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SOVIET INVENTIONS OFFERED FOR LICENSING X-380 AUTOMATIC
REMOTE SYSTEM FOR. (U) FOREIGN TECHNOLOGY DIV
WRIGHT-PATTERSON AFB OH 23 MAY 90 FTD-ID(RS)T-0513-90

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SOVIET INVENTIONS OFFERED FOR LICENSING

X-380. Automatic remote system for determining
soil moisture and snow water content

(No. 3327506 etc., 5 applications)



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HUMAN TRANSLATION

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SOVIET INVENTIONS OFFERED FOR LICENSING
X-380. Automatic remote system for determining
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PREPARED BY:

TRANSLATION DIVISION
FOREIGN TECHNOLOGY DIVISION
WPAFB, OHIO

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 з	<i>З з</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 ѐ in Russian, transliterate as yě or ě.

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.

SOVIET INVENTIONS OFFERED FOR LICENSING

X-380. Automatic remote system for determining soil moisture and snow water content

(No. 3327506 etc., 5 applications)

↓
V/O Litsenzintorg is offering a technique and equipment for automatic and remote determination of soil moisture and snow water content.*^c *The advantages of using*

Employment of this technique offers the following advantages:

are listed. A

- highly accurate, automatic, remote, on-site determination of snow water content over a range of 0-5000 mm water equivalent and soil moisture over the entire range of variation of interest at depths of 0-5 m. Accuracy in water content measurement - 5%; accuracy in measurement of soil moisture - 2%;
- an absolutely safe, environmentally friendly system, the use of which excludes direct human participation in the measuring process.

Over a period of several (5) years, the system proposed here proved to be highly reliable and demonstrated the required stability in terms of metric characteristics both under adverse high-mountain conditions and on level terrain, operating throughout at extremely low power-consumption levels.

The equipment is fabricated from commonly available integral microcircuits and electronic components and series-manufactured transceivers.

Field point ensures normal operation at temperatures of (-40) to (+40)°C. One receiving and recording center is set up for every 5-10 field points.

Radioelectronic printed circuit cards are conventionally fabricated on series production lines.

* Inquiries concerning the acquisition of licenses should be directed to V/O Litsenzintorg at the following address:

USSR 121108, Moscow. Minskaya ul., d. 11

Telex: 411415

Telephone: 145-27-00, 145-29-00.

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