Power Transmission by Direct and Alternating (Cont.)

SOV/1386

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

210

201

Investigations were carried out by NIIPT 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 Stalingrad-Donbass system. There are eleven diagrams and no references.

card 9/13

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239

| Power Transmission by Direct and Alternating (Cont.) 50V/1386 | |
|---|-----|
| Shekhtman, M.G. Electromagnetic Power of a Synchronous Machine Operating With a Rectifier as a load 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 electro- magnetic power. There are two diagrams and no references. | 225 |
| Shipulina, N.A. Bridge System With Capacitors Connected in Series To Circuit Windings of the Transformer The author explains the theory and discusses the results of experimental investigation on the above problem. There are 12 diagrams and no references. | 234 |
| Mel'gunov, N.M. Basic Features of a System With Bridge Converters Connected Through Capacitors in D-C Transmission Lines 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. | 255 |
| Card 10/13 | |
| | .• |

Power Transmission by Direct and Alternating (Cont.)

sov/1386

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

 $M \sim N_{\rm c}$

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 politekhnicheskiy 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.)

80V/1386

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

The author obtains lesign 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 NIIPT has carried out an investigation on comparative stability of long distance transmission lines with and without synchronous condensers. 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. Burnistrov. I.A. Kosov and Ye.F. Arzamastsev participated in developing the stability comparison model. There are 7 diagrams and 7 references, all Soviet.

299

Card 12A3

APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0012390

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

Study of the quenching of the pilot are of a high-voltage mercuryare rectifier. Izv. NIIPT no.1:39-59 157. (MIRA 18:9)

PANOV, IU.

Electronics in the control apparatus of the production processes. p.29. (RADIO I TELEVIZIIA, 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.; ZAGUMENNYY, V.V.; CHEREPNIN, S.V.; OBYDENNYY, P.T.; KOROBOV, A.S., red.; KOMONOV, A.S., red. izd-va; KHENOKH, F.M., tekhn. red.

[Provisional technical specifications for planning landscaping operations] Vrememye tekhnicheskie usloviia 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 napthazole series. Part 6: 2-cycloalkylaminonapth [1,2-d]imidazoles and their 1-and 3-alkyl substituted derivatives. Thur. ob. Khim, 34 no.6:2026-2029 Je 164. (M1R4 17:7)

1. Ural'skiy politekhnicheskiy 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 derivative. Zhur. ob. khim. 34 no. 5:1575-1577 My '64. (MIRA 1::7)

1. Ural'skiy politekhnichesiiy institut imeni Kirova.

Will style is the second

PANOV, I.V.

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

 Inspektor Goskomissii po sortoispytaniyu seliskokhosyaystvennykh kulitur po Dnepropetrovskoy oblasti. (Fertilisers and manures)

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

Structure and pharmacological activity of 2-hydrazine balzazoles [with summary in English]. Farm. i toks. 20 no.6:25-27 E-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.

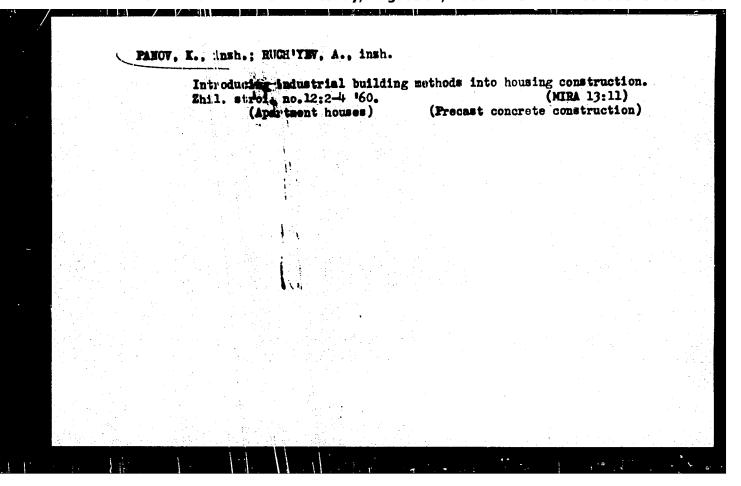
2-hydramine benzamoles, structure & pharmacol (Rus)) (HETEROCYCLIC COUMPOUNDS,

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. Sofiia 42 no.2:93-111 163.

