

ROMANOV, V.A., kand.tekhn.nauk; GOL'DBAUM, I.Ya., inzh.

Determining steady phase errors in follow-up systems converting sinusoidal inputs into proportional variations of electric-motor rotation speed. Izv.vys.ucheb.zav.; prib. no.5:24-31 '58. (MIRA 12:6)

1. Leningradskiy politekhnicheskii institut im. M.I.Kalinina.
(Electric controllers)

Card 2/2

8 (6)

SOV/112-57-5-10128

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 5, p 77 (USSR)

AUTHOR: Domanskiy, B. I., Romanov, V. A., Potapov, B. I.

TITLE: Problems in Development of Electrohydraulic Speed Control Systems for Hydraulic Turbines (Voprosy razrabotki sistem elektrogidravlichesкого regulirovaniya skorosti gidroturbin)

PERIODICAL: Tr. Leningr. politekhn. in-ta, 1956, Nr 184, pp 361-365

ABSTRACT: Interconnected power system operation requires a number of automatic control devices to increase economy and reliability; the devices must affect the turbine torque by resetting mechanical speed governors. Growing requirements of the precision of frequency control and load distribution involve allowances for many factors. Specifically, hydraulic-turbine governors must respond to changes in water conditions. In this connection, the adoption of electric sensing units is natural, as they simplify introducing stabilizing means into the control system. The pickups using simple frequency-dependent

SOV/112-57-5-10128

Problems in Development of Electrohydraulic Speed Control Systems for

circuits have proved the most suitable; specifically, parallel resonant circuits that ensure necessary sensitivity in a broad band of velocity variation (80-130% of the rated velocity) are the most suitable. Resetting of such circuits can be made by changing the inductance of a reactor by additional magnetizing current or by applying appropriate voltages to the circuit. One of the circuit diagrams is presented. Plunger-type and transverse-movement type electromagnets can be used as final control elements.

V.G.D.

ROMANOV, V.A., inzh.

Efficient utilization of drilling machines. Mashinostroitel'
no.4:21-23 Ap '59. (MIRA 12:6)
(Drilling and boring machinery)

ROMANOV, V.A.

[Cultivating millet in the southeastern part of the U.S.S.R.]
Vozdelyvanie prosa na IUgo-Vostoke SSSR. Moskva, Gos.izd-vo
selkhoz lit-ry, 1958. 70 p. (MIRA 12:4)
(Millet, Proso)

ROMANOV, Vasilii Arsen'yevich

Academic degree of Doctor of Technical Sciences, based on his defense, 20 June 1955, in the Council of the Moscow Mining Institute named after Stalin, of his dissertation entitled: "Questions of the Theory and Practice of Equalizing the Results of Marksheyder Measurements."

Academic degree and/or title: Doctor of Sciences

SC: Decisions of VAK, List no. 25, 10 Dec 55, Byulleten' MVO SSSR,
Uncl. JPRS/NY 543

ABRAMOV, S.K., kand.tekhn.nauk; AVERSHIN, S.G., prof., doktor tekhn.nauk;
 AMMOISOV, I.I., doktor geol.-min.nauk; ANDRIYEVSKIY, V.D., inzh.;
 ANTROPOV, A.N., inzh.; APANAS'YEV, B.L., inzh.; BERGMAN, Ya.V.,
 inzh.; BLOKHA, Ye.Ye., inzh.; BOGACHEVA, Ye.N., inzh.; BUKRINSKIY, V.A.,
 kand.tekhn.nauk; VASIL'YEV, P.V., doktor geol.-min.nauk; VINOGRADOV,
 B.G., inzh.; GOLUBEV, S.A., inzh.; GORDIYENKO, P.D., inzh.; GUSEV, N.A.,
 kand.tekhn.nauk; DOROKHIN, I.V., kand.geol.-min.nauk; KALMYKOV, G.S.,
 inzh.; KASATOCHKIN, V.I., doktor khim.nauk; KOROLEV, I.V., inzh.;
 KOSTLIVTSEV, A.A., inzh.; KRATKOVSKIY, L.F., inzh.; KRASHENINNIKOV, G.F.,
 prof. doktor geol.-min.nauk; KRIKUNOV, L.A., inzh.; LEVIT, D.Ye., inzh.;
 LISITSA, I.G., kand.tekhn.nauk; LUSHNIKOV, V.A., inzh.; MATVEYEV, A.K.,
 dots., kand.geol.-min.nauk; MEFURISHVILI, G.Ye., inzh.; MIRONOV, K.V.,
 inzh.; MOLCHANOV, I.I., inzh.; NAUMOVA, S.N., starshiy nauchnyy sotrudnik;
 NEKIPELOV, V.Ye., inzh.; PAVLOV, F.F., doktor tekhn.nauk; PANYUKOV, P.N.,
 doktor geol.-min.nauk; POPOV, V.S., inzh.; PYATLIN, M.P., kand.tekhn.
 nauk; RASHKOVSKIY, Ya.E., inzh.; ROMANOV, V.A., prof., doktor tekhn.
 nauk; RYZHOV, P.A., prof., doktor tekhn.nauk; SELYATITSKIY, G.A., inzh.;
 SPERANSKIY, M.A., inzh.; TERENT'YEV, Ye.V., inzh.; TITOV, N.G., doktor
 khim.nauk; GOKAREV, I.F., inzh.; TROYANSKIY, S.V., prof., doktor geol.-
 min.nauk; FEDOROV, B.D., dots., kand.tekhn.nauk; FEDOROV, V.S., inzh.
 [deceased]; KHOMENTOVSKIY, A.S., prof., doktor geol.-min.nauk; TROYANOV-
 SKIY, S.V., otvetstvennyy red.; TERPIGOREV, A.M., red.; KRIKUNOV, L.A.,
 red.; KUZNETSOV, I.A., red.; MIRONOV, K.V., red.; AVERSHIN, S.G., red.;
 BURTSEV, M.P., red.; VASIL'YEV, P.V., red.; MOLCHANOV, I.I., red.;
 RYZHOV, P.A., red.; BALAIDIN, V.V., inzh., red.; BLOKH, I.M., kand.
 tekhn.nauk, red.; BUKRINSKIY, V.A., kand.tekhn.nauk; red.; VOLKOV, K.Yu.,
 inzh., red.; VOROB'YEV, A.A., inzh., red.; ZVONAREV, K.A., prof. doktor
 tekhn.nauk, red.

(Continued on next card)

ABRAMOV, S.K.-- (continued) Card 2.

ZDANOVICH, V.G., prof., doktor tekhn.nauk, red.; IVANOV, G.A., doktor geol.-min.nauk, red.; KARAVAYEV, N.M., red.; KOROTKOV, G.V., kand.geol.-min.nauk, red.; KOROTKOV, M.V., kand.tekhn.nauk, red.; MAKKAVEYEV, A.A., doktor geol.-min.nauk, red.; OMEL'CHENKO, A.N., kand.tekhn.nauk, red.; SENDERZON, E.M., kand.geol.-min.nauk, red.; USHAKOV, I.N., dots., kand.tekhn.nauk, red.; YABLOKOV, V.S., kand.geol.-min.nauk, red.; KOROLEVA, T.I., red.izd-va; KASHAIKINA, Z.I., red.izd-va; PROZOROVSKAYA, F.I., tekhn.red.; NADEINSKAYA, A.A., tekhn.red.

[Mining; an encyclopedia handbook] Gornoe delo; entsiklopedicheskiy spravochnik. Glav. red. A.M.Terpigorev. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po ugol'noi promyshl. Vol.2. [Geology of coal deposits and surveying] Geologiya ugol'nykh mestorozhdenii i marksheiderskoe delo. Redkolegiia tozha S.V.Troianskiy. 1957. 646 p. (MIRA 11:5)

1. Chlen-korrespondent AN SSSR (for Karavayev)
(Coal geology--Dictionaries)

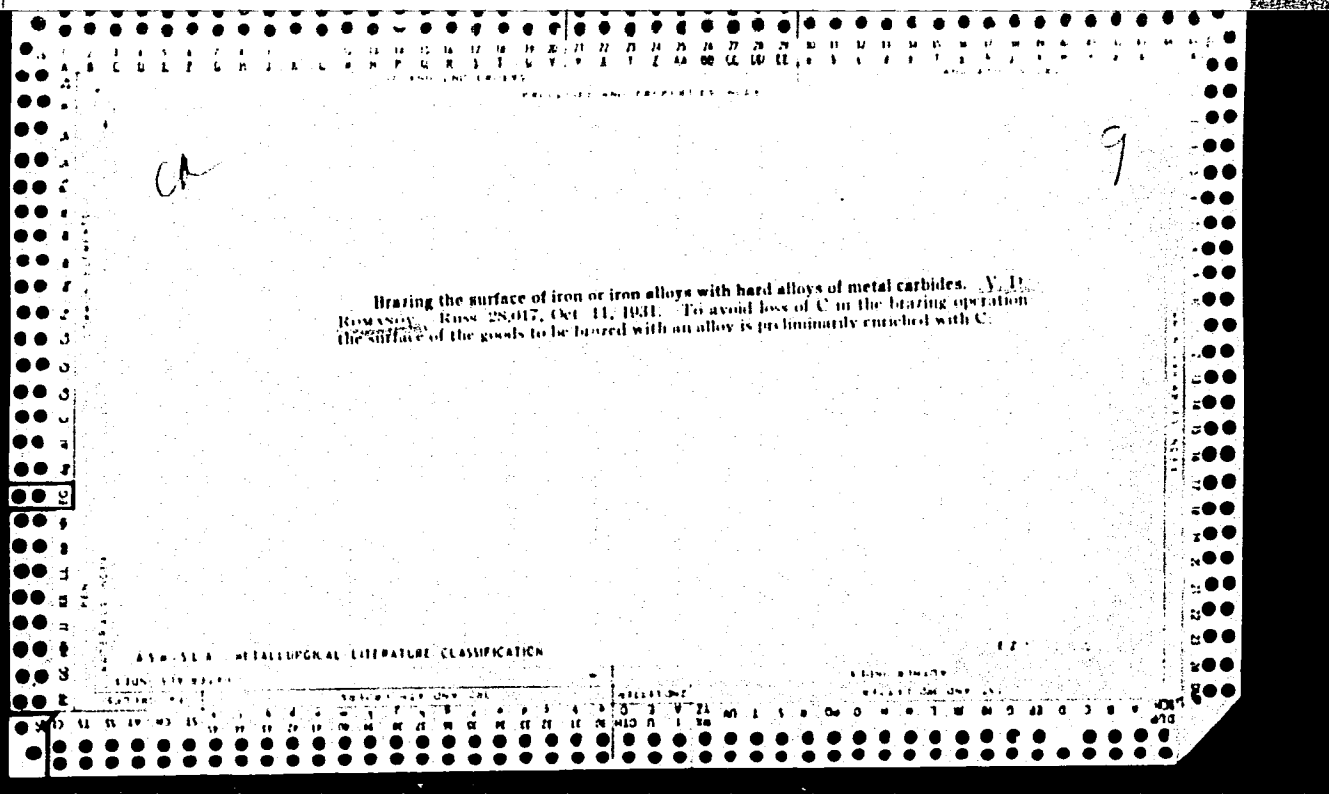
ROMANOV, V.A.

