L 1552-66

ACCESSION NR: AT5023628

those connected with the 11-year period of solar activity, and fast variations, with a period of the order of two weeks. The 11-year period variations grew in intensity at the rate of about 2 percent per month during the first half of 1964. During the second half of the year the intensity reached a ceiling and in October indicated a tendency to decline. These data are in fair agreement with those of the Fort Churchill and Deep River observation posts. Certain indications of a phase shift between the periods of solar activity and the intensity of cosmic rays were discerned in the sequence of monthly averages of the intensity of cosmic radiation, the relative number of solar spots, and the solar flux of 10.7-cm radio waves. These observations, however, are not considered conclusive. The shortperiod variations of radiation with a 1.5-percent amplitude periodically acquire a clearly cyclic character. The same observation was made in April 1963 by the Luna-4 interplanetary station. In general, however, the cyclicity is not very regular and the nature of these variations remains obscure. There are also indications of a 27-day period in the data for 1964. An attempt was made to correlate these periods with the sum's rotation. A regular coincidence was not observed, but in some cases (rotations 1792, 1793, and 1794) there was a fair indication of parallelism. The absence of a conclusive connection with the sun's rotation suggests the possibility that the short-period variations have a common

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origin with the 11-year variate of cosmic radiation during decupes and downs stemming from chof the region of its effective has: 4 figures.	cline of solar act langes in the cond	ivity is not mone	otonic, but display pagation or:dimensio
ASSOCIATION: none			
SUBMITTED: 02Sep65	ENCL: 00		SUB CODE: AA, SV
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L 1535-66 EVT(1)/FCC/EWA(h) GS/GW

ACCESSION NR: AT5023644

UR/0000/65/000/000/0615/0618

AUTHOR: Vakulov, P. V.

44.55

TITLE: On the influence of satellites on radiation in the radiation belts

SOURCE: Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. Moscow, 1965. Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii. Moscow, Izd-vo Nauka, 1965, 615-618

TOPIC TAGS: radiation belt, electron, proton, artificial satellite, exponential law, artificial radiation belt

ABSTRACT: The radiation belts of the earth consist of electron and proton flows which menace travelers in space. Artificial satellites may be used for destroying radiation belts. S. F. Zinger proposed this method, calling it a "cosmic broom." A satellite flying through the radiation belt absorbs electrons and protons on its surface, thus weakening the flow. A satellite traveling a long time in a closed region of space could totally absorb all electrons and protons, but this is possible only along its orbit. An attempt was made to solve this problem in a closed region of space at a given flow intensity of particles. The final result of the particle decrease obeys an exponential law which is applied to the case of the artificial

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circular orbit of radius r in the the earth could diminish the lift months instead of computed ten y same effect could be attained by than 1000 km from the earth. The state of the could be attained by	the U.S. "Starfish". A spherical ne equatorial plane at a distance of setime of electrons in the artificity ears if the diameter of the satelly launching many smaller satellites ne idea of electron absorption by stees are large enough and at suitable.	al belt to three ite is 150 m. The at distances more atellites is ap- le distances for
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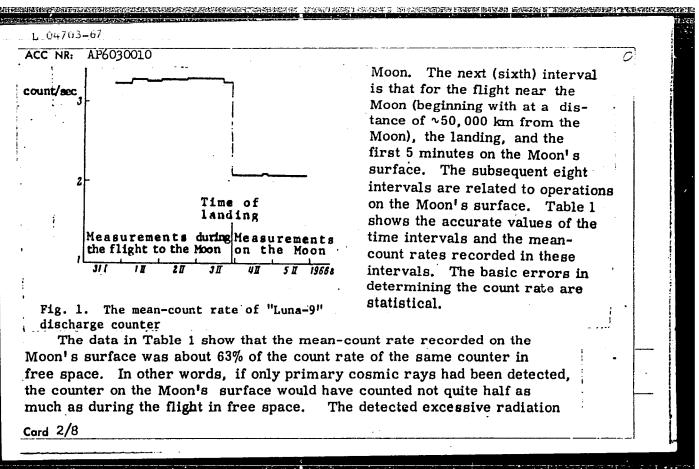
VAKULOV, P.V.; GORCHAKOV, Ye.V.; LOGACHEV, Yu.I.; CHUDAKOV, A.Ye., doktor fiziko-matem. nauk, otv. red.; ISAKOVICH, T.D., red.

[Collection of articles] Sbornik statei. Moskva, Nauka. No.6. 1965. 112 p. (MIRA 18:5)

1. Akademiya nauk SSSR. Mezhduvedomstvennyy komitet po provedeniyu Mezhdunarodnogo geofizicheskogo goda. VII razdel programmy MGG: Kosmicheskiye luchi.

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ACC NR: AP6030010	SOURC	CE CODE: U	R/0020/66/169/005/	1044/1047
AUTHOR: Vernov, S. N. (C. Logachev, Yu. I.; Lyubimo ORG:	orresponding member AN S	SSR); Vaku	lov. P. V.; Gorchal	vov, Ye. V
TITLE: Measurement of int	tensity of penetrating r	adiation or	the Moon's surfac	e 127
[Paper presented at the Se SOURCE: AN SSSR. Doklady,	• V• 109• no• 5. 1966 1	$\Omega U U = 1 \Omega U T$		13
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Luna-9 lunar probe	• •	, 2 maga	azon measurement/	Bl
	Sol	•		
ABSTRACT: The lunar probe made a soft landing on the	"Luna-9" launched by t.	ne Soviet II	nion on 30 I	70//
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shielding of the counter n	nounted inside the $prob\epsilon$	near its	jacket was ∿l gm/	cm ² .
into orbit and was here to	switched on immediately	y after "Lı	ma-9" was put	
into orbit and was kept in	operation until the prol	e stopped	functioning. The	
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		Interval boundaries	Averaging interval	Mean-count rate	Note
	31 Jan 1966	18 h 38 min 40 sec	10 h 12 min 30 sec	3.229±0.010	During the
	1 Feb 1966	04 h 51 min 10 sec 15 h 45 min 30 sec	10 h 54 min 20 sec	3.277±0.010	
•		23 h 01 min 45 sec	07 h 16 min 15 sec	3.267:0.011	
	2 Feb 1966	16 h 29 min 00 sec	17 h 27 min 15 sec	3.278±0.007	1 " []
	3 Feb 1966	15 h 34 min 15 sec	23 h 05 min 15 sec		1 1:
•		21 h 50 min 00 sec	06 h 15 min 45 sec	3.245±0.012	Near the
3 3	.	·			Moon and
r. **					on the Moon
i	4 Feb 1966	00 h 06 min 54 sec	02 h 16 min 54 sec	2.065±0.016	1 1 1
		06 h 35 min 04 sec	06 h 28 min 10 sec	2.069±0.010	1 1 :
		17 h 02 min 00 sec	10 h 26 min 56 sec	2.074±0.008	, ,
Ė		19 h 52 min 30 sec	02 h 50 min 30 sec	2.077±0.014	1 1 1
	5 Feb 1966	04 h 00 min 40 sec	08 h 08 min 10 sec	2.058±0.009	1 11
*		19 h 01 min 40 sec	15 h 01 min 00 sec	2.055±0.006	"
•	•	20 h 37 min 30 sec	01 h 35 min 50 sec	2.059±0.020	
		22 h 42 min 20 sec	02 h 04 min 50 sec	2.059±0.017	
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		nt rate during the fl nt rate on the Moon i			

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ACC NR: AP6030010

is 0.43 count/sec or ~26% of half the cosmic-ray intensity. This excessive radiation may be due to the radioactivity of the Moon's surface and to the secondary cosmic radiation produced by the primary cosmic radiation in the matter on the Moon's surface region closest to the station (cosmic-ray albedo).

Until now, no experimental data have been available on the radioactivity of the Moon's surface. The "Luna-9" measurements make it possible to evaluate the radioactivity of the Moon's surface in the landing area near the Ocean of Storms. Assuming that the total detected additional radiation is due to the radioactive gamma radiation from the Moon's surface, the radioactivity of the Moon's surface may be 20 times greater than that of the Earth's surface (the count rate of "Luna-9" from the natural radioactivity on Earth was 0.02 count/sec). However, the radioactivity on the Moon's surface has been evidently overestimated, because the effect of multiplication of the primary cosmic radiation producing the cosmic-ray albedo particle fluxes may explain the major part or even all of the additional radiation detected. Using the data from an earlier Soviet paper, it can be shown that the albedo particle flux is 20% of the total cosmic-ray flux or 40% of half the cosmic-ray flux. Additional considerations show that at least in the region of the "Luna-9" landing, cosmic rays will be the main source

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of radiation hazard and that the radioactivity on the surface of the Moon is close to the radioactivity on the surface of the Earth.

It was shown during the flight of the second Soviet space probe in September 1959 that at the distances greater than 1000 km from the Moon's surface, the intensity of the radiation trapped by a possible lunar magnetic field does not exceed 10% of the cosmic-ray intensity. The "Luna-9" data make it possible to evaluate the fluxes of the trapped radiation at distances less than 1000 km from the Moon's surface.

