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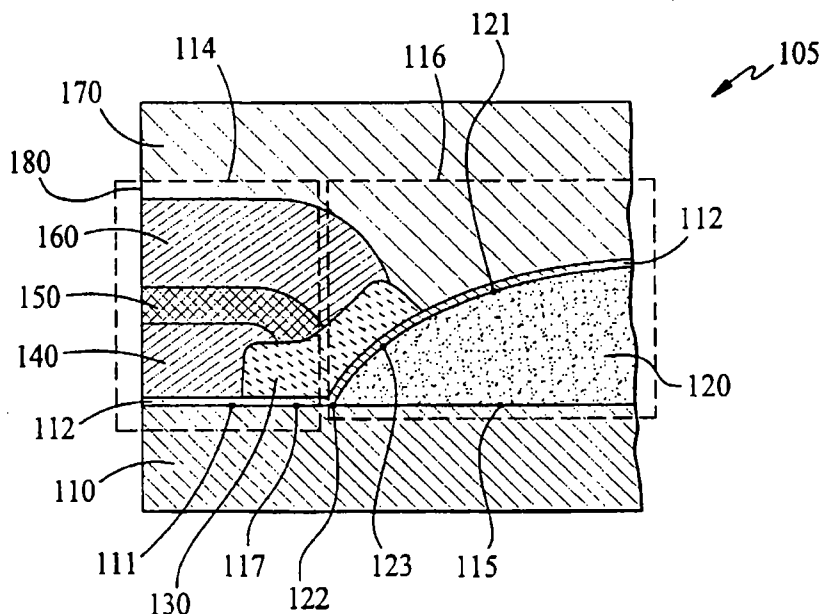
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(54) Title: **MAGNETIC RECORDING HEAD WITH DIELECTRIC LAYER**



(57) Abstract: A magnetic recording head (105) includes a zero throat (120) formed on a bottom pole layer (110) and a dielectric layer (130) formed over a portion of the bottom pole layer and over a portion of the zero throat. A bottom pole extension (140), a gap layer (150), and a top pole extension (160) are plated in a pole tip region (114) of the recording head so that the dielectric layer separates the plated layers in the pole tip region from the zero throat. The dielectric layer prevents the bottom pole extension and gap layer from plating over the zero throat, and reduces the magnetic flux leakage between a bottom pole extension and a top pole extension of the recording head.

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