"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

VOLKOV, G.M.; KRAPCHIN, I.P.; SEMENOV, Lev Vladimirovich, retsenzent; ZENKIN, Yar Samoylovich, doktor ekon. nauk, otv. red.

[Problems in the economics of the mining and processing of brown coals] Problemy ekonomiki dobychi i pererabotki burykh uglei. Moskva, Nedra, 1964. 107 p. (MIRA 17:8)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

POPOV, Ivan Vasil'yevich; TOMASHPOL'SKIY, Leonid Markovich; KANEVSKAYA, T.M., red.; SEMENOV, L.V., red.; GERASIMOVA, Ye.S., tekhn. red.

[The fuel power supply of the world socialist system] Toplivno-energeticheskaia baza mirovoi sotsialisticheskoi sistemy. Moskva, Izd-vo "Ekonomika," 1964. 269 p. (MIRA 17:3)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

KIRSANOVA, O.P.; SIMENOV, I.V.

Economic efficiency of air-suspension [illegible] preparation. Trudy ICI 20:46-50 '63. (MIRA 17:8)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

DAVYDOV, V.P.; SEMENOV, I.V.; FRIDMAN, N.I.

Economics of the manufacture of coke briquets from gas, long-flame, and weakly-caking coals. Trudy IGI 20:198-207 '63. (MIRA 17:8)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, L.V.; KIRSANOVA, O.P.; DAVYDOV, V.P.

Economics of and prospects for the use of peat in the by-product coke industry. Trudy IGI 20:237-242 '63. (MIRA 17:8)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, L.V.

Using natural gas in foundry work. Gaz. prom. 8 no.7:30-33 '63. (MIRA 17:2)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

L 2105-65 EWT(m)/EWP(q)/EWP(b) Pq-4 AS(mp)-2/ESD(t)/RAEM(t) WH

ACCESSION NR: AR4039921 S/0058/64/000/004/E012/E012

SOURCE: Ref. zh. Fiz., Abs. 4E84

AUTHORS: Semenov, L. V.; Tarasov, V. V.

TITLE: Diamagnetic anisotropy and polymer structure of alkali-borate glasses

CITED SOURCE: Tr. Mosk. khim. -tekhnol. in-ta im. D. I. Mendeleyeva, vy*p. 41, 1963, 104-106

TOPIC TAGS: diamagnetism, anisotropy, polymer structure, borate glass, potassium compound, polymer chain

TRANSLATION: The Krishnan oscillation method is used to investigate the diamagnetic anisotropy of potassium-borate glasses, and it is shown that when K_2O content of the glass is increased, the anisotropy decreases and disappears completely at a concentration ~20 mol.%. It is assumed that introduction of K_2O contributes to the occurrence

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L 2105-65
ACCESSION NR: AR4039921

of an oxygen bridge between the polymer chains of B_2O_3, leading to the formation of a three-dimensional structure. V. Zelentsov.

SUB CODE: GP, OP ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

L 23443-65 EWT(m)/EPF(c)/T Pr-4 WE

ACCESSION NR: AP4049874 S/0318/64/000/002/0029/0032

AUTHOR: Semenov, L.V.; Davy*dov, V.P.; Chukanova, O.M.

TITLE: A highly effective method of preparing acetylene by the electro-cracking of petroleum emulsions

SOURCE: Neftepererabotka i neftekhimiya, no. 2, 1964, 29-32

TOPIC TAGS: acetylene manufacture, petroleum electrocracking, electrocracked acetylene, petroleum refining

ABSTRACT: This is a cost study of V.V. Tatarinov's patent No. 40352 (1934) covering electrocracking by microdischarge of various liquid petroleum products such as crude oil, kerosene, gasoline and masut, resulting in a gaseous material containing up to 30% H_2C_2 by volume (vs. 8-15% by pyrolysis). The authors investigated the application of this method to oils containing up to 30% water. By emulsifying such oils with the aid of a Khotuntsev-Pushkin disperser (now domestically manufactured), subjecting the emulsion to electro-cracking by microdischarges, compressing the cracking gases to 10-12 atm., and extracting acetylene with dimethylformamide, the authors obtained the following results: to make 1 metric ton of acetylene from oil containing 30% water, the quantity of raw material

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

L 23443-65
ACCESSION NR: AP4049874

required is 3055 kg; 3260 nm^3 of synthetic gas is produced. The corresponding figures for raw material with 17% water are: 2392 kg oil emulsion, 2426 nm^3 gas; in both cases, there is 312 kg carbon black. The method is not further described but costs at the Novocherkassk plant are analyzed in detail: 1 ton H_2C_2 costs 155.62 rubles by the pyrolysis process but 151.44 rubles by electrocracking; capital investments in rubles/ton capacity are 86.8 vs. 40.23. Power requirements for making 1 ton acetylene are 10180 kwhrs = 107.91 rubles. There are some discripancies between text and tables, probably due to the utilization of byproducts. Orig. art. has: 2 tables.

ASSOCIATION: Institut goryuchikh iskopayemy*kh (Institute of Fossil Fuels)

SUBMITTED: 00 ENCL: 00 SUB CODE: FP, OC

NO REF SOV: 005 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

L 00725-67 EWT(m)/EWP(w)/T/EWP(t)/ETI JD/DJ

ACC NR: AP6022068 SOURCE CODE: UR/0146/66/009/003/0141/0144

48
B

AUTHOR: Sivokonenko, I. M.; Yavlenskiy, K. N.; Semenov, L. V.

ORG: Leningrad Institute of Aviation Instrument Building (Leningradskiy institut aviatsionnogo priborostroyeniya)

TITLE: Reducing friction in instrument bearings

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 3, 1966, 141-144

TOPIC TAGS: friction, antifriction bearing, precision instrument industry, forced vibration

ABSTRACT: The author considers bearing friction as one of the factors which affects the accuracy of instrument readings. The three-ring bearings conventionally used for reducing this type of friction may be replaced by radial or radial-thrust bearings. The reasons for friction reduction with forced oscillations of the rings in a bearing with three-point contact are qualitatively analyzed and it is shown that the reduction in the moment of friction increases with a reduction in the angular velocity of the inner ring as compared with that of the outer ring, and with a reduction in the time required for reversing the direction of the outer ring. The friction characteristics of radial-thrust bearings type 6005 are experimentally compared with those of a bearing with three-point contact in a pair with a radial bearing having a smooth inner surface on the outer ring, type A640096. The effect of frequency and amplitude of the oscil-

Card 1/2 UDC: 621.822.7

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

L 00725-67

ACC NR: AP6022068

lations, load, position of the axis and additional vibration on the moment of friction in the bearings was studied. When the inner rings of the bearing oscillate in opposite directions, friction is reduced by a factor of 8-9 on the average. When the inner or outer rings in both bearings oscillate in the same direction, friction is reduced by a factor of 5-6. The reduction in friction in the bearings increases as the average angular velocity of the forced motion of the rings becomes higher in comparison with that of the movable system. When the average angular velocity of the forced motion of the rings is held constant, the frequency and amplitude of ring motion have practically no effect on the moment of friction in the bearings. Friction may be reduced by a factor of 10-12 by oscillations of the outer rings of both bearings in the same direction and vibrations with an acceleration of greater than 1 g. A further increase in the acceleration of vibrations has no appreciable effect on the moment of friction in the bearings. Orig. art. has: 5 figures.

SUB CODE: 13, 20/ SUBM DATE: 04Feb66/ ORIG REF: 002

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

ACC NR: AT6032375 SOURCE CODE: UR/0000/66/000/000/0108/0114

AUTHOR: Davydov, V. P.; Semenov, L. V.; Kuz'min, V. I.

