

MARKARYAN, S. Ye.

Cand Tech Sci - (diss) "Methods and experimental bases for calculations of elements in automatized equipment for collecting and removal of manure." Moscow, 1961. 22 pp; (Joint Council of the All-Union Scientific Research Inst of Mechanization of Agriculture "VIM" and All-Union Sci. Res. Inst of Electrification of Agriculture "VISEKh"); number of copies not given; price not given; (KL, 6-61 sup, 221)

MARKARYAN, S.Ye., kand.tekhn.nauk; MKRTCHYAN, L.A., inzh.

Testing of a caprone cable operating as a pull exerting component  
in scraper systems. Mekh. i elek. sots. sel'khoz. 21 no.4:50-51  
'63. (MIRA 16:9)

1. Arayanskiy nauchno-issledovatel'skiy institut mekhanizatsii i  
elektrifikatsii sel'skogo khozyaystva.  
(Fertilizer spreaders)

MARKAR'YAN, V.

Rural radio receiver for four stations. V pom. radiolinb. no.9:53-  
58 '60. (MIRA 13:12)

(Transistor radios)

MARKARYAN, V.A.

Designing preventer bodies. Za tekh.prog. 3 no.9:21-24 S '63.  
(MIRA 16:10)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut neftyanogo  
mashinostroyeniya.

MARKARYAN, Y. A.

M. L. Rodovitskiy, Lieutenant Colonel of the Medical Service and Ye. A. Markaryan, Lieutenant Colonel of the Medical Service - Experience in Large-Scale Examination of New Recruits for Helminthic Infestation and in the Treatment of Carriers.

Every year, at the time of arrival of new recruits into this unit, a general examination of the new recruits is made for helminthic infestation, along with the detection and examination of the acute gastro-intestinal diseases suffered, with subsequent treatment of carriers detected. The organization of this work is divided into three periods.

The first, preparatory, period includes the construction of a graph of the sequence of collecting and delivering the material from the units to the sanitary epidemiological laboratory, the giving of talks to new recruits concerning helminthic infestations, the preparation of the requisite number of files, the sanitary epidemiological laboratory for collecting the material, the sanitary epidemiological laboratory are distributed, then collected and during the second period, the files are collected and during the third period treatment of carriers is performed with subsequent control laboratory checking of the effectiveness of the therapy.

Penicillin bottles were used for collecting the material.

Voyenno-Meditsinskii Zhurnal, No 9, 1959.

In the sanitary epidemiological laboratory they were carefully washed out, small wooden sealers were inserted through the rubber caps, and in this form they were inserted through medical posts of the units, before being issued to the personnel, adhesive strips with the last name of the subjects were attached to the bottles. The company of the sergeants and the squad commanders issued the bottles after supper, and the next morning they handed them in to the medical post of the unit for examination. On the same day, the bottles were delivered to the sanitary epidemiological laboratory in a special box. Every day, 150-200 persons were examined for helminthic carriage.

After the examination of the entire personnel a list of the carriers was made. According to graphs approved by the unit commander, the patients were sent in groups of 10-12 to the medical post, where they were subjected to oxygen treatment according to the generally accepted method.

A second laboratory examination, no sooner than two weeks after the treatment, for the presence of helminth ova was used as the main method for checking on the effectiveness of the treatment used. The entire work in combating helminthic infestation was planned so that it should be concluded at the beginning of the spring period.

7/7

Voyenno-Meditatsinskiy Zhurnal, No 9, 1959.

MARKARYAN, Ye.A., podpolkovnik meditsinskoy sluzhby; NEBOYALOV, N.N.,  
mayor meditsinskoy sluzhby; ZAGORUYCHENKO, V.S., kapitan  
meditsinskoy sluzhby; VELICHKO, N.D.. kapitan meditsinskoy  
sluzhby

Mass investigation of troop replacements for carriage of  
helminths. Voen.-med. zhur. no.4:83 Ap '61. (MIRA 15:6)  
(WORMS, INTESTINAL AND PARASITIC)





SOV/137-58-7-14457

**Degasification of Steel Under Vacuum in the Manufacture of Forgings**

overall quality of the plastic properties of metal in the internal zones of forgings prepared from vacuum-treated ingots was significantly higher. The influence of the vacuum is most apparent in the magnitude of relative shrinkage. Vacuum degasification of steel reduces the harmful effects of hydrogen, and its employment is advisable when it is desired to effect a leveling of plastic properties of the metal without resorting to protracted periods of tempering.

Ye.K.

1. Steel--Forging    2. Steel--Degasification    3. Vacuum systems--Applications

Card 2/2

PETROV, A.K.; SPERANSKIY, V.G.; KHIZHNICHENKO, A.M.; SHILYAYEV, B.A.;  
DANILOV, A.K.; BORODULIN, G.M.; ZAMOTAYEV, S.P.; MARKARYANTS, A.A.;  
SOLNTSEV, P.I.; SMIRNOV, Yu.D.; VAYNBERG, G.S.; OKOROKOV, N.V.;  
KOLOSOV, M.I.; SEL'KIN, G.S.; MEDOVAR, B.I.; LATASH, Yu.B.;  
YEFROYMOVICH, Yu.Ye.; VINOGRADOV, V.M.; SVED-SHVETS, N.N.;  
SKOROKHOD, S.D.; KATSEVICH, L.S.; SHTRONBERG, Ya.A.; MIKHAYLOV,  
O.A.; PATON, B.Ye.

Reports (brief annotations). Bul. TSNIICEM no.18/19:67-68 '57.

(MIRA 11:4)

1. Zavod Ineprospectsal' (for Speranskiy, Borodulin). 2. Chelyabin-  
skiy metallurgicheskiy zavod (for Khizhnichenko). 3. Uralmashzavod  
(for Zamotayev). 4. Trest "Elektropech'" (for Vaynberg). 5. Moskov-  
skiy institut stali (for Okorokov). 6. TSentral'nyy nauchno-issledo-  
vatel'skiy institut chernoy metallurgii (for Sel'kin, Sveda-Shvets).  
7. Institut elektrovarki AN USSR (for Paton, Medovar, Latash).  
8. TSentral'naya laboratoriya avtomatiki (for Yefroymovich,  
Vinogradov). 9. Gisogneupor (for Skorokhod). 10. Trest "Elektropech'"  
(for Katsevich). 11. Tbilisskiy nauchno-issledovatel'skiy institut  
okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for  
Shtronberg).

(Steel--Metallurgy)

MARKARYANTS, III

DUBROV, N.F., kand. tekhn. nauk; MIKHAYLOV, O.A., kand. tekhn. nauk;  
 FEL'DMAN, I.A.; DANILOV, A.M.; SOROKIN, P.Ya., kand. tekhn. nauk,  
 starshiy nauchnyy sotrudnik; BUTAKOV, D.K., kand. tekhn. nauk,  
 dots.; SOYFER, V.M.; LATASH, Yu.V., mladshiy nauchnyy sotrudnik;  
 ZANOTAYEV, S.P.; BNYTEL'MAN, A. I.; SAPKO, A.I.; PRTUKHOV, G.K.,  
 kand. tekhn. nauk; YEDNKRAL, F.P., kand. tekhn. nauk, dots.;  
 LAPOTYSHKIN, N.M., kand. tekhn. nauk, starshiy nauchnyy sotrudnik;  
 ROZIN, R.M.; NOVIK, L.M., kand. tekhn. nauk, starshiy nauchnyy  
 sotrudnik; LAVRENT'YEV, B.A.; SHILYAYEV, B.A.; SHUTKIN, N.I.;  
 GNUGHOV, S.A., kand. tekhn. nauk, starshiy nauchnyy sotrudnik;  
 LYUDZHAN, K.F., doktor-inzh., prof.; GHUZIN, V.G., kand. tekhn.  
 nauk; BARIN, S.Ya.; POLYAKOV, A.Yu., kand. tekhn. nauk; FEDCHENKO,  
 A.I.; AGNIEV, P.Ya., prof., doktor; SAMARIN, A.M.; BOKSHITSKIY,  
 Ya.M., kand. tekhn. nauk; GARNYK, G.A., kand. tekhn. nauk;  
 MARKARYANTS, A.A., kand. tekhn. nauk; KRAMAROV, A.D., prof.,  
 doktor tekhn. nauk; TKDER, L.I.; DANILOV, P.M.

