



[54] MAGNETOOPTIC LAYER AND A PROCESS FOR ITS FABRICATION

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[21] Appl. No.: 224,190

[22] Filed: Apr. 7, 1994

Related U.S. Application Data

[63] Continuation of Ser. No. 785,880, Nov. 4, 1991, abandoned, which is a continuation of Ser. No. 480,496, Feb. 16, 1990, abandoned.

Foreign Application Priority Data

Feb. 16, 1989 [DE] Germany 39 04 611.7

[51] Int. Cl.⁶ G11B 5/66; B32B 5/16; C23C 14/00

[52] U.S. Cl. 428/332; 428/336; 428/610; 428/684 ML; 428/684 SC; 428/684.6 R; 428/684 NF; 428/684 MM; 428/684 T; 428/684 RF; 428/684 XS; 428/900; 428/638; 204/192.1; 204/192.2; 204/192.26; 363/13

[58] Field of Search 428/694 ML, 694 SC, 428/694 GR, 900, 694 NF, 694 MM, 694 IS, 332, 336, 610, 694 XS; 369/13; 204/192.1, 192.2, 192.26

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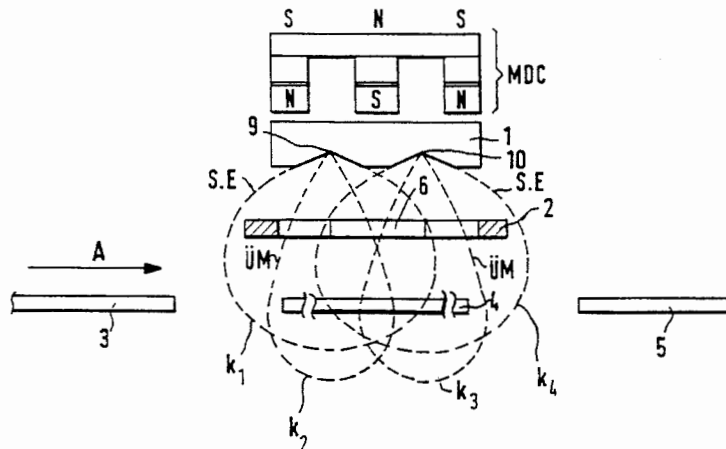
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[57] **ABSTRACT**

A magneto-optic layer made from rare-earth metals and transition metals exhibits a gradient in the alloy composition over the layer depth, and has a coercive field strength of more than 8 kOe in the temperature range of $\Delta T=100^\circ \text{C}$. around the compensation temperature T_{comp} . The layer is fabricated with a dynamic sputter process, in which the substrates to be coated are led past one or a plurality of sputter targets, arranged in a common plane parallel to the track of the substrates. A mask is located between the sputter targets and the substrates.

38 Claims, 6 Drawing Sheets



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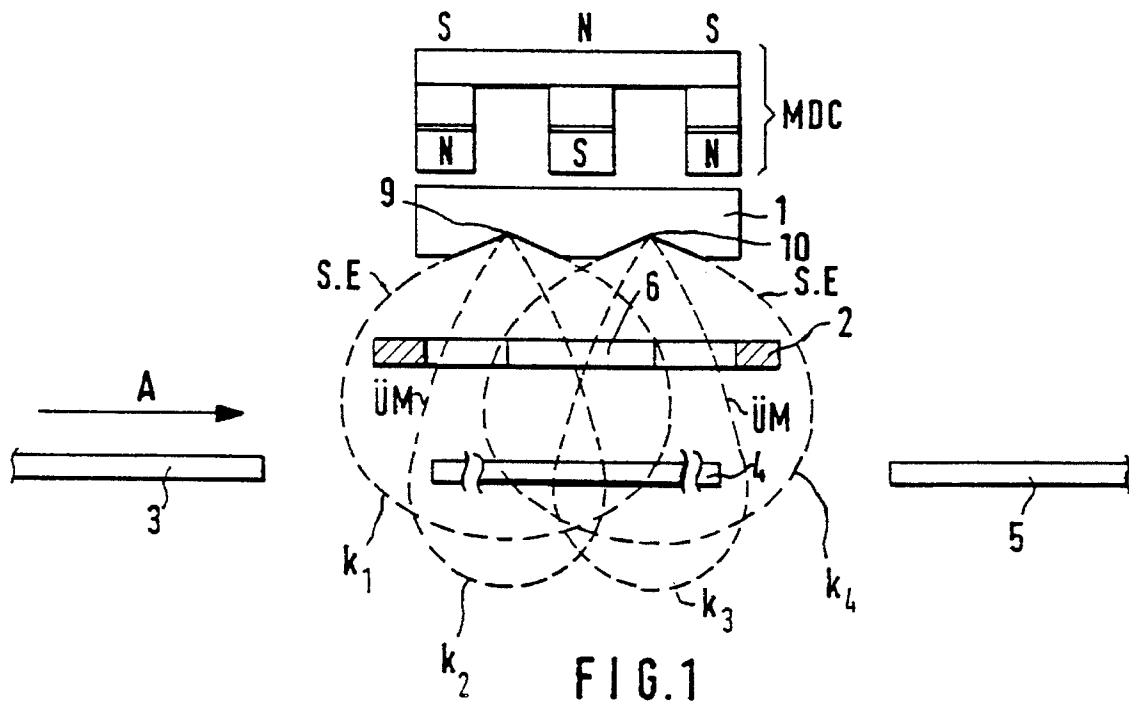


