

LOGIOL-67	/0133 /3
ORG: none TITLE: \(\lambda \) "Navigator" digital differential analyzer \(\sqrt{2} \)	B+1
SOURCE: Vsesoyuznaya konferentsiya-seminar po teorii i metodam matematichesk modelirovaniya. 4th, Kiev, 1964. Vychislitel'naya tekhnika v upravlenii (Comp technology in control engineering); trudy konferentsii. Moscow, Izd-vo Nauka,	uter 1966,
127-133 TOPIC TAGS: digital differential analyzer, computer control system, navigati puter, flight control system, aircraft control equipment, aircraft guidance e	ion com- equipment
ABSTRACT: A navigational digital differential analyzer for use in aircraft is cribed. Such an instrument is particularly suitable for airborne application of its simplicity and the possibility of direct hookup with many sensors and ducers used for <u>flight control</u> accelerometers, gyros, doppler velocity and a tectors, position coordinate calculators, and various feedback devices from a control mechanisms. The digital differential analyzer can be used as on-boar if the flight trajectory is predetermined or programmed before takeoff. If the flight trajectory is predetermined or programmed before takeoff. If path is subject to in-flight variations (piloted aircraft), the DDA should be mented by a computer which adds considerable flexibility to the system. For	trans- angle de- aircraft rd computer the flight e supple-
Card 1/2	
	rational sections and the section of

ACC NRI AP7005684

SOURCE CODE: UR/0413/67/000/002/0156/0157

INVENTOR: Semenov, V. N.; Kutepov, M. A.; Oleynik, S. I.

ORG: None

TITLE: A double-chamber shock absorber. Class 62, No. 190787

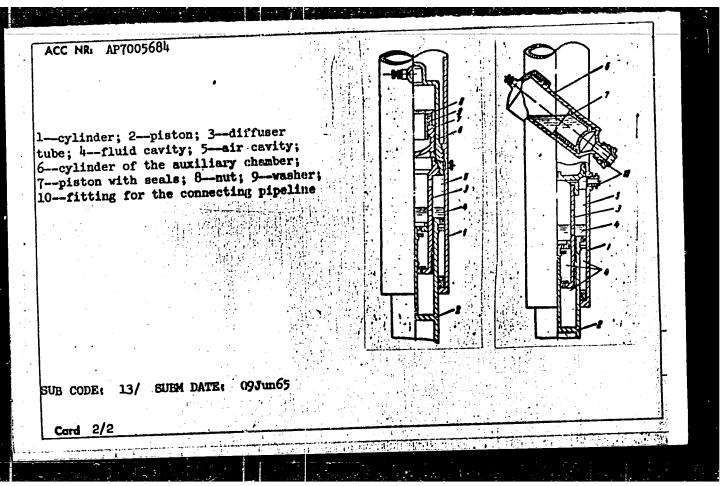
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 156-157

TOPIC TAGS: shock absorber, hydraulic equipment

ABSTRACT: This Author's Certificate introduces a double-chamber shock absorber which contains a cylinder, piston with seal and a diffuser tube fastened inside the cylinder. The cylinder also contains main air and hydraulic chambers. The installation is designed for increased operational reliability and provision is made for variation in the characteristics of shock absorption with simultaneous reduction in overloads. The device contains an auxiliary chamber which is separate from the main chamber and is made vice contains an auxiliary chamber which is separate from the main chamber and is made in the form of a cylinder equipped with a floating piston which has a control nut and washer. This auxiliary chamber is located in the shock absorber cylinder above the main fluid-air chamber, or outside the cylinder and connected to it by a pipeline. The air charge in this auxiliary chamber is greater than in the main chamber.

Card 1/2

UDC: 629.135/138

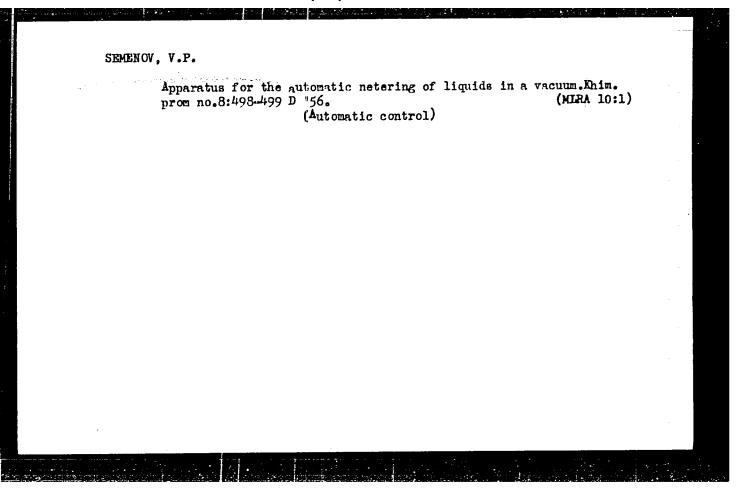


ZAKHAROV, A.G.; SEMENOV, V.Na.

Automatic unit for billst heating. Mashonostroitel' no.7:

4 Jl '65.

(MIRA 18:7)



SEMEROV, V.P.

Gontinuous production of mathyl ether of ricinolaic acid.

Masl.-zhir.orom. 23 no.6:44 '57. (MJRA 10:7)

1. Kaluzaskiy kombinat sinteticheskikh dushiatykh vesachestv.

(Methyl ether) (Ricinolaic acid)

BYCHKOVA, Z.N., inzh.; AGARYSHEVA, Z.I., inzh.; SHVAREV, N.M., inzh.; SEMENOV, V.P., inzh.

Vacuum rectification of lactones. Masl.-zhir. prom. 27 no.9:27-29 S '61. (MIRA 14:11)

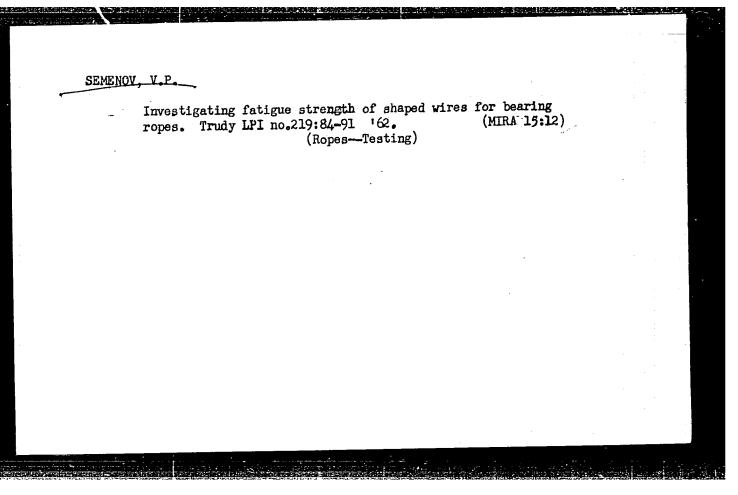
1. Kaluzhskiy kombinat sinteticheskikh dushistykh veshchestv. (Lactones)

VAYNSHTEYN, G.M., inzh.; SEMENOV, V.P., inzh.; MIKHAYLENKO, Yu.Ya., red.; VELITSYN, B.L., tekhm. red.