Discussions. Biul. TSNIICDM no.18/19:69-105 '57. (MIRA 11:4)

1. Direktor Ural'skogo instituta chernykh metallov (for Dubrov).
2. Direktor Tsentral'nogo instituta informatsii chernoy metallur-  
 gii (for Mikhaylov).
3. Nachal'nik nauchno-issledovatel'skogo  
 otdela osobogo konstruktorskogo byuro tresta "Elektropech'" (for  
 Fel'dman).
4. Nachal'nik martenovskoy laboratorii Zlatoustovskogo  
 metallurgicheskogo zavoda (for Danilov, A.M.).
5. Laboratoriya  
 protsessov stalevareniya Instituta metallurgii Ural'skogo filiala  
 AN SSSR (for Sorokin).

(Continued on next card)

DUBROV, N.F.---(continued) Card 2.

6. Ural'skiy politekhnicheskiy institut (for Butakov). 7. Starshiy inzhener Bryanskogo mashinostroitel'nogo zavoda (for Soyfer). 8. Institut elektrosvarki im. Patona AN URSS (for Iatash). 9. Nachal'nik Tsentral'noy zavodskoy laboratorii "Uralmashzavoda" (for Zamotayev). 10. Dnepropetrovskiy metallurgicheskiy institut (for Sapko). 11. Moskovskiy institut stali (for Yedneral). 12. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Gmuche, Lepotyshkin). 13. Starshiy master Leningradskogo zavoda im. Kirova (for Rozin). 14. Institut metallurgii im. Baykova AN SSSR (for Novik, Polyakov, Garnyk). 15. Nachal'nik tekhnicheskogo otdela zavoda "Bol'shevik" (for Iavrent'yev). 16. Starshiy inzhener tekhnicheskogo otdela Glavspetsstali Ministerstva chernoy metallurgii (for Shilyayev). 17. Zamestitel' nachal'nika tekhnicheskogo otdela zavoda "Elektrostal'" (for Shutkin). 18. Freybergakaya gornaya akademiya, Germanskaya Demokraticheskaya Respublika (for Lyudenski). 19. Zaveduyushchiy laboratoriyey stal'nogo lit'ya Tsentral'nogo nauchno-issledovatel'skogo instituta tekhnologii i mashinostroyeniya (for Gruzin). 20. Starshiy master elektrostaleplavil'nykh pechey Uralvagonzavoda (for Barin). 21. Zamestitel' nachal'nika elektrostaleplavil'nogo tsokha zavoda "Sibelektrostal'" (for Fedchenko). 22. Zaveduyushchiy kafedroy metallurgii stali i elektrmetallurgii chernykh metallov Leningradskogo politekhnicheskogo instituta (for Ageyev). 23. Zamestitel' direktora Instituta metallurgii im. Baykova AN SSSR, chlen-korrespondent AN SSSR (for Samarin).

(Continued on next card)

DUBROV, N.F.---(continued) Card 3.

24. Nachal'nik laboratorii Tsentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii (for Bokshitskiy). 25. Zaveduyushchiy kafedroy elektrometallurgii Sibirskogo metallurgicheskogo instituta (for Kramarov). 26. Nachal'nik elektrostaleplavil'nogo tsekh Kuznetskogo metallurgicheskogo kombinata (for Tedor). 27. Nachal'nik elektrometallurgicheskoy laboratorii Kuznetskogo metallurgicheskogo kombinata (for Danilov, P.M.).

(Steel--Metallurgy)

MARKARYANIS, A. A. and SMIRNOV, Yu. D.

"Some Questions of the Theory and Practice of Steel Degassing."  
paper presented at Second Symposium on the Application of Vacuum Metallurgy.

*Moscow, 1-6 July 1958*



18.3200, 18.5200

77615  
SOV/133-60-2-15/25

AUTHORS: Markaryants, A. A., Smirnov, Yu. D., Men'shikov, A. D.,  
Yemel'yanov, B. F.

TITLE: Production of Rotor Shaft Forgings From Vacuum-Cast  
Ingots

PERIODICAL: Stal', 1960, <sup>20</sup>Nr 2, pp 148-152 (USSR)

ABSTRACT: In light of attempts to minimize the hydrogen  
content in metal of large forgings for critical parts,  
the authors investigated TV-9 rotor forgings made  
from vacuum-cast ingots, and by way of comparison,  
from regularly produced ingots. Acid open-hearth  
34KhN3MFA steel was used. The following persons  
participated in the study: S. Ye. Rabkin, A. P.  
Morozov, A. N. Solomin, B. A. Lavrent'yev, et al.  
(1) Vacuuming: a special installation consisted of  
2 vacuum chambers, 17 and 36 m<sup>3</sup>, and 3VN-6G-type  
pumps. Minimum pressure of 1 to 3 mm mercury

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Production of Rotor Shaft Forgings From Vacuum-Cast Ingots

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column was maintained at the initial stage (from 15 to 20 min) and residual pressure of 25 to 40 mm mercury column toward the final period of degassing. An intermediate ladle was placed on the chamber lid. A 45-50 mm diam rubber cord secured air-tightness between chamber lid and ladle bottom. To reduce splashing by the hot metal jet from the intermediary ladle, a 280-300 mm diam, 300 mm long tube was attached to the lid aperture. Splashing was further reduced by increasing the ingot diam. Much attention was given to the riser lining to prevent lining pieces from entrapment in the ingot. The authors recommend accelerated teeming which also reduces ingot defects. (2) Characteristic of rotor forgings: Originally the workpieces were forged by two upsetting operations and two intermediate annealings followed by quenching from 950 and from 860° C and final annealing and tempering to remove hydrogen. The method of casting ingots under vacuum not only removes hydrogen but decreases the number

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Production of Rotor Shaft Forgings From Vacuum-Cast Ingots

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of oxide-silicate inclusions. Sequence of tests: Duplexing in 25 ton basic and 25 ton acid open-hearth furnaces. Four 13.4-ton test ingots were cast. Composition of melts, numbers 9,063 and 9,066 in %:

C	Mn	Si	P	S	Cr	Ni	Mo	V	Cu
0.35	0.44	0.29	0.015	0.018	1.42	3.21	0.36	0.13	0.15
0.38	0.42	0.28	0.014	0.018	1.43	3.24	0.36	0.13	0.14

Casting and degassing rates:

Melt numbers

Ingots

Time, min - sec

casting until riser

total casting

degassing

9063  
1 and 2

6-40 5-00  
11-19 8-55  
8-00 -

9066  
1 and 2

6-30 5-30  
10-20 9-10  
7-45 7-35

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Production of Rotor Shaft Forgings From Vacuum-Cast Ingots

