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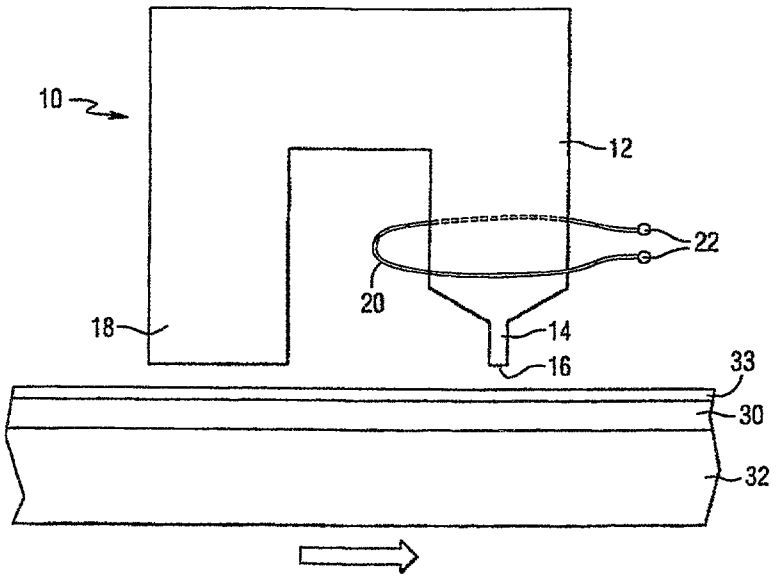
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(54) Title: MAGNETIC RECORDING HEAD INCLUDING BACKGROUND MAGNETIC FIELD GENERATOR



(57) Abstract: A perpendicular recording head (10) for use with magnetic recording media (30) includes a main pole (14) and a magnetic field source which is positioned sufficiently close to the main pole tip to generate a background magnetic field in the recording media. A conductive magnetizing coil (20) surrounding the main pole is preferably used as the magnetic field source. The background magnetic field generated by the magnetizing coil effectively reduces the coercivity of the magnetic recording media in the region affected by the background field. The recording head enables writing on high coercivity/high anisotropy magnetic media, thereby achieving extremely high recording densities.

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