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FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OH
SLIDE SWITCH, (U)

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DEC 81 V V YEFREMOV, D A CHIKUNOV
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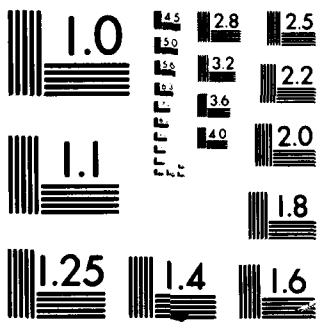
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FOREIGN TECHNOLOGY DIVISION



SLIDE SWITCH

by

V.V. Yefremov and D.A. Chikunov



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EDITED TRANSLATION

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SLIDE SWITCH,

By: V.V. Yefremov and D.A. Chikunov

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U. S. BOARD ON GEOGRAPHIC NAMES TRANSLITERATION SYSTEM

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

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

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

SLIDE SWITCH

V. V. Yefremov and D. A. Chikunov

The existing slide switch, which contains a sliding contact whose body encloses a spring-loaded ball detent, which is used simultaneously as one of the elements of the switching mechanism, a base equipped with the contact elements, and a guide strip located between the sliding contact and the base, is not very reliable and has a relatively short service life.

In the slide switch being described, the improved reliability of its operation is achieved by the fact that the guiding strip is provided with a hole which holds an additional ball, which is pressed against the upper contact bar by a ball detent in the operating position of the sliding contact.

The switch is shown in the drawing.

Spring-loaded ball detent 2 is located inside the sliding contact 1. The guiding strip 4 is between the sliding contact 1 and base 3. Base 3 is equipped with the upper 5 and lower 6 contact bars, which are connected to leads 7 and 8. Screw 9 is used to regulate the contact pressure. Guiding strip 4 is provided with hole 10 containing the auxiliary ball 11. When the sliding contact 1 is moved to the right, the ball detent 2 leaves seat 12 and having reached hole 10 (operating position of the sliding contact) slips into it partially, thereby pressing the auxiliary ball 11 to the upper bar 5 which, as it bends, makes contact with the lower bar 6, thereby connecting the external circuits,

which are attached to leads 7 and 8.

Patent Claims

The slide switch, which consists of a sliding contact, inside of which is a spring-loaded ball detent, which is used simultaneously as one of the switching-mechanism elements, a base equipped with the contact elements, and a guide strip located between the sliding contact and the base, is distinguished by the fact that in order to improve the operational reliability of the switch the guide strip is provided with a hole containing an auxiliary ball, which is pressed to the upper contact bar by the ball detent in the operating position of the sliding contact.

