DEVICE FOR MARKING AND SEARCHING FOR INFORMATION ON A MAGNETIC CARRIER(U) FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OH G I BRODOV ET AL. 06 MAR 84
FOREIGN TECHNOLOGY DIVISION

DEVICE FOR MARKING AND SEARCHING FOR INFORMATION ON A MAGNETIC CARRIER

by

G. I. Brodov, V. N. Barabanov, V. S. Pereyaslov

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EDITED TRANSLATION

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PREPARED BY:

TRANSLATION DIVISION
FOREIGN TECHNOLOGY DIVISION
WP-AFB, OHIO.

Date 6 March 1984
U. S. BOARD ON GEOGRAPHIC NAMES TRANSLITERATION SYSTEM

Block | Italic | Transliteration | Block | Italic | Transliteration
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A а | A a | A, a | P р | P р | R, r
Б б | Б b | B, b | C с | C с | S, s
В в | В v | V, v | T т | T t | T, t
Г г | Г g | G, g | У у | У u | U, u
Д д | Д d | D, d | О о | О o | O, o
Е е | Е e | Ye, ye; E, e* | X х | X x | Kh, kh
Ж ж | Ж ж | Zh, zh | Ц ц | Ц ц | Ts, ts
З з | З z | Z, z | Ч ч | Ч ч | Ch, ch
И и | И i | I, i | Ш ш | Ш ш | Sh, sh
Й й | Я я | Y, y | Щ щ | Щ щ | Shch, shch
К к | K к | K, k | Ъ ъ | Ъ ъ | 
Л л | Л l | L, l | Ы ь | Ы ь | Y, y
М м | М m | M, m | В в | В в | В, v
Н н | Н n | N, n | Э э | Э э | E, e
О о | О о | O, o | Ю ю | Ю ю | Yu, yu
П п | П p | P, p | Я я | Я я | Ya, ya

*Ye initially, after vowels, and after ё, ё; ю elsewhere. When written as е in Russian, transliterate as ye or ё.

RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

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DEVICE FOR MARKING AND SEARCHING FOR INFORMATION ON A MAGNETIC CARRIER

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This invention is in the field of radio engineering.

The known devices for marking and information search on a magnetic carrier have inadequate noise immunity of the information recording paths from the arrival of random signals, which, in the final analysis, leads to reduced reliability of obtaining reliable information.

In order to increase the noise immunity and reliability of the data recording and reading paths of magnetic recording devices, in the proposed device, the recording head is included between the amplifier of the clock pulses for the master oscillator and through the amplifier of the code pulses for the logical element unit. The reproduction head is connected through the code pulse shaper-amplifier with a switch which is connected with the display unit, and through another analogous clock pulse amplifier - with a multivibrator.

The figure shows a schematic diagram of the described device.

The control flip-flop 1 triggers the master oscillator 2. The counter 3 consists of a set of flip-flops. It is connected with
decoder 4, which distributes the pulses on its outputs, and which is connected with logical element unit 5. The latter, in turn, consists of AND and OR circuits and converts the parallel code of encoder 6, which determines the recording number of marking, into sequential code, which is amplified by amplifier 7, creating the necessary current in recording head 8. The clock pulses from the oscillator 2 are sent to amplifier 9 for recording the clock pulses, loaded by one or several magnetic recording heads.

Shaper-amplifiers 10 and 11 amplify the clock and code pulses read from reproduction head (or heads) 12. In this case, the waiting multivibrator 13 controls counter 3 in the realization search mode. Unit 14 sets the mechanism for moving the magnetic carrier 15 when the unknown section of information arrives at reproduction head 12. Display unit 16 is used for visually checking the recorded and read marking signals.

Subject of Invention

This invention is a device for marking and searching for information on a magnetic carrier which consists of pulse amplifiers, a master oscillator, logical elements, a display unit, a multivibrator, and magnetic heads. It differs because in order to increase the noise immunity and reliability of the data recording and reading paths, the recording head is connected through the clock pulse amplifier to the master oscillator, and through the code pulse amplifier - to the logical element unit. The reproduction head is connected through the shaper-amplifier of the code pulses with a switch which is connected with the display unit, and through another analogous clock pulse amplifier - with a multivibrator.