

ABSTRACT

A diameter expansion drill bit 10 used for inserting in a prepared hole H perforated in a framework A to expand a diameter of a portion of the prepared hole H by grinding has a plurality of blade sections 21 that grind the portion of the prepared hole, a blade holding section 22 that holds the plurality of blade sections 21 movably in a radial direction respectively, and a shank section 23 that supports the blade holding section 22, and the plurality of blade sections 21 move to spread outwardly in the radial direction with respect to the blade holding section 22 by centrifugal force due to rotation.