The mean-count rate just before and during the first minutes after the landing was 3.25 ± 0.012 count/sec (see Table 1). If this count rate is corrected for the geometric shielding of the counter by the Moon during the approach of the station to the Moon and during the period of radiation detection on the Moon's surface (this correction is about 1%), the resulting count rate is 3.28 count/sec. This practically coincides with previous measurements. The time required for the "Luna-9" to cover the last 1000 km to the Moon's surface was ~2% of the time measured in the given interval. At the measuring accuracy mentioned above, an increase of 50% in the count rate during this time interval would be noticeable.

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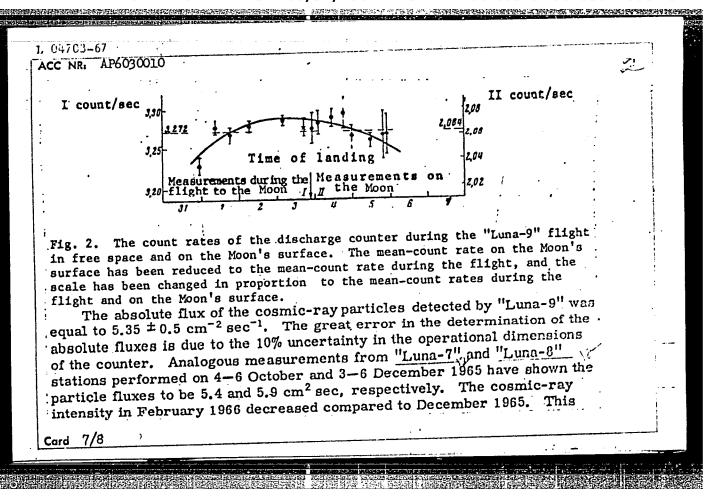
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Thus the upper limit for the possible radiation flux penetrating the "Luna-9" jacket and trapped by the hypothetical magnetic field of the Moon at the altitudes below 1000 km from the Moon's surface is not more than half the primary cosmic-radiation flux. The variation which would decrease the intensity of cosmic rays might somewhat change the evaluation of the upper limit of the hypothetical trapped radiation near the Moon, but the main conclusions that the Moon has mo radiation belts and consequently no marked magnetic field remain unchanged.

Fig. 2 shows the mean-count rates in free space and on the Moon's surface. The intensity in the transition interval has been corrected for the geometric shielding by the Moon.

It can be seen from Fig. 2 that the cosmic-ray intensity undergoes slow gradual changes (solid curve) similar to those recorded during the flight of "Luna-4. "7This makes it possible to assume that during the period of the station's approach to the Moon, no appreciable variation in cosmic-ray intensity occurred. Neither the available neutron-monitor data nor the stratospheric data of A. N. Charakhchyan and T. N. Charakhchyan (unpublished) revealed any considerable decrease in the cosmic-ray intensity.

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ACC NR: AP7001543 SOURCE CODE: UR/0020/66/171/003/0583/0586

AUTHOR: Vernov S. N. (Corresponding member AN SSSR); Chudakov, A. Ye. (Corresponding member AN SSSR); Vakulov, P. V.; Logachev, Yu. I.; Lyubimov, G. P.; Pereslegina, N. V.

ORG: Moscow State University im. M. V. Lomonosov (Moskovsky gosu-darstvennyy universitet)

TITLE: Cosmic ray variations according to data from Zond-3 and Venera-2

SCURCE: AN SSSR. Doklady, v. 171, no. 3, 1966, 583-586

TOPIC TAGS: cosmic ray, cosmic ray intensity, cosmic ray measurement

ABSTRACT: At the end of 1965 and beginning of 1966 two Soviet space stations, Zond-3 and Venera-2, were in space simultaneously measuring cosmic ray intensity. The first was in motion away from the Sun and the second toward the Sun, which made it possible to determine both variations in the intensity of cosmic rays and their dependance on the distance from the Sun (i.e., their radial gradient). Data obtained by STS-4-type gas-discharge counters onboard the spacecraft revealed the radial gradient as $\delta = (3.1 \pm 0.4)\%$ per 1 astronomic unit. The radial

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gradient was irregular; this phenomenon was attributed to changes in the character and magnitude of the Forbush effect. Detectors of the n-p type onboard the space stations measured the radial gradient of protons with energies of 1—5 Mev. In addition to a sharp temperature increase, the detectors revealed a very stable and time-independent noise which exceeded by about 10 times the possible noise of high-energy particles. It was also found that the intensity of protons increased in moving away from the Sun. When the distance from the Sun was increased from 130 x 10° to 190 x 10° km, the intensity of 1—5-Mev protons, whose origin is known to be solar, increased 5 times. A mechanism is proposed for explaining this paradox. The nature of the radial gradient may possibly be explained by Parker's diffusion theory.

[WA-75]

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SOURCE CODE: UR/0020/66/171/004/0847/0850 ACC NR: AP7001894 AUTHOR: Vernov, S.N. (Corresponding member AN SSSR); Chudakov, A.Ye. (Corresponding member AN SSSR); Vakulov, P.V.; Logachev, Yu.I.; Lobimov, G.P.; Mikolayey, A.G.; Perslegina, N.V. ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvenny universitet) TITLE: Measurement of solar protons with energies of 1-5 Mev by the Venera-2, Venera-3, and Zond-3 space probes AN SSSR. . Doklady, v. 171, no. 4, 1966, 847-850 SOURCE: solar radiation, solar radiation intensity, proton counter TOPIC TAGS: ABSTRACT: During the flights of the Zond-3, Verena-2, and Venera-3 space probes, the counting rate of proton detectors and Geiger counters on board increased markedly on six occasions. The semiconductor surface-barrier proton detectors had an area of about 0.2 cm²; the p-n junction was 35 μ thick. On the side of free space within a solid angle of ${}^{\circ}l$ sterad, the detectors were shielded with 2 mg/cm2-thick aluminum foil; on other sides the shielding was more than 1 g/cm² thick. The detectors were tuned to record protons with energies varying from 1 to 5 Mev. The intensity range measured corresponded to 1.1 x 10-3 to 1.1 pulse/sec. Card 1/2 UDC: none

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SAMOKHVALOV, G.I.; MIROPOL'SKAYA, M.A.; VAKULOVA, L.A.; PREOBRAZHENSKAYA, N.A.

Ionones

Complete synthesis of pseudo-ionone, ionones, geraniol, and nerol. Dokl. AN SSSR 84. No. 6, 1952.

Monthly List of Russian Accessions, Library of ongress, October 1952. UNCLASSIFIED.

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Vakulova, L. A.

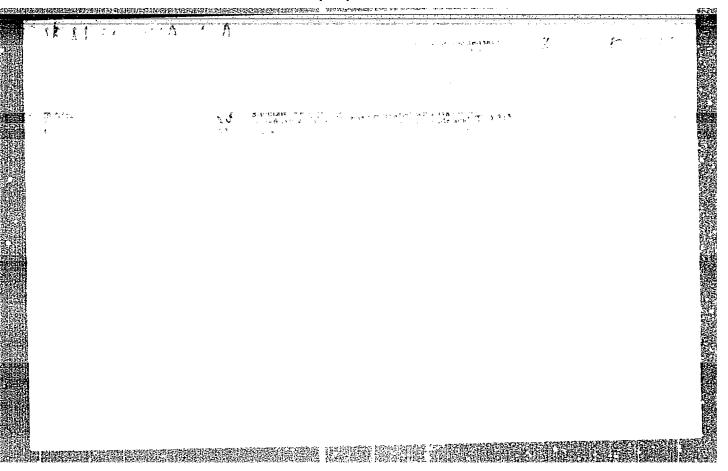
Chemical investigations in the field of vitamin A. I. Structure of the condensation products of β-ionone with γ-bramocrotonic scid esters by the Reformatikil reaction Q. I. Samochyatav, H. A. Miropol skaya, L. A. Vakulova, and N. A. Preobradienskil. Trady. Viessyer. Nauk. Interoval Vitamin. Intl. 4, 5-10 (1933). -The Reformatskil reaction of β-ionone (ng. 1, 5192), parified theorems sent carbazone, m. 146°) and BrCH₃. CHCO_R in the course of the Dorp and Arens synthesis of vitamin A proceeds through R'CH-CHCMe(OZuBr)CH₃CH₃. CHCO_R (I), where R = 6.6 dimethyl-1-cycloheren 1-yl, which is readily decompdito R'CH-CHCMe-CHCH-CHCO_R (II). On standing, the CaH₄ soln yields a yellow-green (pt. consisting of an org. complex contg. Za Za 31 7 Br 38 4, and the org residue 19.2%, resp.) which polymerizes on vacuum data. I treated with dil. AcOlf hydrolyzes to an ester (IV) which sapond to II (R = Me) in. 101.5-2.5°, absorption max 24 IV by chromatography through an AhO₁ column was shown to be nonhomogenous. [II]. Synthetic reactions in the field

of polyenic compensate with the sid of metal organic derivatives of alkozyrinyl acotylenes. G. I. Samokhvalov, I. A. Rubtsov, M. A. Miropol'skaya, and N. A. Preobrasher kil., 1042–10, 13–18, the method by A. A. Petrov (1.4, 15, 3593°) RCH₂CH CMeCHO I. (R = Me₂C, H.

