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Subject

: USSR/Engineering

. ODDITY ENGINEE

Card 1/2

Pub. 28 - 7/11

Authors

: Kudryashev, L. I., Uvarov, G. A. and Erlikhman, A. M.

AID P - 3989

Title

Arrangement of two-stage evaporation with auxiliary

cylinders for boilers of small capacity.

Periodical

: Energ. byul., 12, 21-23, D 1955

Abstract

To improve the quality of steam and to reduce the number of blowing-outs in small-size boilers, a two-stage evaporation arrangement with auxiliary cylinders, consisting of a system of tubing attached to the upper and lower collectors and installed in the combustion chamber, was designed. The authors describe the construction, operation, and testing of the ShB A7 and ShB A3 (Shukhov-Berlin) boilers with this double-sided baffle as the second stage of evaporation. Steam production was reportedly improved by 25 to 30%. Two drawings.

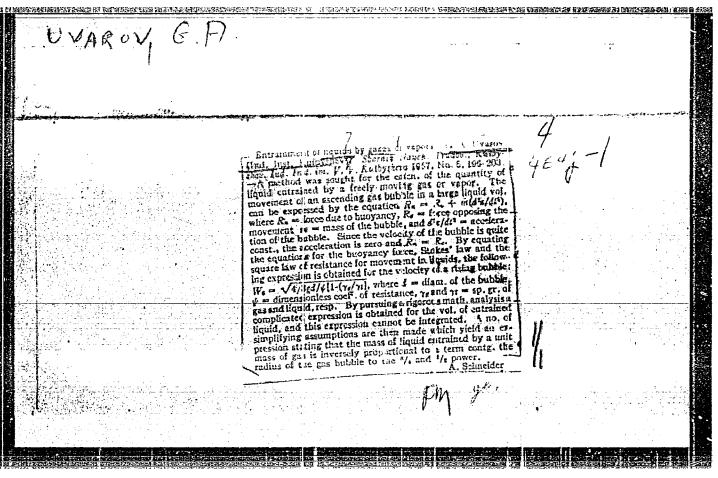
Energ. byul., 12, 21-23, D 1955

AID P - 3989

Card **2**/2 Pub. 28 - 7/11

Institution: None

Submitted : No date



ZHUKOV, A.M., inzh.; KUCHUGURENKO, A.P., dotsent, kand. tekhn. nauk; MURAV'YEV, V.D., inzh.; UVAROV, G.A., dotsent, kand. tekhn. nauk; FEDOROV, V.H., inzh.; SHESTAKOV, B.I., dotsent

Investigating combusting pulsations during burning of Kashpir shale in furnaces with shaft-type impact mills. Izv. vys. acheb. zav.; energ. 2. no.10:53-59 0 159. (MIRA 13:3)

1. Kuybyshevskiy industrial'nyy institut imeni V.V. Kuybysheva. Predstavlena sektsiyey prikladnoy teplotekhniki. (Oil shales)

。 1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1915年,1

DOYNIKOV, B.D., kand. tekhn. nauk, dots. Prinimali uchastiye: ODEL'SKIY, E.Kh., prof., zasl. deyatel' nauki i tekhniki BSSR, doktor tekhn. nauk; KUDRYASHOV, L.I., prof.; ERLIKMAN, A.M., dots., UVAROV, G.A., dots.; BIYUM, A.G., red.; KUZ'MENOK, P.T., tekhn. red.

[Studying the heat-exchange processes in the water systems of small capacity steam boilers] Issledovanie teploobmennykh protsessov vodnogo rezhima parovykh kotlov maloi moshchnosti. Minsk, Redaktsionnoizd. otdel BPI im. I.V.Stalina, 1961. 170 p. (MIRA 14:11) (Boilers) (Heat-Transmission)

UVARIOV, C.A., dotsent, kand.tekhn.nauk

Boiler units with combined circulation. Sbor. nauch. trud. Euib.
indus. inst. no.8:259-264 '61. (MIRA 14:7)

(Boilers)

BELOUSOV, V.M., inzh.; VIDMANOV Yu.I., inzh.; STEPANYAN, A.A., inzh.

UVAROV, G.A., kand.tekhn.nauk; FEDOROV, V.N., Inzh.; SHESTAKOV,
B.I., kand.tekhn.nauk

Measuring devices and methods for measuring pulsations in boiler furnace systems. Izv. vys. ucheb. sav.; energ. 4 no.3:49-52 Mr '61. (MIRA 14:3)

1. Kuybyshevskiy industrial'nyy institut imeni V. V. Kuybysheva. Predstavlena kafedroy tepolenergeticheskikh ustanovok.

(Transducers) (Boilers)

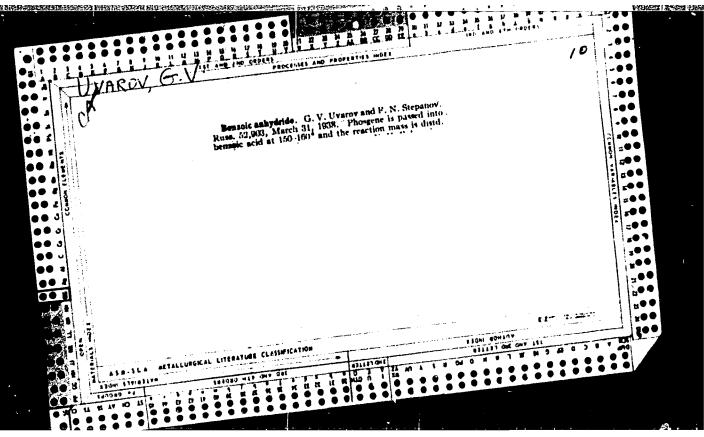
UVAROV, G.A., kand.tekhn.nauk; SHESTAXOV, B.I., kard.tekhn.nauk;
FEDOROV, V.N., inzh.; GOFKO, M.K., inzh.; ANDREYEV, G.B., inzh.
ORLOV, A.V., inzh.

Simultaneous burning of anthracite culm and gas with different
methods for supplying the gas to the furnace. Teploenergetika
(MIRA 14:8)
8 no.4:52-57 Ap '61.

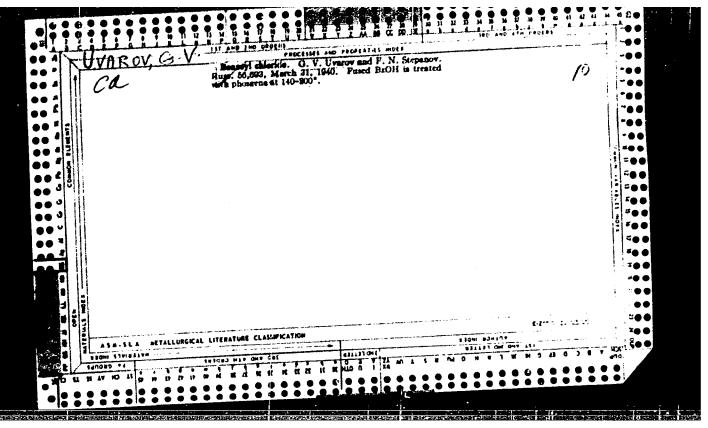
1. Kuybyshevskiy industrial'nyy institut i Kuybyshevenergo. (Furnaces)

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SOV/64-58-4-1/20

AUTHOR:

Uvarov, G. V.

TITLE:

The Chemical Industry Must Develop Quicker (Razvivat khimicheskuyu promyshlennost' uskorennymi tempami)

PERIODICAL:

Khimicheskaya promyshlennost', 1958, Nr 4, pp. 197 - 200(USSR)

ABSTRACT:

The May Plenary Session of the Tsk KPSS (Central Committee of the Communist Party of the Soviet Union) passed a historical program that mainly concerns the industry of natural and artificial fibers, plastics and other synthetics as well as products made of them. In order to show the great scale of this plan also some data on the planned development are given and the provinces concerned are mentioned. Among others also the insufficiencies to be removed at the MKhP (Ministry of Chemical Industry) are mentioned and it is noticed that for a successful development of chemical industry the corresponding equipment and apparatus must be designed and produced by the industry for machine building, apparatus building and mechanization. The publication of projection documentations is regarded one of the most important problems;

Card 1/3

SOV/64-58-4-1/20

The Chemical Industry Must Develop Quicker

the projecting institutes had to be assisted in this work; some of them are mentioned. The work of the scientific research institutes is criticized by some examples; a more directed and quicker work is demanded. The working out of new, and the improvement of existing methods for the production of initial materials for polymerization products of mineral oil and natural gases is mentioned as an example. Besides the perfection of already existing processes special interest has to be paid to the development of especially resistive and heat-resistive polymers for plastics and artificial fibers. In order to promote scientific research work some institutes and branches are being organized, which are mentioned by the author. The production of acetic acid by the Vladimir Chemical Plant is mentioned as example for a successful complex automation. A cooperation among the socialist countries is recommended, the cooperation among the chemists of the USSR (SSSR) and Czechoslovakia (Chekhoslovatskaya respublika) being mentioned as an example. The expenditure for scientific technical literature should be increased and the technical information service on foreign and domestic science and technique is to be extended. An

card 2/3

The Chemical Industry Must Develop Quicker

SOV/64-58-4-1/20

improvement of working methods is recommended to the Laboratory for Technical Scientific Investigations and Informations tory for Technical Scientific Investigations and Informations Institute imeni L. Ya. Karpov (Institut im. L. Ya. Karpova). Finally it is mentioned that the decisions by the plenary session met with international agreement.