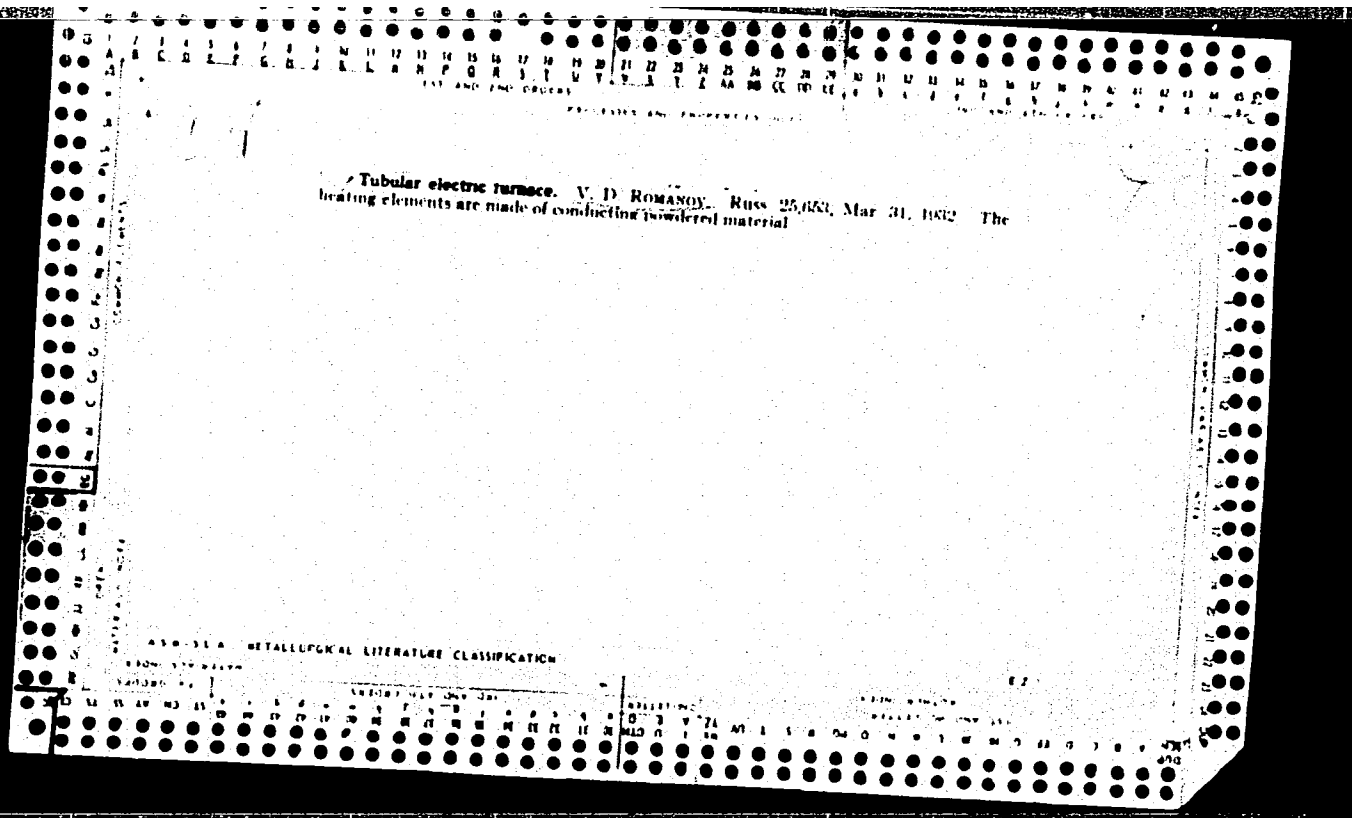
Precision measurement of the energy of certain lines in the spectra of Ir¹⁹² and Eu^{152, 154}. *Izv. AN SSSR, Ser. fiz.* 22 no.2:191-193 F '58. (MIRA 11:4)

1. Leningradskiy fiziko-tekhnicheskii institut AN SSSR,
(Iridium--Isotopes) (Europium--Isotopes)

ROMANOV, V.B.

Dimensions and taper of core prints in shell molds. Lit. proizv.
no.10:41 0 '63. (MIRA 16:12)





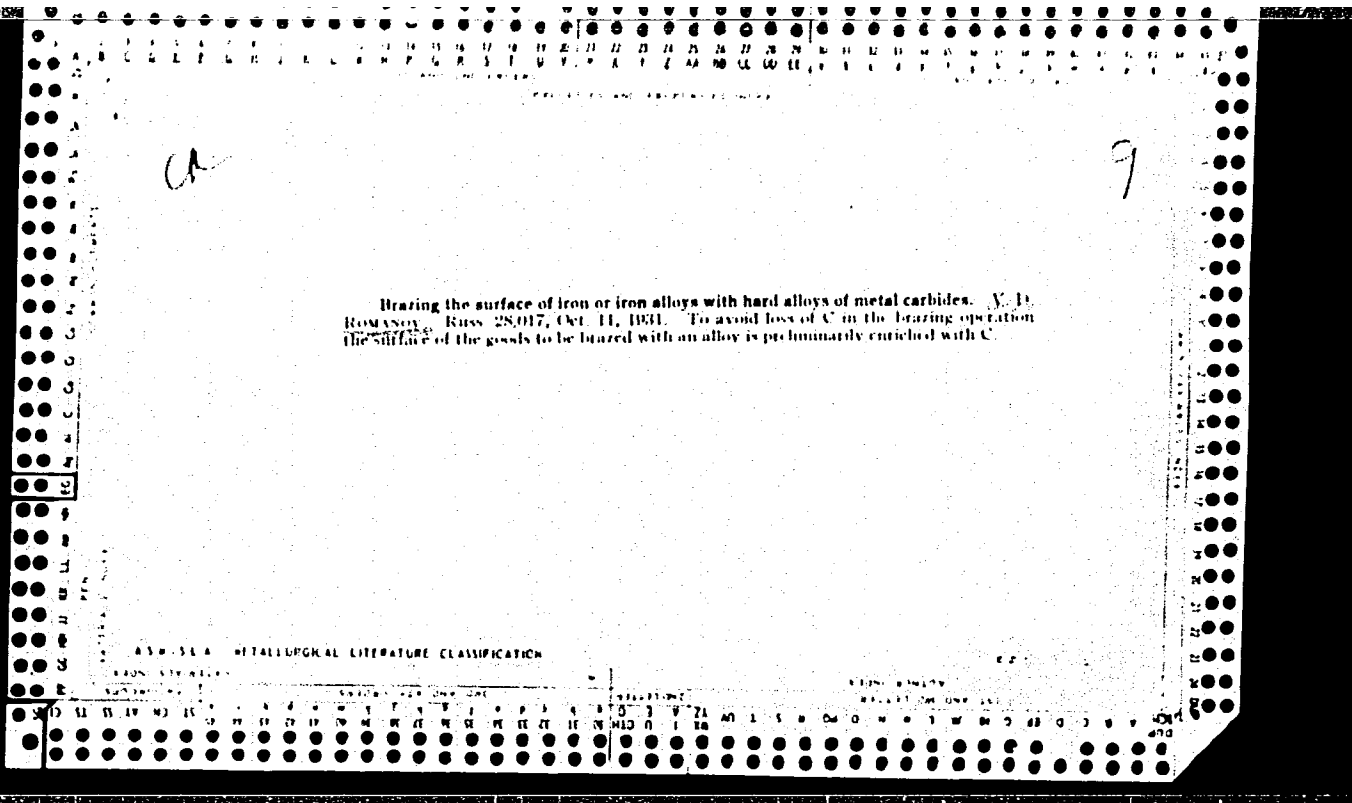
PROCESSES AND PROPERTIES INDEX

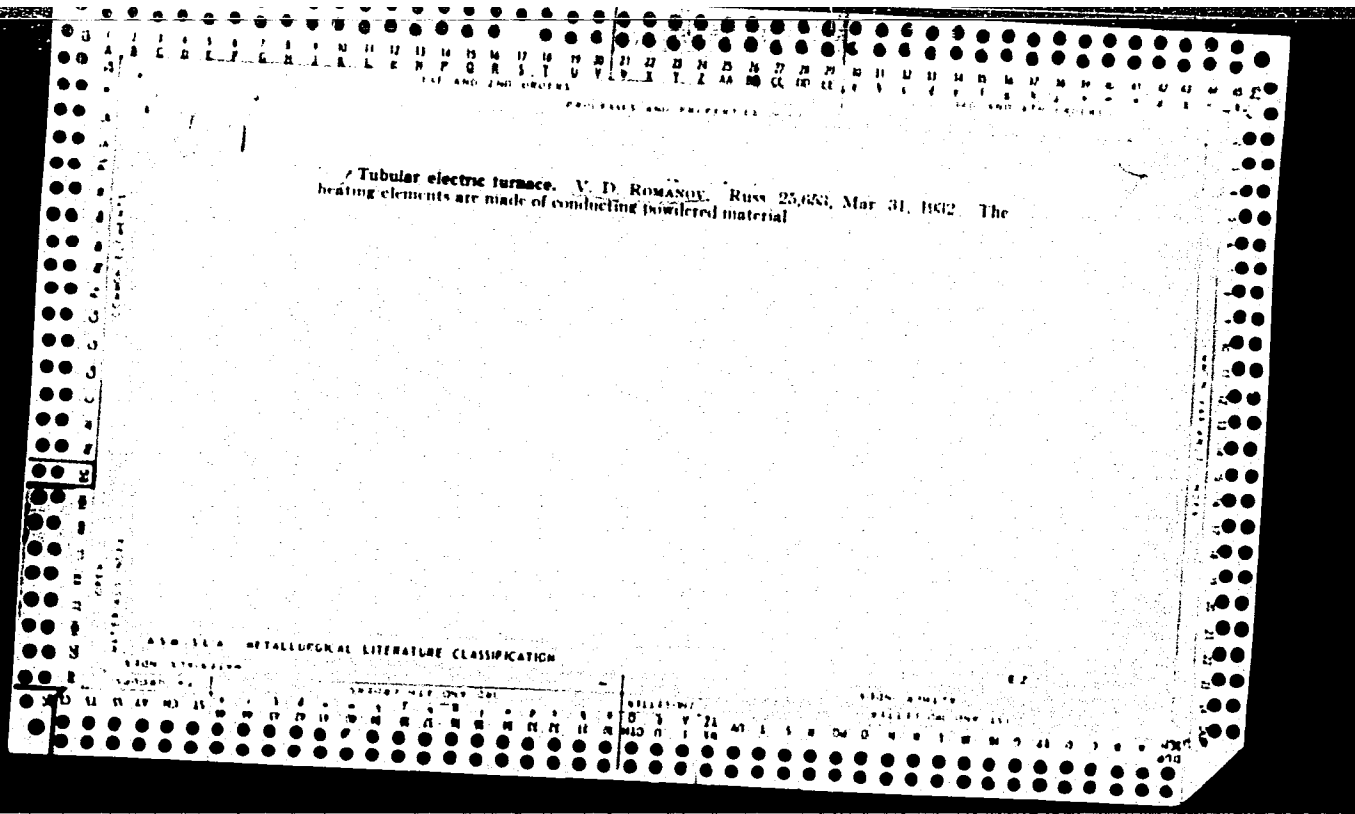
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Welding the Alloy "Vokar" in Strips. V. D. Romanyov and P. F. Roshtshin (Rudkie Metally (Rare Metals), 1963, (3), 10-16). [In Russian.] Welding of the hard alloy Vokar on to the drills used in the petroleum industry by means of separate vertical strips instead of in one continuous layer doubles the drilling speed and reduces the consumption of the alloy by 30%.—D. S. S.