[Pneumatic units for transporting a concrete mix through pipes]Pnevmaticheskie ustanovki dlia transportirovaniia betonnoi smesi po trubam. Moskva, Orgenergostroi, 1962. 60 p. (MIRA 15:11)

1. Vsesoyuznyy institut po proyektirovaniyu organizatsii energeticheskogo stroitel'stva "Organergostroi." Moskovskii filial.

(Concrete-Transportation) (Pneumatic conveying)



"Fatigue strength of steel construction in conveyor technology."

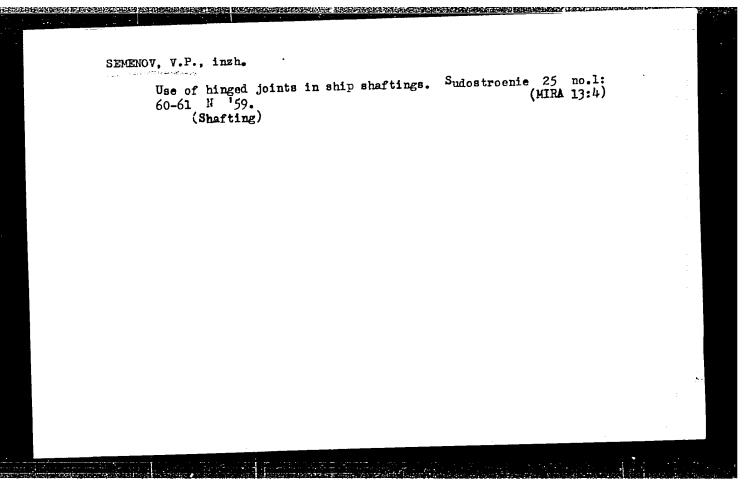
report submitted for Intl Conf on Conveyor Engineering & Construction Machinery,
Magdeburg, E. Germany, 7-12 Sep 64.

SEMENOV. Viktor Permenovich: YATSENKO, V.S., red.; DIZHUR, I.M., red.izd-va; LAVRENOVA, N.B., tekhn.red.

[Modern methods of repair and mounting of ship shaftings]
Sovremennye metody remonta i montazha sudovykh valoprovodov.

Moskva, Izd-vo "Morskoi transport," 1959. 244 p. (MIRA 12:12)

(Ships--Maintenance and repair) (Shafting)

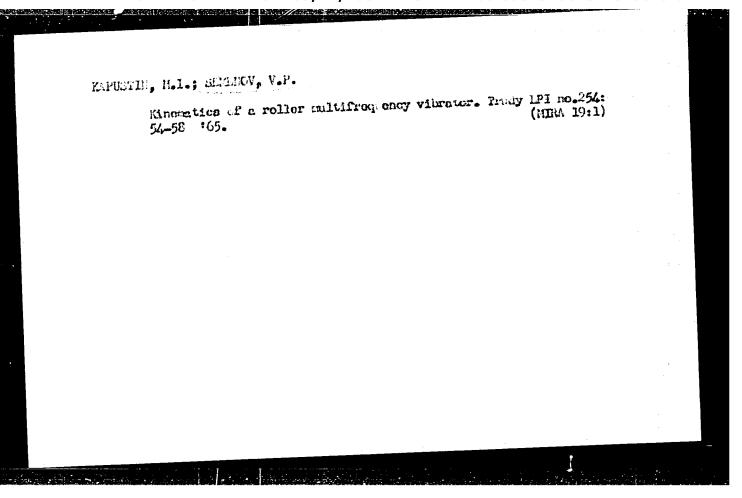


SEMEMOV, Y.P., inzh.

Use of fitted foundation bolts. Sudostroenie 25 no.10:42 0 '59.

(MIRA 13:2)

(Marine engineering--Equipment and supplies)



CLUMBOV, V. P., and CARAD VA, Ye. 2.

"New Data on the Eccene Deposits of Stolingrad Povolah'ye," Uch. 24p. Seratovak. un-ta, vyp. 8601. 37, pp 51-39, 1953

The authors consider that the scheme of Ye. V. Milanovskiy is the most acceptable scheme of the subdivision of the Eccene along the Volge. In the composition of the Tsaritsyn formation according to lithological criteria the following three formations are distinguished: Proley, Tsaritsyn, and Mechatka. The age of these layers has been determined as Upper Eccene. The authors expound their opinions variously, treating the age and stratigraphic position of the formations in the lower tertiary deposits of the Volga area. (RinGeol. No h, 1955)

Sum. No. 681, 7 Oct. 55

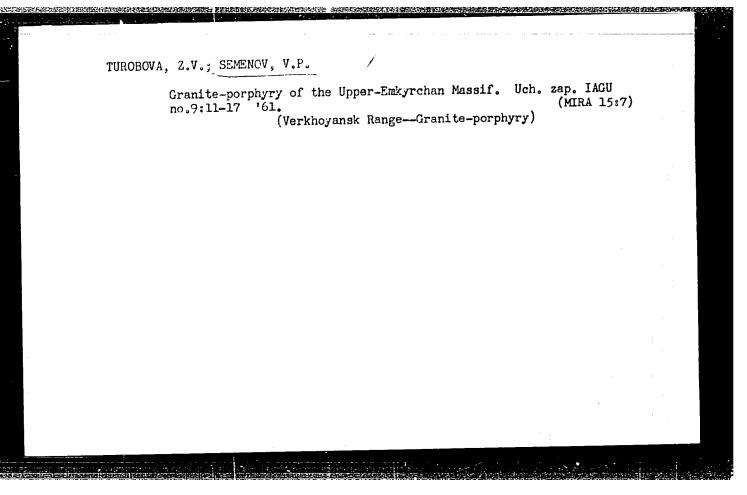
SEMENOV, V. P.

Stratigraphy of the Paleogene Deposits of the Region Between the Chirsk and Don Rivers

The author compares a new scheme proposed by him for stratigraphically separating the Paleogene deposits in the region between the Chirsk and Don rivers with the scheme of G. P. Leonov (Byull. Mosk. o-vaispytateley prirody. Otd. geol., 14, No. 4, 1936; Uch. zap. Mgu, No. 26, 1939; 11, No. 124, 1947). (RZhGeol, No. 6, 1955) Tr. Voronezhsk. un-ta. 31, 1954, 113-128.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

SEM	ENOV, V.P.
	Upper Cretaceous stratigraphy of the middle Don Valley between Kazanskaya and Yelanskaya. Trudy VGU 50:85-91 '59. (MIRA 13:12) (Don Valley-Geology, Stratigraphic)



S/019/62/000/009/060/125 A154/A126

AUTHORS:

Polyakov. V. S., Sul'zhenko, N. S., Semenov, V. P.