ASSOCIATION: Gosudarstvennyy komitet Soveta Ministrov SSSR po khimii (State Committee for Chemistry of the Council of Ministers of the USSR).

1. Chemical industry--USSR

Card 3/3

- Uvarov, Georgiy Vasil'yevich, Deputy Chairman of the State Committee on Chemistry of the USSR Council of Ministers
- Razvitiye khimicheskoy promyshlennosti v 1959-1965 godakh (Development of the Chemical Industry Between 1959 and 1965) Moscow, Izd-vo "Znaniye," 1959. 15 P. (Series: Vsesoyuznoye obshchestvo po resprostraneniyu politicheskikh i nauchnykh znaniy. Seriya IV, 1959, no. 26) 47,500 copies printed.
- Sponsoring Agency: Vsesoyuznoye obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy.
- Ed.: T. F. Islankina; Tech. Ed.: L. Ye. Atroshchenko.

- PURPOSE: This booklet is intended for the general reader interested in the chemi-
- COVERAGE: The booklet emphasizes the growing importance of chemistry for different branches of industry and states that the rapid progress in aviation, rocket construction, electronics, and atomic energy has, to a great extent, beer made possible by new synthetics and plastics marmifactured by the chemical industry.

Card 1/2

807/2997 Development of the Chemical Industry (Cont.) As illustration it points out that the TU-104 aircraft has 120,000 parts made of synthetic rubber or plastics. Raw materials needed to manufacture chemical and petrochemicals are enumerated and the quantity of these materials now available in the Soviet Union indicated as well as the location of newly built chemical plants. No personalities are mentioned. No references are given. TABLE OF CONTENTS: 5 Raw Material Resources 10 Distribution of New Enterprises 11 Development of Different Branches of the Chemical Industry AVAILABLE: Library of Congress m/os 2/1/60 Card 2/2

sov/29-59-4-1/26 Uvarov, G., Deputy Chairman of the State Committee for Chemistry at the 5(0) AUTHOR: Council of Ministers of the USSR Komsomol, Let Us Fight for the "Great Chemistry" (Komsomol, v pokhod za bol'shuyu khimiyu !) TITLE: Tekhnika molodezhi, 1959, Nr 4, p 1 (USSR) The Central Committee of the CPSS decided in May 1958, to speed up the development of the chemical industry. The characteris-PERIODICAL: tic feature of the modern chemical industry is its capability of creating entirely new materials, which have no correspondence ABSTRACT: in nature, from cheap and abundantly available raw materials. During the next seven years principal care will be directed towards the production of synthetics, especially chemical fibers and plastics. Production of chemical fibers is to be increased by the 4-fold within the end of the Seven-Year Plan . In particular, the production of specially high-quality synthetic fibers is to rise by the 12 - 13-fold and that of plastics and synthetic rubbers by more than 7-fold. As much as 450 million meters of textiles will be produced by the end of the Seven-Year Plan with the use of synthetic fibers. The consumer will be Card 1/3

Komsomol, Let Us Fight for the "Great Chemistry"

SOV/29-59-4-1/26

offered large stocks of synthetic furs, footwear and household wares, all made of synthetic materials. To secure a surplus in goods, the government has appropriated investments of 100 - 105 billion rubles for the development of the chemical industry. This money is to be employed for the construction of 140 new plants, 35 of which are to produce synthetic fibers, and for the transformation of more than 130 existing plants. The creation of the "great chemistry" is impossible without the contribution of youth. The Lenin Komsomol has taken over the sponsorship of 27 new chemical plants. Youth is working with great enthusiasm at the construction of chemical fiber factories at Barnaul, Ryazan', Engel's, Krasnoyarsk, Kiyev and Mogilev. The Central Committee of the LVKSM in conjunction with the State Committee for Chemistry at the Council of Ministers has invited entries for a contest among youth collectives participating in the construction of chemical plants. As a means of encouraging the best collectives a challenge prize, the Red Banner of the Tsk VLKSM and of the Goskhimkomitet, as well as three money prizes in the amounts of 15,000, 10,000 and 5,000 rubles are contributed. Furthermore an All-Union youth contest has been announced for the best rationalization suggestions in

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Komsomol, Let Us Fight for the "Great Chemistry"

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the field of chemistry. The following prizes will be assigned to the contest participants for the best inventions, technical improvements and rationalization suggestions in the field of chemistry, that have so far been adopted in the works with technical and economic benefits: 15 first prizes (motor scooters "Tula-200", pianettes, motorcycles "IZh-56"); 25 second prizes (accordeons, hunting rifles, television sets); 50 third prizes ("Zorkiy" cameras, radio sets, record players and tape recorders "El'fa"). There is 1 figure.

ASSOCIATION:

Gosudarstvennyy komitet Soveta Ministrov SSSR po khimii (State Committee for Chemistry at the Council of Ministers, USSR)

Card 3/3

BARDIN, I.P., akademik, glavnyy red. [deceased]; VOL'FKOVICH, S.I., akademik, otv.red.toma; UVAROV, G.V., red.toma; KOMAROV, V.P., detsent, red.toma; LAVHENT YEV, M.A., akademik, red.; DIKUSHIN, V.I., akademik, red.; NEMCHINOV, V.S., akademik, red.; VEYTS, V.I., red.; LEVITSKIY, O.D., red.; NEKRASOV, N.N., red.; PUSTOVALOV, L.B., red.; KHACHATUROV, T.S., red.; ROSTOVTSEV, N.F., akademik, red.; POPOV, A.N., red.; GRAFOV, L.Ye., red.; GASHEV, A.D., red.; PROBST, A.Ye., prof., red.; VASYUTIN, V.F., prof., red.; KROTOV, V.A., prof., red.; VASIL'YEV, P.V., doktor ekonom.nauk, red.; LYUDOGOVSKIY, G.I., kand.tekhn.nauk, red.; LETUNOV, P.A., kand.geol.-mineral.nauk, red.; SHKOL'NIKOV, M.G., kand.ekonom.nauk, red.; BANKVITSER, A.L., red. izd-va; BRUZGUL', V.V., tekhn.red.

[Chemical industry] Khimicheskaia promyshlennost. Moskva, 1960. 202 p.

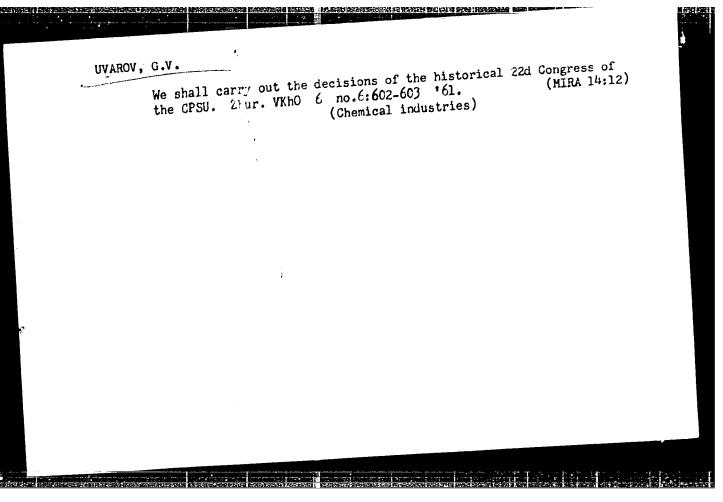
1. Akademiya nauk SSSR. Sovet po izucheniyu proizvoditelinykh sil. Sibirskoye otdeleniye. 2. Chleny-korrespondenty AN SSSR (for Veyts, Levitskiy, Nekrasov, Pustovalov, Khachaturov). 3. Vse-Boyuznaya akademiya sel skokhozyayatvennykh nauk imeni V.I.Lenina (for Rostovtsev). 4. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Popov). 5. Zamestitel' predsedatelya Gosplana RSFSR (for Grafov). 6. Chlen Gosplana RSFSR (for Gashev). 7. Zamestitel predsedatelya Gosuderstvennogo komiteta Soveta Ministrov SSSR po khimii (for Uvarov). (Chemical industries)

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THE PERSON NAMED IN

Chemicals and synthetic dyes for the industry. Kozh.-obuv.prom. 3
(MIRA 15:1)
no.11:14-17 N '61.

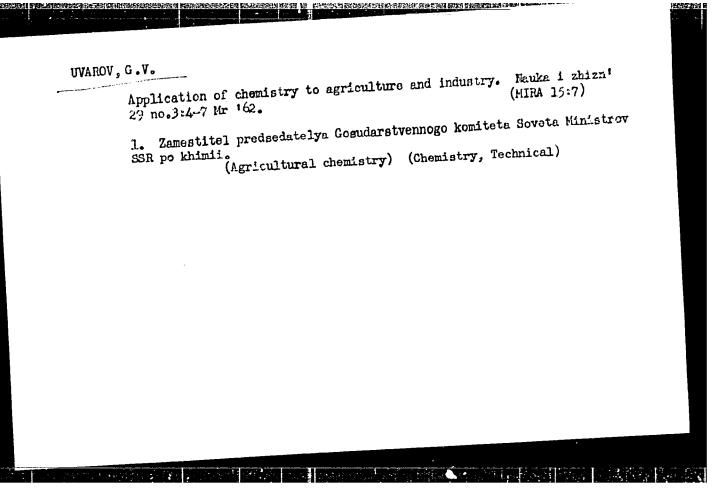
1. Zamestitel' predsedatelya Gosudarstvennogo komiteta po khimii
Soveta Ministrov SSSR.
(Chemistry, Technical) (Dyes and dyeing--Leather)



BUSHUYEV, Viktor Mikhaylovich; UVAROV, Georgiy Vasil'yayich; OSADA, P.A., red.; GERASIMOVA, Ye.S., tekim. red.