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1ST AND 2ND PAGES

PROCESSES AND PROPERTIES INDEX

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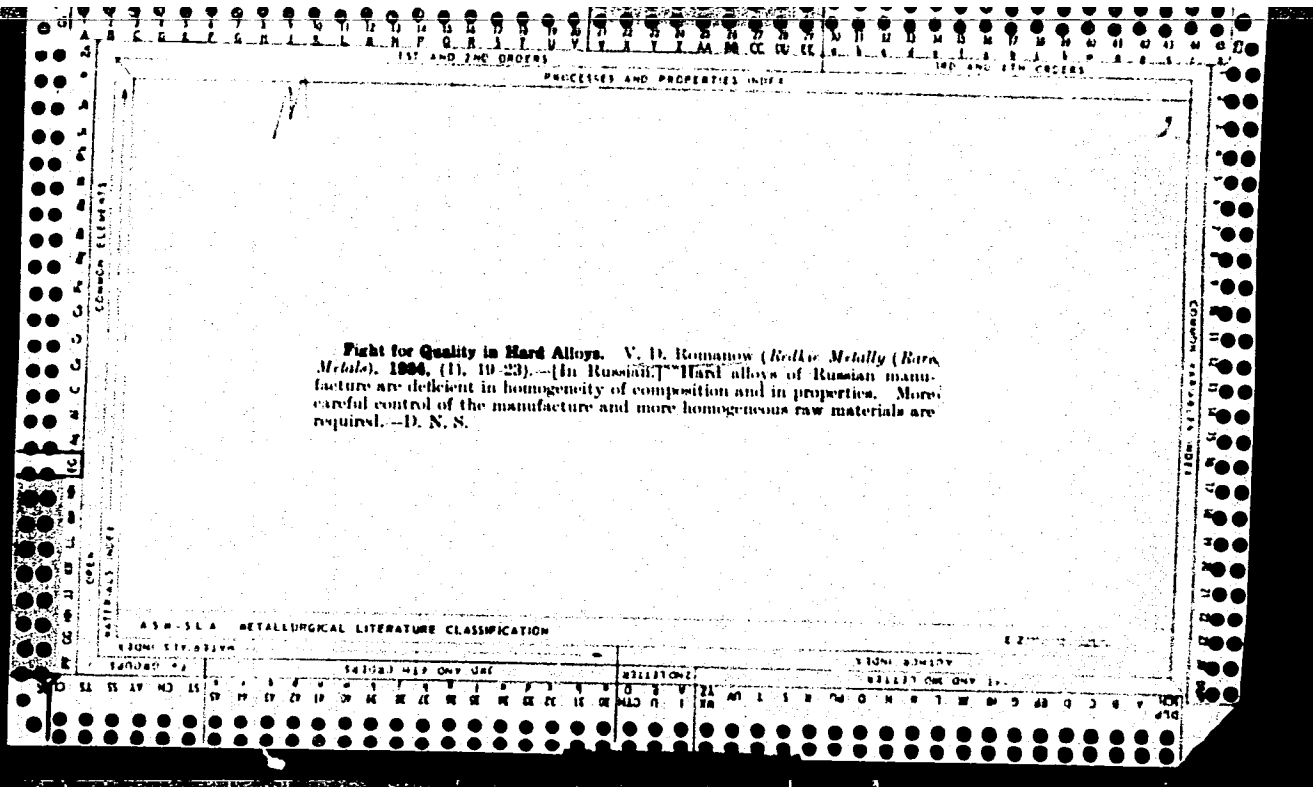
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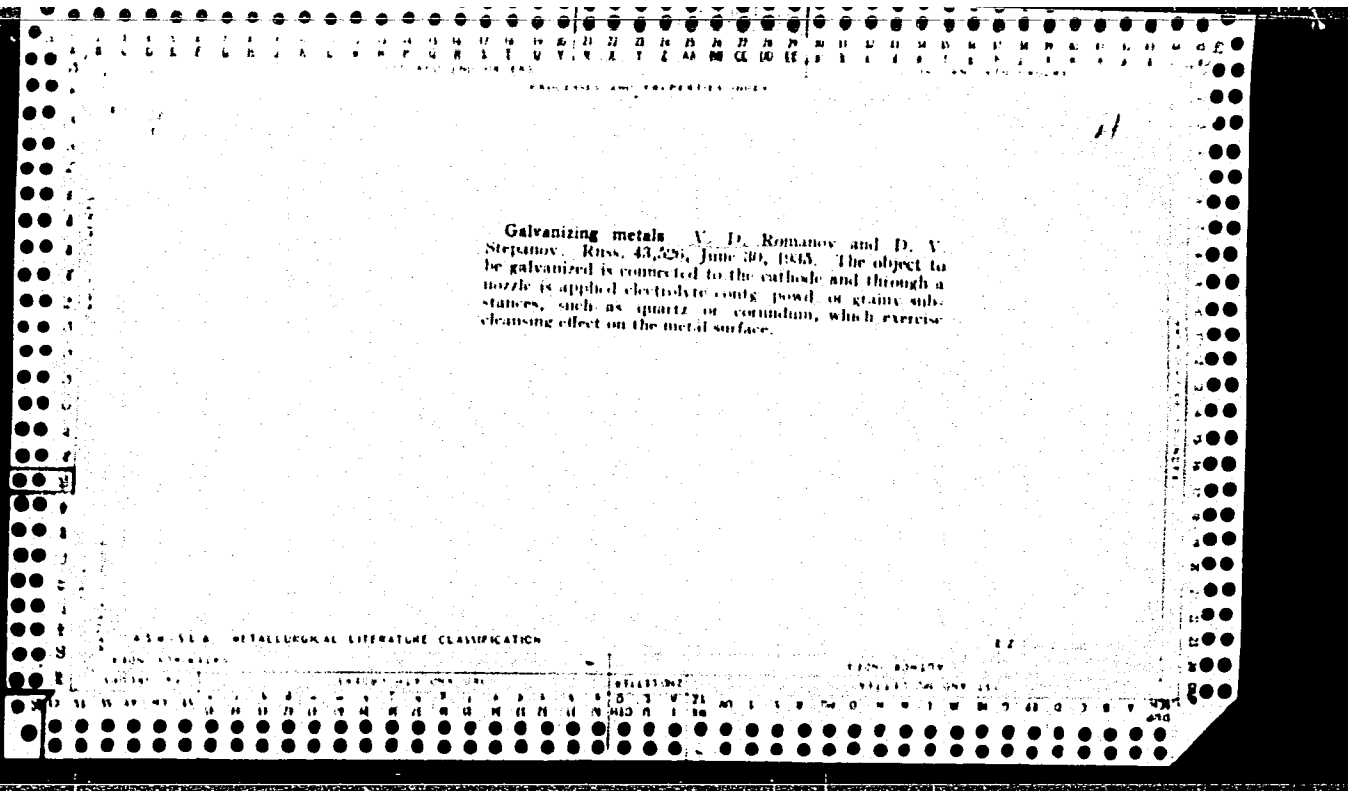
***Welding the Alloy "Vokar" in Strips.** V. D. Romanyov and P. F. Roshtahin (*Russk. Metalli (Rare Metals)*, 1968, (3), 10-16). [In Russian.] Welding of the hard alloy Vokar on to the drills used in the petroleum industry by means of separate vertical strips instead of in one continuous layer doubles the drilling speed and reduces the consumption of the alloy by 30%.—D. S. S.

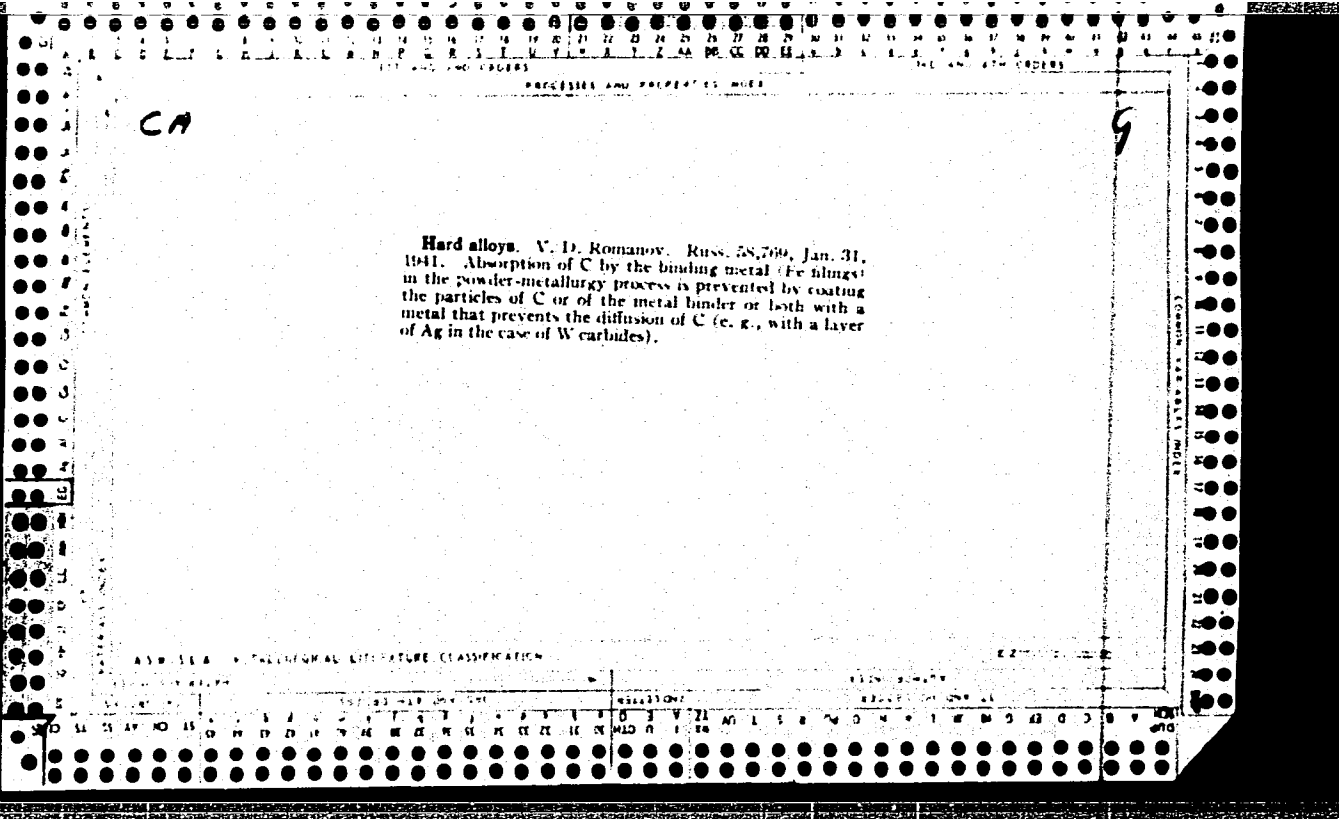
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GROUPS

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SAMARIN, A.M.; YEFIMOV, L.M.; VESEIKOV, N.G.; ORMAN, R.Z.; SHABANOV, A.N.; MOROZHENSKIY, L.I.; GRANAT, I.Ya.; TOCHINSKIY, A.S.; ALYAVDIN, V.A.; DANILOV, P.M.; PETRIKEYEV, V.I.; POPOV, B.N.; BOBKOV, T.M.; ROSTKOVSKIY, S.Ye.; GAVRISH, D.I.; D'YAKONOV, N.S.; TIMOSHPOL'SKIY, M.M.; ROMANOV, Y.D.; POCHTMAN, A.M.; MELESHKO, A.M.; PODGORETSKIY, A.A.; OFENGENDEN, A.M.; BRONSHTEYN, V.M.; PRIDANTSEV, M.V.; LIVSHITS, G.L.; ROZHKOVA, V.A.; RUTES, V.S.