TITLE:

A method of producing a lubricant for the ten-step switches of

dial offices

PERIODICAL: Byulleten' izobreteniy, no. 9. 1962, 45

TEXT: Class 23c. l_{01} . No. 146903 (724037/23 of March 30, 1961). The method of producing a lubricant for the ten-step switches of dial offices, in which CY(SU) machine oil is thickened with aluminum monostearate, is distinguished by the fact that an ester of higher alcohols $c_7 - c_9$ and phthalic acid is added to the lubricant to reduce its penetration and prevent corrosion of copper in a humid atmosphere.

Card 1/1

5(1) 5.1400 80990

S/019/60/000/04/049/315

D038/D006

AUTHORS:

Sevtsov, A.I., Ovcharenko, B.G., Ivanovskiy, F.P., Semenov,

V.P., Kolodeyev, I.P., Kazarnovskiy, Ya.S., Karkhov, N.V., Mikhaylov, K.V., Pavlyuchik, E.P., Pavlov, V.N. and Tsypina, A.N.

TITLE:

A Reactor for the Thermo-Oxydizing Pyrolysis of Hydrocarbon Gases

PERIODICAL:

Byulleten' izobreteniy, 1960, Nr 4, p 14 (USSR)

ABSTRACT:

Class 12o, 19. Nr 126113 (631400/23 of 17 June 1959). The reactor consists of a mixing chamber, a burner, a reaction chamber and a heating device. To raise productivity, freely suspended pipes are rolled into the upper flange of the mixing chamber. The pipes feed oxygen in thin jets into the reaction chamber through the burner plate which has nozzles with built-in spiral eddying pieces and inlets for stabilized oxygen from a collec-

tor.

Card 1/1

S/019/62/000/012/051/079

AUTHORS:

Polyakov, V.S.; Sul'zhenko, N.K.; Semenov, V.P.; Barannik, V.P.

TITLE:

A method of obtaining additions to consistent lubricants, increasing

their adhesion to metals and antiscoring properties

PERIODICAL: Byulleten' izobreteniy, no. 12, 1962, 49

TEXT: Class 23c, lol. No. 148188 (743721/23-5 of September 5, 1961). The method of obtaining additions to consistent lubricants, increasing adhesion to metals and antiscoring properties of the latter, is based on sulfured products. It is novel in that to obtain a less expensive addition and widen the assortment of usable raw materials, the vat residue of synthetic fatty acids is used as the required sulfured product.

[Abstracter's note: Complete translation]

Card 1/1

L 16139-65 EVT(m)/EPF(c)/EVA(d)/T/EWP(t)/EWP(b) Pr-4 IJP(c) JD/WB/DJ ACCESSION NR: AP5000016 S/0286/64/000/021/0027/0027

AUTHOR: Sul'zhenko, N. K.; Barannik, V. P.; Polyakov, V. S.; Dubin-kin, V. P.; Semenov, V. P.

TITLE: Nethod of preparing <u>lubricant</u> for <u>titanium</u> parts. Class 23, No. 166081.

SOURCE: Byul. izobr. i tovar. znakov, no. 21, 1964, 27

TOPIC TAGS: lubricant, oleic acid lubricant, titanium pert lubricant, antiseizing lubricant, anticorrosive lubricant

ABSTRACT: This Author Certificate introduces a method of preparing an antiseizing lubricant for moving parts made from titanium. The lubricant is made of oleic acid treated at 80C, to which crystallized iodine is admixed in a libratio to increase the anticorrosion activity of the oleic acid.

ASSOCIATION: none

Card 1/2.

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547820015-8

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	가 되는 것이 아이 중국 이번도 참 이 사람들이 참 바람들이다.			
	1/2			

CGLOBLIN, K.A.; SEMENOV, V.P.

Interaction of nitrosyl chloride with unsaturated compounds.

Part 16: Reaction with methyl methacrylate. Thur. org. khim.

1 no.1:27-30 Ja 165. (MIRA 18:5)

1. Leningradskiy gosudarstvennyy universitet.

5 (3)

Ogloblin, K. A., Semenov, V. P.

SOV/79-29-6-51/72

TITLE:

Reaction of Nitrosyl Chloride With Unsaturated Hydrocarbons (Vzaimodeystviye khloristogo nitrozila s nenasyshchennymi

uglevodorodami). VI. Reaction With ∞-Methyl Styrene

(Reaktsiya s &-metilstirolom)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 6,

pp 2006-2012 (USSR)

ABSTRACT:

The problem of the reaction of nitrosyl chloride with monoand unsymmetric, double-substituted ethylenes has not been sufficiently dealt with in publications. In order to investigate the influence exercised by the substituents at the ethylene bond on the direction of the reaction, a reaction of nitrosyl chloride with &-methyl styrene was carried out. As was done already earlier (Ref 1), the reaction was carried out in ether solution with equimolecular reagents or with a small nitrosyl chloride excess. The following compounds were separated from the reaction products: the mirture of two

unsaturated monochlorides (I) and (II) which cannot be separated by distillation, the compounds (III) and (IV). In some low

fractions acetophenone was found. Mono- and dihalogen

Card 1/3

Reaction of Nitrosyl Chloride With Unsaturated Hydrocarbons. VI. Reaction With &-Methyl Styrene

SOV/79-29-6-51/72

derivatives (I), (II), (III) are the main products, which points to the predominant effect of nitrosyl chloride on the α-methyl styrene. Apparently (I) results due to the cleavage of hydrochlorides of (III) and (II) in the chlorination of the &-methyl styrene and according to L'vov-Tishchenko (Ref 2 - Scheme 1). From the monochlorides which cannot be separated by distillation, HCl, formaldehyde, formic acid, acetophenone, and chloro acetophenone were obtained by ozonolysis (Scheme 2). The yield of compound (II) was 43 %, computed for the amounts of formaldehyde and formic acid obtained. The saponification of the monochloride fraction with alcoholic alkali lye yielded similar results. The formation of compound (IV) may be explained by scheme 3, i. e. by oxidation of the primary reaction product (V) with NOCl to propane (VI). The presence of acetophenone in the reaction products is explained by the hydrolysis of the compound in the distillation of (IV) (Scheme 4). There are 18 references, 6 of which are Soviet.

Card 2/3

Reaction of Nitrosyl Chloride With Unsaturated Hydrocarbons. VI. Reaction With Q-Methyl Styrene

SOV/79-29-6-51/72

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet (Leningrad

State University)

SUBMITTED:

May 12, 1958

Card 3/3

SEMENOV, V.P.; KAZARNOVSKIY, Ya.S.

High temperature conversion of individual hydrocarbons and their mixtures. Gaz.prom. 5 no.3:33-40 Mr '60.

(MIRA 13:6)

(Gases--Analysis) (Hydrocarbons)

KAZARNOVSKIY, Ta.S.; SEMENOV, V.P.

High-temperature conversion of hydrocarbons. Gaz.prom.

(MIRA 1317)

5 no.7:41-50 160.

