

Power Transmission by Direct and Alternating (Cont.)

SOV/1386

Berlin, Ye.M. Current Regulator for E-V D-C Transmission Lines 201

A current regulator, developed by Tekhbyuro MES and installed in the Kashira-Moscow d-c line, proved to be too complicated and not sufficiently reliable because of the great number of tubes required (about 20). Another type of current regulator (a contactless type developed in 1944 by Professors I.L. Kaganov and A.A. Sakovich) also was found unsuitable due to its lag and narrow zone of regulation (50°-60°). The author was commissioned to design a "tubeless" current regulator, which he completed in 1952. Experimental investigations on it proved that the previous disadvantages were removed. There are 5 diagrams and 3 Soviet references.

Melik-Sarkisov, B.S. Investigation of Shunting Devices for D-C Transmission Lines 210

Investigations were carried out by NIIFT in the Kashira-Moscow transmission line on the use of shunting devices during repair of mercury rectifiers, and without interruption of electric transmission. Shunt rectifiers and shunt disconnectors were tested and approved for use in the Stalin-grad-Donbass system. There are eleven diagrams and no references.

Card 9/13

Power Transmission by Direct and Alternating (Cont.)

SOV/1386

Shekhtman, M.G. Electromagnetic Power of a Synchronous Machine
Operating With a Rectifier as a Load

225

The author explains the theory of synchronous machines operating at full power against mercury rectifiers, and discusses the conditions of operation of synchronous machines from the point of view of their electromagnetic power. There are two diagrams and no references.

Shipulina, N.A. Bridge System With Capacitors Connected in Series To
Circuit Windings of the Transformer

234

The author explains the theory and discusses the results of experimental investigation on the above problem. There are 12 diagrams and no references.

Mel'gunov, N.M. Basic Features of a System With Bridge Converters
Connected Through Capacitors in D-C Transmission Lines

255

The author explains the theory and practical application of this system, which consists in the possibility of connecting bridge converters to an a-c network not through transformers, as is usually done, but through a bank of capacitors (N.M. Mel'gunov holds author's certificate No.105207, 1952, on this method). There is 1 appendix, 16 oscillograms and 5 Soviet references.

Card 10/13

Power Transmission by Direct and Alternating (Cont.)

SOV/1386

Kuchinskiy, G.S. The Possibility of Using Cable Paper in the Manufacture of Power Capacitors For D-C Transmission Lines 282

The author describes a method of reducing the cost of capacitor batteries operating in ripple voltage circuits by using cable paper in their manufacture. Cable paper costs 10 times less than conventional capacitor paper but its electric strength also is less and therefore its thickness must be greater. In determining the cost of Kva capacitors the author draws on the experience of the high-voltage laboratory of LPI (Leningradskiy politekhnicheskii institut) where cable-paper capacitors for d-c and ripple voltages have been produced on a semi-industrial scale since 1938. The technical editor suggests that plants manufacturing capacitors consider the author's results when producing capacitors for the above-mentioned conditions. He notes, however, that the cost relationships advanced by the author cannot yet be considered justified owing to the lack of operating experience which would indicate a long service life of cable-paper capacitors in comparison with conventional capacitors. In his comparisons the author used 35-40 KV/mm as the working voltage density. There are 2 diagrams and 4 Soviet references.

Card 11/13

Power Transmission by Direct and Alternating (Cont.)

SOV/1386

Kraychik, Yu.S. and A.M. Pintsov. Electrical Parameters of D-C Transmission Lines With Single-core Metal-sheathed Cables

289

The author obtains design parameters and equivalent circuits of d-c transmission lines consisting of single-core cable with a viscous saturant and lead or aluminum sheathing. There are 6 diagrams and 3 Soviet references.

SECTION II. ALTERNATING CURRENT

Koshcheyev, L.A. and Yu.A. Rozovskiy. Static Stability of Long-distance Electric Transmission Lines With Auxiliary Synchronous Condensers

299

NIIPF has carried out an investigation on comparative stability of long distance transmission lines with and without synchronous condensers. The investigations were carried out in the Stalingrad GES - Moscow line. The authors describe the tests and their results. They mention experimental work done by A.I. Kazachkov, V.A. Anreyuk, A.P. Zhilin and A.V. Burmistrov. I.A. Kosov and Ye.F. Arzamastsev participated in developing the stability comparison model. There are 7 diagrams and 7 references, all Soviet.

Card 12A3

SENA, L.A.; PANOV, I.P.; FRIDLAND, R.M.

Study of the quenching of the pilot arc of a high-voltage mercury-
arc rectifier. Izv. NIIPT no.1:39-59 '57. (MIRA 18:9)

PANOV, IU.

Electronics in the control apparatus of the production processes. p.29.
(RADIO I TELEVIZIJA, Vol. 6, no. 2, 1957, Sofia, Bulgaria.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957 Uncl.

PANOV, I.V.; ANTONINOV, V.N.; SOKOLOV, D.D.; ZAGUMENNYI, V.V.;
CHEREPNIN, S.V.; OBYDENNYI, P.T.; KOROBV, A.S., red.;
KOMONOV, A.S., red. izd-va; KHENOKH, F.M., tekhn. red.

[Provisional technical specifications for planning landscaping operations] Vremennye tekhnicheskie uslovia na proektirovanie rabot po ozeleneniiu. Utverzhdeny prikazom po Ministerstvu kommunal'nogo khoziaistva RSFSR No.233 ot 20 oktiabria 1961. Izd-vo M-va kommun.khoz.RSFSR, 1962. 147 p. (MIRA 15:8)

1. Gosudarstvennyy institut po proyektirovaniyu kommunal'nogo stroitel'stva.

(Landscape gardening)

GETSOVA, I. N.; PANOV, I. V.; BEDNYAGINA, N. P.

Benzazole and naphazole series. Part 6: 2-cycloalkylaminonaphth
[1,2-d]imidazoles and their 1- and 3-alkyl substituted derivatives.
Zhur. ob. Khim, 34 no.6:2026-2029 Je '64. (MIRA 17:7)

1. Ural'skiy politekhnicheskii institut imeni Kirova.

BEDNYAGINA, N.P.; TYURENKOVA, G.N.; PANOV, I.V.

Benz- and naphthazole series. Part 5: 5,6-dimethyl-2-hydrazinobenzimidazole and its N-alkyl-substituted derivatives.
Zhur. ob. khim. 34 no. 5:1575-1577 My '64. (MIRA 1:37)

1. Ural'skiy politekhnicheskii institut imeni Kirova.

PANOV, I.V.

