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(54) Title: AN INDEXABLE-INSERT DRILLING TOOL

(57) Abstract

A drilling tool having an elongated body (1) with a longitudinal axis and provided with at least one pocket (6) and at least one indexable cutting insert (7) mounted in the pocket and an indexable cutting insert for use with the drilling tool for forming drilling action when the drill is rotated about the longitudinal axis, the insert comprising:

a rake face (32), a flank relief face (34), a base, a plurality of cutting edges (50, 60, 70), each defined between the rake face and the flank relief face and included between two adjacent cutting corners (18, 20, 22). The cutting edge comprises at least one set of component cutting edges, each set consisting of two pairs of component cutting edges merging in a common point, each pair consisting of a first (50a, 50a') and a second (50b, 50b') cutting edge merging via a bridging section (S). The component cutting edges are oriented so that an extremity of the second component cutting edge innermost with respect to the common point is closer to a center of the insert than an extremity of the first component cutting edge outermost with respect to the common point and the bridging section is inclined with respect to a first line constituting or parallel to a median line of the insert so that the outermost extremity of the second component cutting edge is closer to the first line than the innermost extremity of the first component cutting edge ensuring that during the drilling action a second line parallel to the longitudinal axis and passing through the outermost extremity of the first component cutting edge intersects the second component cutting edge and the extremities overlap.