(Hydrocarbons) (Oxidation)

SEMENOV, V. P., Cand. Tech. Sci. (diss) "Investigation of Process of Partial Burning of Hydrocarbons with Oxygen for Purpose of Obtaining Technical Gas for Synthesis of Ammonia, Methanol, and Higher Spirits," Moscow, 1961, 21 pp. (Moscow Chem. Engr. Inst.) 20 copies (KL Supp 12-61, 273-4).

S/064/61/000/001/002/011 B110/B215

AUTHORS:

Kazarnovskiy, Ya. S., Semenov, V. P., Ovcharenko, B. G.,

Tsypin, A. N., Kolodeyev, I. P., Litvinchuk, V. A.

TITLE:

Problems of apparatus design for the thermooxidative pyrolysis

of hydrocarbon gases

PERIODICAL:

Khimicheskaya promyshlennost', no. 1, 1961, 11-15

TEXT: The pyrolysis of hydrocarbon gases for the production of ${\rm ^{C}_{2}H_{2}}$ and synthesis gas takes place at 1450-1500°C. Since the intermediate ${\rm ^{C}_{2}H_{2}}$ must not remain in the reaction zone for more than 0.003-0.01 sec, short tongues of flame must be used. As the traditional apparatus by Sachse and Bartholomé with maximum production of ${\rm ^{C}_{2}H_{2}}$ of 3500-5000 tons per year is no longer sufficient, a new more efficient apparatus has to be designed. Highly turbulent combustion increases the rate of flame propagation and shortens the tongue considerably. The method of methane pyrolysis applied by B.S.Grinenko yielded high ${\rm ^{C}_{2}H_{2}}$ concentrations. Its industrial application, however, is

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Problems of apparatus design for...

S/064/61/000/001/002/011 B110/B215

rendered difficult due to the almost critical velocity of the gas of 200-250 m/sec required for it, due to the high initial temperature (700-8000) of the oxygen necessary for the combustion stabilization (7% of the total amount), and due to an increase in temperature of the reaction channel of up to 2000°C. A pilot plant for average gas velocities and efficiencies of approximately 160 Nm3/hr is described. The conical ring nozzle of the burner contained whirl blades. The $\mathrm{CH_4/0_2}$ mixture flowed into the reaction channel at 400°C and approximately 150 m/sec. The oxygen used for stabilization was only 5% of the total 0, content. Maximum temperature in the reaction zone was 1450°C; gas velocity: approximately 100 m/sec; its stay: 0.0025 sec. The acetylene yield was 8 to 8.4% of the reaction gases plus deposition of carbon black; 3 to 3.5 g/Nm^3 of the initial mixture; ratio 0_2 consumption = 0.62 to 0.64. According to the author, transition from pilot stage to industrial stage would be most suitable by increasing the number of burners. Fig. 1 shows the pilot plant of 1958. Coke oven gas of the ammonia unit compressed up to 0.36 atm by compressor (4), is purified in cloth filter (5),

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S/064/61/000/001/002/011 B110/B215

Problems of apparatus design for...

and conveyed to the preheating oven (3). Industrial oxygen compressed up to 0.38 atm by a χ K -3 (Chx-3) compressor 1 is also conducted into the preheating oven via water separator (2) and filter (5). There, O_2 is heated to heating oven via water separator (2) and filter (5). There, O_2 is heated to 350°C, and the coke even gas to 450°C. From mixer (6), the mixture is at a temperature of 300°C conducted into burner (7) and reaction vessel (8) from which the pyrolysis gases flow out at 80-90°C. After leaving scrubber (13) where the latter were purified from carbon black, they pass the water (13) where the latter were purified from carbon black, they pass the water (13) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the latter were purified from carbon black, they pass the water (15) where the la

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Problems of apparatus design for...

S/064/61/000/001/002/011 B110/B215

of the initial gas was determined: $C_2H_4 = 3\%$, $O_2 = 0.8\%$; CO = 13.8%; $H_2 = 6.7\%$; $CH_4 = 62\%$; $N_2 = 13.7\%$. For stabilizing the flame, 3% of the total oxygen (79 to 98% of O_2) was required. The temperature of the reaction channel was approximatly $1350^{\circ}C$, that of the reactor block $100^{\circ}C$. The total time of reaction was 5000 hr, ratios $[O_2]:[CH_4+2C_2H_4]=0.62$ to 0.72. Optimum yield of $C_2H_2=7.3\%$, its average = 6.9%; total cracking = approximately 30%, effective cracking approximately 30%. The adiabatic temperatures of the reaction were lower than that of the hydrogen formation according to $CO + H_2O = CO_2 + H_2$. The temperature of preheating $(500^{\circ}C)$ probably causes a reduction in O_2 consumption by 10%. The method is suited for supplementing the production of nitrogen fertilizers for which hydrogen is obtained from coke oven gases. A percentage of approximately 4 t of O_2H_2 was obtained. There are 3 figures, 2 tables, and 6 references: 4 Soviet-bloc and 2 non-Soviet-bloc.

Card 4/7

S/081/61/000/020/083/089 B110/B147

AUTHORS:

Semenov, V. P., Kazarnovskiy, Ya. S., Kolodeyev, I. P.,

Litvinchuk, V. A.

TITLE:

Conversion of heavy petroleum residues into synthesis gas

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 20, 1961, 405-406, abstract 20M103 (Gaz. prom-st', no. 2, 1961, 41-48)

TEXT: Experiments on the conversion of mazout into synthesis gas were conducted on an experimental plant (diagram given) for conversion at high temperature. The efficiency of the plant was 6.6-7.9 kg of mazout per hr. The average ratio of the linear velocities of mazout escape from the nozzle and of the vapor-oxygen mixture was ~ 200, the volume of the reaction space was 0.006 m3, the temperature in the reaction zone was 1350-1450°C, and the linear velocity of converted gas in the reaction zone was 6-9 m/sec. Experimental and calculated equilibrium compositions of the reaction mixture, and comparative tables of efficiency with respect to carbon or oxygen, calculated from equations and obtained from the values of material equilibrium, are presented. It is concluded that

Card 1/2

Conversion of Leavy petroleum...

S/081/61/000/020/083/089 B110/B147

the equations indicated for the techniques of commercial gas production from carbon raw material have a universal character. [Abstracter's note:

Card 2/2

L 10692-63 ACCESSION NR: AP3001612 s/0064/63/000/004/0032/0036

AUTHOR: Brodyanskiy, V. M.; Leytes, I. L.; Marty*nov, A. V.; Semenov, V. P.;

Estrin, S. M.

TITLE: Application of wortex effect in chemical engineering

SOURCE: Khimicheskaya promyshlennost!, no. 4, 1963, 32-36

TOPIC TAGS: vortex effect, vortex tube

ABSTRACT: A survey of what has been done up to now with respect to the application of the vortex effect in chemical engineering. Authors define vortex effect as the division of gas into cold and hot flows during its expansion in the vortex tube. Various types of vortex tubes are discussed. Authors made a number of tests wherein they checked the characteristics of a vortex tube at different pressures under production-line conditions. This tube had a 40 mm diameter, two right-angled nozzles with spiral inlets. Interchangeable diaphragms of 18, 20, and 22 mm were used. The gas temperature at the inlet was 34-40C. Gas expenditure was 840-460 normal cubic meters per hour. The results are summarized in graphs which are discussed in detail. Treatment 15

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OGLOBLIN, K.A.; SEMENOV, V.P.; SKOBLIKOVA, V.I.