[Soviet chemical industry during the current seven-year plan]
Sovetskaia khimicheskaia promychlennost' v tekushchem semiletii.
Moskva, Izd-vo ekon. lit-ry, 1962. 197 p. (MIRA 15:4)

(Chemical industries)



UVAROV, G.V.; SALAMATOV, I.I.

Increase in the variety of output and the improvement of the quality of construction materials should be the main objective of the chemical machinery manufacture. Zhur. VKHO 8 no.3:242-244 163. (MIRA 16:8)

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UVAROV, G.V.

Carrying out the decisions of the December Plenum of the Central Committee of the CPSU is a concern of all Soviet people. Zhur. (MIRA 17:2) VKHO 8 no.6:601-604 '63.

1. Zamestitel' predsedatelya Gosudarstvennogo komiteta khimicheskoy i neftyanoy promyshlennosti pri Gosplane SSSR.

UVAROV, C.V.

Ideas in the fields of engineering and chemistry and problems in the development of chemistry. Vest.AN SSSR 35 no.6:48-53 Je '65. (MIRA 18:8)

1. Zamestitel' predsedatelya Gosudarstvennego komiteta khimicheskoy promyshlennosti pri Gosplane SSSR.

SECTION NECESSARY PROPERTY OF THE PROPERTY OF TA 242T34 UVARCY, I. B. Dec 52 USSR/Electricity - Literature "New Books on Electricity, Electrical Engineering, and Electric Power Engineering, Published in 1952" "Elektrichestvo" No 12, p 89 Lists 17 titles published in 1952, including the following: "Electronic Semiconductors and Their Applications" (Elektronnyye poluprovodniki i ikh primeneniye"), 56 pp, by G. M. Abdullayev; and "Synchronization of Induction Motors by the DAG System" ("Sinkhronizatsiya asinkhronnykh dvigateley po skheme DAG"), 84 pp, a short manual by I. B. Uvarov and L. N. Afanas'yev. 242T34 

UVAROV, I.B.; SHISHKIN, O.P.

Consumption of electric energy in turbine and rotary boring. Energ.biul. ze. (MIZA 6:11)
12:22-26 D '53. (Petroleum--Well boring)

### CIA-RDP86-00513R001858310011-3 "APPROVED FOR RELEASE: 08/31/2001

S/188/60/000/03/03/008 B019/B056

16.7300 AUTHORS:

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Romanovskiy, Yu. M., Uvarov, I. I.

TITLE:

An Experimental Investigation of the Parametric Excitation

of a String With Fluctuating Tensions

Vestnik Moskovskogo universiteta. Seriya 3, fizika, astronomiya, 1960, No. 3, pp. 24 - 27 PEPIODICAL:

TEXT: An investigation of parametric stability in an oscillation system consisting of two strings with one bead in the middle is dealt with. The fluctuation parameters are given by the tensions of the strings. By means of the experimental arrangement schematically shown in Fig. 1, the excitation of the parametric oscillation of the strings by random signals was investigated. A noise was applied to the input of the generator of mechanical oscillations, which set a vibrator in motion. The string oscillations were measured by means of a transmitter. By variation of the noise at the generator input, the strings were excited to random vibrations. The condition (2) for the paramagnetic excitation of the oscillation system is given, and the important parts played here by the Card 1/2

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An Experimental Investigation of the Parametric S/188/60/000/03/03/008 Excitation of a String With Fluctuating Tensions B019/B056

spectral density of the random processes in the parametric excitation of the system is pointed out. From the experiments described here it follows that even a high-quality oscillation system becomes unstable under certain conditions. This is in qualitative agreement with theory. The authors thank Professor S. P. Strelkov for his valuable advice and L. A. Shenyavskiy for his help in carrying out the experiments. There are 2 figures and 1 non-Soviet reference.

ASSOCIATION: Kafedra obshchey fiziki dlya mekhmata (Chair of the General Physics of Mechanical Mathematics)

SUBMITTED: October 20, 1959

Card 2/2

KAMARDINKIN, N.P.; SHUVAYEV, A.S.; PALKIN, V.I.; HEEKOVA, A.S.; TARABAN'KO, P.I.; KHOLMSKIY, R.V.; CHIPP, L.V.; DOBASHIN, G.S.; FLEROVA, L.I.; MAKSIMOV, N.M.; RAFIYENKO, I.I.; PAL'MOV, I.I.; UVAROV, I.M.; DUBROVIN, P.Ye.; LIKHACHEVA, O.A.; UVAROVA, I.I.

Conference of the Teaching Staff and Students of the Moscow Geological Prospecting Institute. Izv. vys. ucheb. zav.; geol. i razv. 6 no.12:143-148 D \*163 (NIRA 18:2)

KAMARDINKIN, N.P.; SHUVAYEV, A.S.; PALKIN, V.I.; NEMKOVA, A.S.; TARABAN'KO, P.I.; KHOLMSKIY, R.V.; GNIPP, L.V.; DOBASHIN, G.S.; FLEROVA, L.I.; MAKSIMOV, N.M.; RAFIYENKO. I.I.; PAL'MOV, I.I.; UVAROV, I.M.; DUBROVIN, P.Ye.; LIKHACHEVA, O.A.; UVAROVA, I.I.

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Conference of the Teaching Staff and Students of the Moscow Geological Prospecting Institute. Izv. vys.ucheb.zav.; geol. i razv. 6 no.12:143-148 D \*63. (MIRA 18:2)

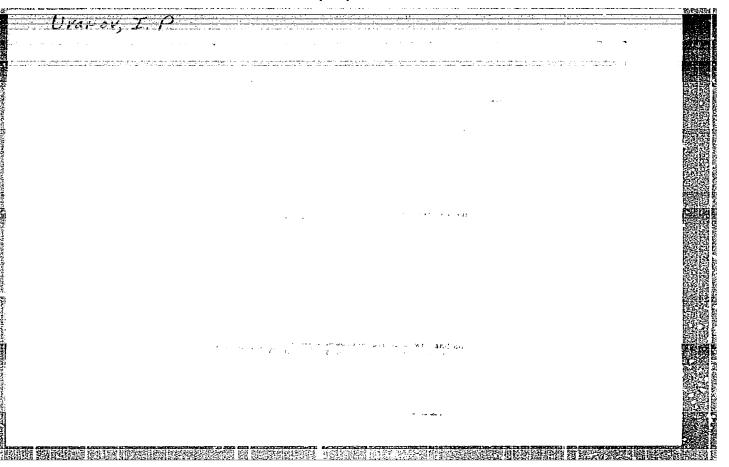
TISHCHEMKO, D.; UVAROV, I.

New type of terpene conversions. Part 16. Structure and certain conversions of camphene dichloride. Emur.ob.khim. 23 no.8:1407-1414 ag '53.

(HIRA 6:8)

1. Kafedra organicheskoy khimii Lesotekhnicheskoy akademii im. S.M.Kirova.
(CA 47 no.22:12312 '53)

(Camphene dichloride)



I-9

UVAROV, IF

USSR/Chemical Technology - Chemical Products and Their

Application. Wood Chemistry Products. Hydrolysis Industry

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2659

Author: Uvarov, I.P., Gordon, L.V., Gusakov, V.N.

Inst :

Title : Wood-Tar Pitch as Binder in the Production of Wood-Coal

Briquettes

Orig Pub : Gidroliznaya i lesokhim. prom-st', 1957, No 4, 10-11

Abstract : Description of experiments on making of briquettes from

birch wood coal (moisture content 1%) and wood-tar pitch (softening point, Maken / transliterated / block method, 90°). Strength to crushing (in kg/cm²) of briquettes (umbaked) containing 10, 15, 20% pitch and produced with low pressure, is respectively, 4.4, 7.4, 17.3; that of baked briquettes is 16.3, 23.3, 26.8. With a press-working pressure of 65 kg/cm² the average strength of baked briquettes was of about 40 kg/cm²; increase in pressure

Card 1/2

USSR/Chemical Technology - Chemical Products and Their I-9
Application. Wood Chemistry Products. Hydrolysis Industry

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2659

to 150 kg/cm<sup>2</sup> increases the strength to 100 kg/cm<sup>2</sup>. Strength of unbaked briquettes could be increased to 50-80 kg/cm<sup>2</sup>, by raising the pressure. Strength of briquettes on attrition is low.

