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(54) Hammer drill

(57) In a hammer drill (1), a torque limiter includes: a cam ring (14) adjacent to a gear (13), and configured to be provided onto a tool holder (6) so as to be unitarily rotatable with the tool holder (6) and to have cam projections (18) on a surface facing to the gear (13); rollers (21) received in corresponding through-holes (20) formed in the gear (13) and engageable with the cam projections (18) in their rotational directions; and urging means

(washer (16) and coil spring (17)) configured to urge the rollers (21) toward the cam ring (14) so that the rollers (21) are brought into engagement with the cam projections (18), and when a torque applied to the tool holder (6) exceeds a setting torque, the rollers (21) pass the cam projections (18) within the through-holes (20) against the urging means and roll on the cam ring (14), so that the gear (13) slips on the cam ring (14) to thereby uncouple the torque transmission to the cam ring (14).

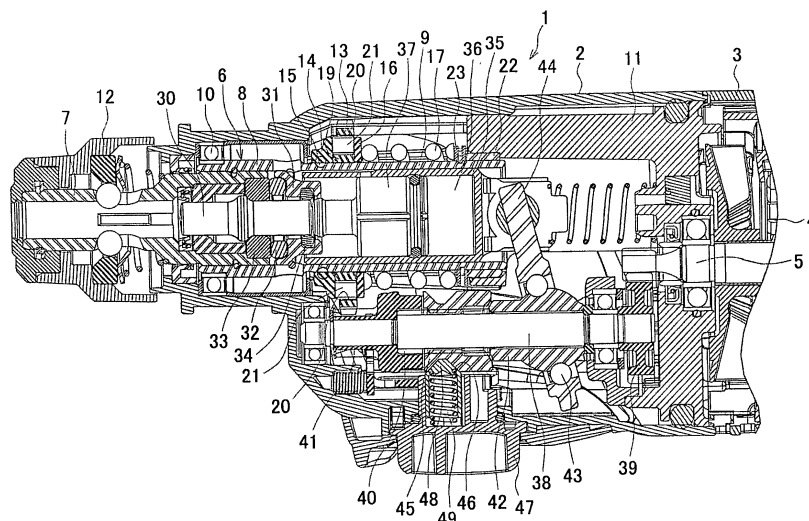


FIG. 1

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EUROPEAN SEARCH REPORT

Application Number
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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		22 November 2011	Prelovac, Jovanka
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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