AD-A139 393 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 1/1

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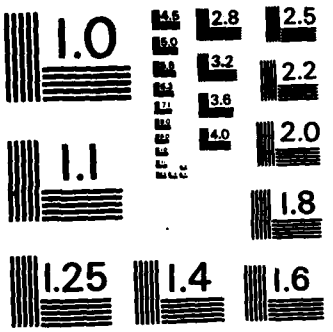

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FTD-ID(RS)T-1827-83

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

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U. S. BOARD ON GEOGRAPHIC NAMES TRANSLITERATION SYSTEM

Block	Italic	Transliteration	Block	Italic	Transliteration
А а	*А а*	A, a	Р р	*Р р*	R, r
Б б	*Б б*	B, b	С с	*С с*	S, s
В в	*В в*	V, v	Т т	*Т т*	T, t
Г г	*Г г*	G, g	У у	*У у*	U, u
Д д	*Д д*	D, d	Ф ф	*Ф ф*	F, f
Е е	*Е е*	Ye, ye; E, e*	Х х	*Х х*	Kh, kh
Ж ж	*Ж ж*	Zh, zh	Ц ц	*Ц ц*	Ts, ts
З з	*З з*	Z, z	Ч ч	*Ч ч*	Ch, ch
И и	*И и*	I, i	Ш ш	*Ш ш*	Sh, sh
Й й	*Й й*	Y, y	Щ щ	*Щ щ*	Shch, shch
К к	*К к*	K, k	Ъ ъ	*Ъ ъ*	"
Л л	*Л л*	L, l	Ы ы	*Ы ы*	Y, y
М м	*М м*	M, m	Ь ь	*Ь ь*	'
Н н	*Н н*	N, n	Э э	*Э э*	E, e
О о	*О о*	O, o	Ю ю	*Ю ю*	Yu, yu
П п	*П п*	P, p	Я я	*Я я*	Ya, ya

*ye initially, after vowels, and after ъ, ь; e elsewhere.
When written as ё in Russian, transliterate as yё or ё.

RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

Russian	English	Russian	English	Russian	English
sin	sin	sh	sinh	arc sh	$\sinh^{-1}$
cos	cos	ch	cosh	arc ch	$\cosh^{-1}$
tg	tan	th	tanh	arc th	$\tanh^{-1}$
ctg	cot	cth	coth	arc cth	$\coth^{-1}$
sec	sec	sch	sech	arc sch	sech^{-1}
cosec	csc	csch	csch	arc csch	csch^{-1}

Russian	English
rot	curl
lg	log

GRAPHICS DISCLAIMER

All figures, graphics, tables, equations, etc. merged into this translation were extracted from the best quality copy available.

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.

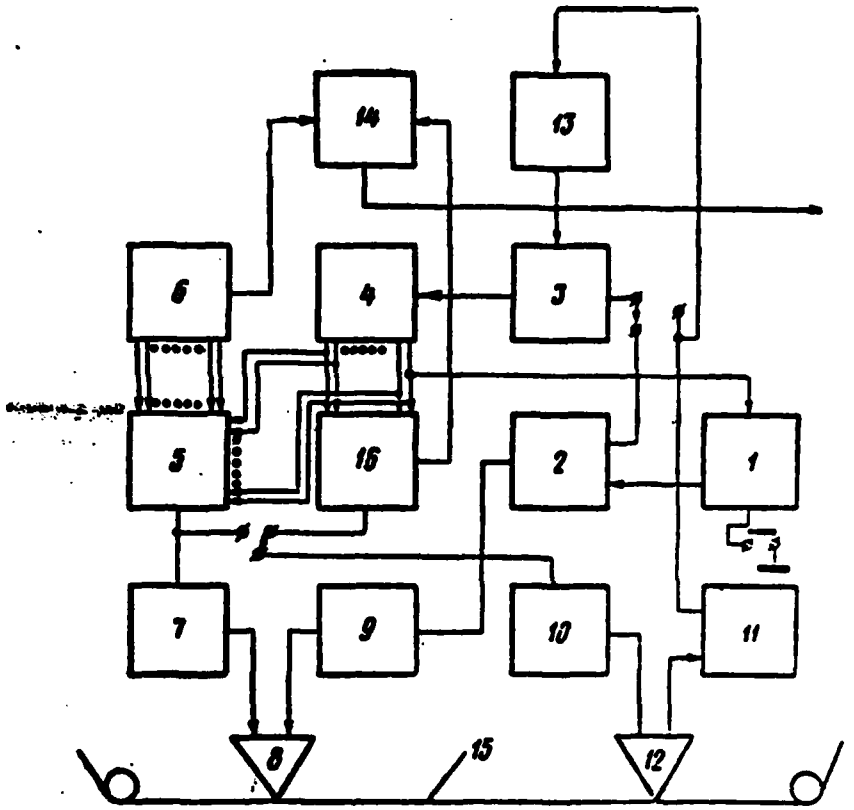
The control flip-flop 1 triggers the master oscillator 2. The counter 3 consists of a set of flip-flops. It is connected with