ORG: None

TITLE: The economic efficiency of processing low octane gasolines

SOURCE: AN SSSR. Institut goryuchikh iskopayemykh. Novyye sposoby polucheniya khimicheskikh produktov na osnove goryuchikh iskopayemykh (New methods for the preparation of chemical products based on mineral fuels). Moscow, Izd-vo Nauka, 1966, 108-114

TOPIC TAGS: petroleum engineering, fuel octane rating, pyrolysis, hydrocarbon, gasoline

ABSTRACT: The authors discuss the economic efficiency of processing low octane gasolines at the present time in the Soviet Union. The only method for processing low octane fractions that will be available up to 1970 is pyrolysis in tubular furnaces designed for gaseous and liquid raw hydrocarbons. Studies carried out by several institutes have proved the economic efficiency of pyrolytic processing of low octane gasoline fractions. This is explained by the fact that complex processing of raw hydrocarbons reduces capital investment and operating expenditures by the simultaneous production of an entire series of products as compared to the most progressive methods of producing them individually. Pyrolysis in tubular furnaces is the most

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ACC NR: AT6032375

efficient means for processing liquified gases and their mixtures with dry hydrocarbon gases and gasoline fractions. Two goals in processing low octane gasoline by pyrolysis in tubular fornaces are considered: 1. chemical--producing a series of hydrocarbon and divinyl products for the chemical industry; 2. chemico-fuel (butylene-divinyl)--concentrating on the production of a pyrocondensate used as a high octane automobile fuel component. Projected statistics for 1970 show that 60% of the entire requirement in pyrolytic raw materials will be filled by using low octane gasoline. A table is given showing the economic efficiency of various pyrolytic processes based on one million tons of low octane gasoline. These data show that high temperature pyrolysis in tubular furnaces using the propylene process with subsequent complex pyrolytic resin processing is most efficient. Such a process ensures practically the same output of propylene, isobutylene, divinyl and 2.45 times more ethylene than the butylene-divinyl process. An analysis of the technical and economic indices of complex processing of low octane gasolines also shows the high economic efficiency of extracting valuable chemical products from pyrolytic resin. Orig. art. has: 2 tables.

SUB CODE: 07 21/ SUBM DATE: 29Mar66

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, L. V., kand. ekonom. nauk; DAVYDOV, V. P., kand. ekonom. nauk

Economics of using the new types of binding materials for briquetting coal fines. Ugol' 37 no.10:37-38 O '62. (MIRA 15:10)

1. Institut goryuchikh iskopayemykh.

(Briquets(Fuel)) (Binding materials)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M. tokar' (Moskovskaya oblast')

Without the participation of workers. NTO no.7:53 Jy '59. (MIRA 12:11)

1. Mytishchinskiy mashinostroitel'nyy zavod. (Mytishchi--Machinery industry)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.

Energy and persistence. Neftianik 5 no.11:8-9 N '60. (MIRA 13:11)

1. Starshiy inzhener Gosgortekhnadzora RSFSR.
(Oil wells--Equipment and supplies)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M., polkovnik

"Party organization in the unit or on the ship." Reviewed by M. Semenov. Voen.vest. 39 no.5:95-96 My '60. (MIRA 14:2)
(Communist Party of the Soviet Union—Party work)
(Russia—Armed forces—Education, Nonmilitary)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.

Aluminum

Soldering aluminum parts. Moloch. prom. 14, No. 4, 1953.

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

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.

Display of radio controlled models. Radio no.11:15 N '54.(MLRA 7:12)
(Airplanes--Models--Radio control)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.

85-9-11/33

AUTHORS: Semenov M., Correspondent of Kryl'ya Rodiny; Yerokhin S., Deputy Chief Arbiter of Competitions; Kuznetsov I., Chief Arbiter of Competitions; Grigorenko A., Chief Arbiter of Competitions

TITLE: At the Places of the Beginning of Zonal Competitions (Na startakh zonal'nykh sorevnovaniy)

PERIODICAL: Kryl'ya Rodiny 1957, Nr 9, pp. 8-9 (USSR)

ABSTRACT: A composite report on the zonal competitions of aircraft model builders of the aeroclubs of the Central, Volga, Siberia and Far Eastern competition zones, consisting of 4 letters from local correspondents of Kryl'ya Rodiny. The competitions were held for the selection of model-builder teams destined to participate in the forthcoming All-Union competitions. Similar preparatory competitions were also organized in the Northern, Central-Black-Earth, North Caucasian and Ural zones. No reports from these last five zones appear in the present Nr 9 issue of Kryl'ya Rodiny. All four letters, written along the same pattern, give a succinct description of the organization of the competitions and cite the clubs and the individual sportsmen having shown best results. The

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SEMENOV, M.

In honor of the 21st Congress of the CPSU. Kryl.rod. 9 no.11:3 N '58. (MIRA 12:2)

(Moscow--Aeronautics)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SOV/84-58-11-14/58

AUTHOR: Semenov, M.

TITLE: Creative Initiative (S tvorcheskim ogon'kom)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 11, p 7 (USSR)

ABSTRACT: The author cites the superior work performed at the repair shops headed by Kh. Izmiryan. The shops have now undertaken repair work on jet planes and have pledged to complete the first TU-104 planes ahead of schedule.** Personalities mentioned include P. Ivanov, chief of assembly shop, and Musatov, chief engineer.

** The staff had introduced more than 270 innovations in 1958.

Card 1/1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENKEVICH, N.; SEMENOV, M.; GRIGOR'YEV, G.

Facts, events, people. Kryl. rod. 11 no.12:14-15 D '60. (MIRA 14:3)

1. Metodist krayevoy stantsii yunykh tekhnikov, g. Stavropol' (for Grigor'yev).

(Aeronautics)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.

Winners and record breakers. Kryl.rod. 12 no.8:26 Ag '61. (MIRA 14:8)

(Airplanes--Models--Testing)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M., polkovnik

There is a living man behind every letter. Komm.Vooruzh.Sil 2 no.6:36-39 Mr '62. (MIRA 15:3)
(Russia--Armed forces--Political activity)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

reveals its oil [illegible] (KCRA [illegible])

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

[illegible] NOV, M.

Inexhaustible reserves. Nayt. Zod. 15 no.8:16 Ag '64 (MIRA 18:1)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SHCHEPELEV, V.; SEMENOV, M. (Kiyev); BOLOTOV, N.; PAZIKOV, A. (Leningrad)

Facts, events, people. Kryl. rod. 16 no.1:18-19 Ja '65. (MIRA 18:3)

1. Starshiy inspektor upravleniya kadrov Ministerstva grazhdanskoy aviatsii (for Shchepelev).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M. (Leningrad)

Know about and know how! Kryl. rod. 16 no.6:26-27 Je '65.
(MIRA 18:10)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M. (Krym, Artek)

At the very Black Sea... Kryl. rod. 16 no.9:24-25 S '65. (MIRA 18:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.

Right to creation. Kryl. rod. 16 no.7:26-27 Jl '65. (MIRA 18:8)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M., akademik

Science and the future. Nauka i zhyttia 12 no.11:4-9 N '62. (MIRA 16:1)

(Science news) (Technological innovations)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.A.; SMIRNOV, V.N., inzh.

Use of electrically welded steel pipes. Prom.energ. 18 no.1:40-41 Ja '63. (MIRA 16:4)

(Pipe, Steel)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.A., kombayner

How we improve a silage harvesting combine. Mekh. sil'. hosp. 13 no.7:19 Jl '62. (MIRA 17:3)

1. Kolkhoz im. K.Marksa, Skadovskogo rayona, Khersonskoy oblasti.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SIZINTSEV, V.I., inzh.; SEMENOV, M.A., inzh.