CH, CH, CMe C : was condensed with LiC CC('.',t).

CH₂ (II) to give RCl - 'I:CMeCH(OH)C:C (fEt):-CH₂ (III) which with U, H,SO₄ in alc yielded RCH:-CHCMe:CHC:CAc (IV); iemicardizone, m. 200-12. The conjugated system of the unsatd, bonds of IV is shown by a characteristic ultraviolet absorption max, at 384 mg (log s = 4.17). Upon hydrogenation of the acetylenic group of IV the compt. RCH CHCMe CHCH CHAe IV contained which was used for the synthesis of victamia A sit by treatment with BrMgC:COEt to give RCH:CHCM CHCH CHCMe(OH)C.COEt from which was producted to the compt. The mechanism of the real to of polyenic carbonyl compds, with metal-org, derive an alkoxyvinylhectylenes to form new polyenic conjugated.

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VAKULOVA, L. A.

USSR/ Physics - Spectral analysis

Card 1/1

Pub. 43 - 30/62

Authors

Slovokhotova, N. A.; Samokhvalov, Gl. I.; Miropol'skaya, M. A.; Vakulova, L. A.; Zhukova, L. P.; and Preobrazhenskiy, N. A.

Title

Spectroscopic investigation of the mechanism of condensation reaction of beta-ionone with ethyl ether of gamma-bromocrotonic acid

Periodical : Izv. AN SSSR. Ser. fiz. 18/6, 692-693, Nov-Dec 1954

Abstract

The products of beta-ionone condensation with esters of gamma-bromo-crotonic acid were investigated in a benzene solution under the effect of metallic zinc. It was established that the reaction is concluded by total dehydration and formation of unsaturated ester. The product of beta-ionome reaction with ethyl ether of gamma-bromocrotonic acid was subjected to rectification in vacuo and the properties of the 22 fractions obtained therefrom are described. The basic condensation product was found to be an unstable ester, a product of anionotropic regrouping and dehydration of the intermediate hydroxyester. Graph.

Institution: The L. Ya. Karpov Phys-Chem. Inst.

Submitted :

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Amonotropic and prototropic rearrangements in the synthesis of polyene compounds. G. I. Samokivalov, M. A. Miropol'skaya, L. A. Vakulova, L. P. Zhukova, N. A. Sloveokhotova, G. A. Samokivalov, M. A. Preobrazhenski (All-Union Vitamin Sci. Research Inst., Moscow). Deblody Abad. Nowk S. S. R. 99, 271-48 1954).— \$\text{\text{B}}\-\text{-lonone}\text{ with Br. CH_CH_CH_CO_R}\text{ in the presence of Zn gave, an unual ester (cf. Heilhron, ct. al., C. A. 41, 710c) which has a wide absorption band 290 324 mg. Hydrolysis of the ester gave a most of acuts as an on which visited \$\text{\text{A}}\-\text{\text{T}}\-\text{\text{od}}\-\text{\text{ct.}}\-\text{\text{ct.}}\-\text{\text{od}}\-\text{\text{od}}\-\text{\text{ct.}}\-\text{\text{d}}\-\text{\text{od}}\-\text{\text{ ant of the cis isomer, in 140 11. If the argin its factor ester mixt is fractionated at 11 mm, into americal explaints fractions, some 20.0% of the product is 3-tonone, and some 40% is material, at \$1.5305, absorption max 285 mµ, which is different from the Me ester formed from CH₂N₃ and cryst \$\theta\$-ionylidencerotonic acid. The product thus isolated undergoes isomerization simultaneously with sapon, on treatment with bases; the isomerization is shown in the absorption spectra by a 30-mµ shift toward the longer was ansead by increased length of the conjugated system. While part of the product, treated with bases, undergoes sapon, part is trans increased length of the conjugated system. While part of the product, treated with bases, undergoes sapon, part is transformed into another substance which is more resistant to by drilysis and eventually yields some 5-ionvilidence training acid. Hence the latter is formed only after isonicrization acid. Hence the latter is formed only after isonicrization (base-catalyzed) of unstable products isolated by the fractional district. The acid isolated by hydrotysis of the ester of transform in the fractional district. The acid isolated by hydrotysis of the ester of transform in the fractional district. The acid isolated by hydrotysis of the ester of transform in the fractional district. The acid isolated by hydrotysis of the ester of transform in the fractional district. The acid isolated by hydrotysis of the ester of transform in the fractional district. The acid isolated by hydrotysis of the ester of transform in the first the end of the first transform of the Hither transform o

is decisionly differ at from Me exter of the inhythlenecratomic acid. It is suggested that the principal communent of the extens formed in the initial reaction of ionome is the principal of an allylic shift and dehydration of the initially forre an arrive since and conjugation is to be restricted at HO acid, although the infrared spectrum had the first of the first one of may be caused by the CO grown at the inch as RO-CCH CHCM-CH-CH-CH of the infe chain. such as ROCCH CHCMeCH₂CH of the safe chain to busher-boiling fractions of the original relation product to pear to be a mixt of a product of further protecting shift and the product described above. This is indicated by the atmosphere may be 15.5 and 16.5. This is indicated by the atmosphere may be 15.5 and 16.5. While it is indicated by the control of the product of the produ tonger wave-length region. When all these tractions in drogenated over Pt and hydrolyted, all give the same is as is formed from ervet. B-lonylideneerutonic acid, thus acid yields the pseudothouronium salt, m. 149-9.5. Thus the Reformatskil reaction with s-longue leads not only to forma-Reformatskil reaction with g-lonous leads not only to formation of exters of a 110 and, but also to isomerization and mag clion of the Helici the end of the consugated shain bound by behindration, righting an exter with a methylogroup between systems of double books. To directly bases or heating during distribution chain, thus yielding not occurred to transport the conjugation chain, thus yielding not occurred to transport the conjugation chain, thus yielding not occurred to transport the conjugation chain, thus yielding not occurred to transport to the conjugation chain, thus yielding not occurred to transport to the conjugation chain, thus yielding not occurred to the conjugation of the conjugation continued to the conjugation of the conjugat

SAMOKHVALOV, G.I.; MIROPOL'SKAYA, M.A.; VAKULOVA, L.A.; PREOBRAZEHNSKIY, N.A.

Full synthesis of pseudoionone. Zhur.ob.khim. 25 no.3:545-550 Mr '55 (Pseudoionone)

(MLRA 8:6)

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VAKULOVA, L. A.: Master Chem Sci (diss) -- "Synthetic investigations of the carotenoid compounds". Moscow, 1959. 12 pp (Min Higher Educ, Moscow Inst of Fine Chem Technology im Lomonosov), 150 copies (KL, No 9, 1959, 113)

sov/79-29-6-37/72 Samokhvalov, G. I., Vakulova, L. A., AUTHORS: Mayranovskiy, S. G., Luk yanova, L. V.

Synthetic Investigations in the Field of the Polyene Compounds (Sinteticheskiye issledovaniya v oblasti poliyenovykh soyedineniy). TITLE: XIV. The Direction of Hydration of the Acetylene Bond in a Moleoule Containing a Diene System Conjugated With the Carbonyl Group (XIV. Napravleniye gidratatsii atsetilenovoy svyazi v molekule, soderzhashchey diyarimovnyu sistemu, sopryazhennuyu s karbonil'noy gruppoy)

khimii, 1959, Vol 29, Nr 6, PERIODICAL: Zhurnal obshchey pp 1936 - 1945 (USSR)

ABSTRACT: A considerably large group of oxygen-containing carotenoids belongs to the natural polyene pigments. Mixoxanthin, which has a vitamin-A effect occurs in marine invertebrates and marine algae. Its structure has not yet been investigated in detail. Beside the A -ionone ring and the polyene chain, characteristic of the carotenoids, it has a cyclic or an aliphatic grouping with a carbonyl group in position 4 (formula (I) or (II)). In synthesizing this part of the molecule of mixoxanthin the authors tried to bring Card 1/3 about the hydration of 3,7-dimethyl octadiene-2,6-in-4-al accord-

Synthetic Investigations in the Field of the Polyene SOV/79-29-6-37/72 Compounds. XIV. The Direction of Hydration of the Acetylene Bond in a Molecule Containing a Diene System Conjugated With the Carbonyl Group

ing to the scheme 1((III \rightarrow (IV) \rightarrow (V)). In this connection an explanation of the process of hydration is given (Refs 5-8). The synthesis of compound III was carried out according to scheme 2. This hydration was carried out in an aqueous solution of methanol of mercury sulphate with careful heating. The absence of the color reaction with iron chloride in the hydration product indicates the formation of (IV) of (V). From this product a crystalline semicarbazone with a melting point of 152-1530 was obtained which according to its composition corresponds to the keto aldehyde $C_{10}H_{14}O_{2}$ ° For the purpose of comparing the optical and polarographic properties of this compound the keto aldehyde (XI), with already determined position of the carbonyl groups, was synthesized and its semicarbazones at the aldehyde group (XII) were obtained (melting point 197-1980) with a certain position of the semicarbazone residue at the keto group (XIV) (Scheme 3). The comparison of the ultraviolet absorption spectra of the semicarbazone of the keto aldehyde C, H, 402 (Figs 1,2) as well as the polarographic comparison of the two compounds indicate the same

Card 2/3

Synthetic Investigations in the Field of the Polyene SOV/79-29-6-37/72 Compounds. XIV. The Direction of Hydration of the Acetylene Bond in a Molecule Containing a Diene System Conjugated With the Carbonyl Group

structure with respect to the position of the carbonyl groups (Fig. 3). Thus, 3,7-dimethyl octadiene-2,5-on-4-al (V) in the case of which all compounds contained are conjugated, is formed in the hydration of the triple bond in the molecule (III) containing a diene system conjugated with the carbonyl group. The infrared absorption spectra taken confirm the conclusions drawn. The authors thank N. A. Preobrazhenskiy for the interest he showed in the investigations. There are 5 figures, 1 table, and 18 references, 6 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel skiy vitaminnyy institut (All-Union Scientific Research Institute for Vitamins)

SUBMITTED: April 14, 1958

Card 3/3

5(3)

SOV/79-29-8-25/81

AUTHORS:

Samokhvalov, G. I., Vakulova, L. A., Men, T. V., Zhikhareva, L.T.,

Koltunova, V. I., Preobrazhenskiy, N. A.

