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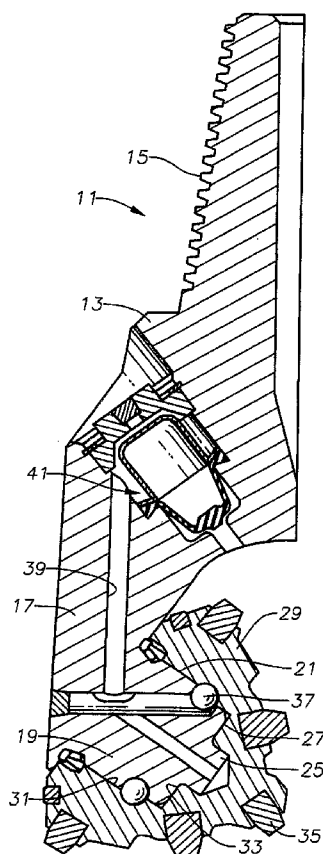
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(54) Title: EARTH BORING BIT WITH TILTED HYDRODYNAMIC THRUST BEARING



(57) Abstract: An earth boring bit (11) has thrust faces (27,33) with one of the thrust faces (27) being at least partially tilted relative to the other. The bit has a cone (29) rotatably mounted to a bearing pin (1.9) of the bit body. The thrust faces are in the cone and on an end of the bearing pin. One of the thrust faces (33) is completely flat and perpendicular to the axis of the bearing pin. The other (27) thrust face has a tilted portion that is at a skewed angle relative to the axis. The tilted portion creates converging and diverging zones between the thrust faces (27,33).



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