Reports (brief annotations). Biul. TSNIICM no.18/19:15-16 '57.

(MIRA 11:4)

1. Chlen-korrespondent AN SSSR (for Samarin). 2. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Rutes, Rostkovskiy, Pridantsev, Livshits, Rozhkov). 3. Stal'proyekt (for Shabanov). 4. Kuznetskiy metallurgicheskiy kombinat (for Alyavdin, Danilov, Petrikeyev). 5. Zavod "Elektrostal'" (for Popov). 6. "Dneprospetsstal'" (for Bobkov). 7. Glavogonepca Ministerstva chernoy metallurgii SSSR (for Gavrish). 8. Planovoye upravleniye Ministerstva chernoy metallurgii SSSR (for D'yakonov). 9. Otdel rabochikh kadrov, truda i zarplaty Ministerstva chernoy metallurgii SSSR (for Timoshpol'skiy). 10. Glavterchermet Ministerstva chernoy metallurgii SSSR (for Romanov). 11. Giprostal' (for Pochtman). 12. Zavod im. Voroshilova (for Meleshko). 13. Zavod "Zaporozhstal'" (for Podgoretskiy). 14. Stalinskiy metallurgicheskiy zavod (for Ofengenden). 15. Nizhns-Tagil'skiy metallurgicheskiy kombinat (for Bronshhteyn).

(Steel--Metallurgy)

Romanov, V.D.

137-58-6-11849

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 95 (USSR)

AUTHOR Romanov, V.D.

TITLE Preparation of Scrap for Steel-smelting Furnaces (Podgotovka loma dlya staleplavil'nykh pechey)

PERIODICAL Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1957, Vol 18, pp 145-156

ABSTRACT Note is taken of the importance of organizing scrap-classifying operations to improve the quality of production and to increase the rate of output of steelmaking furnaces. Present practice in preparing ferrous metal scrap for resmelting is described. The use of flame cutting should be limited, as its productivity is 60% less than cutting with alligator shears, but it is more expensive. Combination methods of handling metal scrap have been introduced at most of the plants of Glavvtorchermet. A single crew does all the work involved in processing scrap, and is equipped with kerosene cutters and shears and has the use of gantry cranes. The output per worker has risen by 20-25%. Appx. 200,000 t of chip is pressed per year in the unannealed state, together with roofing sheet metal. Pressing in

Card 1/2

137-58-6-11849

Preparation of Scrap for Steel-smelting Furnaces

the annealed state is rising from year to year. Pressing in the hot state makes it possible to produce a pack of 3.5-4.5 kg/dm³ density instead of 1.2-2.0 kg/dm³ when cold annealed chip is pressed. The personnel of the Novo-Cherkassk Polytechnic Institute have created a unit for baling hot steel chip by forging. The scientific personnel of the Gor'kiy Polytechnic Institute are conducting experiments in the continuous briquetting of steel chip by rolling it in the hot state. The following is necessary for a fundamental improvement of the preparation and the quality of scrap: organization of conversion of scrap at all enterprises receiving > 500 t scrap per year; editing of GOST Standard 2787-54 in terms of increasing the bale to 2000x800x500 mm; organization of mass production of baling presses of various models and capacities; improvement of the design of chip-breakers and centrifugal machines; and development of more advanced mechanisms and improvement of the process procedures for the dressing and baling of scrap.

I.B.

1. Steel--Production 2. Steel--Materials 3. Steel--Processing 4. Steel
--Production

Card 2/2

L 16742-66 EWT(m)/EPF(n)-2/EWA(d)/T/EWP(t) IJP(c) JD/WJ/JG

ACC NR: AP5021922

SOURCE CODE: UR/0207/65/000/004/0174/0176

AUTHOR: Kiriyanenko, A. A. (Novosibirsk); Makarova, O. P. (Novosibirsk);
Romanov, V. D. (Novosibirsk); Solov'yev, A. N. (Novosibirsk)

ORG: none

TITLE: Experimental investigation of surface tension in liquid sodium

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1965, 174-176

TOPIC TAGS: surface tension, ~~liquid~~ sodium, liquid metal

ABSTRACT: An experimental apparatus was built to measure surface tension in liquid sodium at high temperatures. A block diagram and description of the apparatus are given. Pure grade sodium was fed into a crucible (preheated to 400-500°C) filled with pure helium. The experiment was conducted in the temperature range of 100-937°C. Thermocouples were used to measure the temperature of the crucible. The floating plate used in the experiment was made of 1Kh18N9T stainless steel. It was found that immediately after melting, the values of surface tension were about 5-8% lower than those obtained after longer periods (1-1.5 hrs). Measurements of surface tension in liquid sodium are given in

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ACC NR: AP5021922

the following table.

p	T, °C	p	T, °C	p	T, °C
1740	159.5	4740	212.4	2000	165.0
1830	161.0	4880	215.5	3000	184.7
2220	169.6	5460	220.7	4000	201.8
2480	176.2	6370	228.5	5000	215.3
2960	182.7	7320	240.4	6000	226.6
3150	186.0	7870	246.5	7000	237.2
3580	193.8	8910	255.8	8000	247.5
4140	202.2	10160	267.1	9000	257.3
4270	207.2	11120	278.3	10000	267.1
				11000	276.8

Surface tension was calculated according to the formula

$$\sigma = \frac{g(tzd + F)}{2(t+x)}$$

where t , x = width and length of the plate, lz = submersion depth, d = density of the metal and F = force. The interpolation line drawn from the data is given by the equation:

$$\sigma = 202 - 0.91(t - 98).$$

The mean square deviation from this line is 1.47%. Orig. art. has: 3 figures, 1 table.

SUB CODE: 11, 20/ SUBM DATE: 23Mar65/ ORIG REF: 002/ OTH REF: 005

Card 2/2 vmb

BABITSKIY, V.I.; KOBRINSKIY, A.Ye.; ROMANOV, V.D.

Areas of the occurrence and stability of vibratory-percussive
conditions for a two-mass vibrating system in a hollow. Teor.
mash.i mekh. no.105/106:103-111 '65.

(MIRA 18:4)

ROMANOV, V.F.

General method for designing form cutters. Stan. i instr. 36
no.2:28-31 F '65.

(MIRA 18:3)

ROMANOW, W.F., k.n.t. [Romanov, V.F.]; KRINZBERG, C.Z., inz.; CHASIN, J.M.,
inz. [Khasin, I.M.]

New method of finish machining of cylindrical gears. Przegl mech
23 no. 21:619-623 10 N '64.

N, L 11827-66 EWT(1)/EWA(h)

ACC NR: AP6002528

SOURCE CODE: UR/0286/65/000/023/0034/0034

INVENTOR: Romanov, V. F.

ORG: none

TITLE: Contactless ²⁵time relay. Class 21, No. 176636

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 34

TOPIC TAGS: time relay, ~~contactless time relay~~ RC circuit

ABSTRACT: A contactless time relay containing an RC circuit and a controlled rectifier connected to the load (see figure) is introduced. To increase the time inter-

13
B

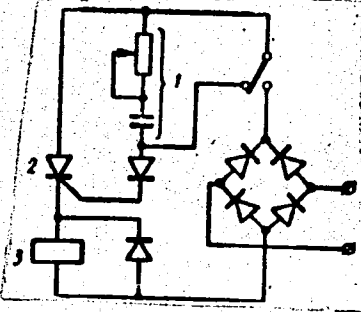


Fig. 1. Contactless time relay

1 - RC circuit; 2 - controlled rectifier;
3 - load.

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UDC: 621.318.57

L 11827-66

ACC NR: AP6002528

val, the RC circuit is connected between the anode and the control cathode of the controlled rectifier. Orig. art. has: 1 figure. [JR]

SUB CODE: 09/ SUBM DATE: 26Nov63/ ATD PRESS: 4179

HW
Card 2/2

ROMANOV, V.P., kand.tekhn.nauk; KRINZBERG, TS.Z., inzh.; KHASIN, Ya.M., inzh.

New technological process for finishing spur-gear teeth. Vest.
 Mashinostr. 44 no.1:44-50 Ja '64. (MIRA 17:4)

ROMANOV, V.F.

Pinion-shaped cutters with optimum geometry. Stan, 1 instr.34 no.9;
1-4 S '63. (MIRA 16:11)

ROMANOV, V.F.

Graphic and analytic calculation of gear-generating tools. Stan.i
instr. 33 no.12:12-16 D '62. (MIRA 16:1)
(Gear shaping machines)

ROMANOV, V. F., kand. tekhn. nauk, dotsent

Checking calculation of gear cutters for cutting gear-wheel
teeth with internal engagement. Vest. mashinostr. 42 no.12:
61-63 D '62. (MIRA 16:1)

(Gear cutting)

TUR'YAN, Ya.I.; ROMANOV, V.F.

Amperometric titration of acetylene and the composition and solubility of mercury acetylide. Zav. lab. 28 no.9:1066-1068 '62. (MIRA 16:6)

1. Lisichanskiy filial Gosudarstvennogo instituta azotnoy promyshlennosti.

(Acetylene) (Mercury acetylide)

TUR'YAN, Ya.I.; ROMANOV, V.F.

Polarographic study of the complex formation between mercury ions and ammonia in aqueous solution. Zhur.neorg.khim. 7 no.5:1087-1089 My '62. (MIRA 15:7)

1. Lisichanskiy filial Gosudarstvennogo instituta azotnoy promyshlennosti.

(Mercury compounds) (Ammonia) (Polarography)

ROMANOV, V.F.; SHABANOVA, G.V.

Abrasive shaving of teeth of hardened spur pinions. Avt.prom. 27
no.12:33-36 D '61. (MIRA 15:1)

1. Nauchno-issledovatel'skiy tekhnologicheskiy institut avtomobil'noy
promyshlennosti.

(Gear cutting)

TUR'YAN, Ya.I.; ROMANOV, V.F.

Amperometric titration of acetylene in N-methylpyrrolidone
and dimethylformamide with a silver nitrate solution. Zhur.
anal.khim. 16 no.6:740-742 N-D '61. (MIRA 14:12)

1. State Scientific Research and Design Institute of Nitrogen
Industry and the Products of Organic Synthesis, Lisichansk
Branch, Severodonetsk.

(Acetylene)

(Silver nitrate)

TUR'YAN, Ya.I.; ROMANOV, V.F.

Indirect method in the polarographic analysis of organic
compounds (survey). Zav.lab. 28 no.1:5-11 '62.

(MIRA 15:2)

(Organic compounds)

(Polarography)

TUR'YAN, Ya.I.; ROMANOV, V.F.