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



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

[Construction specifications and regulations] Stroitelnye normy i pravila. Moskva, Gosstroiizdat. Pt.3. Sec.K.
ch.1.[Apartment and public complexes, buildings, and
structures; regulations for construction organization and
acceptance] Zhilye i obshchestvennye kompleksy, 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. Mezhvedomstvennaya komissiya po peresmotru Stroitel'nykh norm i pravil (for Panov). 4. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pemoshchi 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-tekhnicheskogo 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. (MERA 8:12)

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

KCWRIZHIN, 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 Kantorovich 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.YA.

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).

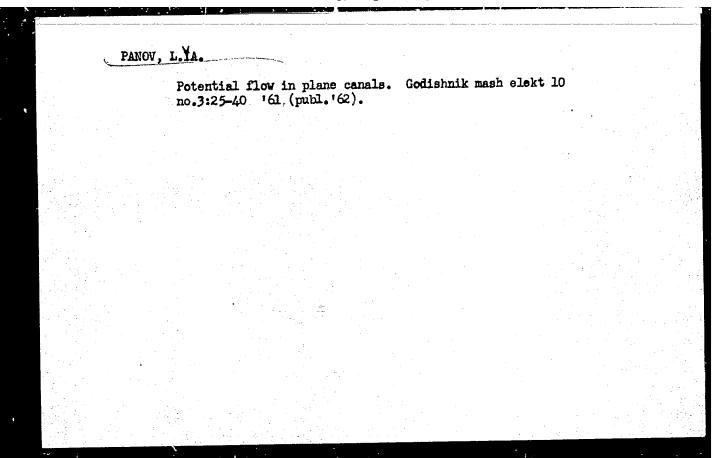
Potential flow of the incompressible fluid in a plane diffuser.

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)

| Exter flow mesh | nding app around to elekt | licability of he wing profi no.3:83-94 | a method ile of an '61. (pu | i for the arbitrar ubl. '62) | study of y form. | the potential Godishnik | |
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Construction of symmetrical wing profiles after a given speed distribution. Godishnik mash elekt 10 no.3:51-64 (publ. 62).

PANOV, L. YA

Dimensioning the plane radial blade wheel for hydraulic turbomachines. 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].

22

10,1200

1327 1502 2607

29849 \$/044/61/000/007/018/055 \$C111/0222

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

$$z_1 = g_1(w) ; z_2 = g_2(w)$$
 (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

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

Card 1/3

On a new method for the determination ...

29849 \$/044/61/000/007/018/055 C111/C222

In the region of motion the function z(w) must be unique and must satisfy the condition $\frac{dz}{dw}\Big|_{w=\infty}$ = 1. The case where the equation (2) has the form

$$\mathbf{z}(\mathbf{w}) = \left[\mathbf{g}_1^{\mathbf{m}}(\mathbf{w}) \cdot \mathbf{g}_2^{\mathbf{n}}(\mathbf{w})\right]^{1/p} , \qquad (3)$$

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 explicitely; 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

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

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

\$29849\$ S/044/61/000/007/018/055 On a new method for the determination ... C111/C222

paper by L.A. Simonov (Prikl. matem. i mekhan., 1947). There are 3 references.

Abstracter's note : Complete translation.

Card 3/3

44

10.1200

1327 1502 2607

29850 \$/044/61/000/007/019/055 C111/C222

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

S = e². 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,

Card 1/2

29850 S/044/61/000/007/019/055 C111/C222

Potential flow of an incompressible ...

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.

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

Inst

Panov, M.