A useful book. Transp.stroi. 10 no.2:58 F '60. (MIRA 13:5)

(Railroads--Stations)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.A., inzh.

Use of tubular electrodes for grounding purposes. Energetik 8 no.8:24-25 Ag '60. (MIRA 13:10)
(Electric currents—Grounding)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.A.

Discussion of N.P.Katigrob's article "Vertical grounding devices." Prom.energ. 16 no.6:41-42 Je '61. (MIRA 15:1)
(Electric currents--Grounding) (Katigrob, N.P.)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.A., starshiy inzh.

"Design of electric power supply systems for centralized traffic control devices" by V.B.Chernyshev, I.G.Selinskaia. Reviewed by M.A.Semenov. Avtom., telem.i sviaz' 6 no.4:47-48 Ap '62. (MIRA 15:4)

1. Energeticheskiy otdel Gipropromtransstroya Ministerstva transportnogo stroitel'stva.
(Railroads--Electronic equipment)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.A., inzh.

Percentage estimate of the expenditure of wires in overhead power transmission lines. Prom.energ. 17 no.5:34-35 My '62. (MIRA 15:5)

(Electric lines--Overhead)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.A., inzh.; TERENT'YEV, V.G., inzh. (g.Kuybyshev); SKIBA, N.M., starshiy putevoy rabochiy (Stantsiya Rubanka, Yuzhnoy dorogi); LAYKO, N.V.

Letters to the editor. Put' i put.khoz. 5 no.12:40-41 D '61. (MIRA 15:1)

1. Zamestitel' nachal'nika Molodechnenskoy distantsii Belorusskoy dorogi (for Layko).

(Railroads)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.A., inzh.

Manual for builders and planners. Transp. stroi. 14 no.4:58 Ap '64. (MIRA 17:9)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

29876
S/169/61/000/009/029/056
D228/D304

3,5140 (1041)

AUTHORS: Semenov, M. F., and Baydal, M. Kh.

TITLE: Isolations of high cold cyclones connected with turns of high-altitude ridges and troughs

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 9, 1961, 35, abstract 9B263 (Tr. Kazakhsk. nauchno-issled. gidrometeorol. in-ta, no. 15, 1960, 60-66)

TEXT: In the formation and movement of cyclones and anticyclones an important role is played by planetary high-altitude frontal zones (HAFZ), whose characteristics remain unchanged during a natural synoptic period. Intraperiod changes are caused by the definite evolution of the HAFZ. One of the peculiarities of the transformation of HAFZ inside a period is the clockwise turn of high-altitude ridges and near-surface anticyclones, with which is connected the isolation of high cold cyclones. The study of this question is of important significance for forecasting atmospheric processes both on the ground and at altitudes. It is calcu-

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

29876
S/169/61/000/009/029/056
D228/D304

Isolations of high cold...

lated that more than one-third of the overall number, one-half of the meridional, and more than three-quarters of the natural synoptic periods, in which the ridges and troughs turn, are accompanied by the isolation of high cold cyclones. It is recommended that the beginning and end of the turn of the axis of a high-altitude ridge are considered as the boundaries of a natural synoptic period, whose general features may tend to represent the further evolution of the HAFZ and the dynamics of near-surface baric formations. Research has shown that high cold cyclonic-eddies are formed in the southeastern part of the trough of the HAFZ situated to the east of the turning ridge. Maps are given which indicate the areas of the pre-eminent formation of high isolated cyclones when the original position of the HAFZ is somewhat varied. On examining 165 instances of a natural synoptic period, in which cyclones were clearly isolated, it appeared that in 89% of the cases meridional circulation gives place to zonal circulation; the use of this as a prognostic criterion is proposed. In conclusion, recommendations are given for forecasting the isolation of high cold cyclones and the end of a natural synoptic period. [Abstracter's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

KUZNETSOV, N.A., otv.red.; VITKOVSKIY, A.P., red.; BOZHENKO, Ye.F., red.; GAVRILENKO, I.G., red.; GRINEK, V.S., red.; IGRUNOV, N.S., red.; KRUPA, G.D., red.; RAZDOBARKIN, V.I., red.; RYABOKOBYLENKO, V.I., red.; SEMENOV, M.K., red.; CHEFRANOV, B.N., red.; FUNSHTEYN, D.A., red.; PETROPOL'SKAYA, O.A., red.

[Belgorod Boiler-Making Factory] Belgorodskii kotlostroitel'nyi. Voronezh, TSentral'noe-Chernozemnoe knizhnoe izd-vo, 1964. 185 p. (MIRA 18:7)

1. Belgorodskiy Gosudarstvennyy kotlostroitel'nyy zavod. 2. Direktor Belgorodskogo Gosudarstvennogo kotlostroitel'nogo zavoda (for Chefranov). 3. Nachal'nik byuro tekhnicheskoy informatsii i izobretatel'stva Belgorodskogo Gosudarstvennogo kotlostroitel'nogo zavoda (for Gavrilenko). 4. Glavnyy konstruktor spetsial'nogo konstruktorskogo byuro energeticheskikh kotlov Belgorodskogo Gosudarstvennogo kotlostroitel'nogo zavoda (for Semenov). 5. Zamestitel' glavnogo inzhenera Belgorodskogo Gosudarstvennogo kotlostroitel'nogo zavoda (for Ryabokobylenko).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.G.; RAVIKOVICH, A.I.

Ivan Ivanovich Redikortsev, the first discoverer of the Chelyabinsk coal basin. Och.po ist.geol.znan. no.9:126-147 '61. (MIRA 14:10)

(Redikortsev, Ivan Ivanovich, 1808-1866)
(Chelyabinsk Basin--Coal geology)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

ACC NR: AT7000616 (A,N) SOURCE CODE: UR/0413/66/000/023/0130/0130

INVENTOR: Ivanov, V. V.; Shcheglov, G. M.; Spasskiy, K. N.; Karakhan'yan, V. K.; Prudovskiy, B. M.; Semenov, M. I.; Sergeyev, V. A.; Smirnov, I. N.; Britvin, L. N.; Shtel'makh, A. A.

ORG: None

TITLE: An impeller. Class 59, No. 189315 [announced by the All-Union Scientific Research Institute of Hydraulic Machine Building (Vsesoyuznyy nauchno-issledovatel'skiy institut gidromashinostroyeniya)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 130

TOPIC TAGS: centrifugal pump, blade profile, metal blade, pump component

ABSTRACT: This Author's Certificate introduces: 1. An impeller for an open centrifugal pump. Pump efficiency is improved and the rigidity of the impeller blades is increased by making the blades in the cylindrical section with a channel shape. The walls of the blade channel are recurved toward the front at a sharp angle to the walls of the pump housing. 2. A modification of this impeller in which the blade channel formed in the cylindrical section has a flat bottom. 3. A modification of this impeller with U-shaped grooves in the flat bottom of the channel on the working side of the blade. These grooves are adjacent to the end surfaces of the blades.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

ACC NR: AP7002616

4. A modification of this impeller equipped with a flat annular rim connected to each blade at the middle of its end sections. 5. A modification of this impeller equipped with flat ribs which connect the middle of the end section on the back side of each blade to the central section of the working side of the following blade.

SUB CODE: 13/ SUBM DATE: 13Jul65

Card 2/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SOKOLOV, G.I., inzh.; SEMENOV, M.I., inzh.

Practices in setting trolley poles with cranes from the field.
Transp.stroi. 11 no.3:15-16 Mr '61. (MIRA 14:3)
(Electric lines—Poles)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

GLAZOV, A.A.; SEMENOV, M.M.