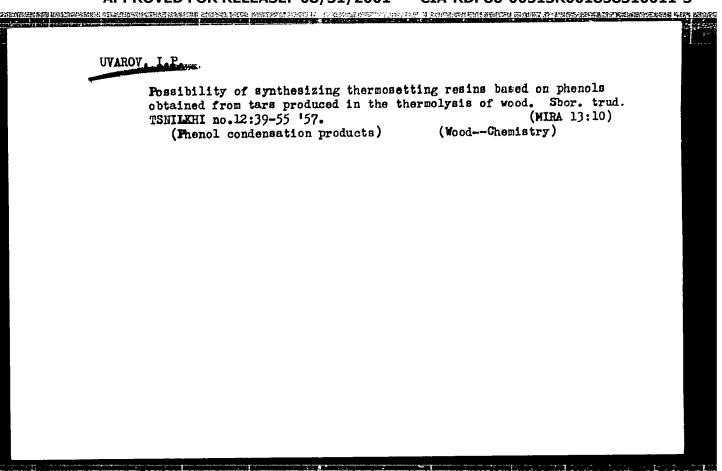
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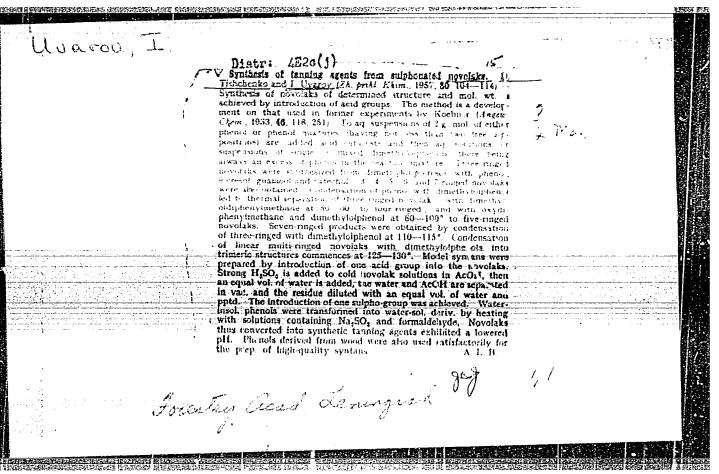
GORDON, L.V.; UVAROV, I.P.,

Hemoval of phenols from industrial waste waters. Gidrolis. 1
lesekhim.prom. 10 no.1:16 '57. (MIRA 10:4)

1. TSentral'nyy nauchno-issledovatel'skiy institut lesnogo khosyaystva.

(Water--Purification) (Phenols)





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# UVAROV, I.P.

Directed synthesis of phenol-formaldehyde resins. Gidroliz. i lesokhim. prom. 11 no.5:5-7 '58. (HIRA 11:9)

1. TSentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut. (Resins, Synthetic)

GORDON, L.V.; UVAROV, I.P.; KATUNIN, V.Kh.; SHUTOV, A.F.; KAMINER, B.B.; FOMENKO, L.A.

Distillation and coking of wood tars with a solid heat carrier. Gidroliz.i lesokhim.prom. 13 no.3:3-4 '60. (MIRA 13:7)

1. TSentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut (for Katunin). 2. Gosudarstvennyy muchno-tekhnicheskiy komitet Soveta ministrov RSFSR (for Shutov). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza (for Fomenko).

(Wood tar) (Distillation)

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UVAROV, I.P.; GUSAKOV, V.N.

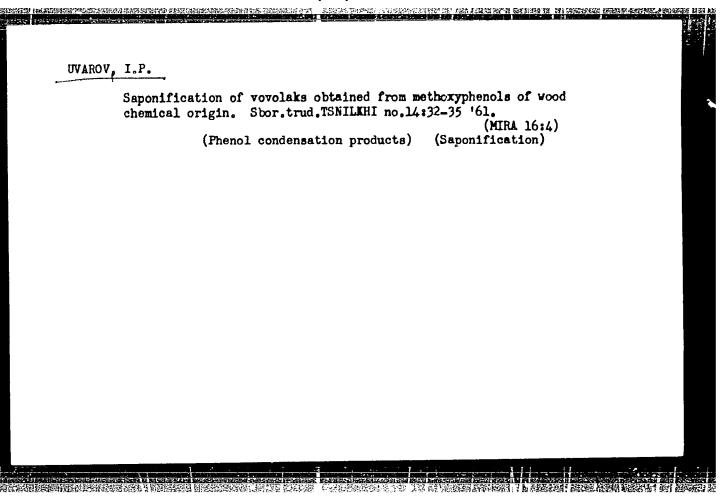
PFIKh-1 viscosity reducer. Gidrolis. i lesokhim.prom. 13 no.7:7-9
(60.

1. TSentral'myy nauchno-issledovatel'skiy lesokhimicheskiy institut.
(Wood--Chamistry) (Viscosity)

THE PROPERTY INVESTIGATED FOR THE PROPERTY OF THE PROPERTY OF

BEZMOZGIN, E.S.; UVAROV, L.P.; KIPRIANOV, A.I.; NEMCHENKO, A.G.; YUDKEVICH, Yu.D.

Vapor phase thermal demethylation of wood-tar oils in a contact pyrolysis reactor. Trudy VNIIT no.10:59-63 '61. (MIRA 15:3) (Wood tar) (Methyl group) (Pyrolysis)



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AUTHOR:

Uverov, l. 1.

IIILD:

Condensation of coupl to methyl ethers of phenols with

forwaldehyde

PERIODICAL: Referativnyy zhurnal. Klimiya, no. 19, 1962, 511, abstract 19861 (St. tr. Teintr. n.-i. i proyektn. in-t lesokhim.

prom-sti, no. 14, 1961, 35 - 38).

TEXT: The condensation reactions of complete methyl ethers of Pyrocatechol and resorcinol with formaldehyde (I) in acid medium were studied to determine the posticilities of condensing complete methyl ethers with I to form high-molecular condensates. If the reaction is conducted with an execuse of 1, up to 100°C a linear polymer will be formed;

at 150°C, it becomes a threa-dimensional one. An infusible resin was obtained by condensing the resorcinol dimethyl ether with dimethylol-pcresol at a molar ratio of 1:1 and at 15000, using phosphoric acid as catalyst. A novolac resin, anich did not go over into the infusible state, was obtained by condensing veratrole with dimethylol-p-cresol at a molar Card 1/2

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Condensation of complete	3/061/62/060/019/032/053 moshyl B101/B160
ratio of 1:1 and at 150°C	with phosphoric acid. The resin darkens on
further heating to 160°c.	batracter's note: Complete translation.
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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858310011-3"

UVAROV, I.P.; GORDON, L.V.

Vapor phase pyrolysis of phenols and oils. Gidroliz. i lesckhim. prom. 14 no. 1:12-14 '61. (MIRA 14:1)

1. TSentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut.

(Phenols) (Oils and fats)

UVAROV, I.P.; PARSHUTKIN, Yu.A.; BALASHOV, N.N.; BOGDANOV, G.A.; BEZMOZGIN, E.S.; NEMCHENKO, A.G.; YUDKEVICH, Yu.D.; KIPRIANOV, A.I.

Vapor-phase pyrolysis of wood-tar oils. Gidroliz. i lesokhim. prom. 14 no.8:5-6 '61. (MIRA 16:11)

1. TSentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut (for Uvarov, Parshutkin, Balashov, Bogdanov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke i ispol'-zovaniyu topliva (for Bezmozgin, Nemchenko, Yudkevich).
3. Leningradskaya lesotekhnicheskaya akademiya im. S.M. Kirova (for Kiprianov).

UVAROV, Ivan Petrovich; CORDON, Lev Vladimirovich; KOPYLOV, V.I., red.; YEPISHKINA, A.V., red.izd-va; GRECHISHCHEVA, G.L., tekhn. red.

[Wood tar; synthetic products based on wood chemical phenols]
Drevesnye smoly; sinteticheskie produkty na cenove lesokhimicheskikh fenolov. Moskva, Goelesbumigdat, 1962. 84 p.

(MIRA 16:5)

(Wood tar) (Phenol condensations products)

II 63862-65 EWT(m)/EPF(c)/EWP(y)/EWP(j)/T WW/DM ACCESSION NR: AP5020385 UR/0328/65/000/005/0007/0007 634.0.85:547.562:674.815-41028 Vinogradov, L. N.; Ul'zutuyeva, Ye. G.; Gol'dshmidt, Yu. H.; AUTHORS: I. P. 44 TITLE: Phenols derived from wood processing as raw materials for binders for wood chip panels SOURCE: Gidroliznaya i lesokhimicheskaya promyshlennost, no. 5, 1965, 7 TOPIC TAGS: wood chemical product, phonol, pyrolysis, resin, structure panel ABSTRACT: Vapor-phase pyrolysis of phenolic components of resins obtained from thermolysis of wood pulp is recommended as a process for the preparation of free phenols used as a basis for wood thip binders. The resins were subjected to a combination of distillation and vapor-phase pyrolysis, using the following mixture of products: phenols 69.2, neutral materials 5.2, acids 1.8, water 3.8%, The binders were prepared by mixing this material (100 parts) with 34% formal-dehyde (82-130 parts), and 50% KOH or NaOH (4-12 parts) at 40-500 for 1-2 hours, until the viscosity of 50-60° (according to FE-36) was reached. The density of the product was 1.12-1.14, and its polymerization rate at 1500 was 50-70 sec. The dried and sleved shavings from wood processing plants were mixed with phenolic

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858310011-3"

SOLOV'YEVA, Z.A.; UVAROV, L.A.; VAGRAMYAN, A.T.