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TITLE:

Synthetic Investigations in the Field of Polyene Compounds

XV. A Complete Synthesis of Citral

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2575-2578

(USSR)

ABSTRACT:

Citral is the initial product for the synthesis of vitamin A, the carotinoids, and a number of fragrant substances. The transition of compound (I)* which was also synthesized by the authors, from acetone and acetylene (Refs 1,2,3) to citral has so far been carried out by condensation with magnesium bromoethoxy-acetylene, partial hydrogenation, and saponification of the resultant 1-ethoxy-3,7-dimethyl-octadien-2,6-ol-3 (Ref 4), as well as according to reference 5. In the present paper the synthesis of citral from (I) is carried out without organo-metallic compound according to the given scheme. Otherwise, compound (II) is formed when using the easily accessible tetraethoxy-silane in the presence of orthophosphoric acid, a small quantity of p-toluene-sulfonic acid, and 0.3 mole of

Card 1/2

*(I): 6-methyl-heptene-5-one-2.

SOV/79-29-8-25/81

Synthetic Investigations in the Field of Polyene Compounds. XV. A Complete Synthesis of Citral

> alcohol per 1 mole of initial ketone (95-97%) (Ref 6). The authors investigated the reaction of the ketal (II) with the ethyl-vinyl ether under the influence of the catalysts ZnCl2 and $4BR_3.3(C_2H_5)_2O.$ $ZnCl_2$ was found to give less side products on condensation, and to produce compound (III) in a 60-65% yield. In the subsequent saponification reaction, under separation of one molecule of alcohol, citral is formed under the influence of a 15% sodium-acetate solution and acetic acid for 30 min at 108-1100. The yield is 42-45%. A prolonged reaction time causes an autocondensation of the citral. The purification of citral is carried out via its bisulfite derivative. There are 1 figure and 9 references, 4 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut (All-Union Scientific Institute for Vitamin Research)

SUBMITTED:

July 14, 1958

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Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858420004-9"

SAMOKHVALOV, G.I.; DAVYDOVA, L.P.; ZAKHARKIN, L.I.; KHORLINA, I.M.; VAKULOVA, L.A.; ZHIKHAREVA, L.T.; PREOBRAZHENSKIY, N.A.

AND DECIDENT OF THE PROPERTY O

Synthesis studies in the field of polyene compounds. Part 17: New synthesis of retinal or 9,13-dimethyl-7-(1,1,5-trimethyl-cyclohexen-5-yl)-7,9,11,13-nonatetraen-15-al. Zhur.ob.khim. 30 no.6:1823-1828 Je '60. (MIRA 13:6)

1. Vsescyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Nonatetraenal) (Olefins)

VAKULOVA, L.A.; FOKINA, L.N.; FRADKINA, T.S.; LUK'YANOVA, L.V.; SAMOKHVALOV, G.I.

Pyrophosphoric ester of 3-methyl-2-buten-1-ol.
Dokl. AN SSSR 147 no.1:103-105 N '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut. Predstavleno akademikom M.I. Kabachnikom. (Pyrophosphoric acid) (Butenol)

VEYNBERG, A.Ya.; VAKULOVA, L.A.; SAMOKHVALOV, G.I.

Complete synthesis of D-erythro-1-f-lactosyl-N-palmitoylsphyngosine, a component of cytolipin H. Zhur. VKHO 9 no. 3:348-350 '64.

(MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

VAKULOVA, L.A.; KUZNETSOVA, V.P.; KOLOT, F.B.; BAB'YEVA, I.P.; SAMOKHVALOV, G.I.

Rapid method of quantitative determination of \$-carotene in microorganisms. Mikrobiologiia 33 no.6:1061-1064 N-D 44.

(MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

VEYNBERG, A. Ya.; VAKULOVA, L.A.; MAYRANOVSKIY, V.G.; SAMORHVALOV, G.1.

Sphingosine and its natural compounds. Part 1: Conversing of three-sphingosine to its erythro derivatives. Zhur. cb. khim. 34 three-sphingosine to its erythro derivatives. [p.1RA 18:1] no.12:3979-3982 D 104

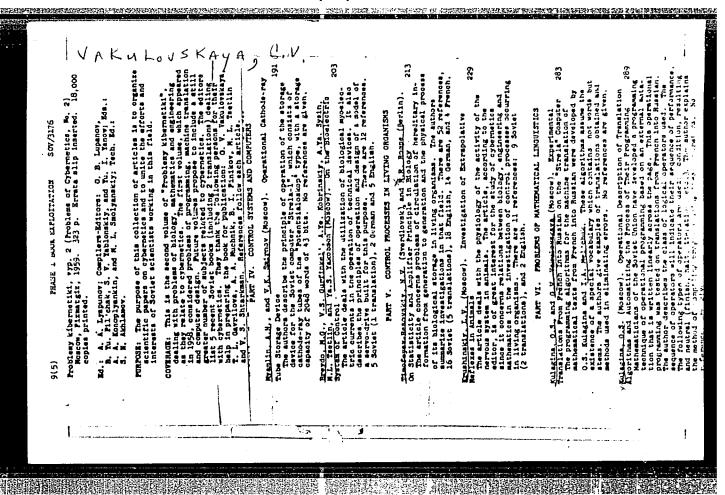
1. Vsesoyuznyy nauchno-issledovateliskiy vitaminnyy institut.

KOLOT, F.B.; VAKULOVA, L.A.; GOL'DAT, S.Yu.; SAMOKHVALOV, G.I.

Refrect of different light sources on the carotenoid formation by Penicillium sclerotiorum, Mikrobiologiia 34 no.42627-630 Ulmig (MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel akry vitaminnyy institut.

Ĩ	ACC NR: AP7003115 MAYRANOVSKIY, V. G., FOKINA; L. N., VAKULOVA, L. A., SAMOKHVALOV, G. I. MAYRANOVSKIY, V. G., FOKINA; L. N., VAKULOVA, L. A., SAMOKHVALOV, G. I. MOSCOW, Zhurnal Obshchey Khimii, Vol 36, No 7, 1966, pp 1345-1346 TOPIC TAGS: phosphoric acid, ester, polarographic analysis Abstract: It was found that certain organic phosphates give distinct polarographic reduction waves in the region of extremely negative potentials, if solutions of quaternary ammonium salts in dimethylformamide are used as the solutions of quaternary ammonium salts in dimethylformamide are used as the solutions of rimudayl, triethyl, tripropyl, trisopropyl, tributyl, triphonyl, tri-o-cresyl, tribenzyl, diphenylbenzyl, and dibenzyl phosphates were studied with a dropping moreury electrode. With the exception of the trialkyl phosphates, which are not detected on the polarogram in an accessible potential region, the which are not detected on the polarogram in an accessible potential region, the triostors of phosphorus acids generally give one reduction wave; in the case of tribenzyl phosphate, a second wave is visible before the discharging of the tribenzyl phosphate, a second wave is visible before the discharging of the background. It is proposed that the polarographic activity of the phosphates is due to electrochemical cleavage of the C-O or P-O bond. The triesters of phosphoric acid are arranged in the following series with respect to ease of electrochemical reduction: trialkyl phosphates < triphonyl phosphate < tri-benzyl phosphate. Orig. art. has: 2 formulas and 1 table. [JPRS: 38,970]	
	SUB CODE: 07 / SUBM DATE: O2Dec65 / ORIG REF: CO1 / OTH REF: CO1	·
	Card 1/1 36 UDC: 547.26'118 0705 207/	



EUIAGINA, O.S. (Moskva); VAKULOVSKAYA, G.V. (Moskva)

Experimental translations from French into Enssian on the "Strela" machine, Probl. ktb. no.2:283-288 '59 (MIRA 13:3)

(Machine translating)

30383

S/582/61/000/005/010/012 D222/D306

9,7000

AUTHORS: Vakulovskaya, G. V., and Kulagina, O. S. (Moscow)

TITLE:

Machine translation from French into Russian. III.

