MANUALLY OPERATED IMPACT WRENCH

A manually operated impact tool (100) is provided and includes: an impact mass (108); an anvil (120) rotatably disposed relative to the impact mass; an input member (104, 140) operatively connected to one of the impact mass and anvil mass for imparting a relative rotation between the impact mass and the anvil; an output member (124) connected to the other of the impact mass and anvil mass for transferring an impact to a fastener; and one or more elastic elements (162) for storing potential energy upon the relative rotation between the impact mass and the anvil. Wherein conversion of the potential energy to kinetic energy causes the impact mass to impact the anvil and transfer of the impact to the output member.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC: B25B 19/00 (2006.01), 21/00 (2006.01)

USPC: 81/466
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S.: 81/466, 463/173/93.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 5,095,784 A (GARVER) 17 MARCH 1992 (17.03.1992), SEE ENTIRE DOCUMENT.</td>
<td>1-3, 9-10, 12-14, 20-21, 23</td>
</tr>
</tbody>
</table>

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:
  “A” document defining the general state of the art which is not considered to be of particular relevance
  “E” earlier application or patent published on or after the international filing date
  “L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
  “O” document referring to an oral disclosure, use, exhibition or other means
  “P” document published prior to the international filing date but later than the priority date claimed

“X” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

“Y” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search
17 February 2007 (17.02.2007)

Date of mailing of the international search report
26 FEB 2007

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