FIG. 1

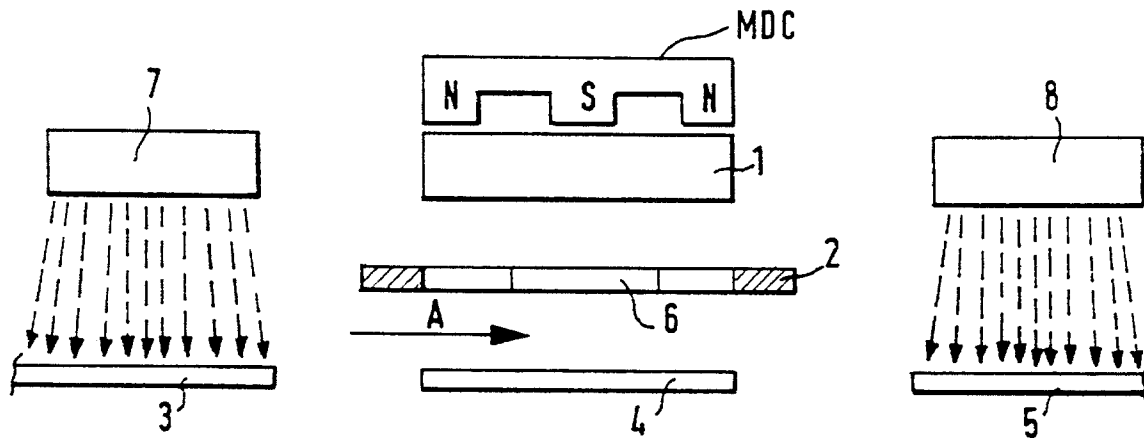
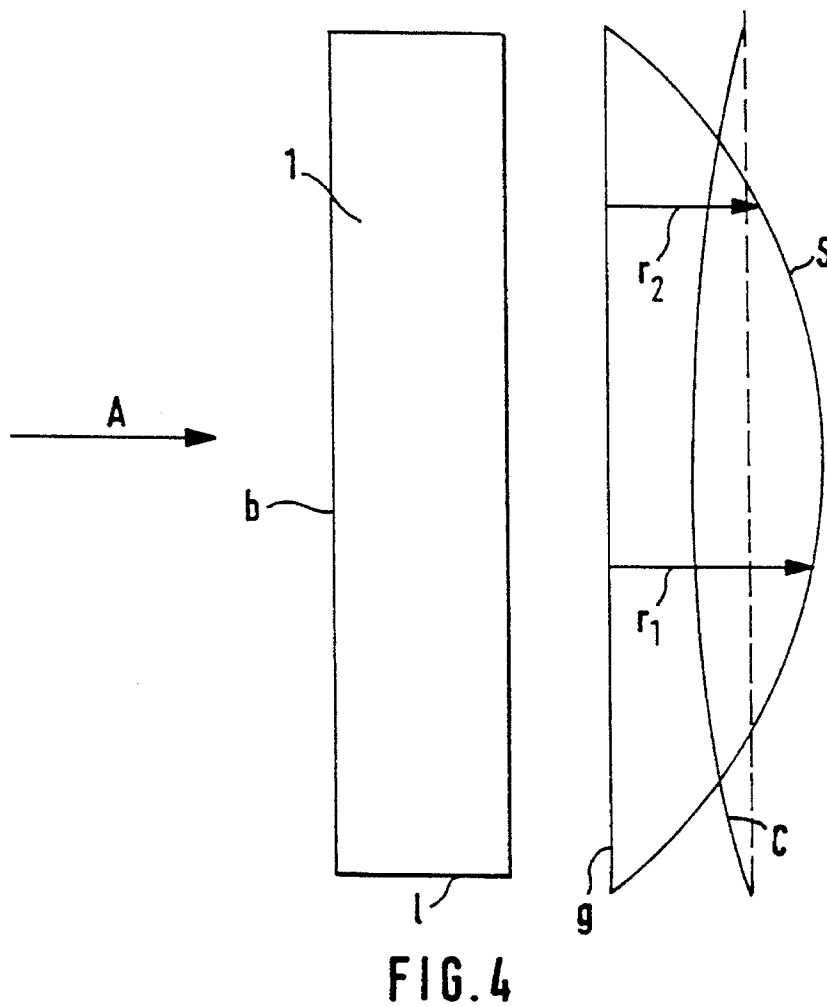
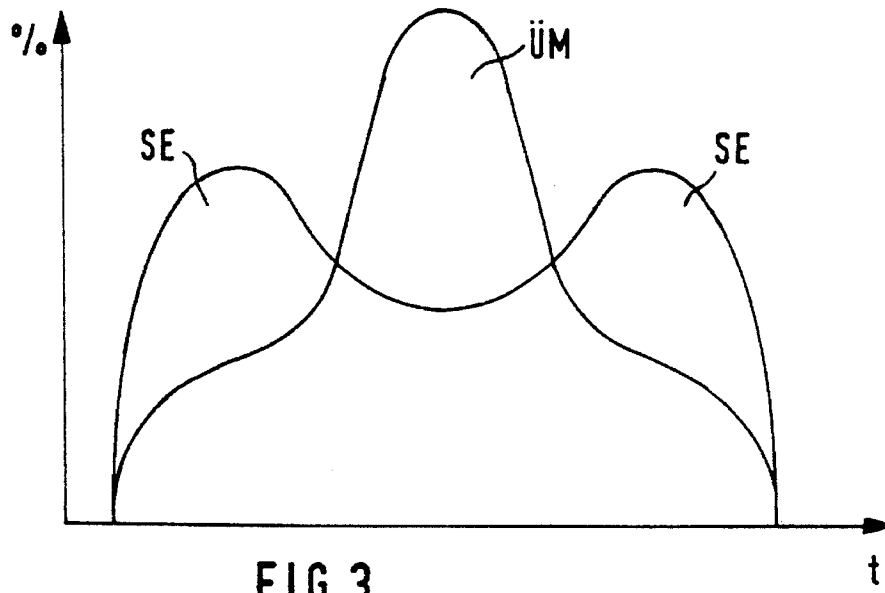