Description of the program

SOURCE: Problemy kibernetiki, no. 5, Moscow, 1961, 245-262

TEXT: This is the third part of a series of papers by Kulagina and her associates (Ref. 1: Problemy kibernetiki, no. 3, 1960; Ref.2: Problemy kibernetiki, no. 4, 1960) on their French-Russian translation program. This part gives some details of the programming task and should be read in conjunction with part II (Description of the algorithm). The program is written for the "Strela" computer. Its size is about 8500 instructions and 2000 words of tables and constants; it is divided into 17 independent routines. The first routine looks up the words in the dictionary. For the dictionary lookup the words of each sentence are rearranged in alphabetical order. Their original sequence in the sentence is preserved in the form of a table, the so-called table of correspondences (TC). Each word

Machine translation from French ...

30383 S/582/61/000/005/010/012 D222/D306

has one line in this table. Dictionary look-up is based on logical multiplication. First the stems are compared, the remaining digits are eliminated by a shift operation. An empty word after this shift indicates that the correct stem has been found. The dictionary information of the word is transferred to a preassigned location of the memory. Mistranslations can occur if a word which is not included in the dictionary matches by chance the stem of another word. The second routine processes the idioms. This is again based on a dictionary of idioms. The information obtained from this dictionary replaces in the TC the original information of the corres. ponding words. The third routine prepares for analysis of the sentence by rearranging and recoding the information on the words. The original order of the words in the sentence is now restored. This routine prepares also the so-called logical scales of the sentence. These scales are words with marker bits, each bit corresponding to one word of the sentence. Such scales are constructed to mark the position of nouns, formulae, punctuation, etc. in the sentence. During the analysis these scales are used in conjunction with a "running unity", i.e. a marker bit is moved along a word as the Card 2/4

30383

Machine translation from French ...

S/582/61/000/005/010/012 D222/D306

analysis proceeds, doing logical multiplication with the bits of the scales. The fourth routine deals with the morphological processing of verbs, nouns and adjectives. This routine uses the table of endings; there are 12 such tables. The routines five to seven deal with the resolution of homonymy. The division into three parts is due to their length. The fifth routine processes those cases when one of the homonyms is a verb; pronoun-preposition homonymy, noun-adverb homonymy; and so on. This processing involves several passages through the sentence. Routines six and seven work similarly. Routines eight to twelve deal with the analysis. They obtain data on the form and location of the translation of each word and place these into the scales and into the information of the French words. The thirteenth routine selects the words from the Russian dictionary according to the translation numbers obtained from the French information. Routine fourteen completes the final processing of adjectives, participles and verbs in past tense. This can be done only when the Russian information has been selected. This routine also changes the word order in the French sentence, if necessary. The last three routines, fifteen to seventeen, deal with the synthesis. Routine fifteen selects the stems of verbs, nouns Card 3/4

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Machine translation from French ...

and adjectives. Routines sixteen and seventeen complete the processing of Russian words. Routine seventeen also prints the resulting sentence. There are 4 figures, 1 table and 2 Soviet-bloc references.

SUBMITTED: September 10, 1959

Card 4/4

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858420004-9"

S/582/62/000/008/010/013 D405/D301

AUTHORS: __Vakulovskaya, G. V. and Kulagina, O. S. (Moscow)

TITLE: On machine translation from French into Russian. IV.

Experimental results and analysis of errors

SOURCE: Problemy kibernetiki. no. 8. Moscow, 1962, 253-291

TEXT: Work done in machine translation from French into Russian is summed up. The main results are listed and the translation errors are analyzed. The texts selected for translation were from works on mathematical analysis by Picard, Cartan and Bourbaki. Prior to introducing the texts into the machine, they were altered in two respects: Complex sentences of more than 43 words were broken up into parts (as the routine provided only for the processing of sentences not longer than 43 words); some words were replaced by others so as to match the text with the dictionary available. The translation errors committed by the machine were divided into 4 groups: A) Errors due to the incompleteness of the algorithm used, i.e. errors which could be eliminated by supplementing and

Card 1/3

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On machine translation ...

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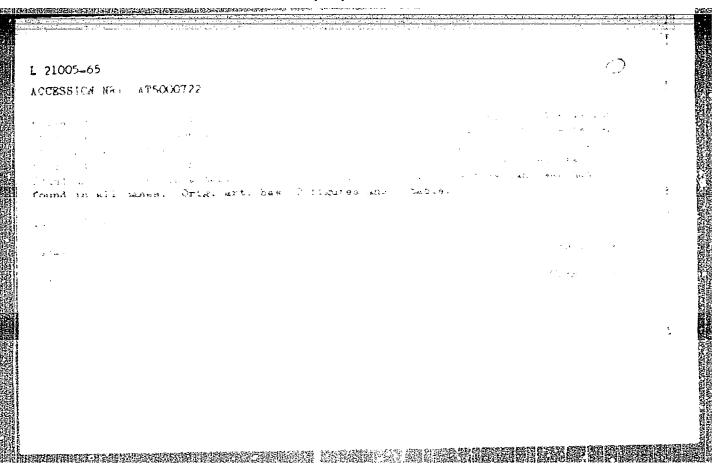
refining the available algorithm. B) Errors which could not be eliminated by modifying the algorithm (e.g. syntactic structures of double meaning). C) Errors resulting from preceding errors. D) The translation does not render the meaning exactly, although the Russian sentence is grammatically correct. The machine translation consists of the following stages: Search for words in the dictionary; this amounts to finding for each word the longest stem, entirely contained in this word. Since the available dictionary was limited (about 1200 words), it often happened that so-called "non-provided for" words were met, i.e. words for which a stem was lacking. In the second stage, the machine processes complex sentences, i.e. it searches for the word groups which are not literally translated. The third stage consists in the resolution of homonyms. Then follows the analysis of the parts of speech and, finally, the synthesis (the construction of the Russian sentence). The errors committed at each of these stages are analyzed. The authors arrive at the following general conclusions about machine-translation algorithms: Such algorithms should be constructed in a certain gradation, with each algorithm containing a very general

Card 2/3

On machine translation ... S/582/62/000/008/010/013

part (which does not even depend on the language for which it is constructed), a part which depends on the language, but not on the special field of the translation, and a part which depends both on the language and on the field. The relationship between these parts and storage capacity (of the various memories) of the machine. The dictionary should be matched to these principles.





VAKULOVSKAYA, G.V. (Moskva); KULAGINA, O.S. (Moskva)

A method of analysis of texts. Probl. kib. no.12:233-237 '64.

(MIRA 18:6)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858420004-9"

AUTHOR Shreyner S. A. Zurus et la Skar I. A. Verassage I. I. Z. TITLE Effect of Cherk and process are secured to a Company of the Source Kolloidny*v zhurnal. v. 26. no. 5. 1964 629-632 TOPIC TAGS on which is a first of the security of th				11
SOURCE Kolloidny*v zhuenal v 26 no 5 1964 629-632 TOPIC I VOS er v	करित मुख्यम्बर, भूम । १०४० १०४	· · · · · · · · · · · · · · · · · · ·		
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VAKULISKI, N.

Shoulder to shoulder with other people. Rab. i sial. 39 no.7:8-9 Jl 163. (MIRA 16:11)

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ACC NR: AT5020473 (A) SOURCE CODE: UR/0000/65/000/0009/0073

AUTHOR: Vakul'skiy, A. A. (L'vov); Fedchishin, A. S. (L'vov)

ORG: none

TITLE: Transient processes in magnetic induction receivers due to primary field pulses

SOURCE: AN UkrSSR. Teoriya i elementy sistem otbora geofizicheskoy informatsii (Theory and elements of systems for selecting geophysical information). Kiev, Naukova dumka, 1965, 69-73

TOPIC TAGS: magnetic field measurement, eddy current, prospecting

ABSTRACT: The paper compares the effect of two such processes: one arising in a buried conductor (i. e., α = an ore body) and the other, in the magnetic receiver. Such processes are induced in the conductor whenever the primary field is suddenly changed, e.g., when the current is shut off. The method of transient processes is based on transient phenomena caused by eddies created in the current. Eddies in the magnetic receiver cause distortions in the signals received. The tentative conclusion reached is that the time interval of the change in the useful signal may be rationally selected from a family of curves. Orig. art. has: 2 figures, 18 formulas.

SUB CODE: C8,14/ SUBM DATE: 10Nov65/ ORIG REF: 003

Card 1/1

s/271/63/000/003/005/049 A060/A126

AUTHORS:

Borukhov, M.Yu., Vakulyuk, A.P., Ivashev, V.N., Tsoy. T.G.