Experimenting with bacterial fertilizers. Zemledelie 4 no.12:
85-86 D '56. (MLRA 10:2)

1. Inspektor Goskomissii po sortoispytaniyu sel'skokhozyaystvennykh
kul'tur po Dnepropetrovskoy oblasti.
(Fertilizers and manures)

PANOV, I.V., BEDNYAGINA, N.P.

Structure and pharmacological activity of 2-hydrazine benzazoles
[with summary in English]. Farm. i toks. 20 no.6:25-27 N-D '57
(MIRA 11:6)

1. Kafedra farmakologii (zav. - prof. A.K. Sangaylo) Sverdlovskogo
gosudarstvennogo meditsinskogo instituta i kafedra organicheskoy
khimii (zav. - prof. I.Ya. Postovskiy) Ural'skogo politekhnicheskogo
instituta imeni S.M. Kirova.

(HYDRAZINE, rel. cpds.

2-hydrazine benzazoles, structure & pharmacol (Rus))

(HETEROCYCLIC COMPOUNDS,

same)

KHADZHIOLOV, Khr.; DOCHOVSKI, D.N.; PANOV, Iv.; BABADZHOV, L.

Distribution, evolution and forms of silicosis in the
"Chiprovtsi" mine. Nauch tr. vissh. med. inst. Sofia 42
no.2:93-111 '63.

1. Predstavena ot prof. L. Tsvetkov, rukovoditel na Katedrata
po khigiena s klinika po profesionalni bolesti.
(SILICOSIS) (EPIDEMIOLOGY)

PANOV, K., insh.; RUCH'YEV, A., insh.

Introducing industrial building methods into housing construction.
Zhil. stroit. no.12:2-4 '60. (MIRA 13:11)
(Apartment houses) (Precast concrete construction)

DUBRAVIN, G.B., red.; PANOV, K.S., red.; STARUKHIN, N.M., red.;
PETROVA, V.V., red.izd-va; NAUMOVA, G.D., tekhn.red.

[Construction specifications and regulations] Stroitel'-nye normy i pravila. Moskva, Gosstroizdat. Pt.3. Sec.K. ch.1.[Apartment and public complexes, buildings, and structures; regulations for construction organization and acceptance] Zhilye i obshchestvennye komplekсы, zdaniia i sooruzheniia; pravila organizatsii stroitel'stva i priemki v ekspluatatsiiu (SNiP III-K. 1-62). 1963. 11 p.

(MIRA 17:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Dubravin). 3. Mezhdomstvennaya komissiya po peresmotru Stroitel'nykh norm i pravil (for Panov). 4. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Starukhin).

PANOV, K.V.

Public inspection of technical progress. Tekst. prom. 25 no.12:
85-87 D '65. (MIRA 19:1)

1. Predsedatel' Soveta Nauchno-~~te~~khnicheskogo obshchestva Moskov-
skoy kruzhevnoy gardinno-tyulevoy fabriki imeni Tel'mana.

PANOV, K. V.

Operation and periodic repair of equipment in chemical plants. Khim
prom. no.6:174-176 Je '47. (MIRA 8:12)

1. Glavnyy mekhanik Ministerstva khimicheskoy promyshlennosti SSSR.
(Chemical plants)

KOVRIZHIN, A.K.; LYKOV, G.P.; PANOV, L.K.

Investigating the manifestation of rock pressure in the chamber and pillar system of mining. Vop. gor. davl. no.17:13-18 '63.

(MIRA 18:9)

1. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut.

S/124/62/000/005/014/048
D251/D308

AUTHOR: Panov, L.

TITLE: Method of investigating the potential flow of an incompressible fluid around a wing profile of arbitrary form

PERIODICAL: Referativnyy zhurnal. Mekhanika, no. 5, 1962, 29, abstract 4B149 (Godishnik Mash. - elektrotekhn. in-t, 1959 (1960) v. 6, no. 4, 191 - 211)

TEXT: By using the results obtained by Kantorovich (L.V. Kantorovich, V.I. Krylov, Priblizhennyye metody vysshego analiza, (Approximate Methods of Higher Analysis), M., -L. Gostekhizdat, 1952, Ed. 4, 446 - 462) the author gives a method of successive approximations for obtaining the function which effects the conformal transformation of the contour under investigation onto the unit circle. Examples of the calculation are given. 5 references. [Abstractor's note: Complete translation].

Card 1/1

S/124/62/000/005/013/048
D251/D308

AUTHOR: Panov, L.

TITLE: The potential flow of an incompressible fluid around a wing profile of limited thickness and curvature

PERIODICAL: Referativnyy zhurnal. Mekhanika, no. 5, 1962, 29, abstract 5B248 (Godishnik Mash.- elektrotekhn. in-t. 1959 (1960), v. 6, no. 4, 223 - 225)

TEXT: The possibilities are considered of simplifying the method expounded by the author (Godishnik Mash. - elektrotekhn. in-t, 1959 (1960) v. 6, no. 4, 191-211) for a curved profile with limited thickness and curvature. Examples of the calculation are given for two forms of the wing profile. 3 references. [Abstractor's note: Complete translation].

Card 1/1

S/124/62/000/005/023/048
D251/D308

AUTHOR: Panov, L.

TITLE: The flow of an ideal incompressible fluid around two parallel infinite circular cylinders

PERIODICAL: Referativnyy zhurnal. Mekhanika, no. 5, 1962, 51, abstract 5B318 (Godishnik Mash. - elektrotekhn. in-t. 1959 (1960), v. 6, no. 4, 213 - 222)

TEXT: The problem is considered of the flow around two identical infinite circular cylinders of an ideal incompressible liquid. It is shown that this problem may be considerably simplified with the help of the simple conformal transformation considered in a previously published work. In the transformed plane the method of Kantonovich may be applied to effect a conformal reflection with the aid of which the problem may be completely solved. The proposed method is especially useful in the case when the distance between the axes is greater than twice the diameter of the cross-section of the cylinder. [Abstractor's note: Complete translation].

Card 1/1.

PANOV, L. Y. A.

Applying the hodograph method for the study of the potential flow of an ideal incompressible fluid in a plane diffuser. Godishnik mat elekt 8:73-86 '60. (publ. '61).

PANOV, L. A.

Potential flow of the incompressible fluid in a plane diffuser.
Godishnik mash elekt 9 no.3:61-70 '61. (publ. '62)

PANOV, L.YA.

Construction of a plane symmetrical channel by a given speed
distribution. Godishnik mash elekt 9 no.3:71-82 '61.
(publ. '62)

PANOV, L.A.