Polarographic method for determining potassium in the catalyst of
the isobutyl alcohol synthesis. Khim.prom. no.1:68 Ja '61.
(MIRA 14:1)

I.Lisichanskiy filial Gosudarstvennogo nauchno-issledovatel'skogo
i proyektного instituta azotnoy promyshlennosti i produktov organiche-
skogo sinteza.

(Isobutyl alcohol) (Potassium—Analysis)
(Catalysts)

YATSIMIRSKIY, K.B.; ROMANOV, V.F.

Investigating the state of tungstates in solution by the
kinetic method. Zhur. neorg. khim. 9 no.7:1578-1783 J1 '64.
(MIRA 17:9)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

AVRUTIN, S.V., inzh.; BAKLUNOV, Ye.D., kand.tekhn.nauk; GLEYZER, L.A.,
kand.tekhn.nauk; YEFIMOV, V.P., kand.tekhn.nauk; KARTSEV, S.P.,
inzh.; KEDRINSKIY, V.H., inzh., laureat Leninskoy premii;
KORZINKIN, V.I., inzh.; KOSILOVA, A.G., kand.tekhn.nauk; MALOV,
A.N., kand.tekhn.nauk; MATYUSHIN, V.M., doktor tekhn.nauk;
OSTRETSOV, G.V., kand.tekhn.nauk; PANCHENKO, K.P., kand.tekhn.
nauk; PARFENOV, O.D., kand.tekhn.nauk; ROZHDESTVENSKIY, L.A., kand.
tekhn.nauk; ROMANOV, V.F., kand.tekhn.nauk; SAVERIN, M.M., doktor tekhn.
nauk; SAKHAROV, G.N., kand.tekhn.nauk; SOKOLOVSKIY, I.A., inzh.;
FRUMIN, Yu.L., inzh.; SHISHKOV, V.A., doktor tekhn.nauk; ACHERKAN,
N.S., prof., doktor tekhn.nauk, glavnyy red.; VLADISLAVLEV, V.S., red.
[deceased]; POZDNYAKOV, S.M., red.; ROSTOVYKH, A.Ya., red.; STOLBIN,
G.B., red.; CHERNAVSKIY, S.A., red.; KARGANOV, V.G., inzh., red.
graficheskikh rabot; GIL'DENBERG, M.I., red.izd-va; SOKOLOVA, T.F.,
tekhn.red.

[Metalworking handbook; in five volumes] Spravochnik metallista v
piati tomakh. Chleny red.soveta: V.S.Vladislavlev i dr. Moskva,
Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry. Vol.5. 1960. 118⁴ p.
(MIRA 13:5)

(Metalwork)

Romanov, V. F.

PLATE I BOOK EXPLOITATION SOV/807A

Arutkin, S. V., Engineer, Ye. D. Malinov, Candidate of Technical Sciences; L. A. Gerasimov, Candidate of Technical Sciences; V. P. Yefimov, Candidate of Technical Sciences; S. P. Karavay, Engineer, V. M. Kedrinsky, Engineer, Laureate of the Candidate of Technical Sciences; A. N. Malov, A. G. Kozlov, Candidate of Technical Sciences; V. M. Kalyuzhnik, Candidate of Technical Sciences; G. V. Gerasimov, Candidate of Technical Sciences; K. P. Panchenko, Candidate of Technical Sciences; L. A. Borodavitskiy, Candidate of Technical Sciences; M. M. Sverlin, V. P. Romanov, Candidate of Technical Sciences; M. M. Sverlin, Doctor of Technical Sciences; I. A. Sokolovskiy, Engineer, Ya. L. Pechanin, Engineer; and V. A. Shalnikov, Doctor of Technical Sciences.

Справочник металлиста, том 5 (Metalworker's Handbook, 5) Moscow, Mashinist, 1960. 1,184 p. 150,000 copies printed.

Editorial Council: M. S. Aoberean (Chairman and Chief Editor), Doctor of Technical Sciences, Professor; V. S. Vladislavlev (Deceased), A. N. Pechanin and S. A. Chernavskiy; A. Ya. Borodavitskiy, D. B. Stokhlyubing House; M. I. Gilydenko; A. N. Malov; Ed. of Publishing House; M. I. Gilydenko; Literaturny (Mashinist); I. M. Monastyrskiy, Engineer.

PURPOSE: This handbook is intended for process engineers, designers, foremen, and other workers in the metalworking industry.

CONTENT: The handbook deals with such metalworking processes as turning, machining of holes, cutting with peeling tools, milling, threading, gear cutting, burrishing, grinding, and finishing. Data are presented primarily in tabular form and are illustrated by drawings and diagrams. No personalities are mentioned. There are no references.

II. Machining of Holes (K. P. Panchenko, L. A. Borodavitskiy, and Ye. D. Malinov) 421

IV. Milling (S. V. Arutkin) 422

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Basic elements of milling cutters 429

Killing cutters of basic types of milling cutters 442

Construction of basic types of milling cutters 497

Errors and smoothness of machining 516

Rolling machines 517

Milling machines 523

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External and internal thread cutting with single-point tools (Yu. L. Pechanin) 549

VI. Spur-gear cutting (S. P. Karavay, A. N. Malov, V. M. Kalyuzhnik, Ye. D. Malinov, V. S. Aoberean, and G. N. Sidorov) 700

General information (A. N. Malov) 700

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Hobbing methods of tools for duplicating 725

Preparation of the profiles of tools for duplicating 725

Tools for cutting spur gears by the hobbing method 737

Hob (S. P. Karavay, A. N. Malov) 737

gear-shaper cutters (V. M. Kalyuzhnik) 767

Card 7/11

ROMANOV, V.F.

Determining initial spacing of gear-wheel cutters. Stan. 1
instr. 35 no.8:20-22 Ag '64. (MIRA 17:10)

ROMANOV, U. F.

2198. Romanov, U. F. and Yakimanski, V. V., The design of a rotary shaver (in Russian), *Stanki i Instrum.* 24, 5, 13-17, May 1953.

An elementary step-by-step method of calculating rotary shavers adopted in one of the Russian automobile plants is described. Method comprises determination of geometry of new tools and corrections applicable to reground shavers. Article can be of interest to practical tool designers.

J. J. Dzielowski, England

ROMANOV, V.F.; YAKIMANSKIY, V.V.

The design of a rotary shaver. Stan. 1 instr. 24 no.5:13-17 My '53.
(MLBA 6:6)
(Gear-cutting machines)

ROMANOV, V.F.

Testing gear-wheel cutters in cutting internal gears. Stan. 1
instr. 25 no.6:27-29 Je '54. (MIRA 7:7)
(Gear-cutting machines)

ROMANOV, V. F.

USSR/Engineering - Calibrations

Card : 1/1

Authors : Romanov, V. F.

Title : Testing of cog-wheel cutters during cutting of gear inner mesh.

Periodical : Stan. i Instr., Ed. 6, 27 - 29, June 1954

Abstract : Methods of testing and adjusting cog-wheel cutters and cutting of gear inner-mesh, are given. Mathematical formulas, for determining cutter and gear configurations, tolerances, and cutting angles, are presented. Diagram. Two references.

Institution : ...

Submitted : ...

ROMANOV, V.F.; SOKOLOV, V.N.

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001445220019-3"

(MLR 6:8)
(Milling machines)

KOLOKHIN, B. I.; ROMANENKO, A. G.; HRUSHOVICH, P. K.

Spectral distribution of the external photoeffect in hexagonal selenium at a low temperature. Fiz. tver. tela 7 no.8:2504-2505 Ag '65. (NEBA 3319)

L. Fiziko-tehnicheskoy Institut imeni AN SSSR, Leningrad.

ANASTASIYEV, B.I., inzh.; YEREMIN, V.M., inzh.; KOZLOV, D.T., inzh.; MIROV,
B.M., inzh.; SAPOZHNIKOV, V.A., inzh.; ROMANOV, V.G., inzh.

Automatic unit for measuring pipe length. Mekh. i avtom.proizv.
19 no.3:7-9 Mr '65.

(MIRA 18:4)

L 33998-66 EWT(m)/EWP(j) WW/RM

ACC NR: AR0017237

SOURCE CODE: UR/0058/65/000/012/D036/D037

AUTHOR: Perelygin, I. S.; Safiullina, N. R.; Romanov, V. G.

TITLE: Manifestation of intermolecular interaction of HCl with acetonitrile in the infrared spectrum 74

SOURCE: Ref. zh. Fizika, Abs. 12D306

REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 158-163

TOPIC TAGS: ir spectrum, organic nitrile compound, chemical bonding, absorption band, frequency shift

ABSTRACT: A study was made of the infrared absorption band of the valence oscillations of the H-Cl, C≡N, C-C and C-H bonds in the following triple system: inert solvent + HCl + CH₃CN. It is established that the formation of the intermolecular bond of hydrogen chloride with acetonitrile leads to a strong shift of the absorption band of the H-Cl bond toward lower frequencies, and to a shift of the absorption bands of the bonds C≡N and C-c toward higher frequencies. [Translation of abstract]

SUB CODE: 20, 07

Card 1/1 *Sp*

L-6339-66 EWT(m)/ETC/EWG(m)/EWP(t)/EWP(b) IJP(c) RDW/JD
ACCESSION NR: AP5019880 UR/0181/65/007/008/2534/2535

AUTHOR: Kolomiyets, B. T.; Romanov, V. G.; Khodosevich, P. K. 49
27
58

TITLE: Spectral distribution of internal photoeffect in hexagonal selenium at low temperature

SOURCE: Fizika tverdogo tela, v. 7, no. 8, 1965, 2534-2535

TOPIC TAGS: spectral distribution, selenium, internal photoeffect, radiation sensitivity, forbidden band, electric conductivity, electron trapping

ABSTRACT: The authors point out that earlier data on the spectral distribution of the internal photoeffect in selenium at 83 and 95K are not normalized to unit incident energy, and therefore did not make it possible to determine the true spectral distribution. They have therefore carried out suitable measurements on B-5 selenium 45--80 μ thick, crystallized at $483 \pm 1K$ for 12 hours, using electrodes of colloidal graphite, spaced 1 mm apart, with 20 v applied, in a special vacuum instrument at 83, 123, 173, and 293K. Comparison of the results, which are shown in Figs. 1 and 2 of the Enclosure, discloses that when the data are reduced to unit incident energy, a decrease in temperature causes the sensitivity to shift to the short-wave region of the spectrum. From the spectral distribution it is then possible to obtain the width of the forbidden band for different temperatures. The

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L 6339-66

ACCESSION NR: AP5019880

authors have obtained for the forbidden band a relation $\Delta E = 2.85 - 2.38 \times 10^{-3} T$, which differs from the temperature dependence obtained by Gilleo (J. Chem. Phys. v. 19, 1291, 1951), namely $\Delta E = 2.62 - 1.4 \times 10^{-3} T$. The presence of a new photoconductivity maximum yields additional information on the mechanism of conductivity of the selenium. The results also indicate that the traps play an important role in the mechanism of conductivity at low temperatures, and that there are two competing photoconductivity mechanisms in action here. Orig. art. has: 3 figures and 2 formulas.