TITLE:

New types of radio-isotope relays and level indicators

PERIODICAL: Referativnyy zhurnal, Avtomatika, telemekhanika i vychislitel'naya tekhnika. no. 3. 1963. 28. abstract 3A153 (In collection "Voor. tekhnika, no. 3, 1963, 28, abstract 3A153 (In collection "Vopr. sovrem. fiz. i matem.", Tashkent, AN UZSSR, 1962, 65 - 77)

The paper describes new relay networks developed at the AN UZSSR, TEXT: which make it possible to extend considerably the domain of relay application, in particular giving the means for determining the deviation of a parameter in either direction from a specified value, for maintaining a prespecified relationship between engineering parameters, and so on. The authors analyze the operation of a differential radio-isotope relay and a three-position relay. A mathematical designing method is given for the operation of a network for the case of controlling the thickness of a material and which permits of finding the minimum activity for the radiation source ensuring the reliable operation of the radio-isotope relay us are thickness deviations of the material exceeding the ad-

Card 1/2

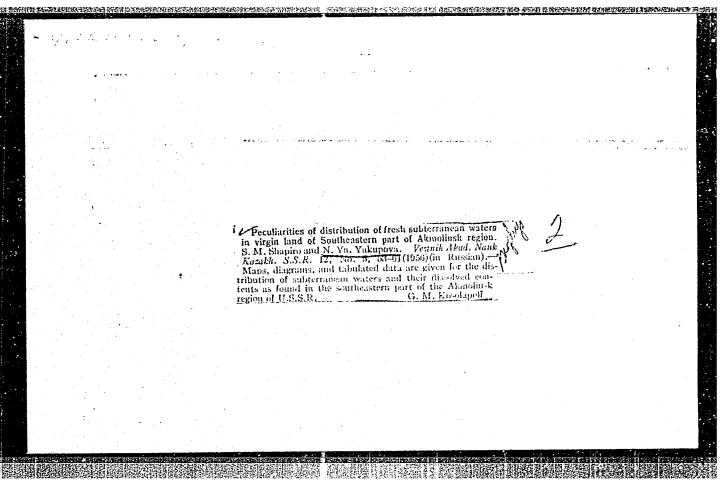
New types of radio-isotope relays and level indicators A060/A126

missible values. A network is described of a radio-isotope, multi-position level-indicator distinguished by the fact that, regardless of the number of positions, it has only two amplifier channels located in a single electron tube. The reduction in the number of amplifier channels became possible through the inclusion in the instrument of a stepping switch operating in the stepper mode. On both sides of the vessel in which the level of the contained medium is being measured at every interval of probable values of the level, radioactive sources and counters are set up opposite to each other. The stepping action of the relays is continued until a difference is discovered in the degree of irradiation of two neighboring receivers. A sharp difference in the degree of irradiation of two adjacent receivers is observed in the case when the level of the filling medium is between these receivers. The difference in the signals causes the operation of the relay connected between the plates of a DC bridge rectifier. There are 5 figures.

A. V.

[Abstracter's note: Complete translation]

Card 2/2



VAKURO, YEJG.

VACURO, Ye.G.

[Complex forms of the behavior of the anthropoid, based on the formation of distant visual temporary connectors] O sloshnykh formakh povedeniia antropoida, osnovannykh na obrazovanii distantnykh (zritel'nykh) vremennykh sviazei. Tr.Fiziol.laborat. Pavlova 16:76-85 '49. (CIML 19:1)

1. Of the Institute of Evolutionary Physiology and Pathology of Higher Nervous Activity imeni Academician I.P.Pavlov of the Academy of Medical Sciences USSR (Director -- Academician L.A. Orbeli)

VAKUROV, I., polkevnik

On the steep slopes of the Dnepr. Voen.znan. 40 nc.ll:12-13 N 162.
(MIRA 18:1)

VAKUROV, I., polkovnik

Twentieth anniversary, Voen. Znan. 41 no.5:2-9 My '65. (MIRA 18:5)

VAKUROV, I., polkovník		
Symphony. Voen.znan. 41 no.11:8-9	9 N '65. (MIRA 18:12)	

ILPATENKOV, Ivan Vasil'yevich; KAPRALOV, Mikhail Karpovich; BITUNOV, Yevgeniy
Ivanovich; VAKUROV, Konstantin Viktorovich; KUZOVSKIN, Konstantin
Sergeyevich; PAVLOV, Leonid Vasil'yevich; KLOCHKOV, Ivan Bikitich;
ZHITS, Margoliya Isayevna; KHROMOV, Vasiliy Vasil'yevich; LIPSHITS,
U.V., redaktor; KOPRIEVICH, Ye.I., redaktor; DMITRIYEVA, N.I.,
tekhnicheskiy redaktor

[Assembling and adjusting mechinery of looms with picker sticks; work practices of foremen and assistants in the Monin worsted mills] Ustanovka i naladka mekhanizmov tkatskikh stankov s verkhnim boem; obobshchennyi opyt raboty masterov i pomoshchnikov mastera Moninskogo kamvol'nogo kombinata. Pod red. N.V.Lipshitsa. Moskva, Gos.nauchnotekhn.izd-vo M-va legkoi promyshl.SSSR, 1957. 109 p. (MIRA 10:9) (Looms)

VAKUROV, I., polkovnik

Bykov makes the decision. Voen. znan. 40 no.6:10-11 Je '64.

(MIRA 17:7)

	ROU, K.K.
VAKUR	ov, K.K., inzh.
	New rules for the installation and safe operation of hoists. New rules for the installation and safe operation of hoists. (MIRA 10:11) Bezop.truda v prom. 1 no.10:37-38 0 '57. (Hoisting machinery)

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·VAKUROV, P.S.

Chemical Products and Their Application -- Treatment of natural gases and petroleum. Motor fuels. Lubricants, USSR/Chemical Technology.

X-13

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5575

Author: Klimov, K. I., Vakurov, P. S.

Institution: None

Title: Yield Strength and Performance of Lubricants in Rolling Bearings

Publication: Novosti neft. tekhniki. Neftepererabotka, 1955, No 6, 37-44

To investigate the throw-off of solid lubricants from separators of tapered roller-bearings, use was made of a thermostatic testing stand Abstract:

with four No 807813 bearings subjected to an axial load of 100 kg. By revolving the shaft of the bearings at different speed, 450-1,500 RPM (at 20 \pm 10), and at different temperature, within the range of 20-900 (at 600 RPM), a determination was made of the critical velocity or temperature, respectively, at which the lubricant begins to fly off the separator of the bearing. Duration of the test at a given

Card 1/2

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of natural gases and petroleum. Motor fuels. Lubricants, I-13

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5575

crease in Tstrength.

Abstract: temperature and speed of rotation was of 80 minutes. Tests of commercial solid lubricants (fatty and synthetic Solidols, 1-13 lubricant, TsIATIM-201) revealed that beginning of throw-off corresponds to definite critical values of inertia forces acting upon the lubricant located on the separator, and is determined by the value of the yield strength of the lubricant. At temperatures >35° the correlation between yield strength to shearing at temperature of throw-off, throw-off, and shearing stress within the lubricant layer at surface of the separator, τ_{p_0} , is given by the equation: $\tau_{strength}^{throw-off} = 4\tau_{p_0}$. Low value of the stress that brings about throw-off of the lubricant is attributed to lowering of $\tau_{strength}$ of the lubricant at the boundary with a smooth solid surface, as compared with its value in the bulk. On using separators having a corrugated surface the capability of the lubricant to withstand throw-off is increased, due to an in-

Card 2/2

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-SINITSYN, V.V., kand.tekhn.nauk; VAKUROV, P.S., inzh.; KRAMARENKO, G.V., kand.tekhn.nauk; POKROVSKAYA, L.S., aspirant

Stands for investigating plastic lubricants in antifriction bearings. Izv.vys.ucheb.zav.; mashinostr. no.10:103-108 (MIRA 14:12)

1. Moskovskiy avtomobil'no-dorozhnyy institut. (Bearings (Machinery)--Lubrication)

31,893 3/081/62/000/003/074/090 B171/B102

11,9700 AUTHORS:

Semenido, Ye. G., Vakurov. P. S., Shchegolev, N. V.,

Sharapov, V. I., Zarubin, A. P., Zakharov, G. V.

TITLE:

Influence of a sulfurous base of condensed oil upon the

engine

Referativnyy zhurnal. Khimiya, no. 3, 1962, 493-494, PERIODICAL:

abstract 3M227 (Sb. "Khimiya seraorgan. soyedineniy, soderzhashchikhsya v neftyakh i nefteproduktakh. v. 4" M.,

Gostoptekhizdat, 1961, 212-216)

TEXT: The results are given of investigations of the performance of the bodied up $AC_{\pi}=10$ ($AS_{p}=10$) test oil obtained from sulfurous petroleum. It has been shown that the bodied up sulfurous base (without multifunctional additive) has a relatively low corrosive effect (9 g/m² in 50 hrs) and is, in this respect, superior to the Baku petroleum base. This is explained by the positive influence of the natural S-compounds present in the oil of Novo-Ufimskiy zavod (Novo-Ufa Plant). Investigations of effectiveness of different additives permitted the selection of the BHNNHT -365a (VNIINP-365a) Card 1/2

Influence of a sulfurous base ...

