

Apparatus and Method for Cutoff Machining Sintered Magnet

ABSTRACT

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A sintered magnet sawing apparatus is provided comprising a cylindrical work carrier mounted on a horizontal rotating spindle and having a regular polygonal shape in a perpendicular cross section, and a plurality of endless elastic belts adapted to force a work of sintered magnet against the carrier surface to secure the work thereto and adapted to
10 travel synchronously with and counter to the rotation of the carrier in a circulatory manner. In accordance with rotation of the carrier, the work is delivered to the peripheral surface of the carrier, secured thereto by the elastic belts, moved further forward and cutoff machined by an outer cutoff blade. The divided work is moved further forward, released and discharged from the carrier.

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Fig. 1