Extending applicability of a method for the study of the potential flow around the wing profile of an arbitrary form. Godishnik mash elekt 9 no.3:83-94 '61. (publ. '62)

PANGV, L.YA.

Potential flow in plane canals. Godishnik mash elekt 10
no.3:25-40 '61, (publ.'62).

PANOV, L.YA.

Construction of symmetrical wing profiles after a given speed distribution. Godishnik mash elekt 10 no.3:51-64 '61 (publ.'62).

PANOV, L. YA

Dimension: the plane radial blade wheel for hydraulic turbo-
machines. Godishnik mash elekt 11 no.3:73-84 '62 [publ. '63]

PANOV, L. YA.

Potential flow in flat symmetrical canals. Godishnik mash
elekt 12 no. 3:83-95 '62 [publ. '63].

/ 10.1200 1327 1502 2607

29849
S/044/61/000/007/018/055
C111/C222

AUTHOR: Panov, Lyuben

TITLE: On a new method for the determination of the potential flow of an incompressible fluid

PERIODICAL: Referativnyy zhurnal. Matematika, no. 7, 1961, 34, abstract 7 B 140. ("Godishnik Mash.-elektrotekhn. in-t", 1958 (1959), 5, no. 4, 49-61)

TEXT: Under the assumption that the fluid is ideal and incompressible, the author describes a new method for the construction of the potential flow for a great class of aviation profiles. Starting from two functions being inverse to the complex potential

$$z_1 = g_1(w) ; z_2 = g_2(w) \tag{1}$$

for known profiles flown towards by a flow free of circulations, the author constructs a new flow which is determined by the composed function

$$z(w) = z [g_1(w), g_2(w)] . \tag{2}$$

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On a new method for the determination ... ²⁹⁸⁴⁹
 S/044/61/000/007/018/055
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In the region of motion the function $z(w)$ must be unique and must satisfy the condition $\left. \frac{dz}{dw} \right|_{w=\infty} = 1$. The case where the equation (2) has the form

$$z(w) = [g_1^m(w) \cdot g_2^n(w)]^{1/p} \quad (3)$$

where m, n, p are positive integers and $m + n = p$ is considered in detail. As an example the author constructs a group of monosymmetric contours the geometrical contours are so that they can be counted to the group of carrying profiles. The equations of these contours are given explicitly; a formula for the determination of the velocity along the surface of the investigated profiles is established. Concrete examples are considered and carried out up to the numerical results. Taking

$$z(w) = \frac{1}{2} [g_1(w) + g_2(w)] ; \quad \frac{\partial z}{\partial g_1} = \frac{\partial z}{\partial g_2} = \frac{1}{2}$$

as the function $z(w)$ then one obtains an result investigated in an earlier Card 2/3

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On a new method for the determination ... S/044/61/000/007/018/055
C111/C222

paper by L.A. Simonov (Prikl. matem. i mekhan., 1947).

There are 3 references.

[Abstracter's note : Complete translation.]

X

Card 3/3

10.1200 1327 1502 2607

29850

S/044/61/000/007/019/055
G111/G222

AUTHOR: Panov, Lyuben

TITLE: Potential flow of an incompressible fluid in a plane nozzle

PERIODICAL: Referativnyy zhurnal. Matematika, no. 7, 1961, 34,
abstract 7 B 141. ("Godishnik Mash.-elektrotekhn. in-t", 1958
(1959), 5, no. 4, 63-76)

TEXT: It is stated that, starting from the complex potential of a given symmetric contour, the complex potential of the flow of an ideal fluid in a plane nozzle can be obtained with the aid of the conformal mapping

$\zeta = e^z$. Here it is assumed that the consumption of the flow is given and that the velocity in infinity is uniformly distributed over the cross section of the channel. The author uses the method described in the preceding article (abstract 7 B 140), he uses the known complex potential for the flow around simplest symmetrical profiles and constructs the flow in a plane nozzle the form of which is little different from the nozzles in practice. The equations of the flow lines and the equipotential lines are given explicitly. Concrete examples are considered,

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Potential flow of an incompressible ...

S/044/61/000/007/019/055
C111/C222

the net of flow lines and the equipotential lines is constructed for an example. It is proved that a series of new more complicated flows can be constructed with the described method by a "summation" of known elementary flows.

X

[Abstracter's note: Complete translation.]

Card 2/2

YUGOSLAVIA/Soils Science - Cultivation, Improvement, Erosion. J

Abs Jour : Ref Zhur Biol., No 22, 1958, 100120

Author : Panov, M.

Inst : ~~.....~~

Title : Soil Erosion in the Valley of the Krivolakavichka River

Orig Pub :

Abstract : Soils of the Krivolakavichka Riber's valley (southeastern Macedonia) are subjected to intensive erosive processes caused by the destruction of forests. Particularly important is the erosiveness of the left-bank soils. Here is developed a net of ravines, caused by landslides. Geomorphological characteristics of the region are described, and some applications for the afforestation of the eroded soils are indicated. -- G.A. Buyanovskiy

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- 83 -

PANOV, M.

New West European interstate organizations and the workers'
condition. Sots.trud 7 no.7:43-50 JI '62. (MIRA 15:8)
(Europe, Western--International agencies)
(European cooperation)
(Europe, Western--Labor and laboring classes)

PANOV, M.

The catchment area of the Kriva Lakavica and Otinja Rivers. Bul
sc Youg 7 no.3:69 Je '62.

1. Geografski institut Prirodosl.-mat. fakult, Skopje.

PANOV, M.

PANOV, M.

The European Coal and Steel Community and the situation of
the labor class. Sots. trud no.5:47-54 My '57. (MLRA 10:6)
(European coal and steel community)
(Europe, Western—Labor and laboring classes)

PANOV, K.

Soil erosion in Friva Lakavica Valley. p. 13
(GLASNIK, Vol. 36, No. 1, 1956 (Published 1957)

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, 1957
Uncl.

PANOV, M.

Financial instruments of the European Common Market and the European
Atomic Authority. Fin. SSSR 19 no.4:80-86 Ap '58. (MIRA 11:4)
(Europe, Western--Customs unions)
(Euratom (Proposed))

PAHOV, M.

Financial aspects of the activity of the "European Coal and Steel
Community." Fin.SSSR 18 no.3:77-85 Mr '57. (MLRA 10:5)
(European Coal and Steel Community)

PANOV, M. A.

Sparzha [Asparagus]. Moskva, Sel'khozgiz, 1952. 56 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 2 May 1954.