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SOV/133-00-2-15/20

Pressure in vacuum chamber

during casting, mm mercury column:

initial period	3	-	3	7
during metal rising to feeder	27	-	30	31
final period	33	-	43	43
Serial number of forgings	4616	4617	4844	4845

Forging 4,617 (see table above) produced without degassing showed the same properties as the other forgings produced by simplified process, i.e., by two upsetting operations followed by quenching from 860 and tempering with omission of two intermediary annealings (saving 160-180 hr) and quenching from 750° C (saving 50-55 hr). Final annealing of all 4 forgings was done in the regular manner (see Fig. 3):

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Production of Rotor Shaft Forgings From  
Vacuum-Cast Ingots

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SOV/133-60-2-15/25

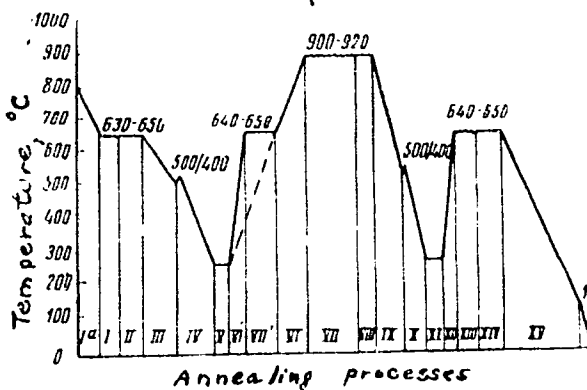


Fig. 3. Annealing diagram for rotor TV-9 forgings.

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Production of Rotor Shaft Forgings From  
Vacuum-Cast Ingots

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SOV/133-60-2-15/25

After preliminary machining the forgings were heat-treated and tested for hardness. Macrostructural and ultrasonic tests showed no defects. All test forgings met the technical requirements. (3) Possible structural changes and deterioration of properties in steel along the cross sections of forgings were investigated. The authors found that plastic properties of specimens taken from the inside of the forgings made from ingots treated according to the new method were considerably higher; rotors made from ingots degassed under vacuum were endowed with excellent plastic properties and impact strength. Neither microstructure, hardenability, nor mechanical properties were impaired. Along with recommending the above new process the authors suggest the elimination of special tempering for the purpose of hydrogen removal (lasting 1000hr) since it enhances plastic properties only very slightly. Experiments are being conducted to remove hydrogen from basic open-hearth steel for large-scale use in critical parts. There are 8 figures; 1 table; and 1 Soviet reference.

Card 6/6

L 44185-66 EWT(m)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6013261 SOURCE CODE: UR/0413/66/000/008/0050/0050

INVENTOR: Krikorov, V. S. ; Blinov, G. A. ; Zhelninskiy, V. D. ; Kokin, V. K. ; Markaryants, E. A.

ORG: none

TITLE: Method of preparing dielectric films. Class 21, No. 180701

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 50

TOPIC TAGS: dielectric material, silicon dioxide, lanthanum, vaporization, vacuum chamber

ABSTRACT: An Author Certificate has been issued for a powder spray method of preparing dielectric films on a silicon dioxide base in a vacuum chamber. To decrease the temperature of vaporization of silicon dioxide without damaging any properties of the dielectric film, a mixture of silicon dioxide and lanthanum, taken in equipolar quantities, is used. [Translation] [NT]

SUB CODE: 11/3/SUBM DATE: 04May65/

*alum*  
Card 1/1

UDC: 621.319.4.002.2

MARKAR'YANTS, L.A.

Flies as carriers of helminths' eggs. Zdrav. Tadzh. 9 no.1:  
48 Ja-F '62. (MIRA 15:4)

1. Iz otdela parazitologii (zav. - kand.biologicheskikh nauk Ye.S.  
Kalmykov) Dushanbinskogo instituta epidemiologii i gigiyeny.  
(WORMS, INTESTINAL AND PARASITIC)  
(FLIES AS CARRIERS OF DISEASE)

KOVALENKO, K.N.; MARKARYANTS, L.M.; SEMENOVA, I.M.

Electrochemical behavior of zinc and copper in foreign ion  
solutions. Uch.zap.RGU no.60:57-64 '59. (MIRA 14:10)  
(Zinc) (Copper) (Electrochemistry)



MARKARYANTS, M.K. (Leningrad)

Deactivation of household and drinking waters. Vod.i san.tekh.  
no.6:39-3 of order Je '57. (NERA 10:7)  
(Water--Purification) (Radioisotopes)

**MARKARYANTS, M.K.**

Purification of radioactive sewage. Vod. 1 san. tekhn. no.9:39 8  
'58. (MIRA 11:10)

(Sewage--Purification) (Radioactivity)

MARRARYANTS, M. K., SITANNIKOV, YE. V.

"The Problem of Radioactivity in the Hygiene of Water Supply  
and Sanitary Protection of Reservoirs."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists  
and Infectionists, 1959.

MARKARYANTS, N. Ye.

Markaryants, N. Ye., Reverse scattering of radiation by the sea, Tr. Gl. geofiz. ~~pp~~  
observ. (Works of the Main Geophysics Observatory) No 68, 1957, p 178-180; (RZhGeofiz  
4/58-2692)



MARKARYANTS, V. P.

Cand Agr Sci - (diss) "Structure and physico-mechanical properties of trees of the basic conifer group of the Krasnoyarskiy Kray." Krasnoyarsk, 1961. 17 pp; (Academy of Sciences USSR, Siberian Division, Inst of Forests and Wood); 120 copies; price not given; (KL, 6-61 sup, 232)

MARKARYANTS, V.P.

Moisture content of wood in freshly cut Siberian fir. Izv.Sib.  
otd.AN SSSR no.8:105-109 '61. (MIRA 1, :8)

1. Institut lesa i drevesiny Sibirekogo otdeleniya AN SSSR,  
Krasnoyarsk.

(Fir)

(Wood—Moisture)

MARKARYANTS, V. P.

Moisture of the freshly cut wood of Siberian spruce (*Picea  
obovata*). [Trudy] STI 35:40-45 '63 (MIRA 18:2)



MARKATOV, S.; ZHUKOV, Ye.

Wide-band antenna amplifier. Radio no.10:45-46 0 '61.

(MIRA 14:10)

(Television—Receivers and reception)  
(Amplifiers (Electronics))

SOV/124-57-7-8385

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 141 (USSR)

AUTHOR: Markatun, G. T.

TITLE: Concerning the Stability of the Foundation Structures of Offshore Derricks Used in the Drilling of Oil Wells Under the Sea (K voprosu ob ustoychivosti konstruktsiy osnovaniy vyshek na more)

PERIODICAL: Tr. Azerb. politekhn. in-t, 1956, Nr 2, pp 52-56

ABSTRACT: The author determines the critical values of the forces exerted on the joints of a four-stanchion frame-type derrick structure for a case in which the four pile-type supporting stanchions are subjected to an elastic base restraint.

N. K. Snitko

Card 1/1

ACC NR: AP6015634

SOURCE CODE: UR/0413/66/000/009/0041/0041

INVENTORS: Markatun, M. G.; Savin, V. V.; Turgiyev, E. A.; Shayn, I. L.