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 conssits 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.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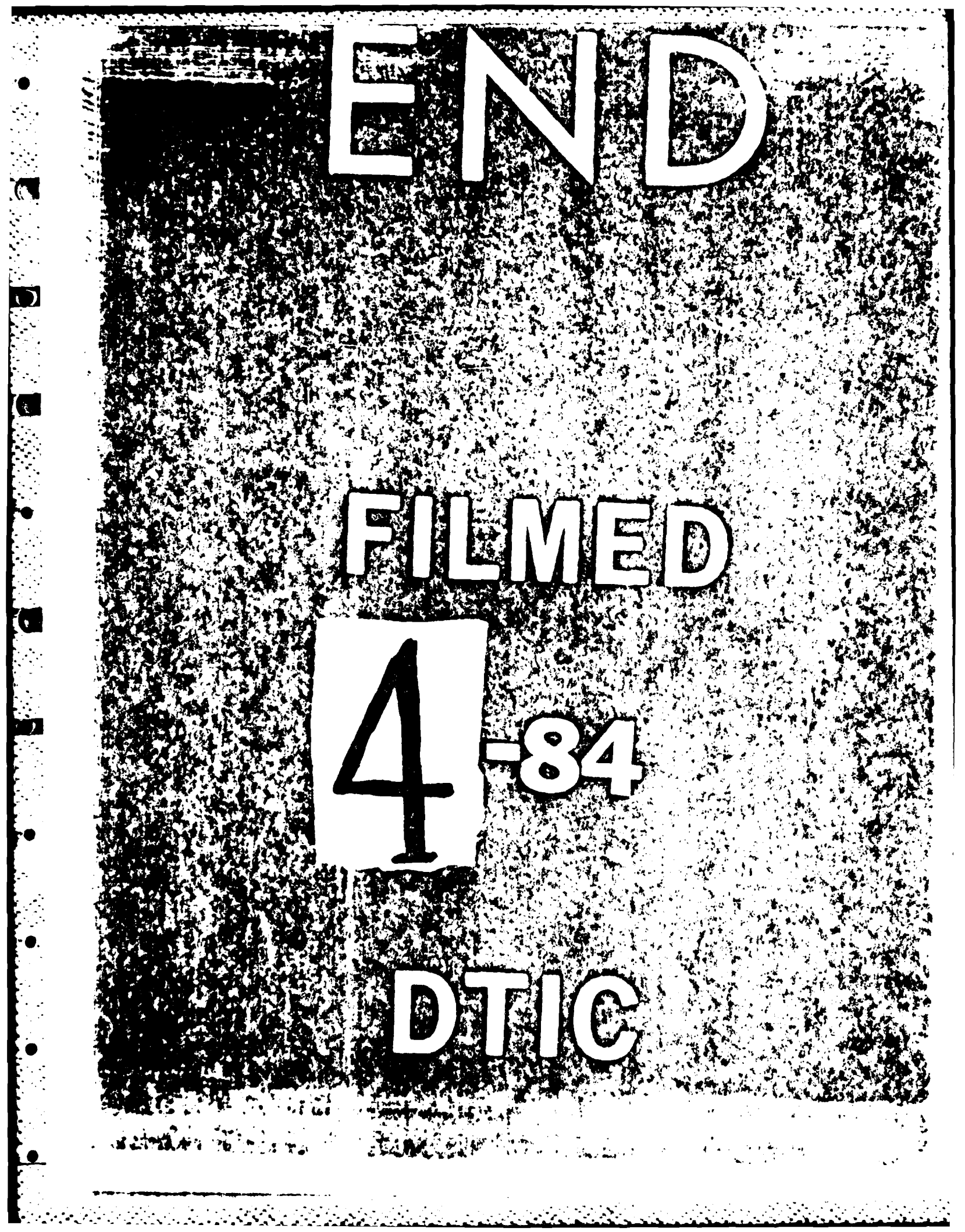
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