

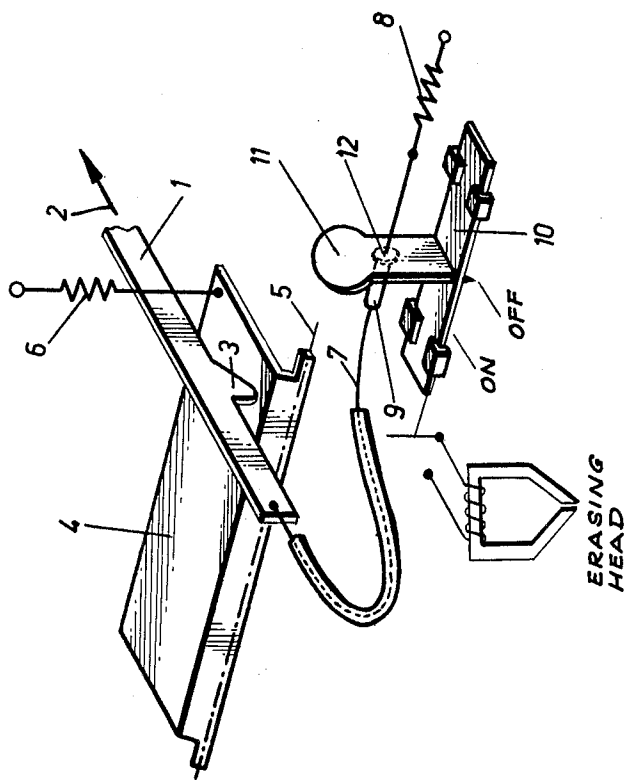
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ARRANGEMENT IN MAGNETIC RECORDERS HAVING A TRICK SWITCH

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**ARRANGEMENT IN MAGNETIC RECORDERS
HAVING A TRICK SWITCH**

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2 Claims. (Cl. 179—100.2)

This invention relates to arrangements in magnetic recorder machines having a trick switch.

If, on an existing magnetic recording, a further recording must be superimposed (trick record), it is necessary for the erasing action of the erasing head to be eliminated substantially. For this purpose, the erasing current in the erasing head may be either attenuated or interrupted completely, or the sound carrier and the erasing head may be spaced apart a certain distance. The member for carrying out the electrical and mechanical changes is herein referred to as a "trick switch". As long as the trick switch is in an "on" position, normal records cannot, of course, be made. After termination of a trick record it is quite possible to turn "off" the trick switch, thus such switches have been designed, for example, in the form of a key which upon release returns to the rest or "off" position of its own accord. However, such a switch is inconvenient, since it must be held in the "on" position during the whole trick recording. This invention relates to a convenient arrangement safeguarded against erroneous operation in normal recording and in which a trick switch is freely moveable of itself, and is also automatically switched "off" by the recording switch controlling operation of such machines.

According to the invention, a driving element is provided which co-acts with the mechanism of the recording switch and which is brought into unilaterally active connection with a slideable trick switch. The trick switch can thus be manually operated freely upon switching "on" the recording operation, but is switched "off" and held in a constrained manner upon discontinuing recording, i.e., switching off recording operation.

The embodiment according to the invention leaves the user complete freedom to operate the trick switch at will to its "on" or "off" position when the machine is set for recording by means of the recording switch. It thus provides complete security that each record is started with the trick switch in the "off" position and hence under the correct conditions for recording. This effect is also obtained with a minimum use of mechanical means.

In order that the invention may be readily understood and carried into effect, it will now be described in detail, by way of example, with reference to the accompanying diagrammatic drawing which shows only one embodiment thereof without intending to be limited thereto.

Turning the recording operation "off" or "on" is accomplished by means of a key (not shown), a switching rod 1 which is shown in the rest position and thus the recording operation is turned "off." The members to be operated by the key, such as sets of contacts, etc. are not shown. To turn "on" the machine for recording, the rod 1 must be moved in the direction indicated by the arrow 2. The rod 1 is then arrested by means of a lug 3 in known manner by a locking member 4 which is pivotal about axis 5 and which is maintained in contact with the switching rod 1 by means of a spring 6. Secured to the rod 1 is a Bowden cable 7 which is maintained stretched

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by a spring 8. The Bowden cable 7 has a driving element 9 secured to it. The trick switch 10 is preferably of the slidable type for simplicity. The contacts or the like to be operated by it are not shown, and the switch is indicated in its non-rest or operative "off" and "on" positions, i.e. the trick switch is movable by operating handle 11 of the trick switch 10. The handle 11 has an aperture 12 through which the core of the Bowden cable 7 is passed. The driving element 9 is secured to the Bowden cable 7 so as to engage the handle 11 if both the trick switch and the recording key occupy their "off" positions. When the machine is turned "on" for recording, the rod 1 of the recording key is moved in the direction indicated by the arrow 2 until it is locked, the driving element 9 is withdrawn from the operating handle 11 so as to release the trick switch 10 for switching "on" and "off" at will. When the recording key connected with rod 1 is released or placed in its "off" position, the driving element 9 moves the switch 10 to its "off" position.

When the driving element is provided on a Bowden cable, as in the example described, the relative position of the recording switch and the trick switch can be varied greatly. As a matter of fact, instead of using a key as the recording switch, use may be made of any other switch, for example a rotary switch, the two positions of which may also be transmitted to a driving element 9 in a similar manner with the aid of a Bowden cable. In special cases, it may also be possible to place the recording switch and the trick switch in such relative positions that the driving element is positioned directly on a portion of the mechanism of the recording switch, or is integral with this mechanism.

What is claimed is:

1. An improved trick switch for a recorder/reproducer comprising an erasing means, a slidable trick switch having "off" and "on" positions operatively connected with and controlling said erasing means, a member having an "off," and "on" position operatively connected with and controlling the recording operation of said recorder/reproducer, and means interconnecting said trick switch and said member, said means including a driving element for releasing said trick switch to permit manual movement to its "off" and "on" positions when said member is in its "on" position, and placing and holding said trick switch in its "off" position when said member is placed in its "off" position.

2. The improvement according to claim 1, wherein said means including said driving element comprises a Bowden cable having one end secured to one end of said member and having said driving element secured adjacent the other end of said Bowden cable.

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