Device for measuring the traveling-wave ratio. Prib. i tekh. eksp. 9 no.6:97-98 N-D '64. (MIRA 18:3)

1. Ob"yedinennyy institut yadernykh issledovaniy.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

L 4230-66 EWT(m)/EPA(w)-2/EWA(m)-2 IJP(c) GS

ACCESSION NR: AT5007967 S/0000/64/000/000/0946/0949

26
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B+1

AUTHOR: Glazov, A. A.; Kochkin, V. A.; Onishchenko, L. M.; Royfe, I. M.; Semenov, M. M.; Tuzov, I. V.; Shvabe, Ye.

TITLE: High-frequency system of the 700-Mev cyclotron 19

SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy. Moscow, Atomizdat, 1964, 946-949

TOPIC TAGS: high energy accelerator, cyclotron, proton accelerator

ABSTRACT: The accelerating system of the 700-Mev cyclotron must ensure a regime of continuous proton acceleration for a current at maximum radius up to 1 milliampere. It is necessary here to have the maximum possible collection of energy of the accelerated protons per revolution, with the restriction that the power of the high-frequency supply to the accelerating electrodes be technically possible and economically admissible. The configuration and structure of the region where the particle acceleration occurs and the design of the accelerator electromagnet are the determining factors in the selection of the scheme for the accelerating system. The small height of the acceleration region, the absence of gap variation accord-

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ACCESSION NR: AT5007967

ing to azimuth, and insignificant variation according to radius ($2h_{min}$=146 mm, $2h_{max}$=220.4 mm) with maximum gap in the middle radii are the special features of the accelerator under consideration; namely, a high-field machine with small variation of the magnetic field strength and large spiral. A similar structure for the operating zone excludes the use of simple bulk resonators as accelerating systems even during operation at multiple frequencies of considerable multiplicity, because the vertical dimension of the resonator must amount to about one half of the wavelength of the accelerating voltage, and the period of revolution of a proton in the cyclotron field is 83.3 nanosecond ($f = 1/T$ = 12 megahertz). It is also practically impossible to use a multi-electrode (three or more) accelerating system operating at multiple frequencies in the case of an effectively structured region where the acceleration of the protons occur. Even for operations at a frequency equal to twice the frequency of proton revolution, the radius of the accelerator turns out to be greater than a quarter of the wavelength of the accelerating voltage. Moreover it is hardly technically feasible to create a cantilever design more than three meters with supporting elements arranged in the small interpole gap, with rigid requirements upon the constancy and magnitude of the gap between the accelerating electrode and the chamber. A two-dee accelerating system with dees in

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ACCESSION NR: AT5007967

which the proton flight angle is close to 180° can be realized by various methods. The Joint Institute of Nuclear Research and the Scientific Research Institute of Electrophysical Apparatus have investigated theoretically and experimentally modifications of the accelerating system with semicircular dees, which are closed in a small part of the arch near the axis of symmetry, dees that are part of the homogeneous rectangular line, and dees that are part of the rectangular line with variable wave resistance. Of all the considered possibilities of accelerating system design, the accelerating system in the form of the rectangular line with increased wave resistance outside the gap of the electromagnet possesses the optimum characteristics from the viewpoint of the magnitude of the losses, excitation, and realization of the design. The accelerated system chosen is shown in the present report to satisfy the requirements imposed upon it. The radio-engineering and mechanical designs carried out at the mentioned two institutes and the modelling of the various accelerating system elements point to the possibility of realizing its design and construction and to the expediency of selecting the indicated scheme and principal parameters. Orig. art. has: 3 figures.

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy, Dubna (Joint Institute of Nuclear Research)

SUBMITTED: 26May64 ENCL: 00 SUB CODE: [illegible], NP

NO REF SOV: 000 OTHER: 000

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

BRICHKIN, Aleksandr Vasil'yevich, LOSITSKIY, Vladimir Viktorovich,; SEMENOV, M.N., red.; ROROKINA, Z.P., tekhn. red.

[Small open pit method in ore mining] Razrabotka mestorozhdenii nebol'shimi kar'erami. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1958. 186 p. (MIRA 11:11)

(Strip mining)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

BEKKER, Z.E.; SILAYEV, A.B.; MAKSIMOVA, R.A.; SEMENOV, M.N.; SMIRNOVA, A.D.; MOSHKOVSKIY, Sh.D.; NOSINA, V.D.; VEYS, R.A.; BEREZINA, Ye.K.

Fumagillin produced from an organism isolated in the U.S.S.R. Antibiotiki 2 no.6:14-16 N-D '57. (MIRA 11:2)

1. Laboratoriya antibiotikov biolog-pochvennogo fakul'teta Moskovskogo ordena Lenina gosudarstvennogo universiteta imeni M.V.Lomonosova, Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Nauchno-issledovatel'skiy institut malyarii, meditsinskoy parazitologii i gel'mintologii.

(ASPERGILLUS,
fumigatus, prod. of fumagillin (Rus))
(ANTIBIOTICS, preparation of,
fumagillin, from Aspergillus fumigatus (Rus))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.F. [deceased]; BAYDAL, M.Kh.

Isolated high-level cold cyclones associated with the development of high-level crests and troughs. Trudy KazNIGMI no.15:60-66 '60. (MIRA 14:1)

(Cyclones)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

BARDYSHEV, G.M.; BERLIN, I.Z.; VAYNSHTOK, M.Z.; LEVIN, S.I.; PAVLOV, V.N.; PUSHKANTSEV, B.N.; SAMOCHETOV, V.F.; SEMENOV, M.G.; SOKOLOV, A.Ya.; KHUVES, E.S., inzh.; EMMANUEL', T.P.; GRIGOR'YEV, K.P., inzh., red. [deceased]; DENISENKOVA, L.M., red.; D'YACHENKO, V.M., red.; SAVEL'YEV, Z.A., tekhn. red.

[Technical handbook for workers in the grain-elevator industry] Tekhnicheskii spravochnik rabotnika elevatornoi promyshlennosti. Pod obshchei red. Grigor'eva K.P. i Khuvesa E.S. Moskva, Izd-vo tekhn. i ekon. literatury po voprosam khleboproduktov. Pt.1. 1960. 339 p. (MIRA 14:11)
(Grain elevators)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SILAEV, A.B., SEMENOV, M.N.

Extraction and chemical purification of fumagillin. Antibiotiki 3 no.4:3-6 Jl-Ag '58 (MIRA 11:10)

1. Laboratoriya antibiotikov biologo-pochvennogo fakul'teta Moskovskogo ordena Lenina gosudarstvennogo universiteta imeni M.V. Lomonosova; Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(FUMAGILLIN)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SILAYEV, A.B.; AGRE, N.S.; EL'-REGISTAN, G.I.; VEYS, R.A.; SEMENOV, M.N.

Isolation, purification and basic properties of antibiotics from Actinomyces globisporus var.roseus strain No. 2911. Antibiotiki 6 no.10:871-878 O '61. (MIRA 14:12)

1. Laboratoriya antibiotikov biologo-pochvennogo fakul'teta Moskovskogo universiteta imeni Lomonosova.
(ANTIBIOTICS) (ACTINOMYCES)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.N.; SILAYEV, A.B.

New method for the isolation of fumagillin, potassium salt and its biological properties. Antibiotiki 9 no.4:311-314 Ap '64. (MIRA 19:1)

1. Laboratoriya antibiotikov biologo-pochvennogo fakul'teta Moskovskogo universiteta imeni Lomonosova.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.N.; ZUBOVA, O.V.; SILAYEV, A.B.

