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Declarations under Rule 4.17:

[Continued on next page]

(54) Title: COMPOSITE MATERIALS INCLUDING NANOPARTICLES, EARTH-BORING TOOLS AND COMPONENTS INCLUDING SUCH COMPOSITE MATERIALS, POLYCRYSTALLINE MATERIALS INCLUDING NANOPARTICLES, AND RELATED METHODS

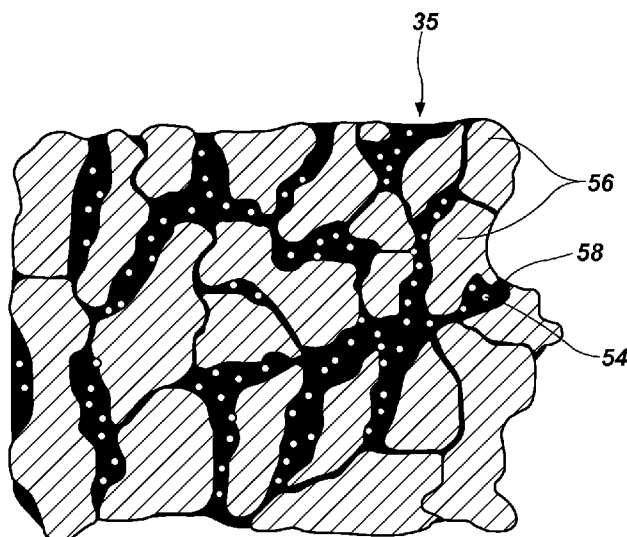


FIG. 3

(57) Abstract: A composite material comprising a plurality of hard particles surrounded by a matrix material comprising a plurality of nanoparticles. Earth boring tools including the composite material and methods of forming the composite material are also disclosed. A polycrystalline material having a catalyst material including nanoparticles in interstitial spaces between inter-bonded crystals of the polycrystalline material and methods of forming the polycrystalline material are also disclosed.



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