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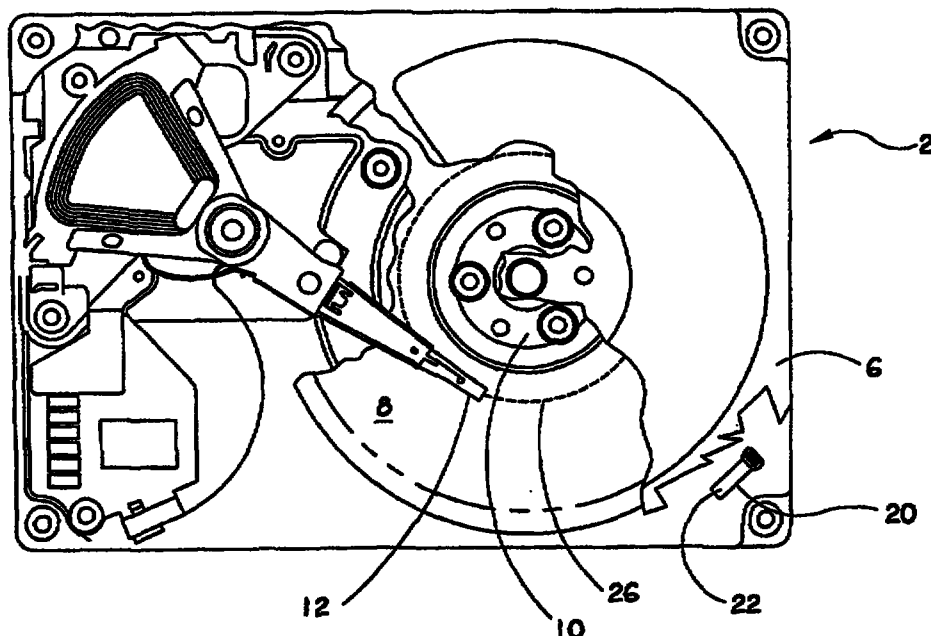
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(54) Title: PHOTOCATALYTIC DEVICE FOR DISK DRIVE CONTAMINATION REDUCTION



(57) Abstract: A contaminant reduction system comprises an assembly of appropriate size and shape for mounting within a sealed or semi-sealed hard disk drive (HDD). The system comprises a photocatalytic surface mounted in close proximity or in contact with a light source which may be utilized as a means for activation. The photocatalytic surface is preferably titanium dioxide (TiO₂); it may be other metal oxide catalyst that can be photochemically activated such as zinc oxide (ZnO). The activation is achieved utilizing a lamp which illuminates the photocatalyst and has an output below 100 nm.