Antibiotic associated with fumagillin. Antibiotiki 10 no.3: 219-222 Mr '65. (MIRA 18:10)

1. Laboratoriya antibiotikov, Moskovskogo universiteta.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

ACC NR: AP7004795 (A) SOURCE CODE: UR/0413/67/000/001/0131/0131

INVENTOR: Irikhimovich, M. I.; Nazarov, I. I.; Semenov, M. N.

ORG: None

TITLE: A method for making food loaves. Class 53, No. 190196

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1967, 131

TOPIC TAGS: food technology, food ration

ABSTRACT: This Author's Certificate introduces: 1. A method for making loaves from food substances such as jelly by filling hollow tubes with a paste to make the loaf, cooling the tubes, and subsequent reheating with simultaneous melting of the upper layer of the resultant loaf and emergence under its own weight. In order to produce loaves with a gelatinous crust and various types of paste fillers, an agar-sugar-molasses syrup is poured into the hollow tubes before filling them with the paste and the tubes are then cooled with continuous rotation. 2. A modification of this method in which the agar-sugar-molasses syrup is introduced in a quantity sufficient to form a crust with a thickness of 3-5 mm.

SUB CODE: 06/ SUBM DATE: 05Oct65

UDC: 664.143

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.N.

OSORGIN, A.V.; LAVROVA, I.V.; PSHENITSYNA, I.F.; VYSKUBOVA, M.M.; SEMENOV, M.N., red.; ROROKINA, Z.P., tekh. red.

[Problems in the comprehensive development of transportation in the virgin and fallow land region of northern Kazakhstan] Voprosy kompleksnogo razvitiia transporta v raionakh osvoeniia tselinnykh i zalezhnykh zemel' Severnogo Kazakhstana, Alma-Ata Izd-vo akad. nauk Kazakhskoi SSR, 1957. 107 p. (Akademiia nauk Kazakhskoi SSR, Alma-Ata Institut ekonomiki. Trudy, vol. 1). (MIRA 11:3)

(Kazakhstan--Transportation)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

Semenov, M.N.

BAISHEV, S.B., akademik, otv.red.; NEMCHINOV, V.S., akademik, otv.red.; BATISHCHEV-TARASOV, S.D., inzh.-geolog, laureat Leninskoy premii, red.; BOGATYREV, A.S., red.; KHRAMKOV, I.P., red.; BORUKAYEV, R.A., akademik, otv.red.; TOPORKOV, D.D., laureat Leninskoy premii, red.; NOVOKHATSKIY, I.P., kand.geologo-mineralog.nauk, starshiy nauchnyy sotrudnik, red.; PONOMAREV, V.D., doktor tekhn.nauk, otv.red.; ADAMCHUK, V.A., kand.ekon.nauk, starshiy nauchnyy sotrudnik, red.; LYUDOGOVSKIY, G.I., kand.tekhn.nauk, red.; ALEKSEYEV, G.M., kand. ekon.nauk, starshiy nauchnyy sotrudnik, red.; SEMENOV, M.N., red.; SUVOROVA, I.I., red.; MOSKVICHEVA, L.N., red.; KUZNETSOV, Yu.N., red.; MASLENNIKOV, L.I., spetsred.; POLYVYANNYY, I.R., spetsred.; LYSENKO, I.Z., kand.tekhn.nauk, spetsred.; ALFEROVA, P.F., tekhn.red.

[Proceedings of the joint scientific session in Kustanay devoted to the problems of the Turgay regional and economic complex] Trudy ob"edinennoi Kustanaiskoi nauchnoi sessii, posviashchennoi problemam Turgaiskogo regional'no-ekonomicheskogo kompleksa. Kustanay, 1957. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR. Vol.1. [Materials of plenary sessions] Materialy plenarnykh zasedanii. 1958. 150 p. Vol.2. [Geological section] Geologicheskaia sektsiia. 1958. 393 p. Vol.3. [Materials of the mining metallurgy section] Materialy gornometallurgicheskoi sektsii. 1958. 318 p. (MIRA 11:12)

1. Ob"yedinennaya Kustanayskaya nauchnaya sessiya, posvyashchennaya problemam Turgayskogo regional'no-ekonomicheskogo kompleksa.

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BAISHEV, S.B.---(continued) Card 2.

2. AN Kazakhskoy SSR, vitse-president AN Kazakhskoy SSR (for Baishev). 3. AN SSSR, predsedatel' Soveta po izucheniyu proizvoditel'nykh sil AN SSSR (for Nemchinov). 4. Kustanayskiy geologo-razvedochnyy trest (for Batishchev-Tarasov). 5. Ministr geologii i okhrany nedr Kazakhskoy SSR (for Bogatyrev). 6. Sekretar' Kustanayskogo obkoma Kommunisticheskoy partii Kazakhstana (for Khramkov). 7. AN Kazakhskoy SSR, predsedatel' otdeleniya mineral'nykh resursov AN Kazakhskoy SSR (for Borukayev). 8. Zamestitel' direktora Kazakhskogo filiala Vsesoyuznogo nauchno-issledovatel'skogo instituta mineral'nogo syr'ya (for Toporkov). 9. Institut geologicheskikh nauk AN Kazakhskoy SSR (for Novokhatskiy). 10. Zamestitel' direktora Instituta metallurgii i obogashcheniya AN Kazakhskoy SSR (for Ponomarev). 11. Sovet po izucheniyu proizvoditel'nykh sil AN SSSR (for Adamchuk, Alekseyev). 12. Zaveduyushchiy laboratoriyey chernykh metallov Instituta metallurgii i obogashcheniya AN Kazakhskoy SSR (for Lyudogovskiy). 13. Uchenyy sekretar' Soveta po izucheniyu proizvoditel'nykh sil AN Kazakhskoy SSR (for Maslennikov). 14. Zamestitel' predsedatelya Soveta po izucheniyu proizvoditel'nykh sil AN Kazakhskoy SSR (for Lysenko).

(Kustanay Province--Economic conditions)

(Kustanay Province--Mines and mineral resources)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SHAVLO, Sergey Grigor'yevich; SERGIYEV, N.G., otv.red.; SEMENOV, M.N., red.; ALFEROVA, P.F., tekhn.red.

[Pegmatites and hydrothermal deposits in the Kalba Range] Pegmatity i gidrotermality Kalbinskogo khrebta. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1958. 326 p. (MIRA 12:6)
(Kalba Range--Petrology)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

KORNILOVA, Valentina Stepanovna; BAZHANOV, V.S., kand.biolog.nauk, otv. red.; SEMENOV, M.N., red.; PROKHOROV, V.P., tekhn.red.

[Lower Miocene flora of Kushuk (Turgay Gates)] Nizhnemiotsenovaia flora Kushuka (Turgaiskii progib). Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1960. 128 p. (MIRA 13:7)
(Turgay Gates--Paleobotany)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

BORUKAYEV, R.A., otv.red.; AYTALIYEV, Zh.A., red.; BUBLICHENKO, N.L., red.; BYKOVA, M.S., red.; GALITSKIY, V.V., red.; MEDOYEV, G.TS., red.; NIKITIN, I.F., red.; RUKAVISHNIKOVA, T.B., red.; SENKEVICH, M.A., red.; SHLYGIN, Ye.D., red.; SEMENOV, M.N., red.; PROKHOROV, V.P., tekhn.red.

