

ABSTRACT OF THE DISCLOSURE

WIDE GROOVE ROLLER CONE BIT

An earth boring bit has three cones, each cone being mounted for rotation about a cone axis while the bit rotates about a bit axis. An outer row and an adjacent row of cutting elements are integrally formed on each of the cones. Each of the cutting elements of the adjacent row on each of the cones has a crest extending perpendicular to a direction of rotation of the cone. Annular spaces are located between the outer row and the adjacent row on each of the cones. The annular space on one cone has a width that is less than the annular spaces on the other cones. The width of the narrowest annular space is greater than the width of the crests of the adjacent row.

(Figure 4)