FIG. 2



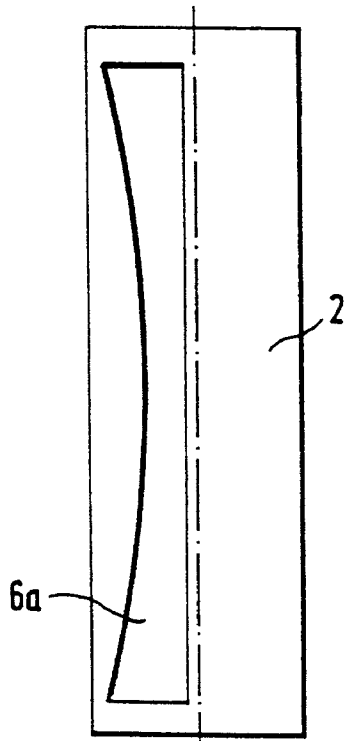


FIG. 5A

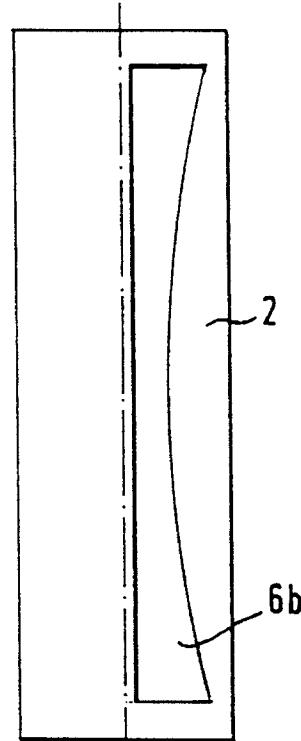


FIG. 5B

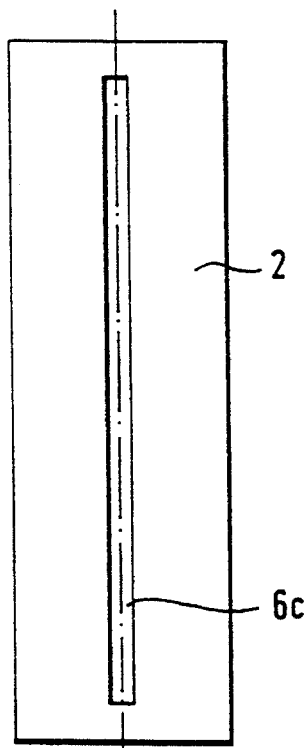


FIG. 5C

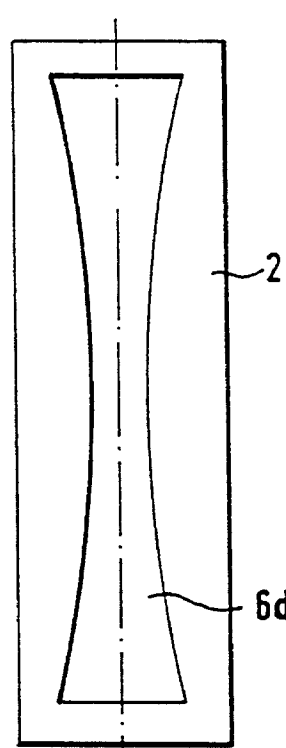


FIG. 5D

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