ORG: none

TITLE: A logic device for self-adjusting systems. Class 21, No. 181171

SOURCE: Izobreteniya, promyshlennyye obratzys, tovarnyye znaki, no. 9, 1966, 41

TOPIC TAGS: self adaptive control, logic circuit

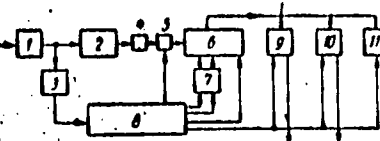
ABSTRACT: This Author Certificate presents a logic device for self-adjusting systems. The device includes an input amplifier, the output of which (on one side) is connected to a frequency modulator, a pulse shaper, and a reversible counter (see Fig. 1). The other side of the output of the input amplifier is connected to the command device connected through a trigger to the reversible counter. The design improves the response time with the simultaneous increase of precision and selectivity based on the fundamental harmonic of the input signal with the determination of its zero value. The output of the reversible counter is connected by parallel tie lines to the set of switches operating in series. The chief discharge switch is connected to the trigger controlling the zero indicator and to the switching circuit containing the output controlled rectifier.

Card 1/2

UDC: 621-501.14:621.374.32

ACC NR: AP6015634

Fig. 1. 1 - alternating voltage amplifier; 2 - frequency modulator; 3 - clipper; 4 - counter pulse shaper; 5 - counter pulse rectifier; 6 - reversible counter; 7 - trigger of the reverser; 8 - command device; 9-11 - output units



To determine the sign of the increment of the average input signal value, the output of the reversible counter is connected by parallel tie lines to the potential coincidence circuit. The output of the potential coincidence circuit is connected through a differentiating circuit to the output controlled rectifier. To measure the increment of the average value of the input signal, the output of the reversible counter is connected by parallel tie lines to the discriminator. The output of the discriminator is connected to the digital indicator with a memory. Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 15Apr65

Card 2/2

MARKAUSKAS, A.

Achievements of a plant efficiency promoter. Avt. transp. 36  
no. 7:23 J1 '58. (MIRA 11:8)

1. Glavnyy konstruktor 4-go avtoremontnogo zavoda.  
(Mototrucks--Maintenance and repair)

MARKAVETS, A.

A manual for warehouse workers. Minsk, Dziarzhavnae vydavetstva BSSR, 1952.  
(Mic 55-4006)

Collation of the original, as determined from the film; 49 p.

Microfilm Slavic 483 S

MARKAY, E. V. and BABITSKIY, I. A.

"Automatic Telephone System," State Publishing House of Literature Pertaining to the Problems of Communications and Radio, 403 p., 1952.

VASIL'YEV, K.V.; YEVSEYEV, G.E., kand.tekhn. nauk, retsenzent;  
MARKAZ, Yu.L., inzh., red.; EL'KIND, V.D., tekhn. red.

[Gas and electric cutting of metals] Gazoelektricheskaia  
rezka metallov. Moskva, Mashgiz, 1963. 173 p.

(MIRA 16:12)

(Gas welding and cutting)

(Electric metal cutting)



L 2761-66 EWT(d)/FSS-2/EWT(1)/EEC(k)-2 GN/AST

ACCESSION NR: AP5021261

UR/0293/65/003/004/0660/0662  
551.508.94:629.192.2:550.3

AUTHOR: Shvarts, Ya. M.; Markhev, N. T.; Petunin, A. N.; Rudakov, V. P.;  
Shvortsov, V. V. 44,55 44,55 44,55 44,55

59  
OB

TITLE: Testing of rocket electrostatic fluxmeter

12,44,55

SOURCE: Kosmicheskiye issledovaniya, v. 3, no. 4, 1965, 660-662

TOPIC TAGS: electric field, spaceborne ionization measurement, ionization detector,  
radiation detection 9M

ABSTRACT: Laboratory tests of an electrostatic fluxmeter of the rotary type with thin wire meshes and a synchronous detector are reported. The meter is designed for measuring the electric field intensity at the surface of a probing rocket and, indirectly, the external electric field of the upper atmosphere. The sensor was placed in a chamber under vacuum of  $10^{-4}$ — $10^{-5}$  mm Hg and subjected to bombardment of argon ions with energies of 1000 ev or less. Determinations were made of mesh permeability for streams of charged particles and of the effectiveness of the screen plates and synchronous detector as noise suppressors. The coefficient of optical transparency of the screen was 0.87, while the electrical permeability for an ion

Card 1/2

L 2761-66

ACCESSION NR: AP5021261

flux of  $10^{-9}$ — $10^{-7}$  amp/cm<sup>2</sup> was 0.82—0.86. The noise suppressing capabilities of the device are such that a noise current density of  $1.1 \times 10^{-7}$  amp/cm<sup>2</sup> and an electric field intensity of 8 v/cm are needed to make the signal to noise ratio 1. Orig. art. has: 1 figure. [BD]

ASSOCIATION: none

SUBMITTED: 18 Mar 65

ENCL: 00

SUB CODE: EM, NP

NO REF SOV: 005

OTHER: 000

ATD PRESS: 4/02

SC

Card 2/2

KOŁODZIEJCZYK, Tadeusz, mgr inż.; MARKEFKA, Wojciech

Temperature control in electric furnaces for thermal working  
of large masses. Gosp paliw 11 Special issue no.(95):50-51  
Ja '63.

1. Instytut Metali Niezależnych, Gliwice.

KOŁODZIEJCZYK, Tadeusz, mgr inż.; MARNEFKA, Wojciech

Temperature control in electric furnaces for thermal working of large masses. Gospaliwli Special issue no.(95):50-51 Ja '63.

1. Instytut Metali Niezależnych, Gliwice.

MARKEL, Eva; PALASTI, Erzsébet

The role of higher nervous activity in sodium excretion. Kiserl.  
orvostud. 14 no.2:137-141 Ap '62.

1. Budapesti Orvostudományi Egyetem Elettani Intézete.

(SODIUM urine) (REFLEX CONDITIONED)

HUNGARY

ADAM, Gyorgy, MARKEL, Eva, DONATH, Olga, KOVACS, Agota, and NAGY, Aladar, of the Institute for Biology at the Medical University (Orvostudományi Egyetem Elektani Intézete) in Budapest.

"Carotid Afferentiation and Higher Nervous Activity"

Budapest, Acta Physiologica Academiae Scientiarum Hungaricae, Vol 23, No 2, 1963, pp. 143-153.

Abstract: [See also article, authors' English summary] The changes in cerebral activity in response to the mechanical stimulation of the carotid sinus were studied in cats and dogs, in acute and chronic experiments. Stretching the wall of the sinus resulted in characteristic changes in the cortical electrical activity and strychnine potentials; the stimulant action was not exerted through the sinus nerve. The activation of carotid origin presented itself in the form of a typical arcus reaction; it may be the starting signal of a conditioned reflex. Eighteen references, including 5 Hungarian, 4 German, 1 Russian, and 8 Western.

1/1

MARKEL, Eva; DONATH, Olga; ADAM, Gyorgy

Effect of stimulation of the carotid sinus on the cerebral potential modified by strychnine. Kiserl. orvostud. 16 no.1: 1-7 Ja'64.

Motor conditioned reflex induced by the mechanical stimulation of the carotid sinus.

1. Budapesti Orvostudományi Egyetem Elettani Intézete.

\*

MARKEL, Eva; ADAM, G.

Elementary temporary connection in the mesencephalic cat.  
Acta physiol. acad. sci. Hung. 26 no.1:81-87 '65

1. Institute of Physiology, University Medical School,  
Budapest.



L 45475-66

ACC NR: AT6033349

SOURCE CODE: HU/2505/65/026/01-/0081/0087

AUTHOR: Markel, Eva; Adam, G.