PANOV, M.A., doktor sel'skokhoz. nauk

Intraspecific classification of the common onion (*A. cepa* L.)
Izv. TSKHA no.4:62-69 '64. (MIRA 17:11)

1. Kafedra ovoshchevodstva Sel'skokhozyaystvennoy akademii
imeni Timiryazeva.

LEVENETS, N.P.; SAMARIN, A.M.; SEMIKIN, I.D.; KAZAKOV, V.E.; BEMBINEK, Ye.I.;
PANYUKHNO, L.G.; SVINOLOBOV, N.P.; AVERIN, S.I.; SMIRNOV, V.M.;
ZELENSKIY, V.D.; LAYKO, B.G.; TISHCHENKO, O.I.; OKHRIMOVICH, B.P.;
DANILOV, A.M.; TISHKOV, Yu.Ya.; PANOV, M.A.; MARKELOV, A.I.;
PETROV, A.K.; VASILEVSKIY, P.A.; PASYUK, K.I.; NESTEROV, V.I.;
KHRUSTAL'KOV, L.A.; GLAZKOV, V.S.; MAKAGON, V.G.; FOMIN, G.G.;
TRISHCHENKO, V.D.; KORZH, V.P.; SUYAROV, D.I.; ARSEYEV, A.V.;
PAVLYUCHENKO, A.A.; ZHADAYEV, V.G.; KONDORSKIY, R.I.; MOROZOVA,
I.A.; KOCHETOV, V.V.; PRUZHINER, V.L.; MALEVICH, I.A.;
MALIOVANOV, D.I.; ZAKOVRYASHIN, I.I.; NOVSKIY, I.S.; NOVIKOVA,
V.P.; GRISHIN, K.N.; MOSKOVSKAYA, M.L.; KORNEYEV, B.M.

Inventions. Met. 1 gornorud. prom. no.3:75-76 My-Je '64.

(MIRA 17:10)

PANOV, Mikhail Alexandrovich; CHERVYAKOVA, L.S., redaktor; ROSLOV, G.I.,
tekhnicheskiy redaktor

[Growing mushrooms] Vyreshchivanie shampin'onov. Moskva, Gos.
isd-vo tog.lit-ry, 1956. 137 p. (MIRA 10:9)
(Mushrooms)

PANOV, Mikhail Aleksandrovich, kandidat sel'skokhozyaystvennykh nauk;
KAZAKOVA, Ye.D., redaktor; GUREVICH, M.M., tekhnicheskiy redaktor

[Perennial vegetable crops] Mnegoletnie ovoshchnye kul'tury.
Moskva, Gos. izd-vo selkhoz. lit-ry, 1955. 126 p. (MLRA 9:8)
(Perennials) (Vegetable gardening)

SOV/102-58-4-10/11

AUTHOR: Panov, M.D.

TITLE: The Consequences of Automation and of Other Forms of
Technical Progress

PERIODICAL: Avtomatika, 1958, Nr 4, pp 83-84 (Ukr.SSR)

ABSTRACT: This is a summary of the report of D.A. Morse, Director
of the International Labour Organization, at Geneva,
June, 1957.

Card 1/1

PANOV, M. D.

Uproshchennye konstruktsii nekotorykh gidravlicheskih pressov vspomogatel'nogo nazachenia (Vestn. Mash., 1951, no. 2, p. 16-18)

Simplified designs of some auxiliary hydraulic presses.

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953

PANOV, M.D.

Report of the General Director of the International Labor
Organization D.A.Morse on automation and its consequences.
Avtomatyka no.4:83-84 '58. (MIRA 12:1)
(Automation)

PANOV, M. D.

Packing (Mechanical Engineering)

Using substitutes for non-ferrous metals in the parts of a gasket packing. Vest. mash.
31 no. 10, 1951.

9. Monthly List of Russian Accessions, Library of Congress, September, 1952 ~~1953~~. Unclassified.

PANOV, M. D.

USSR/Engineering - Foundry, Equipment

Nov 51

"Shake-Out Grates With Electric Drive," M. D. Panov, "Erasnoye Sormovo" Plant

"Litey Proizvod" No 11, pp 12, 13

Describes 2,200x1,200 mm grate of 7.5-ton loading capacity. Using 11.1 kw motor; it shows advantages over pneumatic system. Designer, Engr M. G. Berenkov, received 4th prize in All-Union Contest of 1952 for Best Suggestion on Conservation of Electric and Heat Power.

198116

...OV, R.D.

2. USSR (600)
7. Construction of Auxiliary Hydraulic Presses, Information Digest for Machine Construction, Feb 1952, Moscow
9. Compilation of Information on the USSR Machine and Machine Tool Industry Contained in Soviet Publications. ATIC 101339-AB. [REDACTED]

1. SHUMKOV, P. V., PANOV, M.D.

2. USSR (600)

4. Lathes

7. Efficient repair of the lathes by mechanic. Vest mash No. 9 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

PANOV, M. D., ENG.

Extrusion (Metals)

Hydraulic extruder GV_v50-53. Vest. mash. 32 No. 3, 1952.

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

PANOV, Mikhail Dmitriyevich, kand. ekonom. nauk; PARTOSH, L.Z., red.;
RAKITIN, I.T., tekhn. red.

[Dissipation and luxury amidst destitution] Rastochitel'stvo i
roskosh' sredi nishchety. Moskva, Izd-vo "Znanie," 1962. 31 p.
(Novoe v zhizni, nauke, tekhnike. III Seriya: Ekonomika, no.7)
(MIRA 15:6)

(Capitalism)

PANOV, Mikhail Dmitriyevich, kand. ekon. nauk; PARTOSH, L.Z., red.;
RAVITIN, I.T., tekhn. red.

[Extravagance and luxury among poverty] Rastochitel'stvo i
roskosh' sredi nishchety. Moskva, Izd-vo "Znanie," 1962. 31 p.
(Novoe v zhizni, nauke, tekhnike. III Seriya: Ekonomika, no.7)
(MIRA 15:5)

(Labor and laboring classes)

PANOV, M.F., starshiy elektromekhanik

We need the help of the factories. Avtom., telem. i sviaz' 5
no.5:41 My '61. (MIRA 14:6)

1.Chelyabinskaya distantziya signalizatsii i svyazi Yuzhno-Ural'skoy
dorogi. (Railroads--Switches)

PANOV, M. G.

AUTHORS: Vuks, M. F., Panov, M. G. 54-4-3/20

TITLE: Investigation of the Polarization Anisotropy of Molecules of Ortho-, Meta-, and Para-Dichlorobenzenes, Dibromobenzenes, and Xylenes by Scattering of Light in Solutions
(Izucheniye anizotropii polyarizuyemosti molekul orto-, meta-i paradikhlorbenzolov, dibrombenzolov i ksilolov po rasseyaniyu sveta v rastvorakh).