[Transactions of the Conference on the Unification of Stratigraphic Scales of the Pre-Paleozoic and Paleozoic in Eastern Kazakhstan. Alma-Ata, 1958] Trudy Soveshchaniia po unifikatsii stratigraficheskikh skhem dopaleozoia i paleozoia Vostochnogo Kazakhstana. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR. Vol.2. [Devonian, Carboniferous, Permian] Devon, karbon, perm'. 1960. 253 p. (MIRA 13:8)

1. Soveshchaniye po unifikatsii stratigraficheskikh skhem dopaleozoia i paleozoia Vostochnogo Kazakhstana. Alma-Ata, 1958. 2. Altayskiy gornometallurgicheskiy nauchno-issledovatel'skiy institut AN KazSSR (for Bublichenko). 3. Institut geologicheskikh nauk AN KazSSR (for Bykova). 4. Yuzhno-Kazakhstanskoye geologicheskoye upravleniye (for Senkevich).

(Kazakhstan--Geology, Stratigraphic)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

BORUKAYEV, R.A., akademik, otv.red.; AYTALIYEV, Zh.A., red.; BUBLICHENKO, N.L., red.; BYKOVA, M.S., red.; GALITSKIY, V.V., red.; IVSHIN, N.K., red.; MEDOYEV, G.TS., red.; NIKITIN, I.F., red.; RUKAVISHNIKOVA, T.B., red.; SENKEVICH, M.A., red.; SHLYGIN, Ye.D., red.; SEMENOV, M.N., red.; PROKHOROV, V.P., tekhn.red.

[Transactions of the conference on the unification of stratigraphic diagrams of the Pre-Paleozoic and Paleozoic in eastern Kazakhstan, Alma-Ata, May 12-17, 1958.] Trudy Soveshchaniya po unifikatsii stratigraficheskikh skhem dopaleozoya i paleozoya Vostochnogo Kazakhstana. Alma-Ata. Izd-vo Akad.nauk Kazakhskoi SSR. Vol.1. [Pre-Paleozoic, Cambrian, Ordovician, Silurian] Dopaleozoi, kembrii, ordovik, silur. 1960. 296 p. (MIRA 13:6)

1. Soveshchaniye po unifikatsii stratigraficheskikh skhem dopaleozoya i paleozoya Vostochnogo Kazakhstana. Alma-Ata, 1958. 2. Predsedatel' Orgkomiteta stratigraficheskogo soveshchaniya; AN KazSSR; Institut geologicheskikh nauk AN KazSSR (for Borukayev). 3. Institut geologicheskikh nauk AN KazSSR (for Nikitin). 4. Yuzhno-Kazakhstanskoye geologicheskoye upravleniye (for Rukavishnikova).
(Kazakhstan--Geology, Stratigraphic)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SATPAYEV, K.I., glavnyy red.; CHOKIN, Sh.Ch., otv.red.; BAZANOVA, N.U., red.; BEKTUROV, A.B., red.; POKROVSKIY, S.N., red.; POLOSUKHIN, A.P., red.; TAKIBAYEV, Zh.S., red.; ASAINOV, M.A., red.; POGOZHEV, A.S., red.; SEMENOV, M.N., red.; PROKHOROV, V.P., tekhn.red.

[Science in Soviet Kazakhstan, 1920-1960] Nauka Sovetskogo Kazakhstana, 1920-1960. Alma-Ata, 1960. 688 p. (MIRA 13:12)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata.
(Kazakhstan--Science)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

KHASENOV, S.; ZHANPEISOV, Ye.: YRYSMAMBETOV, K.; RAMAZANOV, Ye.; ABDRAKHMANOV, A., kand. filol. nauk, red.; SEMENOV, M.N., red.; ROROKINA, Z.P., tekhn. red.; BEKMUKHAMETOVA, S., red.; KHUDYAKOV, A.G., tekhn. red.

[Russian-Kazakh dictionary]Russko-kazakhskii terminologicheskii slovar'. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR. Vol.10. [Terms used in railroad transportation]Terminy zheleznodorozhnogo transporta. Pod obshchei red. A.Abdrakhmanova. 1962. 160 p. Vol.11. [Botany and soil science]Botanika i pochvovedenie. 1962. 468 p. (MIRA 15:9)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Institut yazykoznaniya.
(Russian language—Dictionaries—Kazakh)
(Railroads—Terminology) (Soil biology—Terminology)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

AVROV, Petr Yakovlevich; SEMENOV, M.N., red.; KHUDYAKOV, A.G., tekhn. red.

[Geological structure and prospects for finding oil and gas in the Ural Mountain portion of Aktyubinsk Province and the western part of the Mugodzhar Hills] Geologicheskoe stroenie i perspektivy neftegazonosnosti Aktiubinskogo Priural'ia i Zapadnogo Primogodzhar'ia. Alma-Ata, Izd-vo nauk Kazakh.SSR, 1963. 162 p. (MIRA 16:11)

(Aktyubinsk Province--Petroleum geology)
(Aktyubinsk Province--Gas, Natural--Geology)
(Mugodzhar Hills--Petroleum geology)
(Mugodzhar Hills--Gas, Natural--Geology)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.N.

New bits for rotary drilling rigs. Gor. zhur. no.8:71 Ag '63. (MIRA 16:9)

1. Myachkovskiy izvestnyakovyy kar'yer, Moskovskaya obl.
(Boring machinery)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

KOVRIGIN, Orest Dmitriyevich; LATYSHEV, Georgiy Dmitriyevich; SEMENOV, M.N., red.; ROROKINA, Z.P., tekhn. red.

[Double-focusing spectrometer]Spektrometr s dvoinoi fokusirovkoi. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1962. 45 p. (MIRA 16:2)

(Spectrometer)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

CHOKIN, Sh.Ch., otv. red.; AKHMEDSAFIN, U.M., red.; MAYZEL', S.Ya., red.; OSORGIN, A.V., red.; ZHUKOVA, N.D., red.; SEMENOV, M.N., red.; ALFEROVA, P.F., tekhn. red.

[Productive forces of central Kazakhstan]Proizvoditel'nye sily TSentral'nogo Kazakhstana; trudy sessii. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR. Vol.5.[Power engineering, water supply engineering, construction, and transportation]Energetika i vodnoe khoziaistvo, stroitel'stvo i transport. 1959. 257 p. (MIRA 15:12)

1. Ob"yedinennaya nauchnaya sessiya po problemam razvitiya proizvoditel'nykh sil TSentral'nogo Kazakhstana, Karaganda, 1958. 2. Institut energetiki Akademii nauk Kazakhskoy SSR (for Mayzel'). 3. Akademiya nauk Kazakhskoy SSR (for Chokin). 4. Institut geologicheskikh nauk Akademii nauk Kazakhskoy SSR (for Akhmedsafin). 5. Institut ekonomiki Akademii nauk Kazakhskoy SSR (for Osorgin).

(Kazakhstan--Water supply engineering)
(Kazakhstan--Construction industry)
(Kazakhstan--Transportation)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, Mikhail Nikolayevich; OS'KIN, G.I., kand. ist. nauk, red.; MUKHINA, Ye.S., tekhn. red.

[Be alert] Bud'te bditel'ny. Moskva, Izd-vo DOSAAF, 1962. 93 p. (MIRA 16:2)

(Espionage)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

1963/2

SEMENOV, M. P. (DECEASED)

c' 1962

HYDRAULIC ENGINEERING

see ILC

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.P.

Solvability of boundary value problems for quasi-linear elliptic systems. Dokl. AN SSSR 159 no.2:276-278 N '64. (MIRA 17:12)

1. Voronezhskiy politekhnicheskiy institut. Predstavleno akademikom A.Yu. Ishlinskim.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.P.