ORG: Institute of Physiology, Medical University of Budapest (Budapesti Orvostudományi Egylet, Elettani Intezet)

TITLE: Elementary temporary connection in the cat mesencephalon [Paper presented at the symposium of the Hungarian Physiological Society held in Budapest from 2-3 July 1963]

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 26, no. 1-2, 1965, 81-87

TOPIC TAGS: cat, brain, biologic respiration, electrophysiology, animal physiology  
ABSTRACT: An attempt has been made to set up a temporary connection for a few days, following total transection at the level of the superior colliculus (high decerebration) in cats. The respiratory changes evoked by the direct electrical stimulation of the central vagal stump were reinforced by stimulation of the pelvic nerve. Before training, pelvic stimulation alone caused no change in the amplitude and frequency of breathing. After 100 reinforcements, the amplitude and frequency of respiration had changed in response to pelvic stimulation alone, i.e. a conditioned respiratory change had developed. After 200-300 trainings, this reaction became established and persisted for as long as 24 hours. The phenomenon can be considered an elementary form of temporary connection which can be induced at the mesencephalic level. Orig. art. has: 5 figures. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 009 / OTH REF: 003  
Card 1/1 fv

MARKELLOV, A., konstruktor.

Designing a telephone and sound telegraph. IUa.tekh.no.1:55-58  
Ja '57. (MIRA 10:3)

1. Zavodnyushchiy laborateriyey promyshlennoy tekhniki Tsentral'noy  
stantsii yunykh tekhnikov imeni N.M. Shvernika.  
(Telephone--Apparatus and supply) (Telegraph--Apparatus and supply)

MARKELLOV, A.A.

Apparatus for determining the thermic coefficient of linear  
expansion. Politekh. obuch. no.5:84-85 My '58. (MIRA 11:5)  
(Scientific apparatus and instruments)

MARKELLOV, A.

Making a magnetic tape recorder (to be continued). IUn.tekh.  
3 no.1:68-70 Ja '59. (MIRA 12:1)  
(Magnetic recorders and recording)

MARKELLOV, A.

Building a magnetic tape recorder. IUn.tekh. 3 no.2:50-52  
F '59. (MIRA 12:1)  
(Magnetic recorders and recording)

MARKELLOV, A.A.; SPAKHURSKIY, A.Ye., red.; KOVSHOVA, O.N., red, izd-va;  
LEBKIN, O.S., tekhn. red.

[Homemade lathe (make it for your workshop)] Samodel'nyi  
tokernyi stanok (Sdelajte dlia masterskoi). Moskva, Izd-vo  
kul'tury RSFSR, Izd-vo "Detalii mir," 1960. 1 fold. (Prilo-  
zhenie k zhurnalu "IUnyi tekhnik" no.14 (80))

(MIRA 14:1)

1. Tsentral'naya stantsiya inykh tekhnikov, Moscow.  
(Lathes)

MARKKLOV, Aleksandr Aleksandrovich; KOVSHOVA, O.N., red.; VLASNKO,  
L.N., tekhn.red.

[Homemade magnetic tape recorders] Samodel'nyi magnitofon.  
Moskva, M-vo kul'tury RSFSR. Izd-vo "Detskii mir," 1960.  
36 p. (MIRA 13:7)  
(Magnetic recorders and recording)

MARKELLOV, A.

Kaleidoscope-projector. IUn.tekh. 4 no.2:62 P '60.  
(MIRA 13:6)

(Projectors)



MAKRELOV, A.

"Mikros" motor operating on a current converter. IUn.  
Tekh, 4 no.5:59 My '60. (MIRA 13:7)  
(Electric toys) (Current converters)

MARKELLOV, A.; STAKHURSKIY, A.Ye., red.; NOVOSEL'TSEVA, O.N., otv. red.;  
BLANKSHEYN, S.S., tekhn. red.

[Homemade light fixtures] Samodel'nye svetil'niki. Moskva, Izd-vo "Detskii mir," 1962. 1 fold. l. (Prilozhenie k zhurnalu "IUnyi tekhnik," no.3(117)) (MIRA 15:1)

1. Tsentral'naya stantsiya yunyykh tekhnikov, Moscow.  
(Electric light fixtures)

MARKELLOV, A.

Magneto-phonograph (to be continued). Nauka i zhizn' 29 no.5:64b-  
64c, 98-103 My '62. (MIRA 15:11)  
(Telegraphone)

MARKELLOV, A.

Tape recorder. Nauka i zhizn' 29 no.6:96-101 Je '62.

(MIRA 15:10)  
(Magnetic recorders and recordings)

MARKELLOV, A.

Tape heads. Nauka i zhizn' 29 no.10:106-107 0 '62. (MIRA 15:12)  
(Magnetic recorders and recording)

LAFFIN, I. I.

Study of radiation materials (metal alloys, polymers and plastics) and  
and cooling systems. Moscow, Voen. izd-vo, 1943. 152 p. (49-31782)

TL698.M3

*1001.1111*  
MARKELLOV, P. P., and I. ZEL'DIS.

Materialovedenie i tekhnologiya aviatsion-nykh materialov. Moskva, Voenizdat, 1947. 292 p.

Title tr.: Technology of aircraft materials. Reviewed by IU. M. Lakhtin and V. G. Kaliuzhnyi in Sovetskaia kniga, 1948, no. 6, p.46.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

DEMCHENKO, I.I.; KARANT, S.B., -mekhanik-izobretatel' (Zhitomir); MARKELOV, A.;  
DEMIDOV, I.

For critical comments. Besop.truda v prom. 7 no.2:32 F '63.

(MIRA 16:2)

1. Zamertitel' ministra stroitel'stva i stroitel'nykh materialov  
Moldavskoy SSR (for Demchenko). 2. Chelyabinskoye rudoupravleniye  
(for Markelov).

(Industrial safety)



L 41182-65 EWT(d)/EWP(o)/EWP(v)/T/EWP(k)/EWP(l) Pf-4  
ACCESSION NR: AP5004677 S/0115/64/000/009/0058/0059

50 c  
70  
18  
8

AUTHOR: none

TITLE: Fourth scientific and technical conference on "Cybernetics for the improvement of measurement and inspection methods"

SOURCE: Izmeritel'naya tekhnika, no. 9, 1964, 58-59

TOPIC TAGS: cybernetics, electric measurement, electric quantity instrument, digital computer, electronic equipment, electric engineering conference

ABSTRACT: The conference was held 1-4 July at the All-Union Scientific Research Institute of Metrology by the Section of Electrical Measurements of the Council on the Problem of "Scientific Instrument Making" of the State Committee on Coordination of Scientific Research Work in the USSR together with the All-Union Scientific Research Institute of Electrical Measurement Instruments and the Leningrad Regional Administration of the Scientific and Technical Division of the Instrument Making Industry. More than 400 delegates from 29 cities of the country participated. Fifty-seven reports were heard and discussed. Reports were given by: P. V. NOVITSKIY (Leningrad)--"Definition of the Concept of Informational Error in Measurement and its Importance in Practical Use" and "On the Problem of the Average Informational Criterion of Accuracy Throughout the Entire Scale of an Instrument"; Ya. A. Card 1/4