Rate of exchange between cobalt and its ions in solution. Zhur.
neorg.khim. 5 no.6:1185-1188 Je '60. (ML.a. 13:7)
(Cobalt)
(Reduction, Electrolytic)
(Ion exchange)

S/076/61/035/007/001/019 B127/B208

AUTHORS: Kuznetsova V. N., Popkov A. P., Uvarov L. A., Vagramyan A. T.

TITLE: Polarization during electrodeposition of iron group metals.

I. Steady-state potential and overvoltage of iron deposition

PERIODICAL: Zhurnal fizicheskoy khimii, v. 35, no. 7, 1961, 1406 - 1410

TEXT: The authors studied deposition and dissolution of iron in 1 N FeSO<sub>4</sub> solution at 25°C. The electrodeposited iron was found to dissolve in these solutions in the absence of polarizing current, particularly in a more acid solution. In this case (pH 1.5-2.5) the rate  $i_c$  of the spontaneous dissolution rapidly decreases with increasing pH( $i_c$  = 0.4ma/cm<sup>2</sup> at pH 1.5). On further change of the pH from 2.5 to 3.5 the rate of spontaneous dissolution is reduced more slowly ( $i_c$  = 0.065ma/cm<sup>2</sup> at pH = 3). The following reactions take place at the electrode surface:  $H^+ + e \rightarrow \frac{1}{2} H_2$ ,  $\frac{1}{2} H_2 \rightarrow H^+ + e$ , Fe<sup>2+</sup> + 2e  $\rightarrow$ Fe, Fe  $\rightarrow$ Fe<sup>2+</sup> + 2e. The reaction rates are denoted by F<sub>1</sub>, F<sub>2</sub>, F<sub>3</sub>, Card 1/3

S/076/61/035/007/001/019 B127/B208

Polarization during ...

 $F_4$ . The equation for the steady state is then:  $F_1 + F_3 = F_2 + F_4$ . potential of the Fe electrode being more negative than that of hydrogen, the ionization rate  $F_2$  of  $H_2$  may be neglected. Assuming that the discharge rate F<sub>3</sub> of the Fe ions be much less than that of the H<sup>+</sup>, F<sub>1</sub>, one may write  $F_1 = F_4$ , i.e., the charge of the electrode is compensated by the discharge of the H ions. The change of dissolution in the presence of 1N Al2(SO4)3 was also studied. At pH = 1.5-3.5 the rate of dissolution increases in this case. (pH = 1.5,  $i_c = 0.52 \text{ ma/cm}^2$ , pH = 3,  $i_c = 0.31 \text{ ma/cm}^2$ ). This is due to  $SO_A^{-2}$  absorption on the electrode which accelerates the ionization of the metal atoms. In the presence of aluminum sulfate the polarization of the anode is decreased by 35mv. With rising temperature of the electrolyte the rate of spontaneous dissolution increases, particularly in the presence of aluminum sulfate. At a temperature rise from 25 to 60°C at pH = 1.5 the rate increases to the 7.5-fold, in the presence of aluminum sulfate to the 22-fold. At low pH the steady-state potential changes quickly with a Card 2/3

Polarization during ...

S/076/61/035/007/001/019 B127/B208

change in pH, at a higher pH this change is less significant. At low pH the dependence may be expressed by the following formula:

 $\varphi_{st} - A + \frac{RT}{(\alpha + \beta) F} ln[H^+]$ 

At higher pH the potential is shifted more to the negative side. In an oxygen-free inert atmosphere the deviation of the steady-state potential from the rule, expressed by the formula, decreases. At higher pH the steady-state potential is shifted toward the positive side under the influence of aluminum sulfate. The potential of the Fe electrode is irreversible in sulfuric acid solution and is determined by a number of processes. It is therefore impossible to determine the overvoltage by the steady-state potential. The deposition potential was determined relative to a saturated calomel electrode. With increasing pH the deposition potential of Fe is shifted toward the negative side. At a given current density and increasing pH the overvoltage of the deposition has more positive values, except in very acid solutions. The determination of overvoltage by the steady-state potential thus seems to be incorrect and gives contradictory results. There are 5 figures and 6 Soviet references.

Card 3/3

S/076/61/035/007/002/019 B127/B208

AUTHORS: Vagramyan, A. T., Kuznetsova, V. N., Popkov, A. P., Savostin,

V. A., Uvarov, L. A.

TITLE: Polarization during electrodeposition of iron group metals

II. Electrodeposition of iron

PERIODICAL: Zhurnal fizicheskoy khimii, v. 35, no. 7, 1961, 1411 - 1415

TEXT: The authors investigated the electrolytic deposition of iron from solutions of 1 N FeSO<sub>4</sub>, and 1 N FeSO<sub>4</sub> + 1 N Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> at a current density of 20 ma/cm<sup>2</sup>. The yield of metal relative to the current changes only little with a change in current density, and increases rapidly with increasing pH in the range 1.5-2.5. By changing the pH by one unit the yield increases from 20 to 90%. At a further pH increase the yield increases but slightly. On aluminum sulfate addition the yield is only 45% at the optimum pH. All curves showing the dependence of the potential of the iron electrode on the pH pass a maximum at pH 2.0-2.2. The maximum of the polarization curves is 60 - 65% of the maximum metal yield. At low pH the current is consumed for hydrogen reduction and liberation. In the descending branch of the curve Card 1/3

s/076/61/035/007/002/019 B127/B208

Polarization during ....

the current is consumed for the metal deposition. The discharge of hydrogen ions is promoted in that part of the curve which corresponds to hydrogen liberation, the reduction of the metal ions in that part of the curve which corresponds to metal deposition. The curves are exactly explained in the papers by A. N. Frumkin, Zh. fiz. khimii, 31, 1875, 1957, Z. Phys. Chim., 207, 321, 1957, and I. A. Bagotskaya, Dokl. AN SSSR, 107, 343, 1956. 110, 397, 1956. Apparently hydrogen deposition is facilitated on an electrode coated by hydrogen. This is confirmed by the paper by M. Smyalovskiy saying that there is a relationship between the hydrogen overvoltage and the tendency of the cathode metal toward supersaturation with hydrogen. The following reactions are assumed to take place at the hydrogen-coated electrode:  $H_3^{0^+} + H_{ads}^{+} + e \longrightarrow H_2^{0^+} + H_2^{0^+}$  and  $H_3^{0^+} + e \longrightarrow H_{ads}^{+} + H_2^{0^+}$ . The rate of the first is higher than that of the latter. The increased metal reduction with decreased rate of hydrogen deposition is probably due to the fact that the metal deposition at a surface saturated with hydrogen is far more difficult than at a hydrogen-free electrode surface. pH 3.0-3.5 is most suitable for the metal deposition. The retardation of the metal ion reduction is probably related to an adsorption of foreign particles, hydroxides and others, which are deposited on the surface of the Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858310011-3"

Polarization during ...

S/076/61/035/007/002/019 B127/B208

iron electrode after breaking the contact, and passivate the electrode. A potential jump is observed at the moment of connection. By adding aluminum, polarization of the cathode increases only at pH 2-2.5. Aluminum sulfate inhibits the deposition of the metal, but does not affect H<sub>2</sub> deposition.

There are 6 figures and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The most important references to English-language publications read as follows: Foerster F., J. Electrochem., 22, 85, 1916.— Glasstone S. J. Chem. Soc., 2, 2887, 1926. (given as 1 reference).

ASSOCIATION: Akademiya nauk SSSR Institut fizicheskoy khimii (AS USSR

Physico-chemical Institute)

SUBMITTED: August 18, 1958

Card 3/3

40727

S/062/62/000/009/001/009 B101/B186

5 4760

AUTHORS: Vagramyan, A. T., and Uvarov, L. A.

TITLE: Determination of the reversible potential of a nickel

electrode at high temperatures

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 9, 1962, 1520-1524

TEXT: The potential in the system Ni - Ni<sup>2+</sup> was measured within the range  $18-250^{\circ}\text{C}$ . Its temperature dependence was compared with the values related to a sulfate-mercury standard electrode as calculated from the equation:  $\phi = \frac{1}{10} + (RT/nF)\ln a + k_1(T - T_0) + k_2(T - T_0)$ , where  $k_1$  and  $k_2$  are respectively the temperature coefficients at  $T_0 = 298^{\circ}\text{K}$  of the investigated and of the standard electrodes, respectively. Results: With increasing temperature, the potential of the nickel electrode becomes more and more negative; it reaches a maximum at  $180-200^{\circ}\text{C}$  and then gradually becomes more positive again. At low temperatures the values Card 1/3

\$/062/62/000/009/001/009 B101/B186

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Determination of the reversible ...

determined are widely scattered and not reproducible, but above ~120°C reproducible values are obtained and above 200°C the potential agrees with the calculated value to an accuracy of ~0.02 v. It is concluded that above 200°C there is no adsorption of impurities and no irreversible adsorption of hydrogen and that owing to the absence of adsorption the deposit is free of internal stress. Therefore nickel at high temperatures behaves like a reversible electrode. This is also confirmed by the absence of polarization at high temperatures. The temperature coefficient of the potential agreed with the data by A. J. de Bethune, T. S. Licht and N. Swendeman (J. Electrochem. Soc., 106, 616 (1959)). From this, the standard potential of the nickel electrode at 25°C was calculated as being -0.270±0.005 v in relation to a standard hydrogen electrode, which deviates by 0.015 - 0.025 v from the value calculated on the basis of the thermodynamic data. There are 4 figures.