PERIODICAL: Vestnik Leningraskogo Universiteta Seriya Fiziki i Khimii, 1957, Vol. 22, Nr 4, pp. 14-18 (USSR)

ABSTRACT: The influence of the position of two substituents on the optical anisotropy and the polarization tensor of the above mentioned compounds is investigated. The results are compared with those of an additivity scheme. The values for dichlorobenzenes and dibromobenzenes are essentially higher than the additive ones. This phenomenon is explained by the linking of the π -electrons of halogen with the π -electrons of the benzene ring. With xylene the obtained values are somewhat lower than the additive ones. The latter is difficult to explain, but is, with reservation, ascribed to the induction effect.

Card 1/2

Investigation of the Polarization Anisotropy of Molecules 54-4-3/20
of Ortho-, Meta-. and Para-Dichlorobenzenes, Dibromobenzenes,
and Xylenes by Scattering of Light in Solutions

There are 2 figures, 2 tables, and 6 references,
3 of which are Slavic.

SUBMITTED: March 27, 1957

AVAILABLE: Library of Congress

Card 2/2

PAHOV, M.G.

Anisotropy of polarizability dihydroxybenzene and nitrophenol molecules
as determined by scattering in solutions. Vest. LGU 14 no.23:56-63 '69.
(MIRA 12:11)

(Benzene)

(Phenol)

VUKS, M.P.; PANOV, M.G.

Investigating the optical anisotropy of molecules of orto-, meta- and paradichlorobenzene, dibromobenzene, and xylene by scattering of light in solutions [with summary in English]. Vest. IGU 12 no.22: 14-18 '57. (MIRA 11:2)

(Benzene--Optical properties)

(Xylene--Optical properties)

(Light--Scattering)

PRIOROV, N.N., prof.; PANOV, M.I., starshiy nauchnyy sotrudnik

Conservation of homologous tissues and their clinical use.
Ortop., travm. i protez. 22 no. 4: 3-6 Ap '61.

(MIRA 14:11)

1. Deystvitel'nyy chlen AMN SSSR (for Priorov). Adres avtorov:
Moskva, G-21, Teplyy per., d.16, Tsentral'nyy institut travmato-
logii i ortopedii.

(TISSUES--TRANSPLANTATION) (TISSUES--PRESERVATION)

PANOV, M. N., FEDORENKO, N. V., AFROSIMOV, V. V., GORDEYEV, Yu, S.,

"Characteristic Energy Losses in Single Collisions of Atomic Particles"

report presented at the 3rd Intl Conf. on Physics of Electronics and Atomic Collisions,
London, 22-26 Jul 63

ACCESSION NR: AP4035696

S/0057/64/034/005/0857/0660

AUTHOR: Gordeyev, Yu.S.; Panov, M.N.

TITLE: Ionization and electron attachment by hydrogen ions in collisions with gas molecules and atoms

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.5, 1964, 857-860

TOPIC TAGS: ionization, electron attachment, ionization phenomena, ion collision, nitrogen, argon, hydrogen

ABSTRACT: The cross sections for ionization and electron attachment by H^+ , H_2^+ and H_3^+ ions in collisions with H_2 , N_2 , and A molecules were measured for incident ion energies from 1 to 40 keV, and the results are presented graphically and are compared with those of other workers. The apparatus employed was described by N.V. Fedorenko, V.V. Afrozimov and D.M. Kaminker (ZhTF 26, 1929, 1956). The ion beam was selected by a monochromator, defined by slits, and directed through a collision chamber containing gas at such pressure that multiple collisions could be neglected. The cross sections were calculated from the total electron current and the current of ionized gas molecules by neglecting the possibility of electron stripping from

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ACCESSION NR:AP4035696

the incident ions by the gas molecules. [Abstracter's note: The "potential method" by which the electron and ion currents were measured is not described in the present paper.] The means adopted by the authors cited above were employed to eliminate edge effects, and measures were taken to avoid the effects of secondary emission and reflection of ions scattered from the primary beam. The error of the measurements is estimated to be 15%. The ionization cross section increased monotonically with energy over the range investigated. The results deviated by more than the experimental error from those of H.B.Gilbody and J.B.Hasted (Proc.Roy.Soc.A240, 382,1957) but agreed satisfactorily with those of several other groups. The calculations of D.R.Bates and G.H.Gritting (Proc.Phys.Soc.A66,961,1953) reproduce the proton hydrogen cross sections satisfactorily for energies greater than 6 keV, but the calculated values are too small at lower energies. This discrepancy is ascribed to the use of the Born approximation in the calculations. The electron attachment cross sections reached maxima in the energy range investigated, the maxima occurring at higher energies for the heavier ions. The results agreed reasonably well with those of other workers, with one exception: the cross section obtained for electron attachment by H_2^+ from H_2 at 1 keV was considerably greater than that reported by S.N.Chosh and W.F.Scheridan (J.Chem.Phys.26,480,1957). The authors thank Prof.N.V.

Card 2/3

ACCESSION NR: AP4035696

Fedorenko and V.V.Afrpsimov for advice and constant interest in the work." Orig.
art. has; 2 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut im.A.F.Ioffe AN SSSR Leningrad (Physico-
technical Institute, AN SSSR)

SUBMITTED: 05Jun63

DATE ACQ: 20May64

ENCL: 00

SUB CODE: ME, NP

NR REF SOV: 005

OTHER: 007

Card 3/3

ACC NR: AP5026412

SOURCE CODE: UR/0386/65/002/006/0291, 0296, 34

AUTHOR: Afrosimov, V. V.; Gordeyev, Yu. S.; Panov, M. N.; Fedorenko, N. V.