Interaction of nitrosyl chloride with unsaturated hydrocarbons. Part 7: Conversion of nitrosyl chlorides of olefins to oximes of &-chloro aldehydes and &-chloro ketones brought about by the action of hydrogen chloride. Zhur.ob.khim. 33 no.3:888-896 Mr '63. (MIRA 16:3)

1. Leningradskiy gosudarstvennyy universitet.
(Nitrosyl chloride)
(Olefins) (Oximes)

Pc-4/Pr-4 s/0366/65/001/003/0401/0408 EPF(c)/EWP(j)/EWA(c)/EWT(m) L 42112-65 ACCESSION NR: AP5008713 AUTHORS: Ogloblin, K. A.; Semenov, V. P. 18. Reactions TITLE: Reaction of nitrosyl chloride with unsaturated compounds. with simple vinyl ethers Churnal organicheskoy khimii, v. 1, no. 3, 1965, 401-408 SOURCE TOPIC TAGS: unsaturated compound, chloride, vinyl ether ABSTRACT: An investigation was made of the reaction between nitrosyl chloride and vinyl ethers in a solution of diethyl ether with equimolar ratios of reagents. Reactions were obtained with methylvinyl, methylpropenyl, methylisopropenyl, and methyl-d-phenylvinyl. These vinyl ethers react energetically with nitrosyl chloride in the solution of diethyl ether at -600 with the formation of dimeric nitrosyl chlorides: 1-chloro-2-nitroso-1-methoxyethane, 1-chloro-2-nitroso-1methoxypropane, 2-chloro-1-nitroso-2-methoxypropane, and α-chloro-β-nitroso-αmethoxyethyl benzene. During hydrolysis of 2-chloro-1-nitroso-2-methoxypropane and α-chloro-β-nitroso-α-methoxyathyl benzene, dimerio α-nitrosoketones with primary nitrose groups, previously unknown, were obtained. These dimeric & nitrosokatones were produced in the "bis" form, indicating a "bis" form of the dimeric nitrosyl chlorides. During hydrolysis of 1-chloro-2-nitroso-1-methoxypropane and 1-chloro-2 Card 1/2

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nitroso-1-methoxyethane, glyoxapropenyl ether reacts with nitraimer 1-chloro-2-nitroso-1-methoreacts with methylisopropenyl ediazonitrate. The mechanisms of formation of nitrosyl chlorides takes place, during which the methylisopropenyl ediazonitrate. The formation of nitrosyl chlorides takes place, during which the methylisopropenyl ediazonitrate. The formation of nitrosyl chlorides takes place, during which the methylisopropenyl ediazonitration of nitrosyl chlorides takes place, during which the methylisopropenyl ediazonitration of nitric oxides art. has: 1 table and 5 formula	oxypropane is formed. At the there with the formation of the different reactions as of vinyl ethers, an ionic nitrosyl chloride appears as thoxy-propyl diazonitrate the with 2-chloro-1-nitroso-2	2-chloro-2-methoxypropyl re discussed. During the mechanism of addition an electrophilio reagent. kes place as a result of e-methoxypropane. Orig.	
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SUBMITTED: 13Feb64 NO REF SOV: 011			· · · · · · · · · · · · · · · · · · ·

CGLOBLIN, K.A., SEMENOV, V.P.

Interaction of nitrosyl chloride with unsaturated hydrocarbone. Part 11: Reaction with 2-chloropropene. Zhur. ob. khim. no. 5:1522-1525 My 164. (MIRA 17:7)

1. Leningradskiy gosudarstvennyy umiversitet.

OGLOBLIN, K.A.; KALIKHEVICH, V.N.; POTEKHIN, A.A.; SEMENOV, V.P.

Interaction of nitrosyl chloride with unsaturated hydrocarbons. Part 9: Reaction with mono- and assym. disubstituted ethylenes. Zhur.ob. khim. 34 no.1:170-181 Ja '64. (MIRA 17:3)

1. Leningradskiy gosudarstvennyy universitet.

OGLOBLIN K.A.: SEMENOV, V.P.

Interaction of nitrosyl chloride with unsaturated compounds. Part 14: Reaction with methylallyl and methylmethallyl ethers. Zhur. ob. khim. 34 no.8:2681-2688 Ag '64. (MIRA 17:9)

1. Leningradskiy gosudarstvennyy universitet.

(MIRA 17:4)

OGLOBLIN, K.A.; SEMENOV, V.P.

Reaction of minvl ethers with nitrosyl chloride. Dokl. AN SSSR

155 no.3 45-148 hr '64.

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. Predstavleno akademikom A.N.Nesmeyanovym.

OGLOBLIN, K.A.; SEMENOV, V.P.

Reaction of nitrosyl chloride with unsaturated compounds. Report No.18: Reactions with vinyl ethers. Zhur.org.khim. 1 no.3:401-408 Mr 165.

(MIRA 18:4)

1. Leningradskiy gosudarstvennyy universitet.

[Abstract of lecture: for a course in the mechanics of a solid and deformable body] Konspekt lektsii po kursu mokhaniki tverdogo i deformirmenogo tela. Leningrad, Leningra, politekha. in. tim. M.I.Kalinima. 1965—167 p. (MIRA. 8:12)

	ACC NR 1 9220-66 EWT(m)/T/EWP(t)/EWP(b) TIP(c) ID ATP/DI	1 1 1 mm mg
	SOURCE CONT	
	INVENTOR: Sull'zhenko N K n	
	INVENTOR: Sul'zhenko, N. K.; Barannik, V. P.; Polyakov, V. S.; Dubinkin, V. P.; 78	
	ORG: none	
	TITLE: Method for preparing lubricating greases for parts from titanium and titanium	
	based alloys. Class 23, No. 176352	
	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 43	
	TOPIC TAGS: +444.	
	grease. parelli and hydrony hologenetel organic compound,	
	TOPIC TAGS: titanium, titanium alloy, lubrication, halogenetel organic compound, grease, pareffin was, hydrocarbon, antifiction metal, entreomesion addition,	
		\$4 \$4
	ABSTRACT: An Author Certificate has been issued for a preparative method for lubricating greases for titanium and titanium-alloy parts. The grease is based on halogenated hydrocarbons. To enhance the antifriction properties as it is based on halo-	
4	genated hydrogarhons in only and the grease is based on helo-	
	chlorine-containing organic community that the parallin is thickened with solid	
	nexachiorobenzene, or 70% chlorinated paraffin [sic]	· 설. 영화
	SUB CODE: 11/ SUBM DATE: 13Jan64/ ATD PRESS: 4/58	
.	, COUR DATE: 13Jano4/ ATD PRESS: 4/58	
	Card 1/1	일 () 영화
	UDC: 621.893.002.235;546.821	
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OGLICELING K.A., SEMENON, V.P.