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ACCESSION NR: AP5004677

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KUPERSHCHIKOV (Moscow)--"On Determination of the Criteria of Accuracy for Measurement Devices"; S. M. MANDEL'SHTAM (Leningrad)--report on a new criterion of accuracy of measurement instruments; P. P. PARSHIN (Leningrad)--report on optimization when using Fourier transforms on electronic digital computers; S. P. DMITRIYEV, G. Ya. DOLGINITSEVA and A. A. IGNATOY (Leningrad)--proposal of a new method for solving problems of optimum filtering for non-stationary random signals and interference; I. B. CHELPAKOV--"Calculation of the Dynamic Characteristics of an Optimum Complex Two-Channel System which Uses Signals from a Position Meter and from a Speed Meter"; R. A. POLUEKTOV (Leningrad)--"Optimum Periodic Correction in the Measurement of Continuous Signals"; S. P. ADAMOYICH (Moscow)--"Analysis and Construction of Devices for Correction of Non-linearity and Sealing for Unitary Codes"; G. V. GORBLOVA (Taganrog)--"A Method for Statistical Optimization in Graduating the Scales of Electrical Measuring Instruments"; M. A. ZEMEL'MAN (Moscow)--"Analog-Digital Voltage Converter with Automatic Error Correction"; B. N. KALINOVSKIY, V. S. KALENCHUK and I. A. YANOVICH (Kiev)--"Automatic Monitoring of the Parameters of the Electrical Signals of Complex Radio and Electronic Equipment"; V. P. PEROV (Moscow)--"Operational Cybernetics as an Independent Scientific Specialization"; Ye. N. GIL'BO (Leningrad)--"On the Problem of Effective Non-linear Scales"; A. I. MARKELOV (Moscow)--"Devices for Preliminary Processing of the Results of Measurements Presented in the Form of

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ACCESSION NR: AP5001677

20

Graphic Recordings For Subsequent Introduction of the Information into Universal Digital Computers"; O. M. MOGILSVER and S. S. SOKOLOV (Leningrad)--"On a Method for Reducing Excess Information"; T. V. NIKOLAYEVA (Leningrad)--"A Device for Temporal Discretization of Continuous Signals"; A. A. LYOVIN and M. L. BULIS (Moscow)--"Optimization of the Transmission of Telemetric Information as a Means for Raising the Efficiency and Eliminating Interference"; D. E. GUKOVSKIY (Moscow)--"On a Statistic Approach to the Detection of Events in Automatic Inspection"; M. I. LANIN (Leningrad)--"Method for Calculating the Holding Time of Communications in a Centralized Inspection System or Constant Servicing Time"; O. N. BRONSHTEYN, A. L. RAYKIN and V. V. RYKOV (Moscow)--"On a Single-Line Mass Service System with Losses"; V. M. SHLYANDIN (Penza)--report on circuit designs for direct compensation electrical digital measuring instruments; A. N. KCMOV (Novocherkassk)--report on a new method for compensation of digital bridges; M. N. GLAZOV (Leningrad)--report on the problem of voltage-to-angular rotation conversion; V. S. GUTNIKOY (Leningrad)--"Methods for Construction of Frequency Capacitance Pickups with a Linear Scale"; R. Ya. SYROPYATOVA and R. R. KHARCHENKO (Moscow)--report on the determination of the amplitude-frequency and phase characteristics of PFM and PWM modulators; Ye. I. TENYAKOV (Novocherkassk)--"The Phototransistor as a Switch for Electrical Measurement Purposes"; N. V. MALYGINA (Leningrad)--a report on ways for making universal equipment for measurement of current, voltage and power; P. P. ORNATSKIY and V. I. ZOZULYA (Kiev)--reports on the construction of static voltmeters, wattmeters, and

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ACCESSION NR: AP5004677

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phase meters; A. V. TRIKHANOV, I. G. SMYSHLYAYEV, N. I. SABLIN, V. M. RAZIN and V. A. GORBUNOV (Tomsk)--report on a device for automatic processing of the measurements of vibration amplitude of pneumatic hammers; L. K. RUKINA and V. G. KNORRING (Leningrad)--report on the development of a digital compensator for measuring pressure, force, etc.; N. B. DADUKINA (Leningrad)--report on a method for constructing frequency pickups for gas analysis; Ye. M. KARPOV, V. A. BRAZHNIKOV and B. Ya. LIKHTSINDER (Kuybyshev)--reports on analysis and recording of boring speeds; Yu. V. PSHENICHNIKOV (Kuybyshev)--"A High Speed Voltage-to-Digital Code Converter for ac Pickups"; G. P. VIKHROV and Y. K. ISAYEV (Vilna)--"A Highly Accurate Digital Peak-to-Peak Voltmeter"; and S. M. PERSIN (Leningrad)--"A Low Level Analog-Digital Voltage Converter."

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EE, EO

NO REF SOV: 000

OTHER: 000

JPRS

MLL  
Card 4/4

VOINOV, S.G., kand.tekhn.nauk; MARKELOV, A.I. inzh.

New design of a 20-ton arc furnace. Metallurg 5 no.5:15-17 My '60.  
(MIRA 14:3)

(Electric furnaces)





ZINOV'YEV, Vladimir Andreyevich; GUKOV, I.T., inzh., retsenzent; MARKELOV,  
B.A., retsenzent; MESHKOV, P.I., inzh., red.; SAVEL'YEV, Ye.Ya.,  
red.izd-va; CHERNOVA, Z.I., tekhn.red.; UVAROVA, A.P., tekhn.red.

[Theory of mechanisms and machines] Teoriia mekhanizmov i mashin.  
Izd.2., ispr. i dop. Moskva, Gos.nauchno-tekhn.izd-vo mashino-  
stroit.lit-ry, 1959. 188 p. (MIRA 13:1)  
(Mechanical engineering)



SOSOVA, V.F.; PETROVICH, I.K.; MARKELOV, B.A.

Serological and hematological data on remote reaction to vaccination  
in dogs following introduction of radioactive strontium. Radiobiologia  
1 no.5:742-745 '61. (MIRA 14:11)  
(STRONTIUM—ISOTOPES) (VACCINATION)

ACC NR: AT6036567

SOURCE CODE: UR/0000/66/000/000/0178/0179

AUTHOR: Zukhbaya, T. M.; Kalandarova, M. P.; Markelov, B. A.; Popova, N. A.;  
Sizan, Ye. P.; Khakhanova, N. L.

ORG: none

TITLE: The biological effect of 12 exposures to gamma irradiation on white mice  
[Paper presented at the Conference on Problems of Space Medicine held in Moscow  
from 24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy  
kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii,  
Moscow, 1966, 178-179

TOPIC TAGS: ionizing radiation biologic effect, central nervous system, radiation  
sickness, mouse, radiation tolerance

ABSTRACT: Literature studies dealing with the effect of fractionated irradiation  
on injury and recovery processes in the animal organism have produced  
widely varying results. Furthermore, little data is available on the effect  
of repeated irradiation with small doses in the course of a year. In this  
series of experiments, 430 white mice were subjected to repeated monthly  
gamma irradiation on a GOP-1 installation in a dose of 12.5 r (dose power  
17  $\mu$ r/sec) with a total dose of 150 r/yr.

