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(19) **United States**(12) **Patent Application Publication****Sung**(10) **Pub. No.: US 2007/0155298 A1**(43) **Pub. Date: Jul. 5, 2007**(54) **SUPERHARD CUTTERS AND ASSOCIATED METHODS**

Continuation-in-part of application No. 10/925,894, filed on Aug. 24, 2004.

(76) Inventor: **Chien-Min Sung**, Tansui (TW)

(60) Provisional application No. 60/681,798, filed on May 16, 2005.

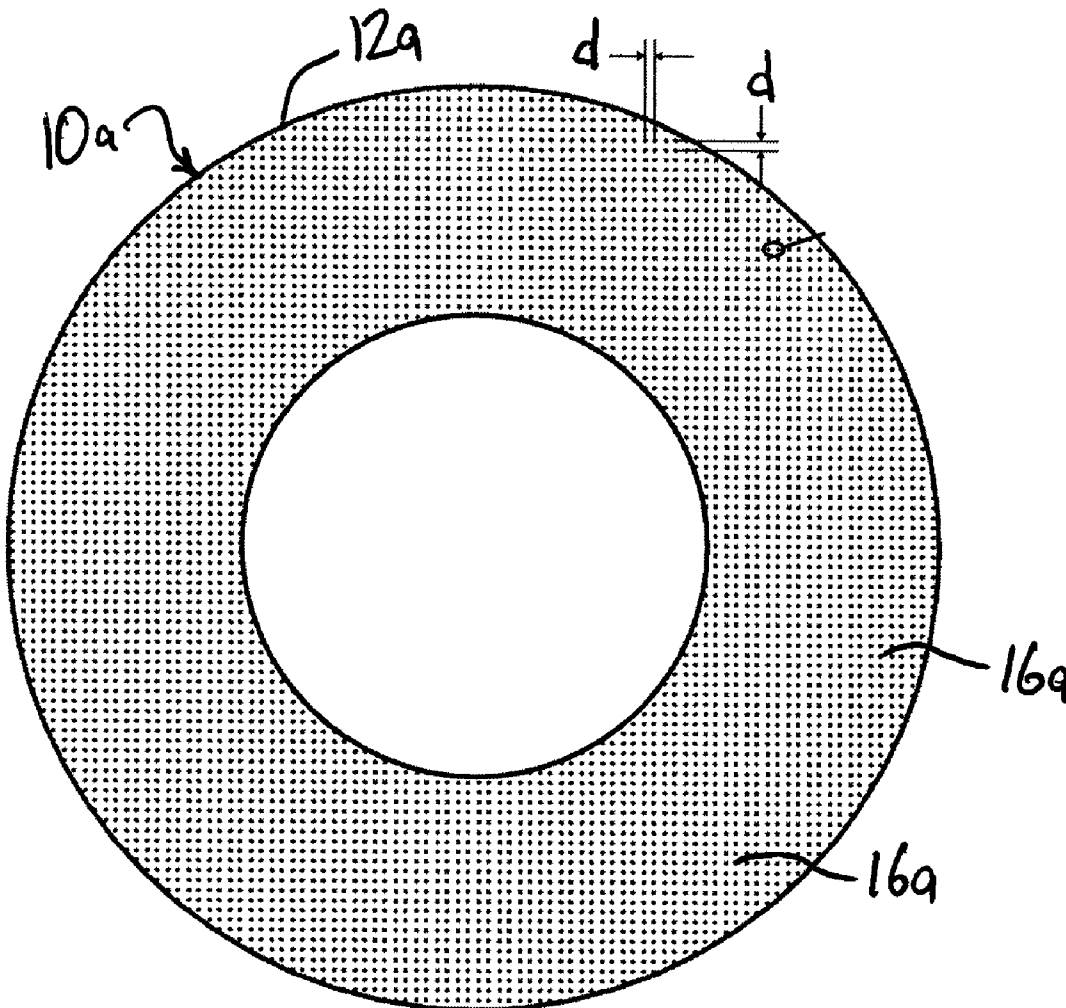
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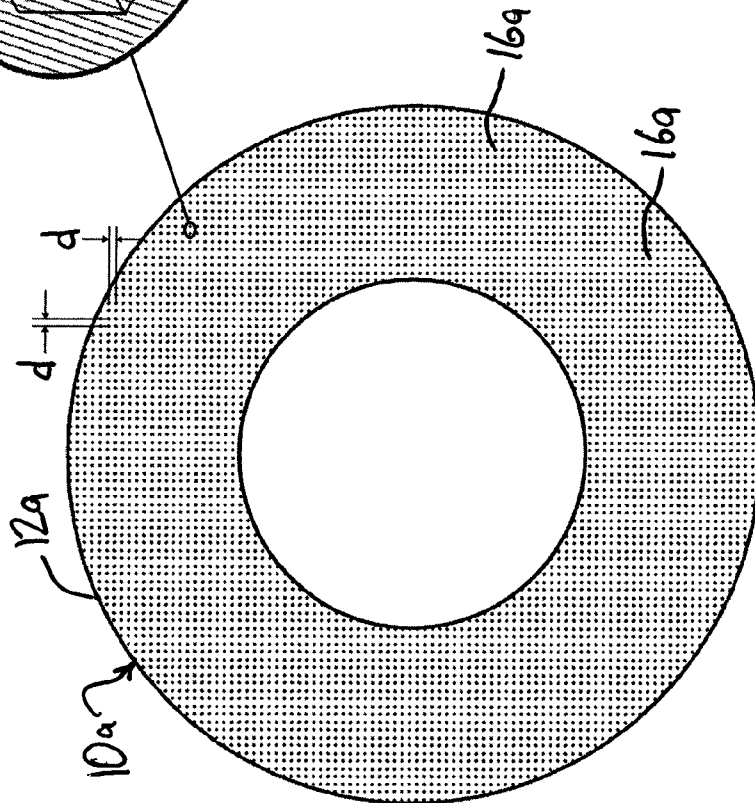
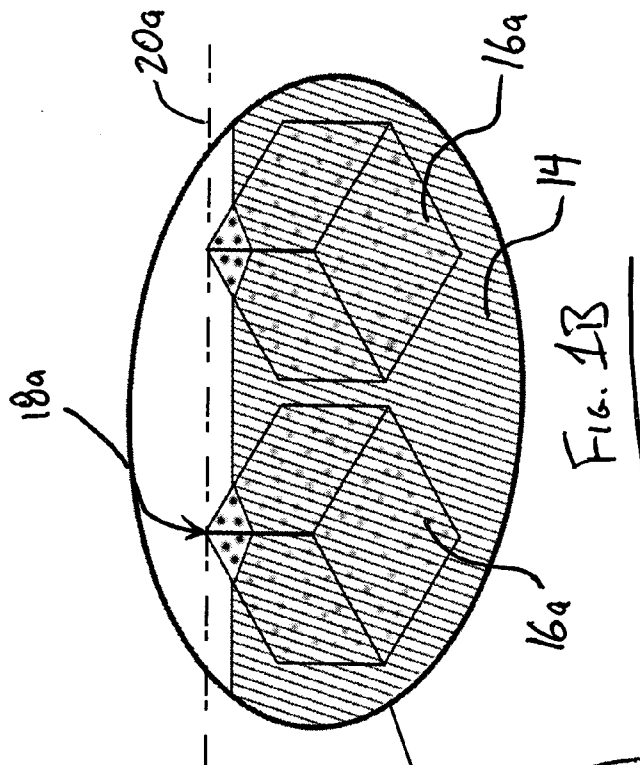
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SANDY, UT 84070 (US)**Publication Classification**(51) **Int. Cl.**
B24D 11/00 (2006.01)(52) **U.S. Cl.** **451/527**(21) Appl. No.: **11/560,817**(22) Filed: **Nov. 16, 2006**(57) **ABSTRACT****Related U.S. Application Data**

