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**Buckman, Sr. et al.**

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(54) **PERFORATING AND JET DRILLING METHOD AND APPARATUS**

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**E21B 7/08** (2006.01)

(52) **U.S. Cl.** ..... **175/62; 175/75; 166/298**

(58) **Field of Classification Search** ..... **175/62, 175/67, 75, 81, 424; 166/298, 376, 222, 166/223, 55.1**

See application file for complete search history.

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(57) **ABSTRACT**

A tool body on tubing directs a mechanical cutter or jet bit to the casing. A hole is cut in casing and a rotary detent mechanism may be used to drill additional holes through casing and enable alignment of a jet bit with the holes for drilling drain-holes without removing apparatus from the well. Disposable nozzles in a guide channel or nozzles on the tool body may be used for drilling through casing.

**3 Claims, 7 Drawing Sheets**