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

Card 1/1

- 83 -

| PANOV, | New West European interstate organizations and the workers! | | |
|--------|--|--|--|
| | condition. Sots.trud 7 no.7:43-50 Jl 162. (MIRA 15:8) (Europe, Western-International agencies) (European cooperation) (Europe, Western-Labor and laboring classes) | | |
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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.

The Buropean Coal and Steel Community and the situation of the labor class. Sots. trud no.5:47-54 by '57. (MIRA 10:6) .

(Buropean coal and steel community)

(Burope, Western—Labor and laboring classes)

PANOV, N.

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

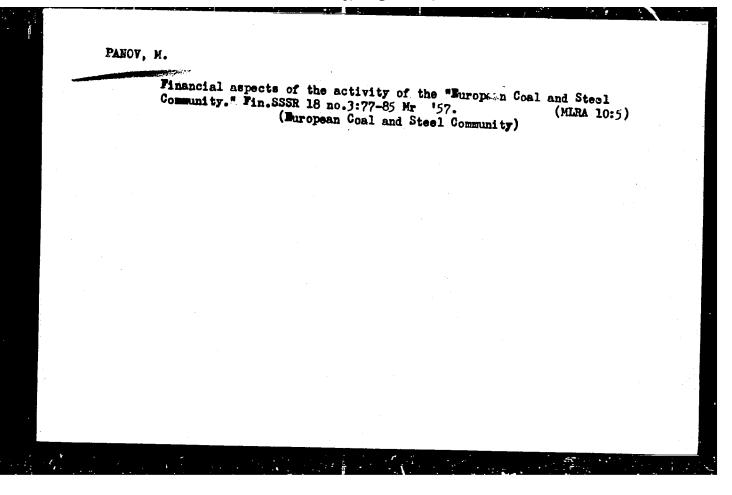
SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, 1957 Uncl.

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))



PANCY, 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'skokhez, rauk

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

1. Kafedra ovoshchevodstva Sel'skokhozyaystvennoy slajemii 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. i gornorud. prom. no.3:75-76 My-Je '64. (MIRA 17:10)

PANOV. Mithail Aleksandrovich; CHRRYAKOVA, L.S., redaktor; ROSLOV, G.I., tekhnicheskiy redaktor

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

PANOV, Mikhail Aleksandrovich, kandidat sel'skokhozyaystvennykh nauk;

KAZALCIA, Te.D., redaktor; GUREVICH, M.M., tekhnicheskiy redaktor

[Perennial vagetable crops] Mncgoletnie ovoshchnye kul'tury.

Moskva, Gos. izd-vo selkhoz. lit-ry, 1955. 126 p. (NIRA 9:8)

(Perennials) (Vegetable gardening)

SOV/102-58-4-10/11

AUTHOR: TITLE:

Panov, M.D.

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

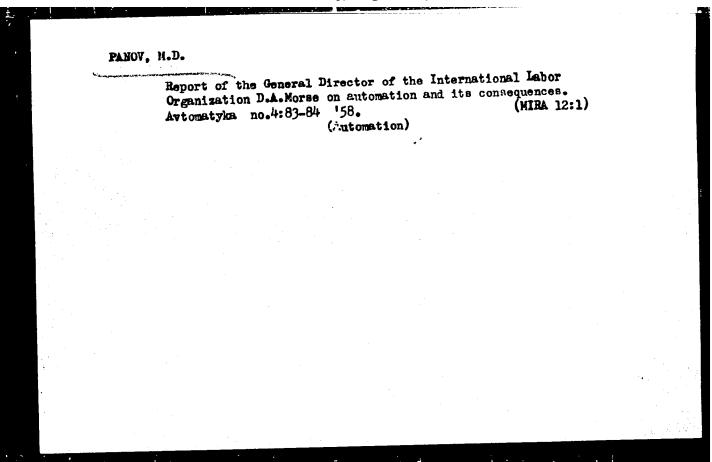
PANOV, M. D.