ORG: Physicotechnical Institute im. A. F. Ioffe, Academy of Sciences SSSR (Fiziko-tehnicheskii institut Akademii nauk SSSR)

TITLE: Ionization and scattering with characteristic energy losses in atomic collisions

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 6, 1965, 291-296

TOPIC TAGS: atomic physics, ionization, collision cross section, argon, krypton, neon

ABSTRACT: This is a continuation of an earlier investigation (ZhTF v. 34, 1613, 1624, and 1637, 1964) of the elementary acts of collisions between ions and argon atoms having kev energies at impact parameters smaller than the atomic dimensions, where it was found that the spectrum of the excess inelastic loss is not continuous, but consists of relatively narrow discrete lines, the energies of which do not de

... was found that the spectrum of the excess inelastic loss is not continuous, but consists of relatively narrow discrete lines, the energies of which do not depend on the shortest distance between the nuclei, on the relative velocity of the particles, or on the scheme of the elementary process by which the charge states are changed. To determine the extent to which the observed phenomenon is general, the authors investigated collisions between ions and atoms of different noble gases. The measured excess inelastic energy loss R^* for the $Ne^+ + Ar$ pair was found not to de-

Card 1/3

L 9298-66

ACC NR: AF5026412

pend on the scheme of the elementary process. Excitation of several R^* lines was observed in the investigated interval of shortest distances between the nuclei of the colliding particles. The regions in which one R^* line is excited, and the region where the transition occurs from excitation of

Card 2/3

L 9296-06

ACC NR: AP5026412

of the shortest distance, but changes abruptly on going from the excitation of one characteristic line to the excitation of another. It is difficult at present to present an unambiguous interpretation of the observed effects. The explanation offered earlier, based on the assumption that vacancies are produced in the inner shells of the colliding particles and are followed by Auger transitions, is in poor agreement with the experimental data, as are other hypotheses. Authors thank M. Ya. Amus'ya for a discussion of the results and A. P. Shergin and Z. Z. Latypov for help with some of the measurements. Orig. art. has 3 figures. 44.55

from some of the measurements. Orig. art. has: 3 figures. 44,55 44,55

SUB CODE: 20/ SUBM DATE: 29Jul65/ ORIG/REF: 002/ OTH REF: 004 44,55

44,55

BC

Card 3/3

2

ACC NR: AP6004887

SOURCE CODE: UR/0057/66/036/001/0i23/0131

AUTHOR: Afrosimov, V.V.; Gordeyev, Yu.S.; Panov, M.N.; Fedorenko, N.V.

63
D160

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

TITLE: Ionization and scattering with characteristic energy losses in atomic collisions

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 1, 1966, 123-131

TOPIC TAGS: ionization, inelastic scattering, excitation energy, particle collision, ion energy, argon, neon, krypton,

ABSTRACT: The characteristic inelastic energy losses (energies carried off by electrons and radiation), previously investigated in Ar⁺-Ar collisions by the present authors (Compt. Rend. de la VI-e Conf. Int. Phen. d'Ionizat. dans les Gaz, eds. SEMA, 1, 111, Paris, 1963; ZhTF 34, 1613, 1964; ZhTF, 34, 1624, 1964; ZhTF, 34, 1637, 1964) and confirmed by E. Everhart et al (Phys. Rev. Lett., 14, 247, 1965; Phys. Rev. Lett., 14, 484, 1965), have been further investigated in Ne⁺-Ne, Ar⁺-Ar, Kr⁺-Kr, and Ne⁺-Ar collisions at incident ion energies of 12, 25, and 50 keV, using the apparatus and techniques described in the earlier papers. Characteristic inelastic energy loss "lines" were observed in all the investigated systems.

... described in the earlier papers. Characteristic inelastic energy loss
"lines" were observed in all the investigated systems. The probabilities for "excita-
tion" of the different "lines" (occurrence of the different characteristic energy

Card 1/2

UDC: 533.9

ACC NR: AP6004087

3

losses) were nearly independent of the incident ion energy but depended strongly on the distance of closest approach; the positions of the lines, however, did depend somewhat on the incident ion energy. The curves representing the composition with respect to charge of the scattered particles as a function of scattering angle revealed regions of slow and rapid change associated with excitation of the different characteristic lines, and the differential cross section deviated from a smooth curve at scattering angles associated with excitation of the characteristic lines. There was no simple relation between the characteristic lines excited in Ne^+-Ar collisions and those excited in Ne^+-Ne and Ar^+-Ar collisions; from this it is concluded that the lines are not to be ascribed to excitation of any energy levels characteristic of the isolated atoms. Difficulties are pointed out that are encountered in attempts, including the attempt of U.Fano and W.Lichten (Phys. Rev. Lett., 14, 627, 1965), to account for the experimental results by invoking Auger transitions. The authors argue in favor of their earlier hypothesis involving excitation of collective vibrations of the electron shells. The authors thank M.Ya. Amus'ya for valuable discussions.

hypothesis involving excitation of collective vibrations of the electron shells. The authors argue in favor of their earlier authors thank M.Ya. Amus'ya for valuable discussions, and A.P. Shergin and Z.Z. Latypov for participating in the work. Orig. art. has: 7 figures.

SUB CODE: 20/

SUBM DATE: 05Aug65/

ORIG REF: 002/

OTH REF: 008

Card 2/2 dda

AFROSIMOV, V.V.; GORDEYEV, Yu.S.; PANOV, M.N.; FEDORENKO, N.V.

Ionization and scattering in the characteristic energy losses
in atomic collisions. Pis'. v red. Zhur. eksper. i teor. fiz.
2 no.6:291-296 S '65. (MIRA 18:12)

1. Fiziko-tehnicheskiy institut imeni Toffe AN SSSR. Submitted
July 29, 1965.

AFROSIMOV, V.V.; GORDEYEV, Yu.S.; PANOV, M.N.; FEDORENKO, N.V.

Use of the method of coincidences in studying elementary events of
atomic collisions. Zhur. tekhn. fiz. 34 no.9:1613-1623 S '64.

(MIRA 17:10)

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR, Leningrad.

AFROSIMOV, V.V.; GORDEYEV, Yu.S.; PANOV, M.N.; FEDORENKO, N.V.

Characteristic energy losses in atomic collisions. Zhur. tekh. fiz.
34 no.9:1624-1636 S '64. (MIRA 17:10)

1. Fiziko-tekhnicheskiy institut imeni A.F. Ioffe AN SSSR, Leningrad.

AFROSIMOV, V.V.; GORDEYEV, Yu.S.; PANOV, M.N.; FEDORENKO, N.V.

Elementary processes in atomic collisions involving changes in
charge states. Zhur. tekh. fiz. 34 no.9:1637-1644 S '64.

(MIRA 17:10)

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR, Leningrad.

PANOV, M.P.; IVANITSKIY, Ye.A.; MEL'NICHUK, Ya.G.

Practice of shooting wells with TShB torpedoes. Neft. khoz.
40 no.1:65-68 Ja '62. (MIRA 15:2)
(Oil wells--Equipment and supplies)

11(0)

SOV/93-58-9-10/17

AUTHOR: Panov, M.P., Ivanitskiy, Ye.A., Shvay, L.P. and Shvets, A.P.

