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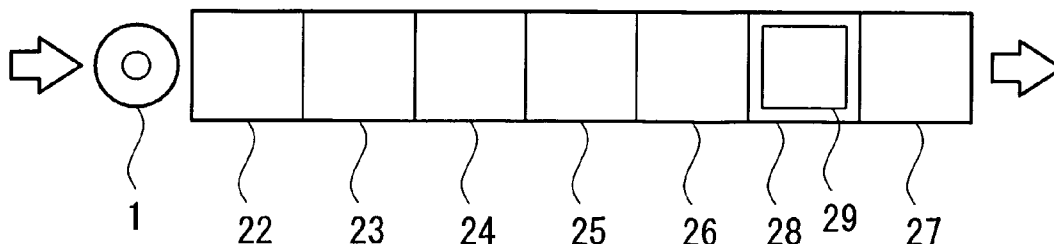
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(54) Title: PRODUCTION PROCESS OF MAGNETIC RECORDING MEDIUM, MAGNETIC RECORDING MEDIUM, AND MAGNETIC RECORDING AND REPRODUCING APPARATUS



(57) Abstract: A production process of magnetic recording media is provided in which, when using an oxide magnetic material as a perpendicular magnetic recording layer and forming a carbon protective layer using a plasma CVD method, stripping of the carbon protective layer and separation of a lubrication layer can be prevented, and satisfactory recording and reproduction characteristics can be obtained. In the production process of magnetic recording media, the magnetic recording media consists of, at least, a substrate 1 on which are provided a perpendicular magnetic recording layer and a carbon protective layer, in which the perpendicular magnetic recording layer consists of magnetic material containing a Co alloy and oxide material; the method includes a perpendicular magnetic recording layer formation process of forming the perpendicular magnetic recording layer on the substrate 1, a heating process of using a heating portion 28 to heat the substrate 1 on which the perpendicular magnetic recording layer has been formed, and a protective layer formation process of using a plasma CVD method to form a carbon protective layer on the substrate 1 on which the perpendicular magnetic recording layer has been formed.

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