Reaction of nitropy oblorids with unsetimated compactive Pert 23: Reaction involving 3,3,3-trichlore-2-mathylpropers and 2-nitropy pere. Shur. org. khim. 1 no.8:1356-1350 Ag 165.

Resction of nitrosyl chloride with unsaturated compounds.

Part 24: Reaction involving methyl ester and nitrile of acrylic acid. Ibid.:1361-1364 (MIR! 18:11)

1. Leningradskiy gosudarstvennyy universitet.

I 43932-66 EWT(m)/EWP(w)/T/EWP(t)/ETI .JP(c) .JD/DJ	
ACC NR ₁ AP6029040 (A) SOURCE CODE: UR/0413/66/000/014/0056/0056	
INVENTOR: Sul'zhenko, N. K.; Barannik, V. P.; Polyakov, V. S.; Semenov, V. P.; Dubinkin, V. P.	
ORG: none	
TITLE: Preparative method for a lubricant. Class 23, No. 183863	
SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 56	
TOPIC TAGS: lubricant, titanium, titanium alloy, mortuglame iodide, iodinium, iodin	e
ABSTRACT: An Author Certificate has been issued for a preparative method for a	
methylene <u>iodide-b</u> ase lubricant suitable for parts made of <u>titanium</u> and its alloys. To lower the <u>friction coefficient</u> , <u>iodine</u> , <u>iodoform</u> , or a <u>mixture</u> of the two is dissolved in the methylene iodide. [5M]	
SUB CODE: 11/ SUBM DATE: 05Jul62/ ATD PRESS: 506/	
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Card 1/1 .0 UDC: 621.892.84	
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SEMENOV, V.S.

Billio

"On the Comparative Studies in the U.S.S.R."

Basic Problems of Marxist Researches on Social Structure and Changes of Social Relations.

Report presented at the 5th World Congress of Sociology, Washington, D.C., 2-8 Sep 62.

SEMENOV, V.S.; PAKHOTNOVA, V.I.

Magnetic properties of certain soils. Izv.vys.ucheb.zav.; fiz. no.1:84-86 '61. (MIRA 14:7)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V.Kuybysheva.

(Soils-Magnetic properties)

SEMENOV, V.S.

Problem of extensive resections of the small intestine. Zdrav. Belor.

1. Kafedra fakul'tetskoy khirurgii (zaveduyushchiy kafedroy - prof. P.N. Maslov) Minskogo meditsinskogo instituta. (INTESTINES--SURGERY)

SEMENOV, V. S.

Mbr., Yakutok Republican Hosp., -cl9/9-. Helicine. "Notes on Training Surgical Personnel," from "Collected Scientific Works of the Yakutok Republic Hospital, 3, Gosizdat, Yakutok ASSR, Khirus, Ya, No. 8, 19/9. "A New Method of Cranioplasty to Correct Extensive Traumatic Defects of the Cranium," ibid; "Endemic Goiter in Olekainsk Rayon of Yakutok ASSR," ibid.

SEMENOV, V. S.

"Echinococcosis." Sub 2 Cct 51, Central Inst for the Advanced Training of Physicians.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

SEMENOV, V.S.

THE PROPERTY OF THE PARTY OF TH

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Results of work of the unified surgical department. Khirurgiia, Moskva no.5:71-72 May 1951. (CIML 20:9)

1. Of the Surgical Division (Head--V.S. Semenov), Yakutsk Republic Hospital (Head Physician--N.I. Kovalevska, a).

SEMENOV, V.S., zasluzhennyy vrach RSFSR, zaveduyushchiy.

Results of surgery of echinococcosis. Khirurgiia no.4:40-45 Ap '53. (MLRA 6:6)

1. Khirurgicheskoye otdeleniye Yakutskoy respublikanskoy bol'nitsy.
(Hydatids)

Associated hepatic alveolar and hydatid echinococcosis. Khirurgiia no.6:73-74 Je '54. (MIRA 7:9) 1. Iz khirurgicheskogo otdeleniya Takutskoy respublikanskoy bol'-nitsy. (LIVER, diseases, *echinococcosis, assoc. of alveolar & hydatid forms) (ECHINGCOCOSIS, *liver, assoc. of alveolar & hydatid forms)

SEMENOV, V.S., kandidat meditsinskikh nauk, zasluzhennyy vrach RSFSR i YaASSR.

Resection of the liver in alveolar echinococcosis. Vest.khir.74 no.1:20-25 Ja-F 154. (MIRA 7:2)

1. Iz khirurgicheskogo otdeleniya Yakutskoy respublikanskoy bol'nitsy (zaveduyushchiy otdelom - V.S.Semenov). (Liver--Hydatids)

SEMENOV, V.S., kandidat meditsinskikh nauk.

Surgical treatment of severe forms of thyrotoxic goiter.
Khirurgiia, no.11:3-11 N '55. (MIRA 9:6)

1. Zasluzhennyy vrach RSFSR i Yakutskoy ASSR. 2. Iz kliniki fakul'tetskoy khirurgii (zav.-chlen-korrespondent AMN SSSR prof. B.V. Petrovskiy) pediatricheskogo fakul'teta II Moskovskogo meditsinskogo instituta imeni I.V. Stalina. (GOITER, surg.

in severe thyrotoxic cases)

SEMENOV, V.S., kand.med.nauk, zasluzhennyy vrach RSFSR i Yakutskoy ASSR

Treatment of Basedow's disease from data of surgical clinics in the people's democracies [with summary in English]. Chirurgiia 33 no.10: 94-104 0 '57.

1. Iz kliniki gospital'noy khirurgii (zav. - deystvitel'nyy chlen AMN SSSR prof. B.V.Petrovskiy) I Moskovskogo ordean Lenina meditsinskogo institute imeni I.M.Sechenova.

(HYPERTHYROIDISM, surg. statist., analysis of results (Rus))

PETROVSKIY, B.V., prof., zasluzhennyy vrach RSFSR i Yakutskoy ASSR; SEMENOV, L.S., kand.med.nauk

Surgery of thyrotoxic goiter. Khirurgiia 33 no.12:44-52 D '57.
(MIRA 11:2)

l. Iz kliniki fakul'tetskoy khirurgii pediatricheskogo fakul'teta (zav. - deystvitel'nyy chlen AMN SSSR prof. B.V.Petrovskiy)
II Moskovskogo meditsinskogo instituta.
(HYPERTHYROIDISM, surg.)

SEMENOV, V.S., zasluzhennyy vrach RSFSR i Yakutskoy ASSR (Moskva)

STEP CONTINUES IN THE STATE OF THE STATE OF

Result of the investigation and surgical therapy of goiter in Yakut ASSR. Probl. endokr. i gorm. 4 no.5:110-115 S-0 58. (MIRA 11:12)

1. Iz gospitalinov khirugricheskov kliniki I Mosovskogo ordena Lenina meditsinskogo instituta (dir. - chlen-korrespondent AMN SSSR prof. B.V. Petrovskiy) i khirurgicheskogo otdeleniya Yakutskov respublikanskov bolinitsy (zav. - V.S. Semenov).