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ACC NR: AT6036567

A definite reaction of the hematopoietic system to irradiation was established. The most pronounced changes were observed in the white blood cell component. Study of the mitotic activity of corneal epithelium in experimental mice also showed a measurable reaction of the organism to irradiation. Chain motor conditioned reflexes in different periods after repeated irradiation indicate the sufficient compensation of radiation injuries in the central nervous system. Data from these experiments and results of statistical analysis indicate the existence of a definite reaction of white mice to twelve monthly gamma irradiations in the indicated dose. However, study of the dynamics of injury in a number of systems makes it seem possible that sufficiently complete recovery of the observed changes occurs owing to the compensatory mechanisms of the organism. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

Card 2/2

**MARKELOV, B.M., kapitan komandir minometnoy batarei.**

**Training fire platoons. Artill. zhur. no.2:46-48 P '58. (MIBA 11:3)**  
**(Mortars (Ordnance)) (Military education)**

PETROV, V. (g.Yevpatoriya); STREMENTAREV, Yu., tekhnolog; TORYANIK, M., inzh.;  
KARPOV, V., inzh.; PREOBRAZHENSKIY, A., ispolnyayushchiy obyazannosti  
tekhnoruka; MARKELOV, D., tokar'; KOTTEL, Yu., tekhnoruk

Innovators' contribution to industry. Prom.koop. 13 no.1:20-21 Ja '59.  
(MIRA 12:2)

1. Artel' "9-ya mekhanicheskaya," g. Moskva (for Strementarev). 2.  
Oblpromsovet, g. Sumy (for Toryanik). 3. Oblpromsovet, g. Sverdlovsk  
(for Karpov). 4. Artel' "Ob'yedinennyy trud," g. Ivanovo (for Preo-  
brashenskiy). 5. Artel' imeni III Internatsionala, g. Kerch (for Mar-  
kelov). 6. Artel' "Kul'tkhn," g. Kiyev (for Kottel').  
(Inventions, Employees')

OLEYNICHENKO, V.I.; RYNDIN, V.A.; MARKELOV, G.A., aspirant

Economic effectiveness of herbicides in winter wheat fields; from the practices used on the Lenin Collective Farm. Zashch. rast. ot vred. i bol. 4 no.2:10-12 Mr-Apr '59. (MIRA. 16:5)

1. Predsedatel' kolkhoza imeni Lenina Nevinnomysskiy rayon, Stavropol'skogo kraia, (for Oleynichenko). 2. Starshiy agronom kolkhoza imeni Lenina, Nevinnomysskiy rayon, Stavropol'skogo kraia, (for Ryndin). 3. Vsesoyuznyy institut zashchity rasteniy (for Markelov).

(Herbicides wheat)

MARKELOV, G.A.

Economic evaluation of chemical weed control in winter wheat fields.  
Trudy VIZR no.14:191-200 '60. (MIRA 14:2)  
(Weed control) (Nevinnomyask District—Wheat)

SHIPINOV, N.A.; MARKELOV, G.A.; LADONIN, V.F.

New developments in controlling the wild oat in virgin lands.

Zashch. rast. ot vred. i bol. 7 no.3:33-34 Mr '62. (MIRA 15:11)

(Virgin Territory--Wild oats) (Weed control)



SHIPINOV, N.A., kand. sel'skokh. nauk; LADONIN, V.F., kand. sel'skokh. nauk; MARKELOV, G.A.

Karbin, a herbicide for controlling wild oats. Zemledelie 25  
no.6:49-58 Je' '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity  
rasteniy (for Shipinov, Markelov). 2. Vsesoyuznyy nauchno-  
issledovatel'skiy institut udobreniy i agropochvovedeniya  
(for Ladonin).

(Wild oats) (Herbicides)

MARKELOV, G.A., nauchnyy sotrudnik

Carbine as a herbicide for the control of wild oats.

Zashch. rast. ot vred. i bcl. 9 no.12:28-30 '64. (MIRA 18:4)

1. Vsesoyuznyy institut zashchity rasteniy.

MUDROV, Gennadiy Illarionovich; MARKELOV, Georgiy Dmitriyevich;  
GLADKOV, V.A., red.; SYCHEVA, V.A., tekhn. red.

[Shock workers at building sites] Udarniki stroitel'nykh  
ploshchadok. Murmansk, Murmanskoe knizhnoe izd-vo, 1961.  
13 p. (MIRA 16:6)

(Murmansk--Building)

RODNOV, V.I.; MARTYNOV, B.P.; VASIL'YEV, N.V.; NIKOLAYENKO, B.Z.; GUROV, Ye.P.;  
VOLCHKOV, Ye.P.; NICHKOV, V.N.; MARKELOV, I.A.; GUBANOV, M.V.

What does your association offer for the 43d anniversary of the Great  
October? Chiefs of all-union associations speak. Vnesh. torg. 30  
no.10:28-33 '60. (MIRA 13:10)

1. Predsedatel' Vsesoyuznogo ob'yedineniya "Mashinoeksport" (for Rodnov).
  2. Predsedatel' Vsesoyuznogo ob'yedineniya "Mashinoimport" (for Martynov).
  3. Predsedatel' Vsesoyuznoye ob'yedineniye "Mashpriborintorg" (for Vasil'yev).
  4. Predsedatel' Vsesoyuznogo ob'yedineniya "Tekhnopromimport" (for Gubanov).
  5. Ispolnyayushchiy obyazannosti predsedatelya Vsesoyuznogo ob'yedineniya "Soyuzpromeksport" (for Nikolayenko).
  6. Predsedatel' Vsesoyuznogo ob'yedineniya "Soyuznefteeksport" (for Gurov).
  7. Predsedatel' Vsesoyuznogo ob'yedineniya "Promsyr'yeimport" (for Volchkov).
  8. Predsedatel' Vsesoyuznogo ob'yedineniya "Eksportles" (for Nichkov).
  9. Predsedatel' Vsesoyuznogo ob'yedineniya "Raznoeksport" (for Markelov).
- (Russia--Commerce)

MARKELOV, Ivan Alekseyevich; POLEVA, I.G., red.; MEDVEDEVA, R.A., tekhn.  
red.

[Contribution of the club to collective farm production] Klub -  
kolkhoznoma proizvodstvu; iz opyta raboty Vurmankasinskogo sel'-  
skogo kluba Vurnarskogo raiona Chuvashskoi ASSR. Moskva, Izd-vo  
"Sovetskaiia Rossiia." (Bibliotechka sel'skogo klubnogo rabotnika,  
no.7) No.3. 1961. 33 p. (MIRA 14:8)  
(Vurnary District—Collective farms)

MARKELOV, I.I.

Dynamics of the secretion of biologically active substances by the vegetative nervous system in ontogenesis. Trudy Vses.ob-va fiziol. biokhim.i farm. 2:84-87 '54. (MIRA 8:7)

1. Institut fiziologii Akademii nauk Kazakhskoy SSR.  
(AUTONOMIC NERVOUS SYSTEM, physiology,  
biologically active substance secretion in dogs of  
various ages)  
(AGING, physiology,  
autonomic NS biologically active substance secretion in  
dogs of various ages)

MARKELOV, I. I.

USSR,

Influence of the nervous system on the biological activity of the blood in ontogenesis. I. I. Markelov. *Izv. Akad. Nauk Kazakh. S.S.R. Ser. Biol. i Med. No. 5, 5-49 (1964) (in Russian).*—The blood of pups of various ages shows different biol. properties, which are directly correlated with the functioning of the nervous system. Up to 30 days of age the pups' blood has adrenalinic like properties, but with greater age it slowly acquires acetylcholine properties becoming adult in type by 2-2.5 months. In the 30-60 day period there is an apparent equilibrium between the adrenalinic and the acetylcholine types of activity, with gradual loss of the dominant position played by the centers of sympathetic nervous system. G. M. Kosolapov

*Markelov, I.I.*

POLOSUKHIN, A.P.; BIKETAYEV, A.M.; MARKLOV, I.I.