Institut fizicheskoy khimii Akademii nauk SSSR ASSOCIATION: (Institute of Physical Chemistry of the Academy of Sciences USSR)

Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858310011-3"

S/062/62/000/009/001/009
Determination of the reversible ... B101/B186
SUBMITTED: March 3, 1962

UVAROV, L.A.

Galvanostatic method of determining diffusion coefficients.
Zhur.fiz.khim. 36 no.5:931-935 by '62. (MIRA 15:8)

1. Institut fizicheskoy khimii, AN SSSR.
(Diffusion) (Electrochemistry)

S/020/62/146/003/015/019 B101/B144

AUTHORS:

Vagramyan, A. T., Uvarov, L. A.

TITLE:

Machanism of electrodeposition of nickel from sulfate solu-

tions

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 146, no. 3, 1962, 635-637

TEXT: The effect of passivation on the electrodeposition of nickel was studied by a method already described (Izv. AN SSSR, OKhN, 1962, no. 9). Results: The overvoltage of nickel referred to a steady potential at low temperature is much greater than when referred to an equilibrium potential. Above 180°C this difference disappears as the electrode becomes reversible. Between 20 and 120°C, the temperature coefficient of overvoltage is 2 mv/deg, whereas above 150°C it becomes zero. At low temperature, the overvoltage-versus-current density function shows two sections: first, the overvoltage increases rapidly with increasing current density and H<sub>2</sub> is liberated; then the increase becomes flatter, the current yield for Ni being 60-80%. Above 150°C the current yield is 100%. If the polarization curves are plotted slowly, no dependence of polarization Card 1/3

S/020/62/146/003/015/019 B101/B144

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Mechanism of electrodeposition ...

on current density is observed at high temperatures. Ni deposition at high temperatures does not cover the entire electrode surface but occurs only in spots; hence the overvoltage as measured refers to much higher current densities than those calculated from the electrode area. Conclusions: The slight dependence of polarization on current density at high temperatures is due to the area of deposition becoming larger as current density increases, and in fact the current density remains nearly unchanged. The deposition area adapts itself to the polarization current just as is the case with metals deposited at low overvoltage. When the polarization curve is plotted quickly, this self-adaptation is not given time to occur. There is no essential difference in the mechanism of metal deposition as between high and low overvoltages. The transition from coarse-crystalline deposits at high temperature to fine-crystalline at low temperature is due to the quicker passivation in the latter, which also results in higher overvoltage. At high temperature, a diffusion zone impoverished in nickel appears near the growing deposit of nickel. The concentration overvoltage of Ni at 180°C is calculated from the thickness of the diffusion layer: it is about 15 mv at a current density of 10 ma/cm2. There are 2 figures.

Card 2/3

S/020/62/146/003/015/019 B101/B144

Mechanism of electrodeposition ...

ASSOCIATION:

Institut fizicheskoy khimii Akademii nauk SSSR (Institute

of Physical Chemistry of the Academy of Sciences USSR)

PRESENTED:

May 18, 1962, by V. I. Spitayn, Academician

SUBMITTED:

May 10, 1962

Card 3/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858310011-3"

VAGRAMYAN, A.T.; ZHAMAGORTSYAN, M.A.; UYAROV, L.A.

Effect of temperature on the kinetics of nickel ion discharge.

Izv.Al! SSSR.Ser.khim. no.2:301-304 F '64. (MIRA 17:3)

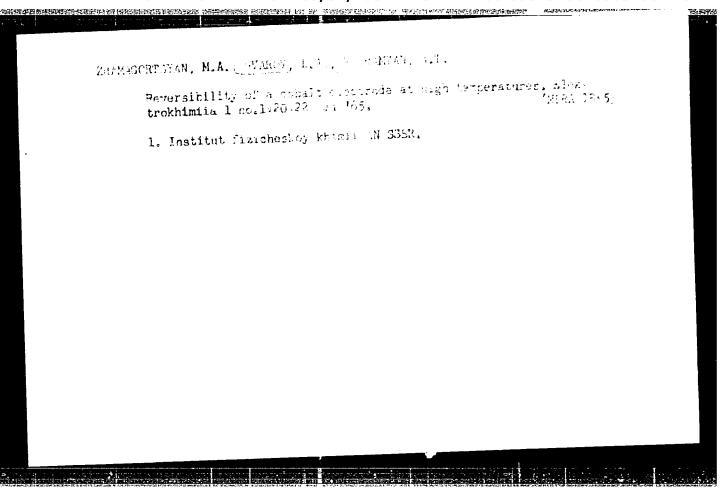
1. Institut fizicheskoy khimii AN SSSR.

UVAROV, L. A.; ZAMAGORTSYANTS, M. A.; VAGRAMYAN, A. T. MOGGOW

"Die elektrolytische Abscheidung von Nickel aus wabrigen Losungen bei Temperaturen über 100° C."

paper submitted for 2nd Intl Symp on Hyperpure Materials in Science and Technology, Dresden, GDR, 28 Sep-2 Oct 65.

Institut für physikalische Chemie der Akademie der Wissenschaften der UdSSR, Moscow.



VAGRAMYAN, A.T.; ZHAMAGORTSYAN, M.A.; UVAROV, L.A.

Effect of temperature on the kinetics of cobalt ion reduction. Elektrokhimila 1 no.6:633-639 Je '65.

1. Institut fizicheskoy khimil AN SSSR.

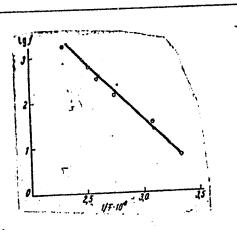
DS/JD/HH/MB/JAJ ENT(m)/ETC(f)/ENG(m)/T/ENP(t)IJP(c) SOURCE CODE: UR/0365/65/001/006/0636 23890-66 ACC NRI AP6008618 AUTHORS: Savchenkov, G. F.; Uvarov, L. A. ORG: Institute for Physical Chemistry, Academy of Sciences, SSSR (Institut fizicheskoy khimii Akademiya nauk SSSR) TITLE: Study of the anodic behavior of the iron group metals over a wide range of temperatures. I. Temperature influence on the critical current in the passivation of nickel Zashchita metallov, v. 1, no. 6, 1965, 636-642 SOURCE: TOPIC TAGS: nickel, iron, electrochemistry, electrode, teflon, mercury, mercury compound, temperature dependence ABSTRACT: This investigation was conducted to determine the effect of temperature on the rate of anodic dissolution of nickel. The experiments were carried out with a 1N solution of NiSO<sub>4</sub> at pH = 1.5. The <u>nickel electrode</u> consisted of a nickel wire embedded in teflon. The electrode potential was measured relative to a 1N mercurymercury sulfate electrode. The critical current-inducing passivity was determined over a temperature interval of 25 to 1600. The experimental results are presented in graphs and tables (see Fig. 1). They agree well with the theory of T. Ishikawa and G. Okamoto (Electrochimica Acta, 1964, 9, 1259) and can be represented by the 2\_ 541.138.2 IDC: Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858310011-3"



ACC NR: AP6008618

Fig. 1. Dependence of the critical current and passivation of nickel on the temperature in 1N NiSO<sub>4</sub> at 1.5 pH.



two-stage process:

 $Ni + OH^- \rightarrow NiOH^+ + 2e$  (a)  $NiOH^+ \rightarrow Ni^{++} + OH^-$  (b)

It was found that the energy of activation for anodic nickel dissolution was 10.5 kcal/mole. It is suggested that, at high temperatures, the passivation process depends on the diffusion rate of nickel ions into the solution. The authors thank Professor G. Okamato of Hokkaido University for his interest in the present work and Professor W. Lorenz of Leipzig University for valuable advice. Thanks are also given to A. T. Vagramyan for his help in evaluating the experimental results. Orig. art. has: 1 table and 3 graphs.

SUB CODE: 07/ SUBM DATE: 06Mar65/ ORIG REF: 007/ OTH REF: 017

Cord 2/2dda

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858310011-3"

#### "APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858310011-3 AND SECURITY OF THE PROPERTY OF THE PROPERTY OF A PERSON OF THE PROPERTY OF TH

UVAROV, L.L.

AUTHOR:

Uvarov, L.I.

11-58-3-11/14

TITLE:

Remarks on an Article by M.N. Saidov "The Meso-Cenozoic Continental Deposits of the Dzhungary Depression (Basic Traits of Stratigraphy)" ( Po povodu stat'i M.N. Saidova "Mezokainozoyskiye kontinental'nyye otlozheniya Dzhungarskoy vpadiny (Osnovnyye cherty stratigrafii)"

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geolohicheskaya, 1958, # 3, pp 113-114 (USSR)

ABSTRACT:

This is a sharp criticism of the article published by M.N. Saidov, in the October 1956 issue of Izvestiya, AN SSSR, Seriya Geologicheskaya. The author of this article accuses Saidov of making statements which do not correspond to the truth.

AVAILABLE:

Library of Congress

Card 1/1

CIA-RDP86-00513R001858310011-3" APPROVED FOR RELEASE: 08/31/2001

UVAROV, L.I.

