

Title (en)

HAND-HELD, BATTERY POWERED CLEANING TOOL WITH STAND

Title (de)

BATTERIEGETRIEBENES HANDREINIGUNGSGERÄT MIT STÄNDER

Title (fr)

OUTIL DE NETTOYAGE ALIMENTÉ PAR PILE, PORTATIF, PRESENTANT UN SOCLE

Publication

**EP 1551599 A2 20050713 (EN)**

Application

**EP 03777632 A 20031017**

Priority

- US 0332863 W 20031017
- US 27307602 A 20021017

Abstract (en)

[origin: US2004074025A1] A hand held cleaning tool is powered by commonly available batteries. An output shaft of the tool includes an expandable coupling, such as, for example a set of swaging cams. Torque delivery arms radiate outward from the output shaft. For example, the torque delivery arms are carried by a hub. The hub is attached to the output shaft with a pin and acts to secure a power train to a housing of the tool. The torque delivery arms are received in slots or interdental spaces associated with a cleaning head. Torque is delivered to the cleaning head with a reduced stress concentration. The cleaning tool is associated with a compact stand. The stand can be incorporated into a housing of the tool. For example, a battery compartment door can include the stand. Alternatively, the stand can be a separable item. A separable stand can accommodate a plurality of cleaning heads.

IPC 1-7

**B25F 1/00**; **B25F 3/00**

IPC 8 full level

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CPC (source: EP US)

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