ASSOCIATION: Fiziko-tehnicheskij institut im. A. F. Ioffe AN SSSR, Leningrad
(Physicotechnical Institute)

SUBMITTED: 16Mar65

ENCL: 01

SUB CODE: SS, OP

NR REF SOV: 000

OTHER: 003

Card 2/3

L 6339-66

ACCESSION NR: AP5019880

ENCLOSURE: 01

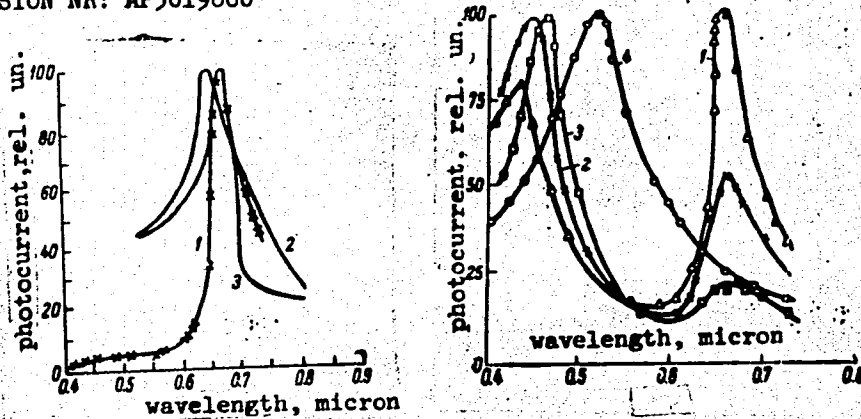


Fig. 1. Spectral sensitivity of selenium plotted without (left) and with normalization to unit incident energy.

Left: 1 - present data at 83K; 2, 3 - data by others.

Right: 1, 2, 3, 4 - taken at 83, 123, 173, and 293K, respectively.

BW

Card 3/3

L 63915-65 EWT(d) IJP(c)

ACCESSION NR: AR5018971

UR/0044/65/000/007/B107/B108
518:517.392

SOURCE: Ref. zh. Matematika, Abs. 7B528

AUTHOR: Romanov, V. G.

TITLE: Calculation of Fourier integrals

CITED SOURCE: Sb. Vychisl. sistemy. Vyp. 12. Novosibirsk, 1964, 134-145

TOPIC TAGS: Fourier analysis, approximation method

TRANSLATION: The usual interpolation quadrature formulas are not applicable for calculating integrals of the form

$$P(u) = \int_a^b f(x) e^{iux} dx \quad (1)$$

because of strong fluctuation in the function under the integral with large values of the parameter u . The author proposes a quadrature formula obtained by interpolating the function $f(x)$ at each partial segment $[x_i, x_{i+1}] \subset [a, b]$ with parabolas which give a good approximation of $f(x)$ not only in the middle of the segment, but

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ACCESSION NR: AR5018971

also at its ends, and which, moreover, preserve as a continuous function in x its derivative at the junctions of the intervals of integration. The interpolating polynomial satisfying these conditions has the form

$$F_i(\theta_i) = \frac{\theta_i(1-\theta_i)^2}{\alpha_i(1-\alpha_i)} Y_{i-1} + \left[\left(\frac{1}{\beta_i} - \frac{1}{\alpha_i} \right) \theta_i^3 + \left(\frac{2}{\alpha_i} - \frac{1}{\beta_i} \right) \theta_i^2 - \left(1 + \frac{1}{\alpha_i} \right) \theta_i + 1 \right] Y_i + \theta_i \left[\left(\frac{1}{1-\beta_i} - \frac{1}{1-\alpha_i} \right) \theta_i^2 + \left(\frac{2}{1-\alpha_i} - \frac{1}{1-\beta_i} \right) \theta_i - \frac{\alpha_i}{1-\alpha_i} \right] Y_{i+1} + \frac{\theta_i^2(1-\theta_i)}{\beta_i(1-\beta_i)} Y_{i+2}$$

where

$$\theta_i = \frac{x-x_i}{x_{i+1}-x_i}, \quad Y_i = f(x_i), \quad \alpha_i = \frac{x_{i-1}-x_i}{x_{i+1}-x_i},$$

$$\beta_i = \frac{x_{i+2}-x_i}{x_{i+1}-x_i}.$$

Substituting the polynomial $F_i(\theta_i)$ in (1) for $f(x)$, the author obtains the quadra-

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ACCESSION NR: AR5018971

ture formula for the interval

$$\int_{x_i}^{x_i+h} f(x) e^{ux} dx = h e^{i \frac{\pi}{2} u} \left\{ \left[\frac{1}{\alpha_i} (Y_{i-1} - Y_i) + \frac{1}{1 - \alpha_i} (Y_{i-1} - Y_{i+1}) \right] \times \left[e^{i \frac{\pi}{2} \alpha_i(\theta)} + \alpha_2(\theta) \right] + \left[\frac{1}{\beta_i} (Y_{i+1} - Y_i) + \frac{1}{1 - \beta_i} (Y_{i+1} - Y_{i+3}) \right] \times \left[e^{i \frac{\pi}{2} \beta_i(\theta)} + \beta_2(\theta) \right] + (Y_{i+1} - Y_i) \left[e^{i \frac{\pi}{2} \gamma_1(\theta)} + \gamma_2(\theta) \right] + Y_i \left[e^{i \frac{\pi}{2} \eta_1(\theta)} + \eta_2(\theta) \right] \right\} \quad (2)$$

where $uh = \theta$, $\alpha_1(\theta)$, $\alpha_2(\theta)$, $\beta_1(\theta)$, $\beta_2(\theta)$, $\gamma_1(\theta)$, $\gamma_2(\theta)$, $\eta_1(\theta)$, $\eta_2(\theta)$ for small values of θ are expressed by power series in powers of θ . In the supplement are tables of values of these series for values of θ from 0 to 1.20. Supposing in (2) $u = 0$, the author derives for formula

$$\int_{x_i}^{x_i+h} f(x) dx = h \left\{ \frac{1}{12} \left[\frac{1}{\alpha_i} (Y_{i-1} - Y_i) + \frac{1}{1 - \alpha_i} (Y_{i-1} - Y_{i+1}) + \frac{1}{12} \left[\frac{1}{\beta_i} (Y_{i+1} - Y_i) + \frac{1}{1 - \beta_i} (Y_{i+1} - Y_{i+3}) \right] + \frac{1}{2} (Y_i + Y_{i+1}) \right] \right\}$$

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ACCESSION NR: AR5018971

In conclusion, an error estimate is given for (2) in the case of equidistant points of interpolation on the assumption that θ is so small in comparison with unity that the terms of power θ^2 may be ignored. The proposed quadrature formula was programmed on a high-speed computer. N. Lyashchenko

SUB CODE: MA

ENCL: 00

dm
Card 4/4

11/11/67, 11/11/67.

Approximate solution of internal stresses for an inhomogeneous two-dimensional static problems in the theory of elasticity for regions with angles. *Ukr. Mat. Visn.* 1967, 10:11-13. (RUSIA 10:1)

Computation of Fourier series. *Ukr. Mat. Visn.* 1967, 10:11-13.

PERELYGIN, I.S.; SAFIULLINA, N.R.; ROMANOV, V.G. (Kazan')

Study of the molecular interaction of acetonitrile with HCl based
on infrared spectra. Zhur. fiz. khim. 39 no.2:394-397 F '65.
(MIRA 18:4)

1. Kazanskiy gosudarstvennyy universitet imeni Ul'yanova-Lenina.

30LCV YFV, O.L., ROMANOV, V.G.

Use of electronic computers in solving certain problems of the
frequency analysis of magnetic and gravity anomalies. Trudy Inst.
geol. i geofiz. Sib. otd. AN SSSR no.21:89-101 '62.

(MIRA 17:11)

ACCESSION NR: AT4044075

S/2994/63/000/021/0089/0101

AUTHOR: Solov'yev, O. A.; Romanov, V. G.

TITLE: Some questions on the partial analysis of magnetic and gravitational anomalies by means of electronic computers

SOURCE: AN SSSR. Sibirskoye otdeleniye. Institut geologii i geofiziki. Trudy*, no. 21, 1963, Geofizicheskiy sbornik. no. 4: Primeneniye elektronnykh tsifrovyykh mashin pri reshenii nekotorykh zadach geofiziki (Geophysical papers, no. 4: Using electronic computers in solving some geophysical problems), 89-101

TOPIC TAGS: geophysics, computer programming, magnetic field, magnetic anomaly, gravity, geophysical prospecting, Fourier transform

ABSTRACT: The usual graphic and analytic methods for interpreting geophysical anomalies make use of only a small part of the useful information included in an anomaly. These methods need to be extended so as to provide more general solutions of the inverse problem of geophysical prospecting, such as the frequency method based on the Fourier integral transform which is considered in this paper. This is closely related to potential theory and the Laplace equation, when there are no perturbing objects. From this, a solution is obtained in the form of an integral Fourier transform in the complex plane. Complex logarithmic gravitational and
Card 1/2

ACCESSION NR: AT4044075

magnetic potentials are given, from which spectral functions are derived which are meromorphic, of second order, have poles at the locations of the perturbing objects, and no singularities in the finite part of the complex plane. The most important areas for the application of spectral functions are: a) expansion in Taylor's series, to obtain magnetic and gravitational moments; b) location of zeroes on the axis to obtain the horizontal dimensions of the perturbing object; c) finding the depth to top of perturbation from the behavior at infinity. Spectral functions are then determined for sloping lines and for known values of a segment of an observed function. When the nodes are uniformly spaced, the formula finally obtained is greatly simplified and a computer can be programmed to tabulate the spectral function of a given function. Orig. art. has: 77 equations.

ASSOCIATION: Institut geologii i geofiziki, Sibirskoye otdeleniye, Akademiya Nauk SSSR (Institute of Geology and Geophysics, Siberian Division, SSSR Academy of Sciences)

SUBMITTED: 00

ENCL: 00

SUB CODE: ES, DP

NO REF SOV: 005

OTHER: 002

Card 2/2

PORTNOV, Ya.I.; ROMANOV, V.G.

Effect of the inertia characteristics of transducers on the accuracy of the control of drying processes. Der.prom. 10 no.12:7-8 D '61. (MIRA 14:12)

1. Sverdlovskiy nauchno-issledovatel'skiy institut pererabotki drevesiny.

(Lumber--Drying)

(Temperature regulators)

SOKOLOVSKIY, Yuriy Yefimovich; YASTRZHEMSKIY, L.A., retsenzent; ROMANOV, V.G.,
retsenzent; KUZOVLEVA, T.V., red. izd-va; YERMAKOVA, T.T., tekhn.
red.

[Along the blue roads of Moscow and its environs guidebook] Po go-
lubym dorogam Moskvy i Podmoskov'ia; putevoditel'. Moskva, Izd-vo
"Rechnoi transport," 1961. 166 p. (MIRA 14:8)
(Moscow Valley—Guidebooks)
(Moscow Valley—Inland water transportation)

BASHKATOV, D.N.; VASIL'YEV, A.V.; ROMANOV, V.G.

Studying the vibration drilling method for purposes of
engineering geology. Razved. i okh. nedr 27 no.5:25-28
My '61. (MIRA 14:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii
i inzhenernoy geologii.
(Boring machinery) (Vibrators) (Engineering geology)

KHITAINO, I.A.; FISHIN, G.Ya.; ROMANOV, V.I. (Moscow)

Absorption of neutral molecules on the anodically polarized platinum electrode. Part 2: Polarization and capacity measurements in aqueous methanol and methanoldiene solutions of sodium acetate. Zhur. fiz. khim. 38 no.12:2840-2847 D '64. (MIRA 18:2)

I. Moskovskiy khimiko-tekhnologicheskii institut imeni D.I. Mendeleeva.

MIRKINA, I.A.; FLOCHIN, M.Ya.; ROMANOV, V.I.