TITLE: The Production of Vertical Fractures by the Hydraulic Fracturing Process (Obrazovaniye vertikal'nykh treshchin pri gidrorazryve)

PERIODICAL: Neftyanoye khozyaystvo, 1958, Nr 9, pp 56-59 (USSR)

ABSTRACT: This is the first part of a study of the direction of fractures produced by hydraulic fracturing. The study was carried out by the industrial department of the UkrVNIGNI Institute. The laboratory experiments were carried out on a unit which was designed by E.B. Chekalyuk, an engineer, and improved by the authors of the present article. The text gives a detailed description of the experimental equipment which is shown in Figures 1-9. The experimental results will be presented in "Neftyanoye khozyaystvo," 1958, Nr 10. There are 9 figures.

Card 1/1

PANDV, M.P.

Instrument for measuring deflections of wells. Izv. tekhn. no. 4:
10-11 Ap '59. (MIRA 12:5)
(Oil wells--Equipment and supplies)

11(0)

AUTHOR:

Panov, M.P., Ivanitskiy, Ye.A., Shvay, L.P., and Shvets, A.P. SOV/93-58-10-9/19

TITLE:

The Development of Vertical Fractures in Hydraulic Fracturing
(Obrazovaniye vertikal'nykh treshchin pri gidrorazryve)

PERIODICAL: Neftyanoye khozyaystvo, 1958, Nr 10, pp 39-43 (USSR)

ABSTRACT:

This is a continuation of an article published in "Neftyanoye khozyaystvo", 1958, Nr 9. The present article presents the results of 16 fracturing operations carried out under laboratory conditions (Table 1). The experiments showed that all the samples developed vertical fractures, that 54.1 percent of the cases developed two fractures (Table 2), that the vertical and radial fractures were shallow, and that the fractures developed in a vertical direction in spite of an attempt to orient them otherwise. The development of the fractures in a vertical direction is in contradiction with the view of many authors who maintain that fractures must develop along the lines of the rock strata. There are 2 tables and 2 Soviet references.

Card 1/1

SOV/93-58-10-10/19

PANOV, M.P.; IVANITSKIY, Ye.A.; SHVAY, L.P.; SHVETS, A.P.

Vertical fractures formed by the hydraulic fracturing of strata
(conclusion). Neft.khoz. 36 no.10:39-43 O '58. (MIRA 11:12)
(Oil wells--Hydraulic fracturing)

AROV, M.P.; IVANITSKIY, Ye.A.; SHVAY, L.P.; SHVETS, A.P.

Vertical fractures formed by the hydraulic fracturing of strata.
Neft.khoz. 36 no.9:56-59 S '58. (MIRA 11:12)
(Oil wells--Hydraulic fracturing)

11(4)
AUTHOR:

Panov, M.P.

SOV/115-59-4-6/27

TITLE:

A Device for Determining the Curvature of Oil Wells
(Pribor dlya izmereniya krivizny skvazhin)

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 4, pp 10-11 (USSR)

ABSTRACT:

When drilling oil or gas wells, various methods are used for determining the shaft deflection. Most methods are based on etching a glass plate by hydrofluoric acid. The author and I.M. Chirko developed a new method for determining the curvature of wells without the application of hydrofluoric acid. For this purpose, a device is used, as shown by a diagram. A piece of photographic paper, developed to full blackness, is installed in one chamber of this device. The chamber is then filled to a certain level with a mixture of hyposulfite and potassium ferricyanide solutions. If the well temperature is below 70°C, 10 parts of hyposulfite solution are used; if it is higher than 70°C, 20 parts are re-

Card 1/2

A Device for Determining the Curvature of Oil Wells

SOV/115-59-4-6/27

quired. In either case, 1 part of potassium ferricyanide is used. The effectiveness of the mixture begins 8-10 minutes after mixing and ends within 18-20 minutes. When the device is lowered into the well, the liquid will bleach the photographic paper according to the angle of deflection. The author developed a special protractor for a precise determination of the well curvature. There is 1 diagram.

Card 2/2

121100, M.P.

AUTHOR: Panov, M. P., and Ivanitskiy, Ye. A.

93-58-3-11/17

TITLE: Results of Introducing Cumulative Perforation and Torpedoing
(Rezul'taty vnedreniya kumulyativnykh perforatsii i torpedirovaniya)

PERIODICAL: Neftyanoye khozyaystvo, 1958, Nr 3, pp 45-47 (USSR)

ABSTRACT: The article states that perforation with cumulative perforators and torpedoes increased the yield of oil. This method was successfully carried out in a depleted oilfield of the Boryslav Petroleum Administration (NPU Boryslavneft/). Fig. 1 gives the production curves before and after perforation with a PK-103 perforator. Fig. 2. gives the production curves before and after application of a TK-PP-114 torpedo. Fig. 3 shows the detailed design of a TK-PP-114 torpedo. The charge gear and the cumulative perforators were developed by the Perforator Laboratory of the Scientific Research Institute of Geophysical Prospecting Methods (Laboratoriya perforatsii NIGGR) and are currently produced in two modes: PK-103 for +60° temperatures and PK-103T for

Card 1/2

Results of Introducing Cumulative Perforation (Cont.)

93-58-3-11/17

temperatures up to +160°. The authors conclude that in view of the successful experiment at the Boryslav oilfield cumulative perforators may be recommended for opening dense formations and that TK-PP-114 torpedoes increase the oil yield of dense sandstone formations. There are 2 tables and 1 figure.

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Card 2/2

PANOV, M.P.; IVANITSKIY, Ye.A.

Introducing cumulative perforation and shooting. Neft. khoz. 36
no.3:45-47 No. '58. (MIRA 11:4)

(Petroleum engineering)

PANOV, M.P.

PANOV, M.P.; IVANITSKIY, Ye.A.

Drilling multiwell penetrations in fields of the Borislav Petroleum
Trust. Neft. khoz. 35 no.11:47-49 N '57. (MIRA 10:11)
(Borislav region--Oil well drilling)

PANOV, M.P., inzh.; IVANITSKIY, Ye.A.

Processing of yield graphs of deep wells exploited periodically.
Neftianik 6 no.2:10-13 F '61.

(MIRA 14:10)

1. Promyslovyy otdel Ukrainskogo nauchno-issledovatel'skogo geologo-razvedochnogo instituta (for Panov). 2. Glavnyy inzh. Neftepromyslovogo upravleniya Borislavneft' (for Ivanitskiy).
(Oil fields--Production methods)

PAHOV, H. [translator]; KARTUZOV, P. [translator]; BOCHAROVA, Z. [translator];
KURYLEV, Ye.S., dotsent [translator]; RYUTOV, D.G., kand.tekhn.
nauk, red.; CHICHKOV, N.V., red.; SUDAK, D.M., tekhn.red.