Uproshchennye konstruksii nekotorykh gidravlicheskikh pressov vspomogatel'nogo nazacheniia (Vestn. Mash., 1951, no. 2, p. 16-18)

Simplified designs of some auxiliary hydraulic presses.

DLC: TN4.V4

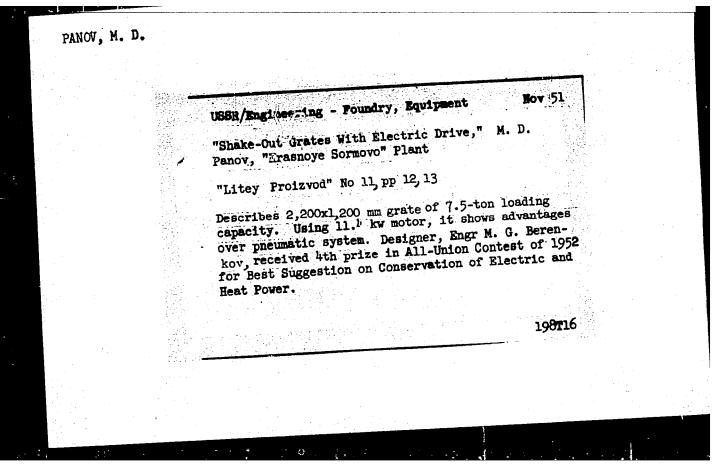
SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953



PANOV. M. D.

Packing (Mechanical Engineering)

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



2. USSR (600)

THE D.

7. Construction of Auxiliary Hydraulic Presses, <u>Information Digest for Machine Construction</u>, Feb 1952, Moscow

9. Compilation of Information on the USSR Machine and Machine Tool Industry Contained in Soviet Publications. ATIC 101339-AB.

0. 2 -

- 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 ofRussian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

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

[Dissipation and luxury amidst destitution] Rastochitel'stvo i roskosh' sredi mishchety. Moskva, Izd-vo "Znanie," 1962. 31 p.
Novoe v zhizni, nanke, tekhnike. III Seriia: Ekonomika, no.7)
(MIRA 1516)

(Capitaliam)

PANOV, Mikhail Dmitriyevich, kand. ekon. neuk; PARTOSH, L.Z., red.;

RAFTTIN, I.T., tekim. 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 Seriias Ekonomika, no.7)

(MIMA 15:5)

(Labor and laboring classes)

PANOV, M.F., starshiy elektromekhanik

We need the help of the factories. Avtom., telem. i sviaz 5

(MIRA 14:6)

no.5:41 My '61.

l Chelyabinskaya distantsiya signalizatsii i svyazi Yuzhno-Ural'skoy dorogi. (Railroads--Switches)

PANOU, M.G.

AUTHORS:

Vuls, M. F., Panov, M. G.

54-4-3/20

TITLE:

Investigation of the Polarization Anisotropy of Molecules of Ortho-, Meta-, and Para-Dichlorbenzenes, Dibromobenzenes,

and Xylenesby 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 1957, Vol. 22, Nr 4, pp. 14-18 (USSR)

Khimii,

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 pheomenon is explained by the linking of the r-electrons of halogen with the 1-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-Dichlorbenzenes, 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

| Anisotropy of polarizability as deterning by scattering | no.22:56-63 159. | |
|---|------------------|--------------|
| (Bonzene) | (Pnenol) | (MIRA 12:11) |
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WUKS, M.P.; PANOV, M.G.

Investigating the optical anisotropy of molecules of orto-, metaand paradichlorobenzene, dibromobenzene, and xylene by scattering
of light in solutions [with summary in English]. Vest. IGU 12 no.22:
114-18 '57.

(Benzene--Optical properties)
(Xylene--Optical properties)
(Iight--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.413-6 Ap '61.