Effect of recent tectonic movements on the hydrography in Dzungaria. Gool.sbor. [Lvov] no.7/8:349-353 '61. (MIRA 14:12)

1. Institut Vostokgiprogaz, Saratov. (Dzungaria—Geology, Structural)

ACC NR: AN6034953 (A.N) SOURCE CODE: UR/9008/66/000/266/0002/0002

AUTHOR: Uvarov, M. (Lieutenant general of artillery; Commander of air

defense rocket forces)

ORG: none

TITLE: Rocket defense of aerial frontiers

SOURCE: Krasnaya zvezda, no. 268, 18 Nov 66, p. 2, cols 1-4

TOPIC TAGS: antiaircraft missile, missile complex, missile training

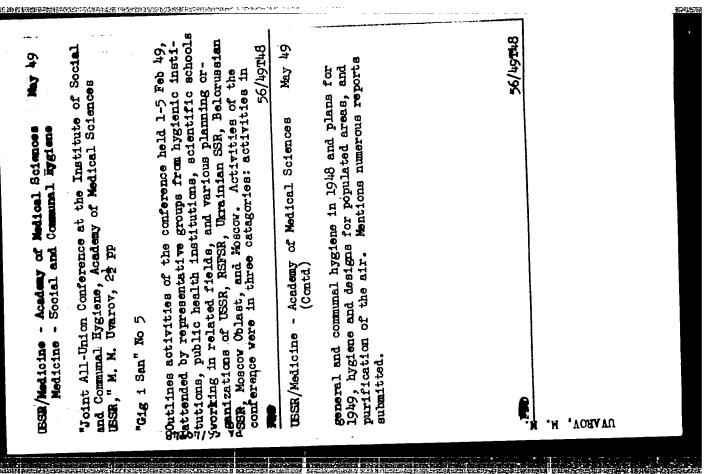
ABSTRACT: The commander of air-defense missile forces states in this article that during training involving Soviet antiaircraft and missile forces the greater part of the firing is carried out under difficult aerial and radiation conditions. Antiaircraft-missile forces have successfully mastered firing on targets flying at all altitudes and under various jamming conditions. An antiaircraft complex hasbeen established which can detect and destroy aerial targets at any altitude, during the day or night, and in any weather.

SUB CODE: 15, 17

SUBM DATE: hone

Card 1/1

	AP60360	1	SOURCE CODE: UR/0256/66/0	00/011/0008/0010
UTHOR:	Uvarov,	M. A. (Lie	tenant general of artillery)	
RG: no	ne ,			
ritle:	To new 1	evels of co	bat mastery [Antiaircraft artillery train	ning]
source:	Vestnik	protivovoz	ushnoy oborony, no. 11,.1966, 8-10	
			fense, military training, commat training	g, air defense
ABSTRACT practice	has sho	wn that an	Lieutenant General of artillery states intiaircraft complex is capable of destroy and low altitudes, even under adverse co	nditions. He
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UVAROV, M.M., kand.med.nauk

Discussion on the problem of improving environmental health. Gig. i
san. 22 no.6:62-66 Je '57. (MIRA 10:10)

1. V Komitete gigiyeny Uchenogo soveta Ministerstva zdravookhraneniya

SSSR. (HYGIRME,
in Russia (Rus))

UVAROV, M. M., GOROMOSOV, M. S., FERGHIN, A. A.

"Postwar Residential Construction and Hygienic Standards in the Field of Standard Planning of Dwellings."

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

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GOROMOSOV, M.S., doktor med. nauk; DANTSIG, N.M., prof.; KYUPAR, A.I., sanit. vrach; MINKH, A.A., prof.; PROKOF'YEV, A.P., dots.; SILIVANIK, K.Ye., doktor med. nauk [deceased]; UVAROV, M.M., kand. med. nauk; SHAFIR, A.I., prof.; SHTREYS, A.I., prof.; KROTKOV, F.G., prof., otv. red.; SELESKERIDI, I.G., red.; ROMANOVA, Z.A., tekhn. red.; MIRONOVA, A.M., tekhn. red.

[Manual on communal hygiene] Rukovodstvo po kommunal noi gigiene. Moskva, Medgiz. Vol.3.[Hygiene of residential and public buildings] Gigiena zhilykh i obshchestvennykh zdanii. Red. toma Goromosov i A.I.Shafir. 1963. 486 p. (MIRA 17:2)

1. Deystvitel nyy chlen AMN SSSR (for Krotkov). 2. Chlen-korrespondent AMN SSSR (for Minkh).



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Subject : USSR/Hydr. Eng.

AID P - 3952

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Pub. 35 - 16/19

Authors

: Bogdanov, V. Ya., N. I. Burenkova, and M. N. Uvarov, Engs.

Title

Improving the performance of dredges by preliminary

Periodical

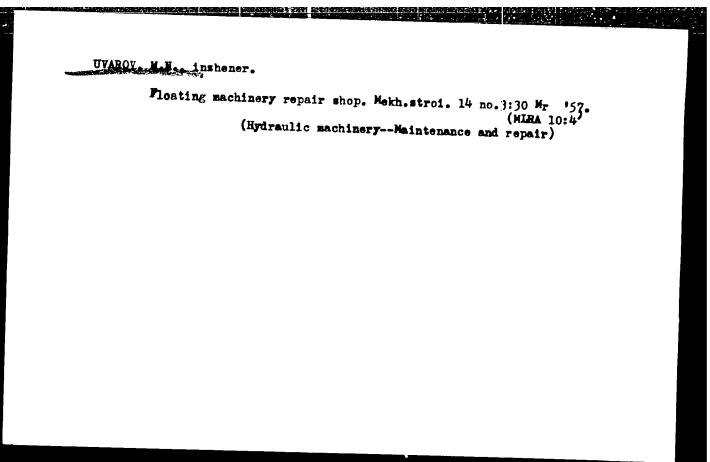
: Gidr. stroi., 7, 43, 1955

Abstract

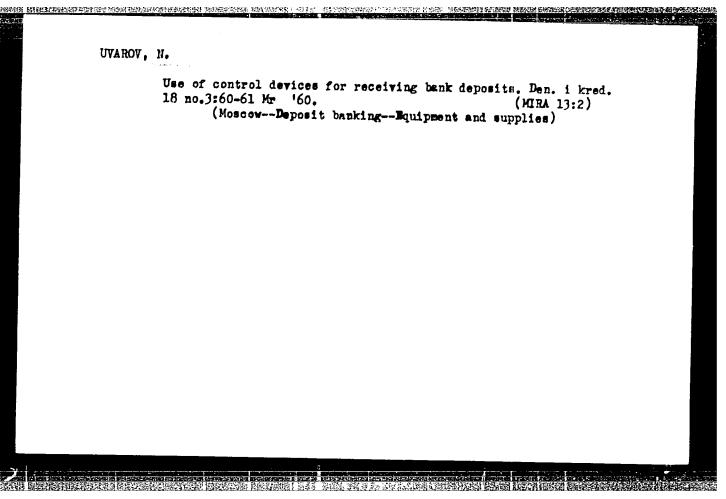
: The article reports on satisfactory results achieved at the Kuybyshev Hydro Power construction project by loosening soil before starting dredge operations. A special plowshare is fastened on the cutter and used for this work. The authors claim that the hydraulic fill mass obtained has a 1:3 ratio.

Institution: None

Submitted : No date



UVAL V, N.	
	Chain-drivers saws with internal-combustion engines. Tr. from the Russian. p. 172. TEURNICKA FRAM. (Status nakladatelstvo technicke literatury) Vol. 6, no. 3, Mar. 1954.
	SOURCE: East Furopean Accessions List, Vol. 5, no. 6, September 956
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1	•	UVAROV, N.
2		UJSR (60C)
4	•	Milking
7	•	Increasing butterfat content of milk by using warm compresses on the cowstudders. Sov. zootekh. 8, No. 1, 1953.
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9.	M	onthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

9.4160

3/120/60/000/01/019/051

AUTHORS:

Gorbachev, V.M., Usenko, L.D. and Uvarov, N.A.

TITLE:

Measurement of the Transit Time of the Electrons in

Photomultipliers 15

PERIODICAL:

Pribory i tekhnika eksperimenta, 1960, Nr 1,

pp 69 - 73 (USSR)

ABSTRACT:

The transit time of the electrons in photomultipliers of several types was measured by the "electron-current

control" method which was devised by the authors and the results were compared with the measurements

obtained by the spark method (Ref 2). The current-control method permits application of a fixed light source and is based on the following principle. When the cathode of

the multiplier is illuminated, a current is produced in the tube. However, if a sufficient negative voltage is

applied to the diaphragm of the system the electrons can be "held" between the cathode and the diaphragm so that the tube produces no current. If a positive pulse is then applied to the diaphragm, the normal operating

voltage between the electrodes of the system is restored

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Measurement of the Transit Time of the Electrons in Photomultipliers

and an output pulse is obtained. The time interval from the instant of the application of the control pulse to the diaphragm to the instant of the appearance of the output pulse permits the determination of the transit time

of the electrons. The measurement circuit based on the above principle is shown in Figure 3. The light source is situated in the vicinity of the photo cathode. Normally, the diaphragm is at a negative potential of about 100 V with respect to the cathode. The thyratron (the second tube in Figure 3) is triggered by a pulse generator and produces a pulse which is applied to the diaphragm. Simultaneously, a pulse is applied directly to the plates of a double-beam oscilloscope. The pulse from the collector of the photomultiplier is amplified and is registered by the second beam of the oscillograph. The amplifier employed in the measurements had a rise time of 3 x 10 sec and and output amplitude of 60 V. The rise time of the pulse applied to the diaphragm of the tube under test was

(5-10) x 10<sup>-9</sup> sec. The amplitude of the control pulse was

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Measurement of the Transit Time of the Electrons in Photomultipliers

The measurement of the variable. by the spark method was carried out by the circuit shown in Figure 4. A spark gap discharging the capacitor C (see Figure 4) was used as the light source. The electrical pulse produced by the condenser discharge was used as the trigger pulse of the oscillograph and was also applied to the deflection plates of the oscillograph through a delay line. The light produced by the spark resulted in an output pulse at the collector of the multiplier and this was applied to the second pair of the deflection plates. The transit time as a function of the supply voltage was investigated for the photomultipliers with various dynode systems. The following photomultipliers were used:

- 1) FEU-1V with a circular dynode system;
- 2) FEU-12 with "shutter"-type dynode system;
- 3) FEU-19M with a linear dynode system;
- 4) FEU-33 with a linear dynode system and auxiliary electrodes.