[Ninth International Congress on Refrigeration; collection of
reports] IX Mezhdunarodnyi kongress kholoda. Sbornik dokladov.
Pod red. D.G.Riutova. Moskva, Gos.izd-vo tog.lit-ry, 1958.
197 p. (MIRA 12:7)

1. Mezhdunarodnyy kongress kholoda. 9th, Paris, 1955. 2. Labo-
ratoriya tekhnicheskoy informatsii Vsesoyuznogo nauchno-issledo-
vatel'skogo instituta kholodil'noy promyshlennosti (im.A.I.
Mikoyana) (for Panov, Kartuzov, Bocharova). 3. Leningradskiy
tekhnologicheskiy institut kholodil'noy promyshlennosti (for
Kurylev).
(Refrigeration and refrigerating machinery--Congresses)

PANOV, N. inzh.-polkovnik

Evaluating technical skills of flight crews. Av. 1 kosm. 48 no.9:75-
77 S 165. (MIRA 18:8)

PANOV, N.

In the North Atlantic. Vypel 11 no.4:16-18 F '48.
(Dry docks) (MIRA 12:9)

PANOV, N.

38

Determination of the heat capacities of the liquid products of synthetic-rubber production. N. Panov and I. Dudnikov. *Sbornik Trudov Opytnogo Zavoda im. Akad. S. V. Lebedeva* 1938, 30-40; *Khim. Referat. Zhur.* 2, No. 4, 24 (1938).—The detns. were made by immersing (with contg. the substance (heated to a definite temp.) in a water calorimeter. The values obtained were: for piperylene (b. 41.6°) $C = 0.3747 + 2 \times 0.000086 + 3 \times 0.000010447$; for primary BuOH (b. 110.6°) $C = 0.6053 + 2 \times 0.000488 + 3 \times 0.000022$; for sec-BuOH (b. 110.2°) $C = 0.655 + 2 \times 0.00046 + 3 \times 0.000061247$; for sec-AmOH (b. 138.1°) $C = 0.592 + 2 \times 0.00113 + 3 \times 0.0000429$; for MeEtCO (b. 79.9°) $C = 0.4242 + 2 \times 0.00081 + 3 \times 0.00003469$; for Bu₂O (b. 140.5°) $C = 0.217 + 2 \times 0.00064 + 3 \times 0.0000669$. W. R. Henn

A 13-11 A METALLURGICAL LITERATURE CLASSIFICATION

GROUP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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PANOV, N. 30

PROCESSES AND PROPERTIES INDEX

Physicochemical constants of the hydrocarbon fraction used for regenerating rubber. K. Kuchinskaya and N. Panov. *Sbornik Trudov Opytnogo Zavoda im Akad. S. Y. Lobachev* 1936, 50-2; *Khim. Referat. Zhur.* 2, No. 4, 24 (1936).—The hydrocarbon fraction, dried over CaCl₂ for 24 hrs. and filtered, gave $d_4^{20} = 0.8300$, vapor pressure (by the dynamic method) $\log p = 7.88 - (2083.21/T)$, heat of vaporization (at 145°) 77.3 cal. per g., heat capacity at 20.5° to 150.5° C = $0.3746 + 2 \times 0.000033t$, mol. wt. 130.06. W. R. Henn

METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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S/C81/62/000/020/012/040
B159/B101

AUTHORS: Bakalov, D., Panov, N., Sumerska, M., Robev, St.

TITLE: Examination of certain nitro-derivatives of aromatic amidines

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1962, 149, abstract 20Zh125 (Doklad. Bolg. AN, v. 14, no. 8, 1961, 811-814 [summary in Eng.]

TEXT: 3-nitro-4-methyl-(I), 3-nitro-4-methoxy-(II), 3-nitro-4-chloro-(III) and N-(4-nitrophenyl)-benzamidine (IV), which have a possible radiobiological and pharmacological activity, are obtained when aromatic monoaryl substituted amidines are nitrated. At $\geq 30^{\circ}\text{C}$, 51 millimoles N-phenylbenzamidine are added to 40 ml HNO_3 (d 1.52) and after 10 min poured out in an excess of 5% cold KOH , giving IV, yield 89%, m.p. 168°C (from alcohol); hydrochloride (HC), m.p. $207-209^{\circ}\text{C}$ (from alcohol); hydrobromide (HB), m.p. $236-238^{\circ}\text{C}$ (from alcohol); hydroiodide (HI), m.p. $223-224^{\circ}\text{C}$ (from aqueous alcohol); picrate, m.p. $162-163^{\circ}\text{C}$; aniline-forayl

Card 1/2

ROBEV, S.; PANOV, N.

Synthesis of some n-aryl substituted amidines of 10-alkylpheno-
thiazine-3-carbon oxides. Doklady BAN 17 no.6:577-580 '64

1. Vorgelegt von A. Spasov [Spasov, A.], korr. Mitglied der
Akademie.

SPASOV, A.I.; PANOV, N.

On the octachlorophenothiazine and its preparation through the interaction of phenothiazine and some of its derivatives with sulfuryl chloride. *Godishnik khim* 54 no.3:233-240 1959/60 (pub. '61)
(EEAI 10:9)

(Chlorophenothiazine) (Sulfuryl chloride)

BULGARIA

ROBEV, S., DAYEV, I., PANOV, N., Institute of Radiology and Radiation Hygiene, Sofia

"A Study of the Radiation Protection Induced by 3-3'-Dithio-Bis-Propio Amidine"

Sofia, Doklady Bolgarskoy Akademii Nauk, Vol 19, No 11, 1966, pp 1035-1037

Abstract: [Russian article] The authors showed recently that some of the newly synthesized N-aryl-substituted aromatic amidines exhibit clear radiation protection effects in bacteria (St. Robev, S. Todorov, Dokl. AN SSSR, 132, 1960, 1201) and in mammals (see, e.g., I. Baev, St. Robev, Compt. rend. Acad. bulg. Sci., 15, 1962, No 6, 613). These and other results point to the possibility of increasing the radiation protection effect by means of functional groups in compounds containing sulfhydryl or a potential sulfhydryl and amidine group. Consequently, the present work investigated in 662 white mice the radiation protection supplied by the 3-3'-dithio-bis-propio amidine, and the effects of antagonism and synergism with adrenalin and hexamethonium. Results show that the above compound exhibits excellent radiation protection effect even during supralethal irradiation doses. It is close to the strength of radio protection observed with cysteamine. Other combined applications of propioamidine and with

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