1. Deystvitel 'nyy chlen AMN SISR (for Pricrov). Adres avtorov:

Moskva, G-21, Teplyy per., d.16, TSentrel 'nyy institut travmato
(TISSUES—TRANSPLANTATION) (TISSUES—PRESERVATION)

PANOV, M. N., FEDORENKO, N. V., AFROYSIMOV, 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

8/0057/64/034/005/0857/0860

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

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

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

TOPAC TAGS: ionization, electron attachment, ionization phenomena, ion collision,

ABSTRACT: The cross sections for ionization and electron attachment by $\mathrm{H}^+,\mathrm{H}_2^+$ and H₃ ious in collisions with H₃, N₂, 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 chanber 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

Card 1/3

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 H2 from H2 at 1 keV was considerably greater than that reported by S. N. Chosh and W. F. Scheridan (J. Chem. Phys. 26, 480, 1967). The authors thank Prof.N.V.

Cord 2/3

ACCESSION NR: AP4035698

Pedorenko and V.V.Afrpeimov for advice and constant interent in the mork." Orig. art. hes; 2 figures.

ASSOCIATION: Fisiko-tekhnicheskiy institut im.A.F. Ioffe AN 888R Leningrad (Physico-technical institute, AN 888R)

SUBMITTED: OSJun63

DATE ACQ: 20May64

ENCL: OO

SUB CODE: ME, NP

NR REF SOV: OOS

OTHER: OO7

ACC NR AP5026412 SOURCE CODE: UR/0386/65/002/006/0291,029 Afrosimov, V. V.; Gordeyev, Yu. S.; Panov, M. N.; Fedorenko, N. V. AUTHOR: ORG: Physicotechnical Institute im. A. F. Joffe, Academy of Sciences SSSR (Fizikotekhnicheskiy institut Akademii nauk SSSR) 44.55 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 do

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: AP50:26412

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 available one R* line is excited, and the region

| Cord 2/3 | | CHUIAL 18 NOT B | continuous fun | iction |
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| present an unumb offered earlier, shells of the co agreement with the Amus'ya for a di | distance, but changes abruptly ine to the excitation of anothe iguous interpretation of the obbased on the assumption that villiding particles and are followhe experimental data, as are other exception of the results and A. I measurements. Orig. art. has | served effects. acancies are pro wed by Auger tra her hypotheses. | The explanatioduced in the issistions, in i | to lon nner n poor |

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44, 55

Cord 3/3

ACC NR. APG004887 SOURCE CODE: UE/0057/66/036/001/0123/0131 AUTHOR: Afrosimov, V.V.; Gordeyev, Yu.S.; Panov, M.N.; Fedorenko, N.V. 63 60 Physicotechnical Institute im. A.F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut AN SSSR) 21,44,55 2/14412 Ionization and scattering with characteristic energy losses in atomic collislong 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 Art-Ar collisions by the present authors (Compt. Rend. de la VI-e Conf. Int. Phen. d'Ionisat. dans les Ga., eds. SERMA, 1, 111, Paris, 1963; ZhTF 34, 1613, 1964; ZhTF, 34, 1624, 1964; ZhTF, 34, 1637, 1964) and confirmed by R.Everhart et al (Phys. Rev. Lett., 14, 247, 1965; Phys. Rev. Lett., 14, 484, 1965), have been further investigated in Net-Ne, Art-Ar, Krt-Kr, and Net-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

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PPROVED FOR KELEADE: I ucoudy, August, using the apparatus and were observed in all the investigated systems. The probabilities for "excitation" of the different "lines" (occurrence of the different characteristic energy

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ACC NR: AP6004887

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 Net-Ar collision; and those excited in Ne+-Ne and Art-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 va for valuable discussed

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

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

1. Fiziko-tekhnicheskiy 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. tekh. fiz. 34 no.9:1613-1623 S 164.

(MIRA 17:10)

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

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 164. (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 .