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Measurement of the Transit Time of the Electrons in Photomultipliers

In each case the transit time was measured by both the above methods. The results obtained by those methods are in close agreement, as can be seen from Figure 7, which gives the transit time as a function of the supply voltage. The transit times of all the four photomultipliers are compared in this figure. The overall error of the measurements does not exceed (4-5) x 10 sec. It was found that the transit time as the function of the operating voltage could be expressed by:

$$t_{\vec{Q}}^{-1} = (a \sqrt{V} + b)10^6 \text{ sec}^{-1}$$
 (2)

where V is the operating voltage and
a and b are the constant coefficients.

The validity of this formula is corroborated by the straight line of Figure 8, where 1/t is plotted

as a function of VV

as a function of  $\sqrt{V}$ . The authors express their gratitude to Yu.S. Zamyathin for his constant interest in this work, Yu.A. Barashkov for participating in the

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Measurement of the Transit Time of the Electrons in Photomultipliers

initial stages of the investigation and <u>V.N. Malyshkin</u> and <u>V.A. Skachkov</u> for their help in the measurements. There are 8 figures, 1 table and 9 references, 2 of which are English and 7 Soviet.

SUBMITTED: November 26, 1958

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27.705 S/120/61/000/003/017/041 E192/E382

AUTHORS:

Gorbachev, V.M., Uvarov, N.A. and Usenko, L.D.

TITLE:

Raster Time Base Without Dead Time

PERIODICAL:

Pribory i tekhnika eksperimenta, 1961, No. 3,

pp. 93 - 95

TEXT: Physical processes of comparatively long duration can be observed by means of a cathode-ray tube provided with a scanning (or raster) time-base system which deflects the ray both vertically and horizontally. In general, the horizontal or line deflection system is based on a symmetrical triangular waveform generator. This system suffers from the disadvantage that the end of the forward line and the start of the return line tend to overlap, so a portion of the line is lost. the other hand, if the return line is suppressed, the system possesses a dead time during which the signal cannot be observed. A time-base system free from the above disadvantages was therefore devised. This is based on a double-beam cathoderay tube (Ref. 1 - the authors - Authors Certificate No.127324, 4.1.1960). Continuous observation of the signal in the system Card 1/4

27705 S/120/61/000/003/017/041 Raster Time Base Without Dead Time E192/E382

is ensured by applying the investigated signal successively to one or the other beam of the tube. The investigated signal applied to both the deflection plates simultaneously but one of the beams is suppressed while the other is operative. A detailed description of the time-base system is given. driver for the line time-base is in the form of a symmetrical multivibrator operating at a frequency of 1 Mc/s. This is followed by forming or shaping stages, which produce sawtooth pulses having a good linearity over their operating range. These pulses are amplified to about 400 V and are then applied to the horizontal deflection plates of a two-beam cathode-ray tube (type 185047) (181047)). During their flyback, each of the rays is suppressed while in the forward direction they form a linear scanning system where the length of a line is equal to the oscillation period of the multivibrator. The frame-scanning deflection is produced by a triggered linear voltage oscillator and the flyback suppression is effected by employing pulses from the driver multivibrator. The time difference between the end of one line and the start of the Card 2/4

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next is determined by the rise time of the blanking pulses and can be very short. The overlap time, which is due to finite rise time of the pulses, can be reduced by increasing the steepness of the pulse fronts. It is possible for this purpose, to shape the pulses by means of transmission lines or to employ secondary emission pentodes. The authors improved the shape of the pulses by diode-limiting of the multivibrator pulses so that the overlap time between the rays was 6 x 10° sec. In the experimental system used by the authors, the time base operated with three fixed lengths: 100,500 and 1 000 µs, corresponding to 3, 10 and 20 µs line duration, respectively. The oscilloscope based on the above raster time base and the tube, type 18Lo47, had a writing speed of up to 0.015 µs/mm, the number of lines being 100 and the length of line 100 mm. The maximum duration of the investigated process was 2 000 µs. An oscillogram illustrating the recording of the pulses of a

scintillation counter is shown in Fig. 2. The authors express their gratitude to Yu.S. Zamyatnin for his interest in this work.

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There are 2 figures and 2 Soviet references.

SUBMITTED:

August 4, 1960

Fig. 2:



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Gorbachev, V.N., Uvarov, N.A. and Usenko, L.D.

AUTHORS:

Distortion of nanosecond pulses during their

TITLE:

transmission by cables

PERIODICAL:

Pribory i tekhnika eksperimenta, no. 2, 1962,

The problem was investigated experimentally and analytically. Experimentally, the study of the transient response of the cables was carried out directly by taking the oscillograms of the pulses at the output of a section of a cable. A rectangular pulse with an amplitude of 100 V, a

duration of 50 x 10<sup>-9</sup> sec and a rise time of  $/1 \times 10^{-9}$  sec duration of 50 x 10<sup>-9</sup> sec and a rise time of  $/1 \times 10^{-9}$  sec and a rise time of  $/1 \times 10^{-9}$  sec duration of 50 x 10<sup>-9</sup> sec and a rise time of  $/1 \times 10^{-9}$  sec and a rise time of /1was applied to a line 100 m long and the output pulses were recorded on an oscillograph, type 3(-6 (05-6) having a bandwidth of 3 000 Mc/s. Analytically, the response to a unit step of a coaxial cable terminated with a matched load can be expressed as:

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$$U(\ell, t) = 1 - F(M\ell/2 \sqrt{z} = 1 - F(x)$$
 (2)

where  $\ell$  is the length of the cable and

$$F(x) = \frac{2}{\sqrt{n}} \left( x - \frac{x^3}{113} + \frac{x^5}{215} - \cdots \right) , \qquad (3)$$

where  $\tau = t - l/v$ ,  $v = 1/\sqrt{L_o C_o}$ 

The attenuation coefficient in Eq. (2) is expressed as:

$$M = \frac{1}{4\pi} \frac{c_0}{L_0} \frac{k_1 \sqrt{\mu_1 e_1}}{r_1} + \frac{k_2 \sqrt{\mu_2 e_2}}{r_2}$$
 (4)

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Distortion of ....

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where Lo and Co are the inductance and capacitance of the cable per unit length, is the permeability,

is the resistance of the cable per unit length, and

is the radius of the conductor. The index "1" in Eq. (4) refers to the parameters of the internal conductor, while the index "2" indicates the parameters of the external conductor. The twist factor k in Eq. (4) takes into account the change in the resistance of the internal conductor due to its stranded form; the coefficient k2

braiding factor, which takes into account the increase in the resistance of the external conductor due to its braiding. The response of a 100-m cable calculated from Eq. (2) is illustrated in Fig. 3. Curves II and III correspond to two different types of cable, while the circles represent the experimental points; it is seen that the theory is in good agreement with experiment. There are 5 figures and 1 table.

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Card 1/2

Predein, B.A., Gorbachev, V.M., Sem'in, G.N., AUTHORS:

Uvarov, N.A., Filimonchev, M.I. and Shevtsov, V.A.

A wideband pulse amplifier TITLE:

Pribory i tekhnika eksperimenta, no. 3, 1962, PERIODICAL: 84 - 86

The amplifier consists of three stages of distributed amplification, each consisting of 4 tubes. The output and middle stages are based on secondary emission tubes, type 6517 (6V1P). It is possible (by employing these tubes) to obtain a symmetrical output and high output voltages. However, since the tube 6V1P is nonlinear at small signals, the input stage is based on tubes, type 6 -22 (6Zh22P), whose input capacitance is almost identical with that of 6V1P, so that identical lines could be employed in all grid circuits. The distributed loads of the amplifier stages are in the form of lumped delay lines based on m-derived filters, the wave impedance of the anode, dynode and grid lines being 1500. The bandwidth of the amplifier is about 150 Mc/s per stage, which

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A wideband pulse amplifier

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the amplifier is applied to the plates of an oscilloscope by means of a cable, type fig. 50 (RK-50), about 1 m long. The amplification of the system at the anode cutput is about 240 and at the dynode maximum amplifier output at the anode is 140 V and at the dynode of a cable, the symmetrical output giving a gain of 400. The maximum amplifier output at the anode is 140 V and at the dynode to avoid the fatigue effects in the secondary emission tubes. The discussing the results and to A.V. Filatov and B.F. Krest'yaninov for preparing the experimental models of the device. There are

SUBMITTED: December 2, 1961

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