below an individual impact setpoint angle (Theta). The second operating mode provides the following steps: detecting the angular position (phi) of the anvil (17) by means of the angle sensor (29) as an initial position (Phi); performing second impacts of the hammer (16) on the anvil (17); and detecting a relative rotational angle (dphi) of the anvil (17) with respect to the initial position (Phi) during the second impacts. The second operating mode is ended if a relative angle of rotation (dphi) exceeds a standard angle (dPhi).

IPC 8 full level  
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