(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 gidrorazywe)

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 K.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

Instrument for measuring deflections of wells. Izn.tukh. no.4:
10-11 Ap '59. (MIRA 12:5)

(Oil wells--Equipment and supplies)

17(0)

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

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 khozyay-stvo", 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 authors who maintain that fractures must develop along the lines of the rock tracture are 2 tables and 2 Soviet references.

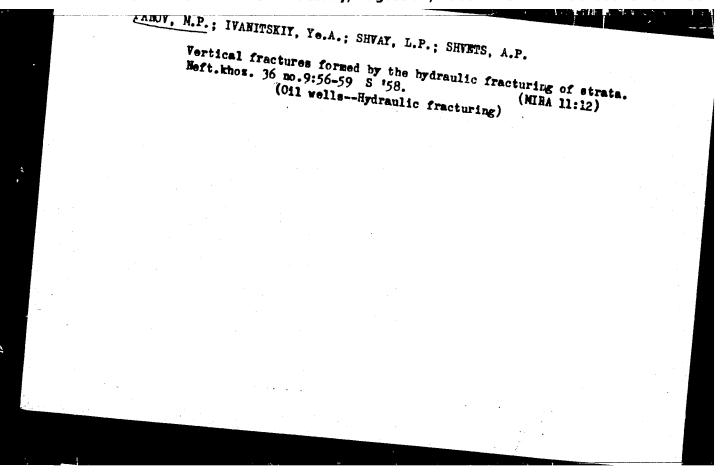
Card 1/1

80V/93-58-10-10/19

PARDY, 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 0 158. (MIRA 11:12)

(O11 wells--Hydraulic fracturing)



device.

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

Card 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0012390

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-

A Device for Determining the Curvature of Oil Wells

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 well, the liquid will bleach the photographic paper developed a special protractor for a precise determination of the well curvature. There is 1 diagram.

Card 2/2

MAP

AUTHOR:

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

93-58-3-11/17

TITLE:

Results of Introducing Cumulative Perforation and Torpedoing

PERIODICAL:

(Rezul'taty vnedreniya kumulyativnykh perforatsii i torpedirovaniya) 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. 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 modes1: PK-103 for +60° temperatures and PK-103T for

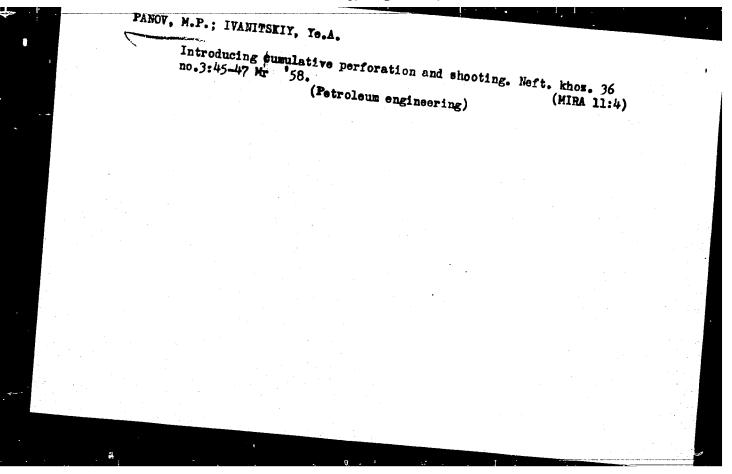
Card 1/2

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 Boryslev cilfield cumulative perforators may be recommended for opening dense formations and that IK-PP-114 torpedoes increase the oil yield of dense sandstone formations. There are 2 tables and 1 figure. AVAILABLE: Library of Congress

Card 2/2



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.

(Borielav region--011 well drilling)

(MERA 10:11)

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

Processing of yield graphs of deep wells exploited periodically.

Meftianik 6 no.2:10-13 F *61.

1. Promyslovyy otdel Ukrainskego nauchno-issledovatel*skego
geologo-razvedochnogo instituta (for Panov). 2. Glavnyy inzh.

Meftepromyslovogo upravleniya Borislavneft' (for Ivanitskiy).