(GOITER.

epidemiol. in Russia & surg. statist. (Rus))

SEMINOV, V.S. [Siamionau, V.S.]

Some changes in the functional state of the stomach following extensive resections of the small intestine in dogs. Vestsi

AN BSSR.Ser.bital.nav. no.2:108-114 '59. (INTESTINES-SURGERY) (STOMACH)

(MIRA 12:9)

SEMENOV, V.S., doktor med.nauk

Alveolar echinococcosis as regional pathology in the Yakutsk ASSR. Sov. med. 24 no. 2:57-62 F '60. (MIRA 14:2)

1. Glavnyy khirurg Ministerstva zdravookhraneniya Yakutskoy ASSR.

(YAKUTIA---HYDATIOS)

AL'PEROVICH, B.I.; SEMENOV, V.S.

Experience with local anesthesia with the use of neuroplegics.

Vest.khir. 85 no.9:106-109 8 '60. (MIRA 13:11)

1. Iz kafedry khirurgii (zav. - prof. V.S. Semenov) Yakutskogo gosudarstvennogo universiteta i khirurgicheskogo otdeleniya (zav. - B.I. Al'perovich) Yakutskoy respublikanskoy bol'nitsy. (LOCAL ANESTHESIA) (ARTIFICIAL HIBERNATION)

BREGADZE, I.L.; SEMENOV, V.S.

Nosogeography of the alveolar form of echinococcosis in Siberia. Med.paraz.i paraz.bol. 30 no.2:168-172 Mr-Ap '61. (MIRA 14:4)

l. Iz gospital'noy khirurgicheskoy klinik Novosibirskogo meditsinskogo instituta (dir. Kliniki - prof. I.L. Bregadze) i kafedry khirurgii Yakutskogo gosudarstvennogo universiteta (zav. kafedroy V.S. Semenov).

(SIBERIA—HYDATIDS)

SEMENOV, V.S., prof. zasluzhennyy deyatel' nauki RSFSR

Results of surgical treatment of the hydatid disease. Trr '- KCMI no.10:325-329 '63.

Indications and counterindications for surgical treatment of hyperthyroid and thyrotoxic goiter. Ibid.: 467-472

(MIRA 18:1)

1. Iz kafedry fakul'tetskoy khirurgii (zav. kafedroy zasluzhennyy deyatel' nauki RSFSR - prof. V.S.Semenov) Kalininskogo
gosudarstvennogo meditsinskogo instituta.

SEMENOV, V.S., inzh. (Leningrad)

Mechanized freight yard. Zhel. dor. transp. 47 no.8:31-32 Ag '65.

(MIRA 18:9)

CURVICH, J. I.; SHITNEY, V. S. Engs.

Filters and Filtration

Sutomatization of cation filter restoration. Flak. sta., 23, No. 5, 1952.

9. MONTHLY LIST OF RUSSIAN ACCESSIONS, Library of Congress, October 1952, Uncl.

DEMESTOR U.S.

96-1-17/31

AUTHORS: Gurvich, S.M. and Semenov, V.S., Engineers.

TITIE: Automation of the Operation of Pressure Filters in Water

Treatment Plant at Power Stations (Avtomatizatsiya napornykh

fil'trov dlya obrabotki vody na elektrostantsiyakh)

PERIODICAL: Teploenergetika, 1958, Vol.5, No.1, pp. 65 - 70 (USSR)

ABSTRACT: The main function of the staff of modern water-treatment plant in power stations is associated with regeneration of the filters. It consists largely in the laborious opening and closing of valves. The Moscow Division of the Central Boiler Turbine Institute decided to endeavour to make the process automatic. Not all the operations could be made automatic, because simple and reliable automatic analysing instruments are lacking. However, a system of automation was devised and a schematic diagram is given in Fig. 1. The essence of the system is that a group of three or four filters is served by a single automatic device which can be connected to particular filters in turn whilst the rest remain in operation. The authomatic equipment consists of three units, one for loosening and washing the filters, a second for preparing and delivering the regenerating solutions and a third for control of signalling. Clarifying filters do not require the second unit.

Cardl/3 This system has the merit of economising on automatic equipment

96-1-17/31

Automation of the Operation of Pressure Filters in Water Treatment Plant at Power Stations.

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and freeing the filters of electrical instruments and wiring. The most important part required for the equipment is a valve with hydraulic drive controlled by an electro-hydraulic distribution valve and fitted with limit switches (see Fig.2). This mechanism is required for mechanical opening and closing of the main water alve. Devices already in use for similar applications were not entirely suitable and new equipment was developed. Useful suggestions about the design of hydraulic drive were made by G.S. Katkov, of Power Station No.19 of Mosenergo and the new type has been in use for over three years with complete success. The hydraulically operated valve is controlled by a manual distributing valve, which was also re-designed. The combination of hydraulic operation of valves with a manual distribution valve and an electro-hydraulic distribution valve makes it possible to use automatic or manual control at will. A schematic diagram of the automatic operation of ionite filters by the Central Boiler Turbine Institute system is given in Fig. 3A as applied to an automatic group of four filters, each of which has five hydraulically operated valves controlled Card2/3 by manual distributing valves.

Automation of the Operation of Pressure Filters in Water Treatment Plant at Power Stations.

The principles of operation of the equipment are fully described. The units for the preparation and supply of regeneration solutions, somewhat different from thosefor ionite filters, are also illustrated in Fig. 3 and their operation explained. The control and signalling unit registers the operation of all valves and sounds an alarm if they do not open and close in accordance with the programme.

Clarifying filters are made automatic by similar equipment but the unit for preparing and delivering the regenerating solution

Equipment of the kind described has now been installed at a power station on the Moscow system. Three factors contribute to the economic improvement that results from the use of this semi-automatic equipment: less staff are required: less reagents are used for water treatment: and capital costs are reduced because the equipment is better used.

It is hoped that it will be possible to develop automatic analysis instruments so that the operation of filters will Card3/3 be completely automatic. There are 4 figures.

ASSOCIATION: MO TSKTI

AVAILABLE: Library of congress.

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MIKHAYLOV, Vladimir Andreyevich; NOVAKOVSKIY, Nison Samoylovich; SEMENOV, V.S., red.; PANCHENKO, M.F., red. izd-va; LELYUKHIN, A.A., tekhn.

[Automation of purifying structures in city water-supply systems] Avtomatizatsiia vodoochistnykh sooruzhenii gorodskikh vodoprovodov. Moskva, Izd-vo M-va kommun. khoz. TSFSR, 1960. 192 p.

(Water-Purification) (Automation)

(MIRA 14:6)

S/113/60/000/010/004/014 D270/D301

AUTHOR:

Semenov, V.S.

