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(54) Title: VITREOUS BONDED ABRASIVE

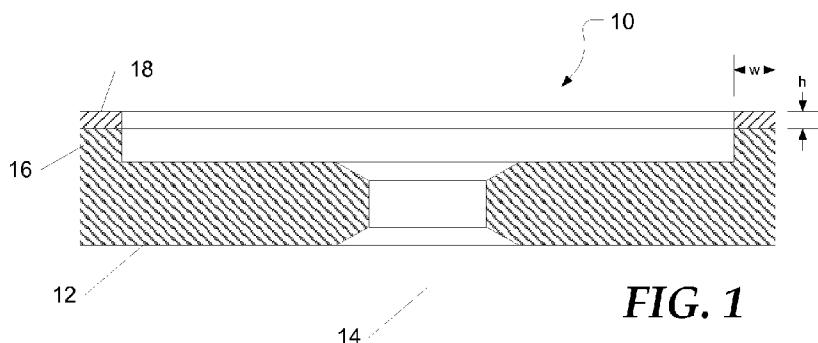


FIG. 1

(57) Abstract: A vitrified superabrasive product includes a superabrasive component and a vitrified bond component in which the superabrasive component is dispersed. The vitrified bond includes an oxide of a lanthanoid. Additionally, the vitrified bond component defines pores that can be essentially all less than 800 μm in diameter. Seventy percent of the pores are in a range of between about 40 μm and about 500 μm and have an average aspect ratio less than about 2. The porosity is in a range of between about 50% and about 90% of the total volume of the superabrasive product.