(Oil fields--Production methods)

PANOV, M. [trenslator]; KARTUZOV, P. [translator]; BOCHAROVA, Z. [translator];

RUBTLEV, Ye.S., dotsent [translator]; RTUTOV, D.G., kand.tekhn.

nauk, red.; GLICHKOV, N.V., red.; SUDAK, D.M., tekhn.red.

[Einth International Congress on Refrigeration; collection of reports] IX Meshdunarodnyi kongress kholoda. Sbornik dokladov.

127 p.

1. Meshdunarodnyy kongress kholoda. Stornik dokladov.

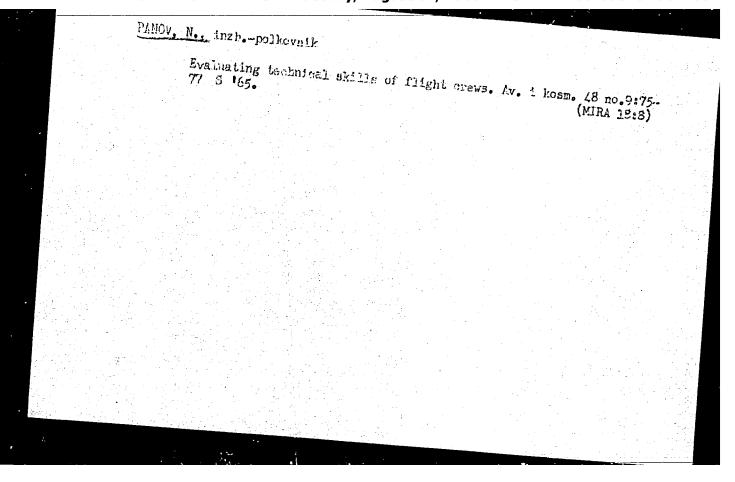
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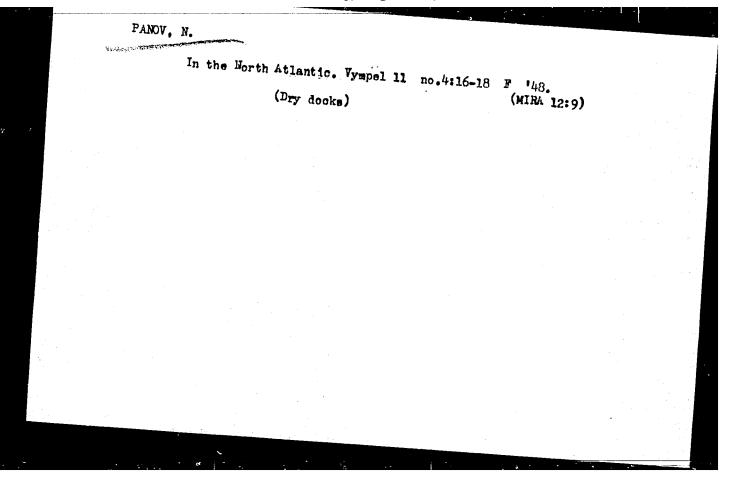
1. Meshdunarodnyy kongress kholoda. 9th, Paris, 1955. 2. Labovatel'skogo instituta kholodii'noy promyshlennosti (im.A.I.

vatel'skogo instituta kholodii'noy promyshlennosti (im.A.I.

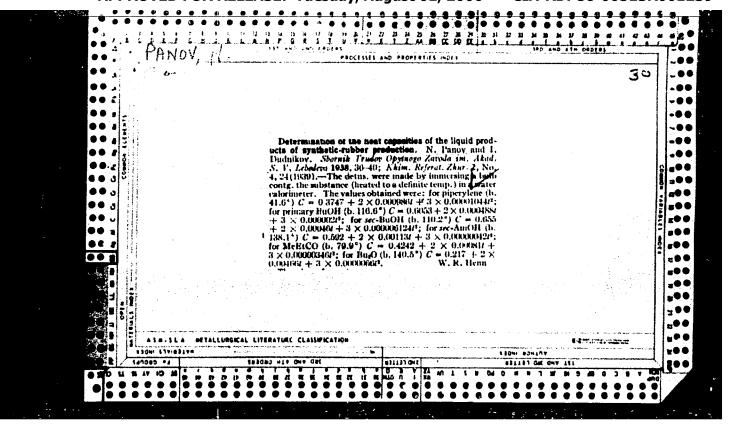
tekhnologicheskiy institut kholodii'noy promyshlennosti (for (Refrigeration and refrigerating machinery—Congresses)

