

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 4,352,399

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INVENTOR(S) : KENNETH DAVIS

It is certified that error appears in the above—identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 10. In a drill bit having a pin end spaced from a formation engaging face by an enlarged main body, and having circumferentially spaced external passageways formed within said main body for conducting fluid flow from said face upwards towards said pin end; and further including a bit breaker by which the bit can be made up and broken out respective to the lower threaded end of a string of drill tubing; the improvement comprising:

said bit breaker having an outer configuration which enables said bit breaker to be drivingly received within a kelly drive of a turntable; a central aperture formed through said bit breaker;

said spaced external passageways of said bit main body outwardly open in a direction radially away from said main body, said external passageways each have opposed sides which extend from a back wall, at least two said external passageways include a lower marginal terminal end adjacent to said face which is separated from an upper marginal end adjacent to said pin end by an abutment means formed therebetween;

said bit breaker includes lugs affixed thereto and extending radially toward the center of said central aperture, said lugs include opposed sides which terminate at an inner end, each said lug is received within the lower marginal terminal end of said external passageway in close tolerance relationship therewith to cause at least part of said lug to abuttingly engage at least part of said abutment means when the bit is telescopingly received within said central aperture of said bit breaker, thereby releasably capturing the bit in seated relationship within said bit breaker;