Adsorption of neutral molecules on an anodic polarized platinum
electrode. Part 1. Zhur. fiz. khim. 38 no.9:2225-2229 S '64.
(MIRA 17:12)
1. Moskovskiy khimiko-tekhnologicheskii institut imeni Mendeleeva.

ROMANOV, V.I.

Replacing the RD-47 motor with the RD-09 motor. Priborostroenie
no.5:29-30 My '65. (MIRA 18:5)

ROMANOV, V. I.

AID P - 820

Subject : USSR/Engineering
Card 1/1 Pub. 78 - 5/26
Author : Romanov, V. I.
Title : The use of 8C230-P diesel engines in the drilling installations
Periodical : Neft. khoz., v. 32, #9, 17-19, S 1954
Abstract : General descriptions of two types of diesel engine drilling installations for operation of pump compressors and reversable hoisting transmission are presented and analysed from the view point of economy and convenience.
Institution: None
Submitted : No date

ROMANOV, V.I., inzh.

Accuracy of surveying and installation operations in reinforcing
vertical shafts. Trudy VNIMI no.46:115-123 '62. (MIRA 16:5)

(Mine timbering)

(Mine surveying)

ROMANOV, V.I.; ZDEREVA, T.O.

Advantages of machinery in the postharvest cleaning of corn. Mekh.
sil'. hosp. 9 no. 6:13-14 Ja '58. (MIRA 11:7)

1. Ukraine'skiy naukovе-doslidniy institut ekonomiki i organizatsii
sil'skogo gospedarstva.
(Corn(Maize))--Cleaning)

ROMANOV, Vasiliy Ivanovich; SKRIPNIK, P.S. [Skrypnyk, P.S.], red.;
GULENKO, O.I. [Hulenko, O.I.], tekhn. red.

[Economic effectiveness of over-all mechanization of corn
growing] Ekonomichna efektyvnist' kompleksnoi mekhanizatsii
vyrobnytstva kukurudzy. Kyiv, Derzhsil'hospvydav URSR, 1961.
105 p. (MIRA 16:1)

(Ukraine—Corn (Maize))

ROMANOV, V. I.: ^{and} Master Med Sci (diss) -- "Changes in higher nervous activity of patients with the transitory form of neurasthenia in the process of their complex treatment at the Sochi-Mitsesta spa (Based on clinical and plethysmographic data)". Leningrad, 1958. 18 pp (Acad Sci USSR, Inst of Physiology im I. P. Pavlov), 150 copies (KI, No 4, 1959, 152)

~~CHUBINSKIY, S.M.; ROMANOV, V.I.~~

CHUBINSKIY, S.M.; ROMANOV, V.I.

Vascular reaction to certain physical factors. Vop.kur. fizioter. i
lech.fiz.kul't. 23 no.1:56-62 '58. (MIRA 11:3)

1. Iz bioklimeticheskoy laboratorii (zav. - kandidat biologicheskikh
nauk S.M.Chubinskiy) i nevrologicheskoy kliniki (zav. - prof. K.F.
Nikitin) Bal'neologicheskogo instituta imeni I.V.Stalina v Sochi
(dir. - dotsent N.P.Vladimirov)
(BLOOD VESSELS)

CHUBINSKIY, S.M.; TSVERIANISHVILI, G.K.; ROMANOV, V.I.

Theory of the mechanism of the appearance of reactions to meteorological conditions. Sov.med. 23 no.8:64-68 Ag '59. (MIRA 12:12)

1. Iz Sochinskogo instituta revmatizma.
(WEATHER effects)

ROMANOV, V.I., mayor meditsinskoy sluzhby

Complications in osteosynthesis employing an Elanski pin; abstract.
Voен.-med.zhur. no.3:76 Mr '61. (MIRA 14:7)
(FRACTURES)

ROMANOV, V.K., kapitan meditsinskoy sluzhby

Epidural blockade as a method of treating lumbosacral radiculitis.
Voen.-med. zhur. no.11:63 N '61. (MIRA 15:6)

(ANESTHESIA SPINAL)
(NERVES, SPINAL--DISEASES)

ROVING, V.I.

Percentile relation of different types of cells in the adenohypophysis in rats. *Biul. eksp. biol. i med.* 58 no.10:113-115 0 '64.
(MIRA 18:12)

1. Gruppy eksperimental'noy morfologii kletki (zav. - kand. med. nauk S.S. Igashev) Instituta eksperimental'noy biologii (dir. - prof. I.N. Mayskiy) AMN SSSR, Moskva. Submitted March 20, 1963.

ROMANOV, V.I.; YEVSTIGREYEVA, Z.G.; KRETOVICH, V.I.

Dehydrogenases of amino acids in *Chlorella*. Prikl. biokhim. i
mikrobiol. 1 no.5:494-499 S-O '65. (MIRA 18:12)

1. Institut biokhimii imeni A.N. Bakha AN SSSR i Moskovskiy
tehnologicheskii institut pishchevoy promyshlennosti.

ACC NR: AP6023554

(N)

SOURCE CODE: UR/3095/66/036/000/0026/0030

AUTHOR: Nalepo, B. A.; Romanov, V. I.

ORG: none

TITLE: Use of spectrographic techniques in nuclear hydrophysics

SOURCE: AN UkrSSR. Morskoy gidrofizicheskiy institut. Trudy, v. 36, 1966. Metody i pribory dlya issledovaniya fizicheskikh protsessov v okeane (Methods and instruments for studying physical processes in the ocean), 26-30

TOPIC TAGS: strontium, radiostrontium, spectrographic analysis

ABSTRACT: A spectral method for determining strontium in sea water, developed at the nuclear hydrophysics laboratory, MGI, AN UkrSSR (laboratoriya yadernoy gidrofiziki MGI AN UkrSSR), is described. Because of the necessity of dispersing the spectrum and performing the calculation with different analytical lines of strontium, use was made of a method of spectral analysis of the solution from the fulgurator on an ISP-51 glass spectrograph. The analytical line of strontium was 4607.33 Å, and the reference line was Ca 4581.40 Å. Determinations of strontium by this method at various depths of the Black Sea showed the strontium concentration to decrease with the depth. This finding should be considered in analyzing the distribution of radioactive strontium, since stable strontium may be considered a carrier, and this will introduce a

Card 1/2

ACC NR: AP6023554

change into the estimate of the rate of propagation of radioactive contamination in the ocean. Orig. art. has: 3 figures and 1 table.

SUB CODE: 07,14/ SUBM DATE: none

Card 2/2

ROMANOV, V.L., inzh.

Active control and its errors. Vzaim.i tekhn. izm.v mashinostr.;
mezhvuz.sbor. no.3:303-313 '61. (MIRA 14:8)
(Automatic control)

ROMANOV, V.K.

Treatment of lumbosacral radiculitis with an epidural novocaine
block. Szh. klin. nevr. no.2:242-249 '64 (MIRA 18:1)

ROMANOV, V.K.

Epidural novocaine block in the treatment of lumbosacral
radiculitis (funiculitis). Zhur. nevr. i psikh. 64 no.3:
386-389 '64. (MIRA 17:5)

1. Otdeleniye nervnykh bolezney (nachal'nik - dotsent N.N.
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painful syndrome in compression fracture of the spine. *Vopr.*
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Dynamic theory of shape formation in centerless grinding.
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Grinding spherical surfaces. Stan.i instr. 35 no.9:36 S '64.
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Kak predupredit' zabolevaniya sel'skokhozyaystvennykh zivotnykh (How to Prevent Diseases in Farm Animals). Sinfersopol', Dymizist, 1950, 112 pages with illustrations.

U-4258

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ROMANOV, V.M., Chief, Vet. Dept. Krym Oblast Admin. of Agriculture, "Experiment with the Use of "Brucellohydrolysat VIEV".

SO: Veterinariya; Vol. 27; No. 3; p. 28; 1950 uncl

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May 51

USSR/Biology - Extermination of Pests

"Aerosol Method for the Extermination of Ectoparasites," V. I. Kurchatov, F. A. Petunin, V. M. Romanov, D. K. Nechinenny

"Veterinariya" Vol XXVIII, No 5, pp 45-47

Describes constr of AAG appliance (automobile aerosol generator) which is portable and consists of a tank, siphon tube, and nozzle-equipped bent tube which serves for spraying and is attached to automobile exhaust tube in operation. Automobile exhaust gases disperse soln of DDT or hexachlorocyclohexane. Refers to larger and more powerful aerosol sprayer and describes experience obtained with method and its possibilities in farm and vet practice.

182T2

ROMANOV, V. M.

USSR/Medicine (Veterinary) - Carriers of Infectious Diseases

Nov 51

"Experience in the Fight Against Ectoparasites of Farm Animals During the Period When They Are Kept in Stalls," V. I. Kurchatov, Dr Vet Sci, D. K. Nechinenny, Cand Vet Sci, Chief Vet Div, Crimea Oblast Agr Adm, V. M. Romanov

"Veterinariya" Vol XXVIII, No 11, pp 45, 46

Describes experience in use of hexachlorane and DDT on animals in the Crimea kept during the winter in stalls and suffering from tick infestation. The ticks include *H. scupense* (transmits blood parasites *N. equi* and *Th. annulata* causing Nuttalliosis and theileriosis in the spring), *Ripicephalus bursa*, *Dermacentor marginatus*, *Hemaphysalis punctata*, *Hemaphysalis otophila*, and *Dermanissus*.

PA 190 T82

KURCHATOV, V.I., NECHINEMNOY, D.K., PETTUNIN, F.A. and ROMANOV, V.M.

(All-Union Institute of Experimental Veterinary Medicine, Krym and Krasnodar
Veterinary Experimental Stations). "Utilization of hexachloran and pentachlorine
(DDT) in the Fight against External Parasites of Farm Animals."
SO: Trudy Vsesoyuznogo Instituta Eksperimental'noy Veterinariy; Vol.19; No.2; 1952; uncl

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ZARZHITSKIY, Yu.A.; ARTAMONOV, M.P.; GOL'DENBERG, I.B.; ROMANOV,
V.M.; NOVIKOV, S.M.; MAYEVSKIY, A.B.; DMITRIYEV, I.; MANZHULA, M.;
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MITROFANOV, N.G.; GAVRILOVA, K.M.; IVANOV, N.I.