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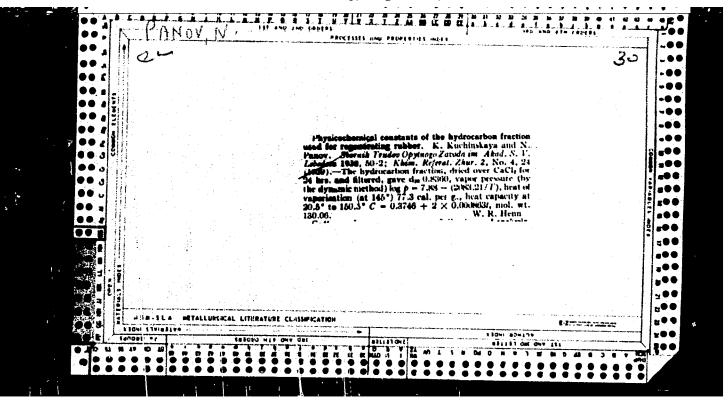




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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001239



S/C81/62/000/020/012/040 B158/B101

AUTHORS:

Bakalov, D., Panov, N., Sumerska, !!., 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.)

3-Litro-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 pharmocological activity, are obsained when aromatic monoaryl substituted amidines are nitrated. At > :0°C, 51 millimoles N-phenylberzamidine are added to 40 ml HNO3 (d 1.52) and after 10 min poured out in an excess of 5% cold MOH, giving IV, visld 89%, m.p. 168°C (from alcohol); hydrochloride (HC), m.p. 207-209°C (from alcohol); hydrobromide (HB), m.p. 236-238°C (from alcohol); hydroiodide (HI), m.p. 223-224°C (irom aqueous alcohol); picrate, m.p. 162-163°C; aniline-formyl Card 1/2

ROBEN, S.; PANOV, N.

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

1. Vergelegt von A. Spassov [Spasov, A.], kers. Mitglied der Akademie.

SPASOV, Al.; 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 (pmb. '61) (EEAI 10:9)

(Ghlorophenothiazine) (Sulfuryl chloride)

BULGARIA

ROBEV, S., BAYEV, I., PANOV, N., Institute of Radiology and Radiation Hygiene, Soria

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

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 chear radiation protection effects in bacteria (St. Robov, S. Todorov, Dokl. AN radiation protection effects in bacteria (St. Robov, S. Todorov, Dokl. AN radiation protection effects in bacteria (St. Robov, St. Robev, Compt. SSSR, 132, 1960, 1201) and in mammals (see, e.g., I. Bacv, 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°-cithio-bis-propio amidine, and the effects of antagonism and synergism with adrenalin and hexamothonium. Results show that the above compound exhibits excellent radiation protection offset even during supralethal irradiation doses. It is close to the strangth of radio protection observed with cysteamine. Other combined applications of propioamidine and with

.1/2

:16

PANOV, N. A.

Panov, N. A. "X-ray charts of acute interstitial pneumonia in inlants one month old", Trudy VI Vsesoyuz. s'yezda det. vrachey, posvyashch. pamyati prof. Filatova, Moscow, 1948, p. 160-63

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

PANCY, N.A. (prof.)

Respiration

Roentgenokymographic study of pulmonary respiration in infants. Pediatriia, no. 2, 1952

1952

Monthly List of Russian Accessions, Library of Congress, August

1993, Uncl.