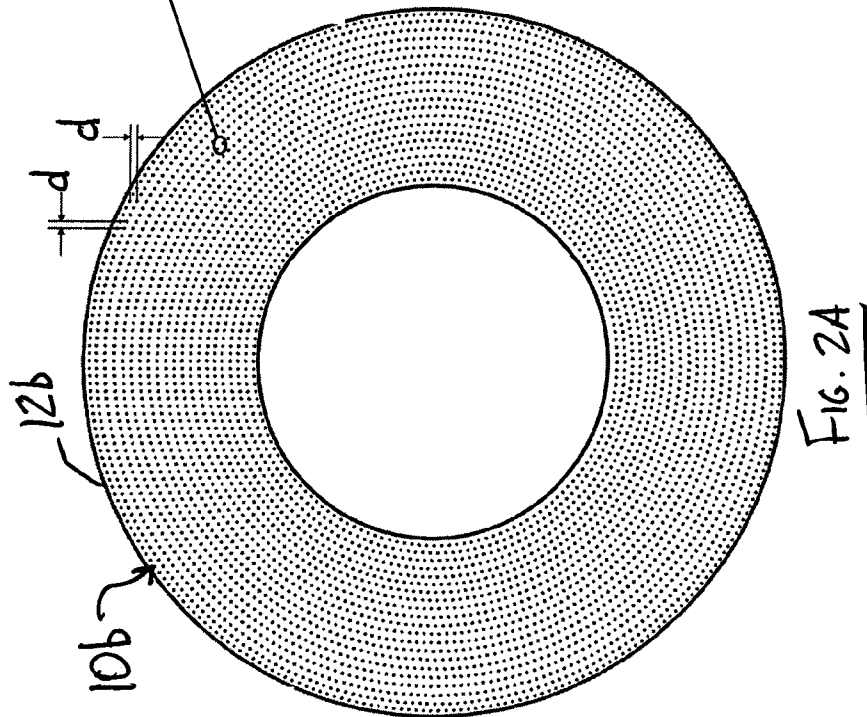
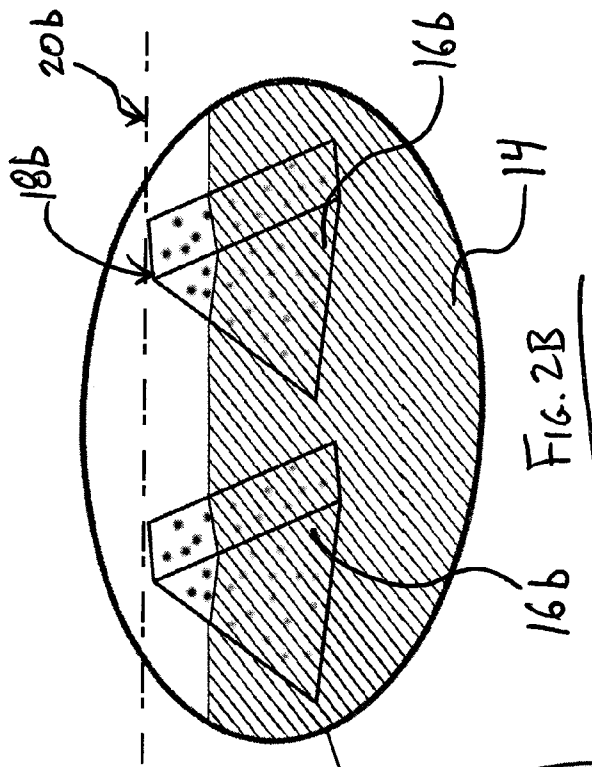
(63) Continuation-in-part of application No. 11/357,713, filed on Feb. 17, 2006.