Spectrochemical determination of boron in silicon dioxide. Zav.lab. 29 no.12:1450-1451 '63. (MIRA 17:1)

1. Institut khimii silikatov AN SSSR.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.P., inzhener, redaktor; PUL'KINA, Ye.A., tekhnicheskiy redaktor

[Instructions for unkorking non-standard carbide drums] Instruktsiia po raskuporke nestandartnykh karbidnykh barabanov. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1952. 7 p. [Microfilm] (MLRA 7:10)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva predpriyatiy tyazheloy industrii. Upravleniye rabochikh kadrov, truda i zarabotnoy platy.
(Barrels)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.F.; KRASIL'SHCHIK, S.I., redaktor

[Booklet on safety measures for construction workers in auxiliary jobs] Pamiatka po tekhnike bezopasnosti dlia stroitel'nykh rabochikh na podsobnykh rabotakh. 2. izd. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954. 18 p. (MLRA 7:8)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva. Otdel tekhniki bezopasnosti i promyshlennoy sanitarii.
(Building--Safety measures)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

12

66820

~~16(1)~~ 16.4600 SOV/155-58-5-12/37

AUTHOR: Semenov, M.P.

TITLE: ~~One-Sided~~ Estimations in the Conditions for the Existence of Solutions for Some Non-Linear Boundary Value Problems

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, Nr 5, pp 53-56 (USSR)

ABSTRACT: Theorem : Let the completely continuous operator $f(t,x,y)$ satisfy for all $x,y \in H$ the inequality

$$(x, f(t,x,y)) \geqslant -\sigma_1 \|y\|^2 - \sigma_2 \|x\|^2 - a ,$$

where $a, \sigma_1, \sigma_2 \geq 0$, $\sigma_1 + l^2 \sigma_2 < 1$, and the inequality

$$\|f(t,x,y)\| \leq M(\|x\|)\|y\|^2 + N(\|x\|) ,$$

where $M(\varrho)$ and $N(\varrho)$ are nonnegative continuous functions. Then in the Hilbert space H $\frac{d^2x}{dt^2} = f(t,x,\frac{dx}{dt})$ possesses at least one solution satisfying the boundary conditions $x(0) = x(l) = \epsilon$,

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66820

One-Sided Estimations in the Conditions for the Existence of Solutions for Some Non-Linear Boundary Value Problems

SOV/155-58-5-12/37

where θ is the zero of H.

Theorem : Let $xf(t,\sigma,x,y) \geqslant -\sigma_1 y^2 - \sigma_2 x^2 - a$, $|f(t,\sigma,x,y)| \leqslant$ $\leqslant M(x)(y^2+1)$, where $M(x)$ is continuous, $a, \sigma_1, \sigma_2 \geqslant 0$, $\sigma_1 + l^2 \sigma_2 < 1$. Then

$$\frac{\partial^2 x(t,s)}{dt^2} \int_G K(s,\sigma) f\left(t,\sigma,x(t,\sigma), \frac{dx(t,\sigma)}{dt}\right) d\sigma$$

possesses at least one solution for which it is $x(0,s) = x(1,s) = 0$ for almost all $s \in G$. Here G is closed, bounded, n-dimensional; $K(x,\sigma)$ symmetric, continuous, positively definite ; f continuous for $0 \leq t \leq 1$, $\sigma \in G$, $-\infty < x,y < \infty$.

Further four theorems with similar statements for systems of ordinary differential equations and for partial differential equations.

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66820

One-Sided Estimations in the Conditions for the Existence of Solutions for Some Non-Linear Boundary Value Problems SOV/155-58-5-12/37

Results of M.A. Krasnosel'skiy [Ref 2] and S.L. Sobolev [Ref 1] are essentially used. The author mentions A.I. Koshelev and A.I. Perov.
There are 13 references, 11 of which are Soviet, and 2 Italian.

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University)

SUBMITTED: October 20, 1958

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.P., prof., doktor geol.-min. nauk; ORADOVSKIY, A.Ye.; IL'INA, O.V. Prinimala uchastiye BLOKHINA, V.I.; BYSTROVSKAYA, N., red. izd-va; BOROVNEV, N.K., tekhn. red.

[Geology of the foundations of high dams] Geologiia osnovanii vysokikh plotin. Pod obshchei red. M.P. Semenova. Moskva, Gosstroiizdat, 1962. 353 p. (MIRA 15:12)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrogeologii. 2. Nauchnye sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo instituta vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrogeologii (for Semenov, Oradovskiy Il'ina, Blokhina).
(Engineering geology) (Dams)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

L 32077-65 EWT(d) Pg-4 IJP(c)

ACCESSION NR: AP4049476 S/0020/64/159/002/0276/0278

AUTHOR: Semenov, M. P.

TITLE: The solubility of boundary problems for quasilinear elliptic systems

SOURCE: AN SSSR. Doklady, v. 159, no. 2, 1964, 276-278

TOPIC TAGS: differential equation, operator, differential operator, quasilinear system, elliptic equation, elliptic operator, boundary problem

ABSTRACT: Let Ω be a region in R^n, with a sufficiently smooth boundary Γ. The author defines an operator

$$Au(x) = \sum_{|\alpha|=|\beta|=m} (-1)^m D^\alpha [a_{\alpha\beta}(x) D^\beta u(x)], \quad (1)$$

where the $a_{\alpha\beta}$ are real, symmetric, sufficiently smooth matrices of order N^2, satisfying $a_{\alpha\beta} = a_{\beta\alpha}$. It is assumed that A satisfies

$$(Au, u)_{L_2} > \mu^2 \|u\|^2_{W_2^{0(m)}}, \quad \mu > 0. \quad (2)$$

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ACCESSION NR: AP4049476

for all $u(x) \in C_0^\infty(\Omega)$ which are finite valued, infinitely differentiable functions with compact support on Ω. By a previous result, A can be extended to $\mathring{W}_2^{(m)}(\Omega)$ preserving the inequality (1). The elliptic system

$$Au(x) = f[x, u(x), D^\gamma u(x)], \quad |\gamma| \leq m, \tag{3}$$

is then considered, the solutions of which are supposed to lie in $\mathring{W}_2^{(m)}(\Omega)$. Under various assumptions as to f, the solution to (2) is unique. Two sets of conditions are stated and it is proven that a unique solution results. The simpler of these is contained in theorem 1, where it is assumed that $f(x, u, \xi, v)$ is continuous on the closed region $x \in \bar{\Omega}$, $|u|$, $|\xi_\gamma| < \infty$ and that

$$|f(x, u, \zeta_\gamma)| \leq M(x, u, \zeta_\delta)\left[1 + \sum_{k=k_0+1}^{m} \sum_{|\gamma|=k} |\zeta_\gamma|^{p_k}\right]^{1/p}; \tag{4}$$

$$uf(x, u, \zeta_\gamma) \leq a(x) + \sigma_0 |u|^2 + \sum_{k=1}^{m} \sigma_k \sum_{|\gamma|=k} |\zeta_\gamma|^2, \tag{5}$$

$$|\zeta_\delta| < \infty, \quad |\delta| \leq k_0 = m - [n/2], \quad p_k = 2 + \frac{4(2m-k)}{n - 2(2m-k)}, \quad p > \frac{2n}{n+2m}; \quad |u|,$$
$$a(x) \in L(\Omega) \tag{6}$$

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ACCESSION NR: AP4049476

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where $M(x, u, \xi_r)$ is continuous on the closed region $x \in \Omega$, and σ_k are non-negative constants. "The author expresses his gratitude to Prof. M.A. Krasnosel'skiy and Prof. S.D. Eydel'man for their help in the work." Orig. art. has: 7 formulas.

