

The Knowledge Bank at The Ohio State University

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BORT

Industrial diamonds, bought in dies in which the diamond is embedded used in small wire drawing machines are being recovered in the form of sifted dust to polish tungsten carbide.

In the new die, a hole from .0025 to 0.064 inch in diameter is drilled. When the diamonds begin to wear, new holes are drilled of larger size. When the drill in the diamond becomes too large the metal of the die is dissolved and the diamond is removed, crushed, and finely sifted. The dust then is used to polish the tungsten carbide dies which are used in large wire drawing machines.

The diamond dust while in use falls in a container with oil, rags, and tungsten carbide bits. C. B. Shopmeyer of General Electric's Schenectady works laboratory has found a method of recovering the dust with very few chemicals.