S/081/62/000/003/074/090 B171/B102

multifunctional additive, to the test oil. This additive is a mixture of Ba alkylphenolate and of a sulfurous compound. It has been established by 600-hr tests in a Γ A3-51 (GAZ-51) engine that the test oil with S-content $\leq 1\%$ and with the above additive shows a performance superior to the industrial-50 and AH $_{\pi}$ -10 (AN $_{p}$ -10) Baku oils. [Abstracter's note:

Card 2/2

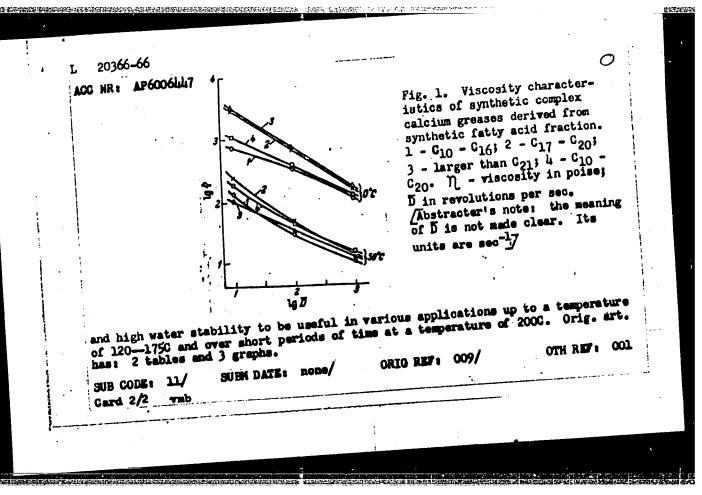
SENICHKIN, P.A., henc. tegam. rach; GOECELT, V.I., inch.; VARUNOV, h.G., inch.

Stard tests of oils. Caspi -tech. svois. i p.im. svi. tr. srat.

mat. t spetszhid. no.2:56-65 163.

(MIRA 17-10)

ENT(m)/T ACC NR: AP60061山7 (A) SOURCE CODE: UR/OG65/66/000/002/0027/0030 AUTHORS: Ishchuk, Yu. L.; Sinitsyn, V. V.; Goshko, N. S.; Nakonechnaya, H. H.; Prokopchuk, V. A.; Vakurov, P. S. ORG: none TITLE: Complex calcium greases derived from synthetic fatty acids SOURCE: Khimiya i tekhnologiya topliv i masel, no. 2, 1966, 27-30 grease, viscosity, organic synthetic process,
TOPIC TAGS: Alubricant, lubricant property, organocalcium compound / GOST 1707-51 No. 50 lubricant ABSTRACT: The properties and performance of a number of calcium greases derived by adding 98% acetic acid and various synthetic fatty acids (containing from 7 to 25 carbon atoms in the molecule) to COST 1707-51 industrial oil No. 50 were studied. The acid number, saponification number, iodine number, average molecular weight, molting point, and composition of the fatty acid fractions used are tabulated. Electronmicrophotographs of the synthesized greases are presented. The viscosity characteristics of the calcium greases were determined (see Fig. 1). It is concluded that the complex calcium greases derived from C10 - C20 and C17 - C20 fatty acids possess a sufficiently high rechanical stability, low viscosity at OC, Card 1/2 UDC: 621.892.8



ACC NR: AP7000331

SOURCE CODE: UR/0413/66/000/022/0084/0084

INVENTOR: Vakusevich, L. A.; Klebanov, D. L.; Terpagosova, I. Z.;

ORG: none

TITLE: High-alumina borosilicate glass [announced by the Scientific Institute of Electrovacuum Glass Research (Nauchno-issledovatel'skiy institut elektrovakuum-Class 32, No. 188634

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966,

TOPIC TAGS: silicate glass, glass property, optic spectrum

ABSTRACT: To make borosilicate high-alumina glass with SiO2, B2O3, Al2O3, CaO, MgO, and BaO transparent with respect to the visual region of the spectrum under conditions of severe irradiation, the components have been combined as follows (wt %): '50-53 SiO₂, 7-10 B₂O₃, 23-25 Al₂O₃, 7.5-8.5 CaO, 3.5-4.5 MgO, 3-5 BaO. In addition, the glass contains 0.1-1.5% of CeO2. [Translation] SUB CODE: 11/SUBM DATE: 17Sep64/

UDC: 666. 113. 655'621'431'46'41'28'27

KOPELEVICH, L.Kh., inzh.; BLEKHMAN, I.Ye., inzh.; MASENKO, I.D., inzh.; OVCHAROV, V.I., kand. tekhn. nauk; DEKHTYAR, D.E., kand. tekhn. nauk; VAKUSOV, V.G., inzh.; FINKINSHTEYN, V.A., inzh., red.

[Technology of manufacturing large prestressed concrete elements for industrial construction] Tekhnologiia izgotov-leniia krupnorazmernykh predvaritel'no napriazhennykh zhelezobetonnykh konstruktsii dlia promyshlennogo stroitel'stva. Moskva, Gosstroiizdat, 1963. 99 p. (MIRA 17:7)

l. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.

KHAVKIN, L.M., inzh.; VAL, D.I., inzh.; KURILENKO, Ye.S.

Placeability of lime-sand mixes under vibration in relation to their specific surface and the type of lime. Sbor. trud.

ROSNIIMS no.17:141-145 '60. (MIRA 14:12)

(Sand-lime products)

VERNER, Ye.V., inzh.; VAL, G.A., inzh.; BELYKH, P.G., inzh.

Automated power truck. Stroi. i dor. mash. 6 no.2:26-30 F '61.

(Conveying machinery)

(MIRA 14:5)

VAL, G.A., inzh.

Modernization of the machinery for assembling and disassembling molds. Stroi. i dor. mash. 7 no.12:25-28 D *62. (MIRA 16:1) (Concrete plants—Equipment and supplies)

4

ALEKSANDROV, Stanislav Konstantinovich, inzh.; LIFSHITS, Yuliya Lazarevna, inzh.; VAL, Grigoriy Aleksandrovich,, inzh.; KREYNDLIN, A.N., nauchn. red.; TELINGATER, L.A., red.

[Advanced methods of prefabrication and assembly of large panel buildings] Peredovye metody zavodskogo izgotovleniia i montazha krupnopanel'nykh zdanii. Moskva, Vysshaia shkola, 1965. 65 p. (MIRA 18:7)

VLASOV, K.F., kand. med. nauk; VAL' V.V. (Moskva)

Side effects of noxiron. Klin. med. 40 no.11:130-131 N'62
(MIRA 16:12)

15-57-12-17271

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 12,

是明朝机能是指进现在的影響。可能可是处理是不可能等的进步,是不是可以可能可能,这些一个一个可以是对他的。 "是这些一个一个一个一个一个一个一个一个一个一个一个一

pp 82-83 (USSR)

AUTHOR: Val

Vala, A. I.

TITLE:

Lower Triassic and Upper Permian Variegated Formations of Lithuania (Nizhnetriasovyye i verkhnepermskiye pes-

trotsvety Litvy)

PERIODICAL:

V sb: Tr. Vses. soveshchaniya po razrabotke unifitsir.

skhemy stratigr. mezozoyskikh otlozheniy Russkoy

platformy, Leningrad, 1956, pp 174-179

ABSTRACT:

The author analyzes a formation composed of variegated kaolinite and hydromicaceous clays, marls, and sands. This formation differs from the one below it and the one above it by its lithological features, its scarce paleontological contents and by the mode of its

deposition. After conducting a thorough petrographic

Card 1/4

study of this formation, the author subdivides it into horizons. Every horizon represents a cyclic formation.

Lower Triassic and Upper Permian Variegated Formations (Cont.)

Separate series of strata are characterized by a definite mineral content. Durable minerals such as zircon, garnet, tourmaline and others; autogenous minerals, such as pyrite, gypsum, rock salt; and clay minerals like kaolinite, are characteristic of Kaunas strata (6 m to 38 m). The Klaipeda layers (3 m to 38 m) contain hornblende, pyroxine and other durable minerals. Barite represents the most characteristic occasional mineral, while beidellite and montmorillonite are found in a small quantity. The Zhiyezhmarskiye sloi (strata) (4 m to 44 m) are distinguished by a large quantity of zircon and rutile and by clays of hydromica-kaolinite type. Jena strata (8 m to 42 m) contain garnet, staurolite, hornblende and Barite, pyrite and other minerals can be found among the autogenous group. Clay is mainly of the hydromica-kaolinite type with an admixture of beidellite and montmorillonite. The most characteristic minerals in the Vadaksskiye sloi (strata) (5 m to 61 m) are hornblende, monazite, epidote, anatase, mica, chlorite, glauconite and others. Here the clays are of the kaolinite-hydromica type. The Al'kishskiye sloi (strata) (3 m to 35 m) are distinguished by the presence of magnetite, tourmaline, muscovite and biotite. Card 2/4

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Lower Triassic and Upper Permian Variegated Formations (Cont.)

These clays differ little from those described above. The Yotiyskiye sloi (strata) (5 m to 63 m) contain zirzon (in a large amount), staurolite, biotite, chlorite. These clays are of the kaolinitehydromica type. The Tauragskiye sloi (strata) are characterized by the following mineral associations: zircon, garnet, tourmaline, rutile, disthene, the epidote group minerals, sphene, sphene pseudomorphs after ilmenite, and brookite. Kaolinite predominates among clay minerals. The author comes to the conclusion that the strata of the variegated formation were deposited in different and extremely variable climatic conditions. The main influx of material came from the east, northeast and southeast. It was deposited by the intermittent streams, in the river deltas which formed in the lagoons of the Upper Permian epoch and in the lakes of variable salinity in the Lower Triassic, as well as on the bottom of fresh water lakes of the Lower Jurassic time. Paleontological finds indicate that the layers of the variegated formation, except for Kaunas and Tauragskiy sloi (strata), should be referred to (according to Ye. M. Lyutkevich) the Vetluzhskiy yarus (stage) of Lower Triassic, Kaunas strata -- sloi to Card 3/4

TO CONTRACT THE EXCEPTION OF THE PROPERTY OF T

Lower Triassic and Upper Permian Variegated Formations (Cont.)

the Tatar stage of Upper Permian, and Tauragskiy sloi (strate)--to
the Rhaetian-Lias stage.