New data on vasodilator effect of the vagus nerve. *Fiziol. zhur.* 41  
no.6:760-764 '55. (MLRA 9:3)

1. Institut fiziologii AN Kazakhskoy SSR, Alma-Ata.  
(NERVES, VAGUS, physiology,  
eff. of section in animals, vasodilat)  
(CARDIOVASCULAR SYSTEM, physiology,  
eff. of section of vagus nerves in dogs, vasodilat.)



USSR/Human and Animal Physiology (Normal and Pathological) T  
Blood Circulation. Vessels.

Abs Jour : Ref Zhur Biol., No 6, 1959, 26603

Author : Polosukhin, A.P., Deketayev, A.M., Markelov, I.I.

Inst : -

Title : Participation of Vagal Nerves in the Central Regulation  
of Lumen of Blood Vessels of Internal Organs.

Orig Pub : V sb.: Probl. fiziol. tsentr. nervn. sistemy, M.L., AN  
SSSR, 1957, 455-459

Abstract : Transection of the trunk of the vagal nerve below the  
departure of cardiac branches induced a stable increase  
of blood pressure. In stimulation of peripheral termi-  
nals of these nerves, the blood pressure fell as a re-  
sult of the blood vessels' dilatation. In pups up to 3  
weeks old, the increase of blood pressure in transsec-  
tion of vagal nerves and its fall in their stimulation  
was absent. In older pups the effect took place and

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- 50 -

USSR/Human and Animal Physiology (Normal and Pathological)  
Blood Circulation. Vessels.

T

Abs Jour : Ref Zhur Biol., No 6, 1959, 26603

reached its maximum at  $1\frac{1}{2}$  - 2 months. It is possible  
that decrease of vagal nerve tonus is one of the causes  
of hypertonia. -- A.M. Ryabinovskiy

Card 2/2

MARKELOV, I.I.

Reflexes from the receptors of the urinary bladder affecting blood circulation in the kidneys. Izv. AN Kazakh. SSR. Ser. med. i fiziol. no.2:16-20 '59 (MIRA 13:3)  
(REFLEXES) (BLADDER--INNERVATION)  
(KIDNEYS--BLOOD SUPPLY)

BLOKHOV, V.P., *gyardii* podpolkovnik meditsinskoy sluzhby; MARKELOV, I.M., kapitan meditsinskoy sluzhby; MUKHIN, V.F., kapitan meditsinskoy sluzhby

Rapid detection of the causative agent of certain diseases by the use of fluorescent antibodies. *Voen.-med.zhur.* no.6:71-75 Je '59. (MIRA 12:9)

(ANTIBODIES

fluorescent antibodies, diag. value in various dis. (Rus))

MARKELOV, I.M.; DOLGUSHEV, S.I.

Method for determining bilirubin in the blood serum. Lab. delo 8 no.2:  
19-21 F '62, (BILIRUBIN) (BLOOD ANALYSIS AND CHEMISTRY) (MIRA 15:2)

MARKELOV, I.M.

Fractional composition of myocardial proteins in experimental myocardial infarction. Vop. med. khim. 10 no.5:499-504 S-0 '64. (MIRA 18:11)

1. Kafedra biokhimi: Voenno-meditsinskoy ordena Lenina akademii imeni Kirova, Leningrad.

IVANOV, I.I.; KOROVKIN, B.F.; MARKELOV, I.M.; CHERNIYENKO, I.S.

Change in the enzymic activity of sarcoplasmatic proteins of  
heart muscle in experimental myocardial infarction. Ukr.biokhim.zhur.  
37 no.5:712-720 '65. (MIRA 18:10)

1. Kafedra biokhimi Voenno-meditsinskoy ordena Lenina akademii  
imeni S.M.Kirova.

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621.039.512.45

AUTHOR: Inyutin, Ye. I.; Kochergin, V. P.; Markelov, I. P. 44,55 46,55 44,55 35

TITLE: Equalized flux of thermal neutrons in uranium-water reactors B

SOURCE: Atomnaya energiya, v. 19, no. 1, 1965, 38

TOPIC TAGS: <sup>19, 44, 55</sup> water moderated reactor, nuclear reactor core, neutron flux, nuclear reactor power, nuclear characteristic

ABSTRACT: The authors summarize an unpublished paper (No. 20/3241) dealing with an analysis of several variants of designs of U<sup>235</sup>-ordinary-water thermal reactors in which the neutron flux is equalized. The data can be used to define the range of parameters in which it is most advantageous to carry out more accurate calculations of irregularly-distributed uranium-water lattices. The calculations were made in an 18-group approximation, using an electronic computer for the one-dimensional problem of cylindrical geometry with a five-zone program. The flux was equalized by simultaneously varying the fuel rod distribution and the moderator density. All reactors had a diameter of 100 cm and a variable diameter (30-100 cm). The U<sup>235</sup> enrichment ranged from 5 to 90%. M-10 fuel elements were used (Ye. I. Inyutin et al.

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Paper 359 at the 1964 Geneva Conference). The relations between the various characteristics are presented in the original unpublished paper in the form of numerous graphs, which make it possible to determine the dimension of the reactor core and to estimate the number of regions into which the core is to be subdivided. A simple linear distribution of the fuel rods frequently simplifies the problem considerably.

[02]

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Monograph

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Dubovskiy, B. G.; Kamayev, A. V.; Kuznetsov, P. M.; Vladykov, G. M.; Gurin, V. N.;  
Murashov, A. P.; Markelov, L. P.; Kochergin, V. P.; Vaymagin, A. A.; Sviridenko,  
V. Ya.; Diyev, L.V.; Bogatyrev, V.K.; Vavilov, V. V.; Frolov, V. V.

Critical parameters of systems with fissionable materials and nuclear safety; a  
handbook (Kriticheskiye parametry sistem s delyashchimiya veshchestvami i  
yadernaya bezopasnost'; spravochnik) Moscow. Atomizdat. 1966. 225 p. biblio. ,  
diagrs., tables. 9000 copies printed.

TOPIC TAGS: nuclear safety, nuclear reactor, homogeneous nuclear reactor,  
heterogeneous nuclear reactor, chain reaction

PURPOSE AND COVERAGE: This handbook is intended for specialists concerned with  
the problems of assuring nuclear safety as well as for persons calculating, de-  
signing, operating, and studying the physics of nuclear reactors of various types,  
as well as for students in associated departments. The book discusses methods of  
creating and maintaining conditions which will exclude the possibility of an  
accidentally chain reaction during the processing, storage, and transportation of  
fissionable materials. The book is based mainly on the results of studies pub-  
lished before 1965. In addition to information on critical parameters of systems  
with fissionable materials, the authors considered it useful to include in the  
handbook the fundamental concepts of criticality, principles for assuring nuclear  
safety, a review of cases of the occurrence of uncontrolled chain reactions,

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and the basic standards for nuclear safety. The authors express appreciation to M. P. Rodionov, T. I. Sukhoverkhova, M. A. Gavrilova, and L. V. Antonkina for their valuable assistance. There are 64 references, 30 of which are Soviet.

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MARKBLOV, I.Ya., insh.

Method of arranging and stretching dispersed reinforcements.  
Trudy TSNIIRF no.40:109-118 '59. (MIRA 13:6)  
(Reinforcing bars)