Continuation-in-part of application No. 11/223,786, filed on Sep. 9, 2005.

A cutting device comprises a base having a solidified organic material layer disposed thereon. A plurality of individual polycrystalline cutting elements are secured in the solidified organic material layer. Each of the plurality of individual polycrystalline cutting elements has a substantially matching geometric configuration.







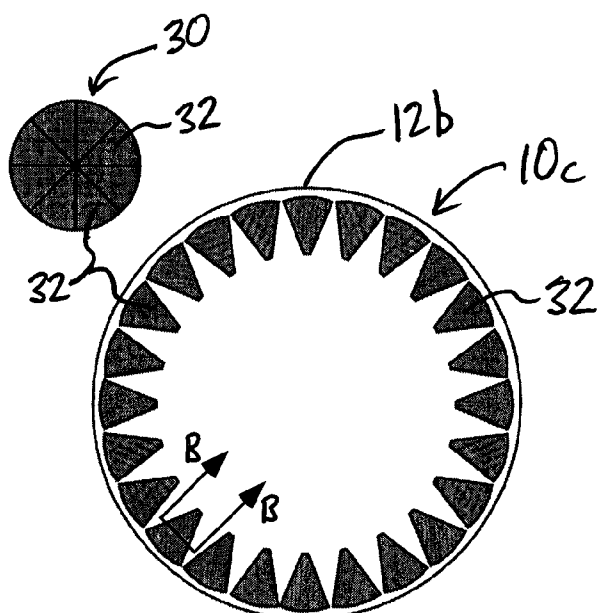


FIG. 3A

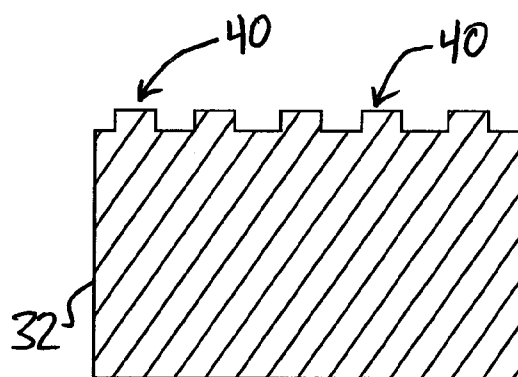


FIG. 3B

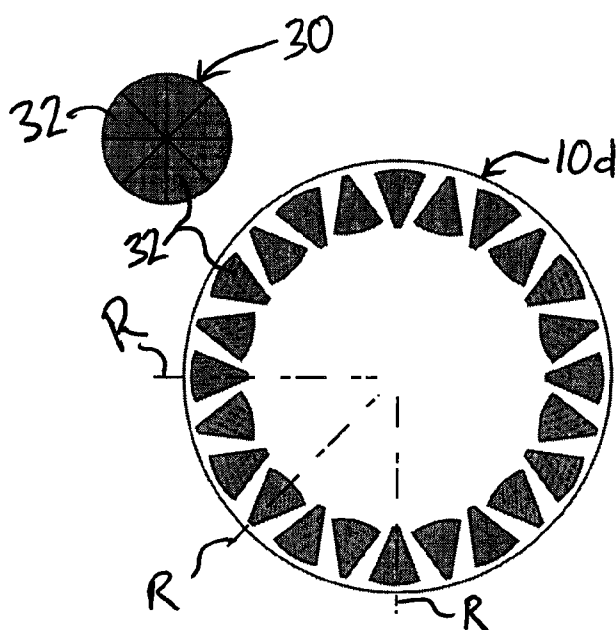
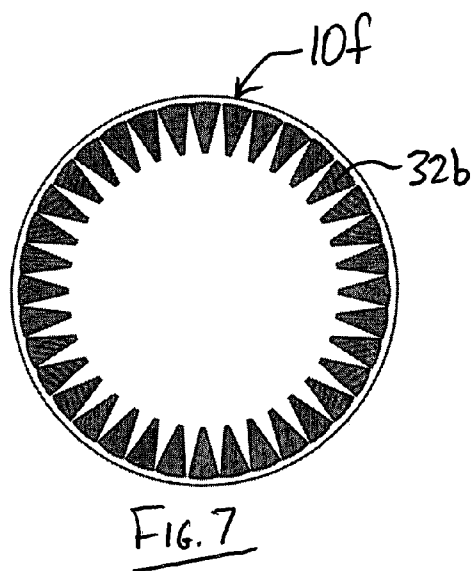
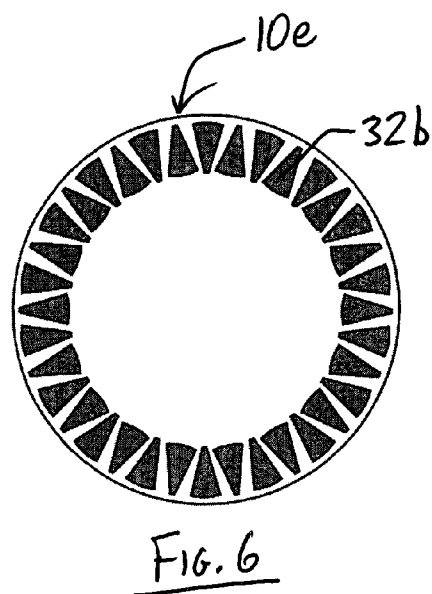
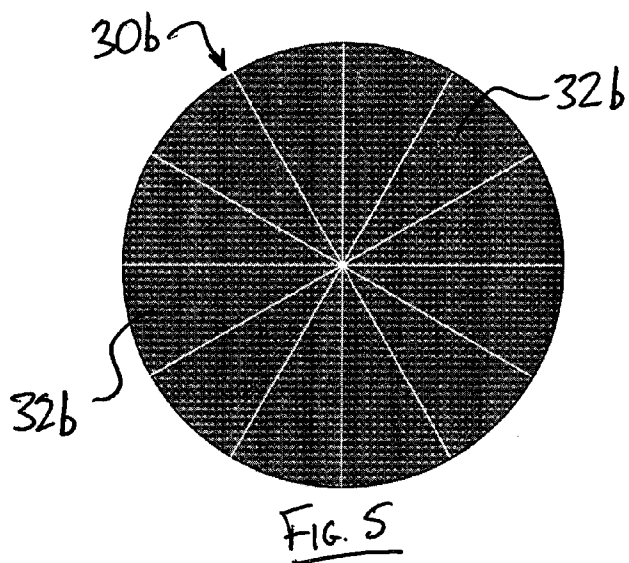


FIG. 4



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