ASSOCIATION: Voronezhskiy politekhnicheskiy institut (Voronezh Polytechnical Institute)

SUBMITTED: 23Apr64 ENCL: 00 SUB CODE: MA

NO REF SOV: 005 OTHER: 001

Card 3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.P. (Voronezh)

A two-point boundary value problem. Mat. sbor. 66 no.1:97-108 Ja '65. (MIRA 18:4)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.S.; VASIL'KOVICH, L.A.

Using lignin as a fuel. Gidroliz i lesokhim.prom. 13 no.2:15-17 '60. (MIRA 13:6)

1. Tavdinskiy gidroliznyy zavod.
(Lignin)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M.S. (L'vov); POLISHCHUK, V.I. (L'vov)

Automatic brakes for the track motor car. Put' i put.khoz. 6 no.3:41-42 Mr '62. (MIRA 15:3)
(Railroads—Brakes)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

IOFFE, L.M.; KOMAROV, V.A.; SEMENOV, M.V.

Use of a.c. industrial stray currents prospecting. Vop.rud.geofiz. no.1:128-130 '57. (MIRA 10:10)
(Prospecting--Geophysical methods) (Terrestrial electricity)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SOV/169-59-5-4558

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 5, p 41 (USSR)

AUTHORS: Komarov, V.A., Ioffe, L.M., Khloponina, L.S., Semenov, M.V.

TITLE: Induced Polarization of Rocks and Ores and Its Utilization in Electric Prospecting

PERIODICAL: Tr. Vses. n.-i. in-ta metodiki i tekhn. razvedki, 1958, Nr 1, pp 236 - 257

ABSTRACT: The authors note that the conclusions of various investigators on the possibilities and the methods of detecting ore bodies on the basis of the data of the induced polarization method (IP), are contradictory. In connection with this fact, the necessity arose to study more in detail the IP of rocks and ores both in the laboratory and under field conditions, and also to elaborate the practice of observations of IP fields and to design equipment guaranteeing the reliability of measurements. A device has been developed, which allowed the performing of oscillographic registration of the curves of diminution of ΔU_{IP} and other quantities, and ensured a sufficiently accurate measure-

Card 1/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SOV/169-59-5-4558

Induced Polarization of Rocks and Ores and Its Utilization in Electric Prospecting

ment of instantaneous values of the IP field in 0.25 sec after turning off the current under laboratory conditions and in 0.5 sec under field conditions. The practice and the method of the field investigations have been developed providing for a performance of 100 and more observations per day. Laboratory investigations have found out the dependences of the polarizability η of ion conducting rocks on the humidity, the concentration of the solutions, and the resistance. The presence of conducting minerals in the rocks causes a sudden increase of η, and this fact can be used as a main criterion for the detection of ore anomalies by the results of the IP method. The performed investigations indicate a certain outlook of applications of the IP method to prospecting ore deposits, in particular of ingrained type which is less suitable for other methods of electric prospecting.

A.A. Smirnov

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M. V.

Semenov, M. V. The connecting-rod curves of four-bar linkages. Akad. Nauk SSSR. Trudy Sem. Teorii Mashin i Mehanizmov 3, no. 10, 31–70 (1947). (Russian)

This paper introduces a general method of construction of connecting-rod curves (x, y) based on the Fourier representation

$$x_k+iy_k=\sum_k[R_k' \exp ik(\psi_k'+\phi)+R_k'' \exp ik(\psi_k''-\phi)],$$

where ϕ is the azimuth of the driving-crank. The method consists in the determination of the "revolving vectors" (R', ψ') and (R'', ψ'') for each "harmonic," for several ϕ values, and adding them to obtain the x_k+iy_k vector. The method is applied to seven four-bar mechanisms with turning (T) or sliding (S) pairs. The pair sequences studied are $TTSS$ and $TTTS$ (S sliding towards the adjacent T) with all (nontrivial) choices of the fixed link. On all but one of these mechanisms the expansion breaks off for $k>2$ or $k>3$; in one mechanism ($STTT$, based on ST: the familiar slider-crank of the piston engine) the usual approximation is applied and k reduces then to 0, 1, 2. A detailed description of the connecting-rod curves is given for each case, and diagrams (based on 12 crank positions per revolution) are given. An error analysis is given for the piston linkage. Special cases are discussed and technological applications (to knitting machinery, quick return and intermittent motion) are given. There is also some discussion of the approximation of prescribed curves. *A. W. Wundheller* (Chicago, Ill.).

Source: Mathematical Reviews, Vol 12, No. 3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

SEMENOV, M. V.

Semenov, M. V.

Semenov, M. V. The rôle of Russian and Soviet scientists ~~in the theory~~ of regulation of powered machines. Akad. Nauk SSSR. Trudy Sem. Teorii Mašin i Mehanizmov 6, no. 23, 5–29 (1949). (Russian)

Automatic regulation originated in 1763 with I. I. Polzunov who invented the float used in flush toilets. Then came Watt and Poncelet. The foundations of modern regulation were laid by I. A. Vyšnegradskiĭ (1876) who created the method of small oscillations. Western scientists tried to disparage his work, charging that he neglected dry friction; the author refutes this criticism. The development was resumed in 1934 (I. N. Voznesenskiĭ and his pupils). In 1938 A. V. Mihailov discovered the stability criterion unfairly credited to A. Leonard. The work of the Moscow seminar on topological mechanics is credited simply to "A. A. Andronov and his pupils"; their method is rated as "the most powerful", and dismissed in twenty-four lines. The author regrets that the students of automatic regulation in aircraft instrumentation did not follow Voznesenskiĭ in reducing their criteria to design-office level. Nevertheless, the Russian results have greatly outdistanced those of all foreign countries. The author makes no mention of the names of Lyapunov, Krylov, and Bogolyubov.

A. W. Wundheiler (Chicago, Ill.).

Source: Mathematical Reviews, Vol 13 No. 3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

38069. SEMENOV, M. V.

Sintez chastichno uravnoveshennykh ploskikh mekhanizmov. Trudy seminara po teorii mashin i mekhanizmov (Akad nauk SSSR, In-t mashinovedeniya), T. VIII, vyp. 20. 1949. s. 74-90

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

38070. SEMENOV, M. V., KOLCHIN, N. I., and LITVIN, F. L.

Doktor Tekhnncheskikh nauk professor khrisane fedorovich ketov. /Spetsialist v oblastimashinostroeniya, 1887-1948/ Trudy seminara po teorii mashin i mekhanizmov (Akad. Nauk SSSR, in-t, mashinovedeni'ya), T, VIII, vyp. 29, 1949, S.7-11, s. portr.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820004-0

Semenov, M. V.

Semenov, M. V. Design of partly balanced plane mechanisms. Akad. Nauk SSSR, Trudy Sem. Teorii Mashin i Mehanizmov 8, no. 29, 74-90 (1949). (Russian)

The author considers the balancing of the first harmonic of the resultant inertia of a plane mechanism, by modifying only the mass distribution of some working members. For a four-bar or slider-crank linkage in one plane he does it by moving the mass centers of the cranks, or of one crank and the connecting rod. Other examples are considered before mechanisms having several parallel planes are considered. The equations are simple and fully treated.

A. W. Wundheiler (Chicago, Ill.)

Source: Mathematical Reviews, Vol. 13, No. 4

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SEMENOV, M.V.

Semenov, M. V. Balancing of spatial mechanisms. Akad. Nauk SSSR. Trudy Sem. Teorii Mashin i Mehanizmov 8, no. 32, 31–42 (1950). (Russian)

It is shown, for rotating machinery in space, that if the 12 coefficients of the kth harmonic of the inertia force are given, three balancing counterweights can be easily determined (they must be mounted on conical gears rotating at the speed $k\omega$). For the case of the first harmonic, the author extends the method of the preceding paper to the spatial case.

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