Operating a 400-ton open-hearth furnace on casing-head gas.
Stal' 20 no. 7:594-598 J1 '60. (MIRA 14:5)
(Open-hearth furnaces--Equipment and supplies)

Acetylene derivatives. XIII. Mechanism of addition of alcohols to vinyl ethynylcarbinols under the action of boron fluoride and mercuric oxide. I. N. Nazarov and V. M. Romanov, *Bull. acad. sci. U. R. S. S., Classe sci. chim.* 1960, 453-66 (in English, 460).—A uniform mechanism of addn. of alks. to tertiary vinyl ethynylcarbinols under the action of $BF_3 \cdot R_2O$ and HgO was revealed by experiments with $CH_3CH_2COCH_2OH$ (I). I is first isomerized to $CH_3CH_2COCH_2CR_2$ and this adds 1 mol. alk. within 3-4 hrs. at 25-30°, forming $R'OCH_2CH_2COCH_2CR_2$ (II), colorless, mobile liquids incapable of polymerization on long standing, at 100° or in the presence of 1% H_2O_2 . The reaction is isothermal. Ozonization of II and hydrolysis of the products gave ketones, R_2CO , and β -alkoxypropionic acids: $R'OCH_2CH_2COCO_2H \rightarrow R'OCH_2CH_2CO_2H + CO_2$. Hydrogenation of II with Pt gives said ketones. The following compounds were prepd.: $MeOCH_2CH_2COCH_2CMe_2$ (yield, 77%), bp 84-5°, n_D^{20} 1.4669, d_4^{20} 0.8902; $MeOCH_2CH_2COCH_2CHMe_2$, bp 176-7°, n_D^{20} 1.4200, d_4^{20} 0.8811; $EtOCH_2CH_2COCH_2CMe_2$ (67%), bp 83-4°, n_D^{20} 1.4550, d_4^{20} 0.9210; $EtOCH_2CH_2COCH_2CHMe_2$, bp 07-0°, n_D^{20} 1.4230, d_4^{20} 0.8813; $PrOCH_2CH_2COCH_2CMe_2$ (65%), bp 81-3°, bp 108-100°, n_D^{20} 1.4550, d_4^{20} 0.9100; $PrOCH_2CH_2COCH_2CHMe_2$, bp 110-12°, bp 228-0°, n_D^{20} 1.4230, d_4^{20} 0.8722; $iso-PrOCH_2CH_2COCH_2CMe_2$ (47%), bp 84-5°, n_D^{20} 1.4520, d_4^{20} 0.9002; $iso-PrOCH_2CH_2COCH_2CHMe_2$, bp 125-0°, bp 229-1°, n_D^{20} 1.4202; $BuOCH_2CH_2COCH_2CMe_2$ (55%), bp 100-100°, n_D^{20} 1.4553, d_4^{20} 0.9005; $BuOCH_2CH_2COCH_2CHMe_2$, bp 100°, n_D^{20} 1.4200, d_4^{20} 0.8833;

$1-MeOCH_2CH_2COCH_2CMe_2$ (10%), bp 104-5°, n_D^{20} 1.4575, d_4^{20} 0.9002; $1-MeOCH_2CH_2COCH_2CHMe_2$, bp 112-13°, n_D^{20} 1.4300, d_4^{20} 0.8902; $MeOCH_2CH_2COCH_2CMe_2Pr$ (54%), bp 85-0°, n_D^{20} 1.4550, d_4^{20} 0.9271; $PrOCH_2CH_2COCH_2CMe_2Pr$ (48%), bp 95-7°, n_D^{20} 1.4565, d_4^{20} 0.9029; $PrOCH_2CH_2COCH_2CHMe_2Pr$, bp 108-0°, n_D^{20} 1.4200, d_4^{20} 0.8751; $MeOCH_2CH_2COCH_2CPr_2$ (31%), bp 85-0°, n_D^{20} 1.4605, d_4^{20} 0.9202; $MeOCH_2CH_2COCH_2CPr_2$, bp 94-5°, n_D^{20} 1.4200, d_4^{20} 0.8804; $PrOCH_2CH_2COCH_2CPr_2$ (33%), bp 94-5°, n_D^{20} 1.4504, d_4^{20} 0.9013; $MeOCH_2CH_2COCH_2CH_2CPr_2$ (82%), bp 107-8°, n_D^{20} 1.4500, d_4^{20} 0.9003; $MeOCH_2CH_2COCH_2CH_2CPr_2$, bp 105-7°, n_D^{20} 1.4350; this compd. gave with $MeMgI$ $MeOCH_2CH_2CMe(OH)CH_2CPr_2$, bp 114-10°, n_D^{20} 1.4430, d_4^{20} 0.8904; $PrOCH_2CH_2COCH_2CPr_2$ (85%), bp 109-7°, bp 120-1°, n_D^{20} 1.4570, d_4^{20} 0.8719; $MeOCH_2CH_2COCH_2CMe_2CMe_2$ (45%), bp 101-3°, n_D^{20} 1.4628, d_4^{20} 0.9182; $PrOCH_2CH_2COCH_2CMe_2CMe_2$ (34%), bp 118-20°, n_D^{20} 1.4630, d_4^{20} 1.0001 (l). Addn. of alks. to 1-vinylethynylcyclohexanol gave $MeOCH_2CH_2COCH_2C(CH_3)_2$ (75%), bp 107-0°, n_D^{20} 1.4825, d_4^{20} 0.9021; $MeOCH_2CH_2COCH_2C(CH_3)_2$, bp 110-12°, n_D^{20} 1.4604, d_4^{20} 0.8947; with $MeMgI$ this compd. gave $MeOCH_2CH_2CMe(OH)CH_2C(CH_3)_2$, bp 121-2°, d_4^{20} 0.9230; $PrOCH_2CH_2COCH_2C(CH_3)_2$ (70%), bp 112-13°, n_D^{20} 1.4700, d_4^{20} 0.9000.

J. G. Tolpin

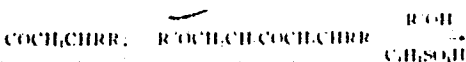
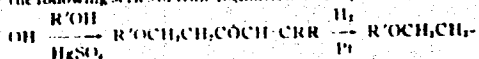
d_4^{20} 0.8981. By the same procedure were obtained 21 g. of $CH_3CHCOCH_2CHMePr$ (V) from 55 g. $MeOCH_2CH_2COCH_2CMePr$, b_p 95-8°, n_D^{20} 1.4309, V b_p 73-4°, n_D^{20} 1.4780, d_4^{20} 0.8821, MR found 41.20, calcd. 42.50. Hydrogenated with a Pt catalyst, 10 g. of V yielded 8 g. 5-methyl-3-octanone, b_p 72°, b_{90} 178-80°, d_4^{20} 0.8290, $CH_3CHCOCH_2CH_2CH_2$ (IV) (32 g.) was obtained from 60 g. $MeOCH_2CH_2COCH_2CH_2CH_2$, b_p 92-5°, n_D^{20} 1.4578, VI b_p 50-80°, n_D^{20} 1.4770, d_4^{20} 0.8838, MR found 44.12, calcd. 42.50. Hydrogenated with a Pt catalyst, 10 g. of VI yielded 8 g. of 5-ethyl-3-heptanone, b_p 87°, b_{90} 170-81°, n_D^{20} 1.4240, d_4^{20} 0.8411; semicarbazone (from 50% alc.), m . 127-8°. $CH_3CHCOCH_2CPr_2$ (VII) (30 g.) was similarly obtained from 74 g. $MeOCH_2CH_2COCH_2CPr_2$, b_p 97-9°, n_D^{20} 1.4600, VII b_p 80-1°, n_D^{20} 1.4725, d_4^{20} 0.8740, MR found 51.10, calcd. 51.70. Hydrogenated with Pt catalyst, 9 g. of VII yielded 7.5 g. 5-propyl-3-octanone, b_p 110-11°, b_{90} 209-11°, n_D^{20} 1.4310, d_4^{20} 0.8378; semicarbazone (from 80% alc.), m . 80-90°. $CH_3CHCOCH_2C(CH_3)_2CH_2CH_2CH_2$ (VIII) (14 g.) was ob-

tained from 55 g. $MeOCH_2CH_2COCH_2C(CH_3)_2$, b_p 101-5°, n_D^{20} 1.4750, VIII b_p 98.5-101°, n_D^{20} 1.4940, d_4^{20} 0.9588, MR found 45.51, calcd. 44.98. Hydrogenated with Pt catalyst, VIII yielded Et hexahydrobenzylketone, b_p 66-7°, n_D^{20} 1.4570, semicarbazone (from 50% alc.), m . 152-3°. The structure of the divinyl ketones was confirmed by their ozonization, and hydrolysis of the products: $CH_2=C(CHCOCH_2CRR) + \xrightarrow{O_3} RCOR + HCO_2H + (CO_2)H$.

hydrolysis

XV. Vinyl ketones and their polymerization.

Ibid., 562-8 (in English, 558). Vinyl ketones can be easily prepd. starting from tertiary vinylalkylcarbinols through the following series of transformations. $CH_3CH_2C(CRR)R'$



$CH_3CHCOCH_2CRR$. All the vinyl ketones described independently of the size of the alkyl radical, are easily polymerized, forming finally hard, transparent, rather elastic polymers which are colorless or have a light yellow color. $CH_3CHCOCH_2CHMePr$ (I) (17 g.) was obtained from 35 g. $MeOCH_2CH_2COCH_2CHMePr$, b_p 175-7°, n_D^{20} 1.4200, by distg. under a vacuum in the presence of 0.15 g. $p-C_6H_4SO_3H$. The splitting of MeOH began at a bath temp. of 100.5° and 60-70 mm. After removal of the MeOH, which took 30-40 min., the pressure dropped to 20-25 mm. and the vinyl iso-Bu ketone distd. over. I is a light yellowish, mobile, lacrimatory liquid with a very sharp odor, b_p 41-2°, n_D^{20} 1.4283, d_4^{20} 0.8400, MR found 34.40, calcd. 33.87. Hydrogenated I yielded Et iso-Bu ketone, b_p 134-6°, n_D^{20} 1.4080; semicarbazone, m . 118-9°. $CH_3CHCOCH_2CHMePr$ (II) (10 g.) was obtained from 31 g. 1-methoxy-5-methyl-3-heptanone, b_p 88-9°, n_D^{20} 1.4283, on vacuum distn. in the presence of 0.1 g. $p-C_6H_4SO_3H$. II b_p 40-1°, n_D^{20} 1.4360, d_4^{20} 0.8470, MR found 38.88, calcd. 38.16. Hydrogenated, II yielded 5-methyl-3-heptanone, b_p 160-1°, semicarbazone, m . 92°. $CH_3CHCOCH_2CHMePr$ (III) (15.5 g.) was obtained from 27.5 g. 1-methoxy-5-methyl-3-octanone on vacuum distn. in the presence of 0.2 g. $p-C_6H_4SO_3H$. III b_p 72-3°, n_D^{20} 1.4380, d_4^{20} 0.8450, MR found 43.50, calcd. 43.06. $CH_3CHCOCH_2CH_2CH_2$ (IV) was obtained (14 g.) from 20 g. 1-methoxy-5-ethyl-3-heptanone, b_p 94-5°, n_D^{20} 1.4280, on vacuum distn. in the presence of $p-C_6H_4SO_3H$. IV b_p 65-6°, n_D^{20} 1.4406, d_4^{20} 0.8516, MR found 41.26, calcd. 43.06. Hydrogenated with a Pt catalyst IV yielded 5-ethyl-3-heptanone, b_p 177-9°, semicarbazone, m . 128-9°. $CH_3CHCOCH_2CPr_2$ (V) (21 g.) was obtained from 31 g. 1-methoxy-5-propyl-3-octanone, b_p 91-0°, n_D^{20} 1.4372, on vacuum distn. in the presence of 0.1 g. $p-C_6H_4SO_3H$. V b_p 90-1°, n_D^{20} 1.4404, d_4^{20} 0.8408, MR found 52.75, calcd. 52.25. Ozonized in 50 g. $CHCl_3$.

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P 110