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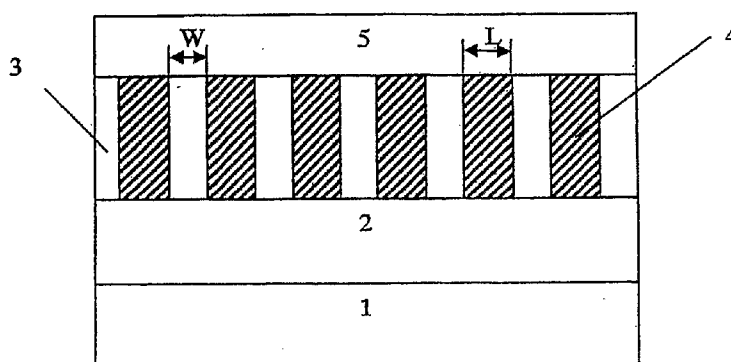
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(54) Title: MAGNETIC RECORDING MEDIUM, METHOD FOR PRODUCTION THEREOF AND MAGNETIC RECORDING AND REPRODUCING DEVICE



(57) Abstract: A method for the production of a magnetic recording medium (30) includes the steps of depositing a magnetic layer or Co-containing magnetic layer (3) on at least one side of a nonmagnetic substrate (1) and partially implanting atoms into the magnetic layer or Co-containing magnetic layer to partially unmagnetize the magnetic layer or Co-containing magnetic layer, thereby forming nonmagnetic parts (4) and a magnetic recording pattern magnetically separated by the nonmagnetic parts and, in the case of the Co-containing magnetic layer, lowering Co (002) or Co (110) peak strength of a relevant part of the Co-containing magnetic layer as determined by the X-ray diffraction to 1/2 or less. A magnetic recording and reproducing device includes the magnetic recording medium (30), a driving part (26) for driving the magnetic recording medium in a direction of recording, a magnetic head (27) consisting of a recording part and a regenerating part, means (28) for moving the magnetic head relative to the magnetic recording medium, and recording and reproducing signal processing means (29) adapted to enter a signal into the magnetic head and regenerate an output signal from the magnetic head.

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