Card 4/4

G. A. Prokhorova

VALA, A. 1.

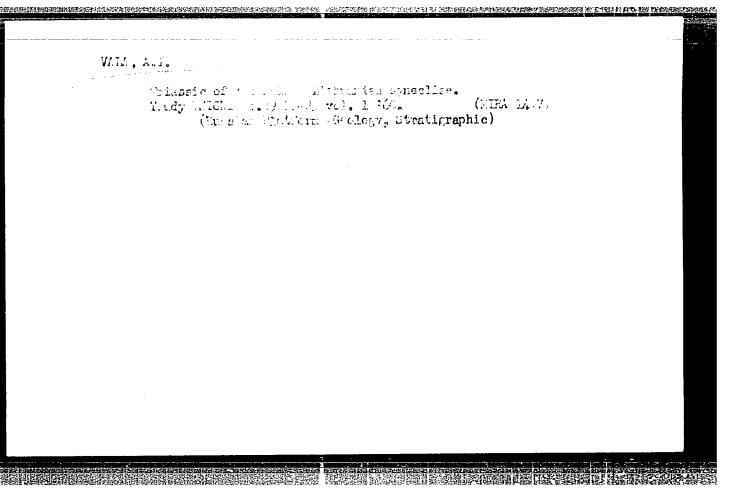
GEOGRAP Y & GEOLOGY

HOKSLIANI PRAVESIMAI.

VALA, A. A contribution of the question of Upper Permian facius in Lithuania. p. 197.

Vol. 8, 1958.

Monthly List of East European Accession (EEAI) LC Vol. 8, No. 3
Harch 1959, Unclass.



Rev. Dut in Companies and Comp

VALA, F.

Our main task is to help practical farming. p. 204 (Sbornik Rada Jesnictvi Vol. 4, no. 4, 1957 Praha)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

VALA, F.

"Work in the department and commissions on the land reclamation in agrigulture and forestry."

p. 219 (Vestnik, Vol. 5, no. 4, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9, September 1958

VALA, F.

"Delimitation, classification, and inventory of meadows and pastures." p. 195

VESTNIK. Praha, Czechoslovakia, Vol. 6, No. 4, 1959

Monthly list of East European Accession Index (EEIA), Library of Congress, Vol. 8, No. 7, July, 1959, Unclassified

VALA, J.

"A Study of Systems of Slope Lines on Surfaces Subjected to a Transformation by Motion." p. 167.
(Shornit. Fullstin, Vol.2, No.24-29, 1953, Brno.)

Vol. 3, No. 3.

So: Nonthly List of East European Accessions,/Library of Congress, March 1954, Uncl.

Cart 300-	an parameter o 310 Ag '60. (Surfaces)	n nonlinear	surfaces. C	as pro pest m	at 85 no.3: (EEAI 10:1)	

VALA, Josef

On congruences of straight lines intersecting the hyperplanes of a projective four-dimensional space P, in tangential planes of its surface . Mat fyz cas SAV 11 no.4:263-274 '61.

1. Katedra matematiky a deskriptivni geometrie, Vysoke uceni technicke, Brno, Barvicova 85.

的现在分词,我们就是我们的人,我们就是我们的人,我们就是我们的人,我们就是这个人,我们就是这个人,我们也没有一个人,我们也没有这种,他们也没有这种,他们也会会

VALA, Josef

The congruence W with linear focal surfaces. Mat fys cas SAV 12 no.4:271-279 '62.

1. Katedra matematiky a deskriptivni geometrie, Vysoke uceni technicke, Brno.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858420004-9"

ACC NR: AP6029573	•	RCE CODE: CZ/004	•	1,20
AUTHOR: Vala, Josef Vala,	I. (Brno)			8
ORG: Department of Mathema Technical Institute, Brno (fakulta, Vysoka uceni tech	Katedra matematiky	ve Geometry, Civil a deskriptivni ge	Engineering Factometrie, stavebre	ilty,
TITIE: Special Riccati sys	stems			
SOURCE: Matematicko-fyzik		, 1965, 126-142		
TOPIC TAGS: first order d	ifferential equation	n, differential ed	uation system	
ABSTRACT: The properties the lines C _y and C _z , calle local properties of quadra surface Ø and the properti investigated. Orig. art.	tic R(y, z) systems, tic R(y, z) systems	along the general	ing line p of th	
SUB CODE: 12 / SUBM DAT			TH REF: 002	<u></u>
Card 1/1 1/1/2			7917 0	2667

VALA,M.

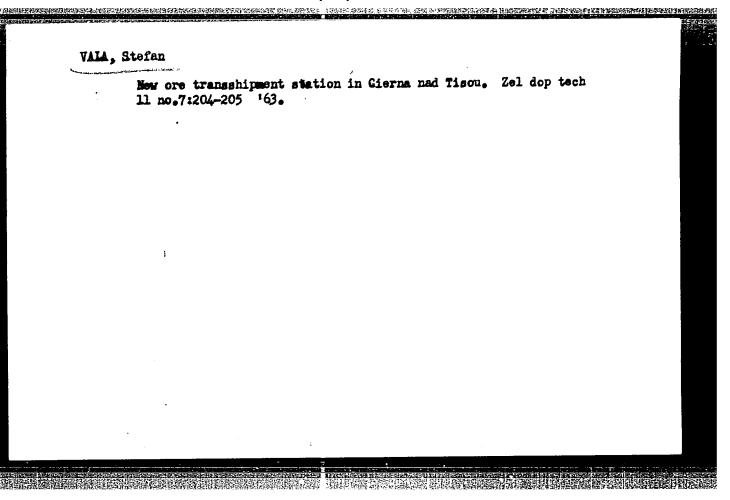
Traumatic interruption of the lower direct muscle. Cesk. oftal. 20 no.1:67-68 Ja*64.

1. Ocni oddeleni nemocnice z poliklinikou v Mor. Trebove; vedouci: MUDr. J. Grepl.

VALA, Manuel

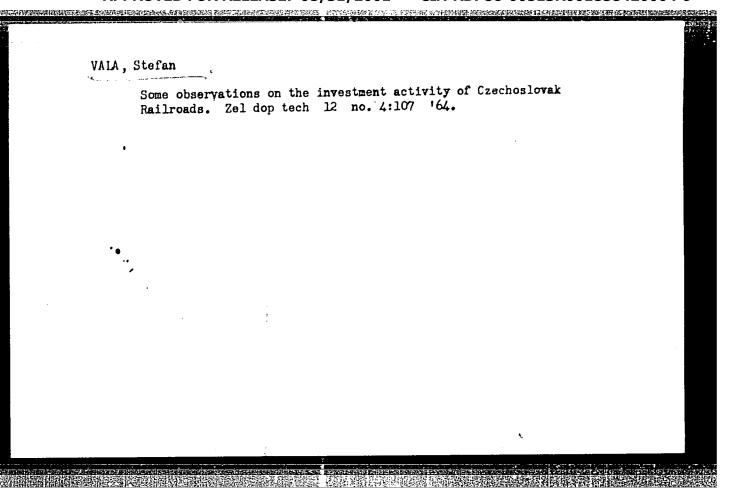
Treatment of corneal diseases with 20 per cent hydrogen peroxide solution. Cesk. oftal. 21 no.4:357-359 Jl '65.

1. Ocni oddeleni nemocnice s poliklinikou v Moravske Trebove (vedouci MUDr. J. Grepl).



VALA, Stefan

Freight yard of the Kosice railroad station. Zel dop tech 11 no. 12: 367-368 '63.



VALACH, A. Cardiovascular and respiratory function text "Flack test" in sport medicine. Cas. lek. cesk. 89 no.29:811-815 21 July 1950. (CIML 20:1) 1. Of the Medical Physical Education Center of Prof. J. Kral, M. D. in Prague.

DEJDAR, R.; WIDIMSKY, J.; VALACH, A.; FEJFAR, Z.; BERGMANN, K.

Radiological changes in cor pulmonale & their diagnostic significance. Cas. lek. cesk. 98 no.21:654-661 22 May 59.

1. Ustav pro choroby obehu krevniho, Praha-Krc, reditel prof. dr. Weber. Ustav pro vyzkum tuberkulozy, Praha-Bulovka. R.D., Praha-Krc, Budejovicka 800.

(PULMONARY HEART DISEASE, manifest. x-ray changes, diag. significance (Cz))

是**不是是一个人的现在**,这一个人,他们是一个人的,他们也是一个人的人,他们也不是一个人的人,我们们也不是一个人的人,我们们也是一个人的人,我们就是一个人的人,但是这个人的