TITLE:

Card 1/2

Turning of a piston ring in its groove

PERIODICAL: Automobilinaya promyshlennosti, no. 10, 1960, 13 - 14

TEXT: Ring turning was studied in a 44 10.5/13 engine with a sharp tool, fixed in the plane of conrod motion. A ring with ground end face was placed in the first groove (with the tool). The engine was started, fed with fuel for 1 minute, and then left to run freely without fuel (average run - 23 seconds). All cycles (except suction) of ring motion in respect to the piston were recorded by the tool on the ring's surface. After stripping, the deviation of ring splits from initial position were determined and the trace on the first ring photographed under a microscope. The results indicated that the turn varies from 20 to 1300/min. with an average speed of 900/min. A theory that the turning of the ring was due for asymmetry of the pressure with which the ring bears against the wall was checked in the following manner. The same ring was turned over and

Turning of a piston ring in ...

S/113/60/000/010/004/014 D270/D301

placed again in the groove, thus a reverse turning should have resulted, but tests did not confirm this. The effect of engine speed and pressure was checked during work with fuel at 1500 rpm as well as with the cylinder head removed and the crankshaft turned by hard. The angle of ring turn remained practically the same. A conclusion therefore was made that the ring turn depends only on the total number of turns and not the speed or pressure. A diagram of the twist of the crankpin is given. An analysis is made of this twist in relation to the inclination of the piston. The following conclusions were made. Ring turning is due to the twist of the crankpin in relation to the crankshaft axis. The angular speed of the ring increases with the former, and is proportional to the angular speed of the crankshaft. There are 4 figures and 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-Language publication reads as follows: Shaw and Nussdorfer, Automobile Engineering, no. 12, 1946.

Card 2/2

Viscous fluid flow in a clearance caused by changes in the amount of the clearance. Izv.vys.ucheb.zav.;mashinostr. no.ll:60-64 '60.

(MIRA 14:1)

1. Odesskiy institut inzhenerov morskogo flota.

(Fluid dynamics)

General automatic and remote control of petroleum production enterprises. Neft. khoz. 38 no.10:5-8 0 '60. (MIRA 13:9)

(Oil fields—Production methods)

(Automatic control)

(Remote control)

SEMENOV, V. S.

"Electrical Modelling of Heat Transfer Processes in Internal Combustion Cylindrical-piston Engine."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

SEMENOV, V.S.

Electromagnetic field of a low-frequency vertical magnetic dipole situated on the surface of a conducting magnetic semispace. Izv. vys.ucheb.zav.; fiz. no.2:102-109 '61. (MIRA 14:7)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V.Kuybysheva.
(Dipole moments) (Magnetic fields)

26029

94,2400 (1160, 1482, 1147)

S/139/61/000/003/009/013 E032/E314

AUTHOR:

Semenov, V.S.

TITLE:

The Electromagnetic Field of a Low-frequency Vertical Magnetic Dipole Located Above the Surface of a

Conducting Magnetic Half-space

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1961, No. 3, pp. 134 - 139

TEXT: This is a continuation of work reported by the present author in Ref. 1 (IVUZ, Fizika, 1961, No. 1). The present paper gives an analysis of the expressions obtained in Ref. 1 for the field due to a weakly-conducting, weakly-magnetic half-space when the primary source is a vertical low-frequency magnetic dipole located at a given height above the surface of the half-space. The problem considered is illustrated in Fig. 1. The vertical magnetic dipole has a moment given by M = M exp(iwt) and is located at a distance d above the

surface of a homogeneous half-space whose electrical conductivity and magnetic permeability are σ and μ , respectively. It is required to determine the secondary Card 1/6

The Electromagnetic Field ... S/139/61/000/003/009/013 electromagnetic field in the medium I (air). Neglecting displacement currents, the solutions of the problem can be expressed in terms of the Hertz function $\Pi'_{r1} = M_0 \int_0^\infty J_0(0r) e^{-\lambda t_r + dt} \frac{\lambda p - \sqrt{\lambda^2 - k_s^2}}{\lambda \mu + \sqrt{\lambda^2 - k^2}} d\lambda, \qquad (1)$ which is related to the field components by $E'_{q1} = /\omega \ 10^{-k} \ \frac{\partial \Pi'_{r1}}{\partial r}, \quad E'_{r} = E'_{r} = 0;$ $H'_{r1} = \frac{\partial}{\partial r} \left(\frac{\partial \Pi'_{r1}}{\partial z}\right), \quad H'_{r1} = \frac{\partial^2 \Pi'_{r1}}{\partial z^2},$ where $E'_{\phi1}$, H'_{r1} and H'_{z1} are the components of the secondary electric and magnetic fields in air, $J_{\phi}(\lambda r)$ is the Card 2/6

26029 S/139/61/000/003/009/013 E032/E314 The Electromagnetic Field

zero-order Bessel function and $k_2^2 = -i\kappa_2^2 = i4\pi\sigma$ wm 10^{-9} . In the case of a weakly magnetic medium $(\mu = 1 + \alpha)$ neither Eq. (1) nor the expression

$$\Pi'_{z1} \simeq M_0 \int_0^\infty J_0(\lambda r) e^{-\lambda |z+d|} \frac{\lambda - \sqrt{\lambda^2 - k^2}}{\lambda + \sqrt{\lambda^2 - k^2}} d\lambda +$$

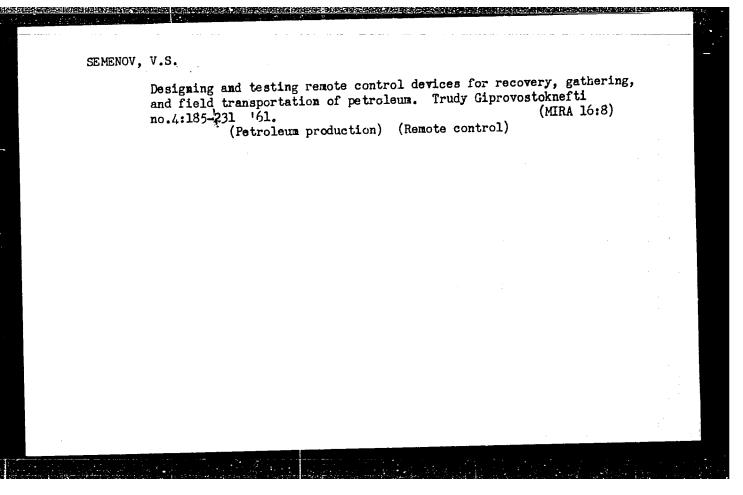
$$+ M_0 \alpha \int_0^\infty J_0(\lambda r) e^{-\lambda |z+d|} \lambda \frac{(2\lambda^2 - k^2) d\lambda}{\sqrt{\lambda^2 - k^2(\lambda + \sqrt{\lambda^2 - k^2})^2}}.$$

$$+ \, M_0 \, \alpha \, \int\limits_0^\infty \! J_0(\lambda r) \, e^{-\lambda (z+d)} \, \lambda \, \, \frac{(2\lambda^2-k^2) \, d\lambda}{V \, \lambda^2 - k^2 0 + V \, \lambda^2 - k^2)^2}$$

which was derived in Ref. 1, is suitable. In order to obtain a more convenient solution, the integrals in Eq. (3) are now evaluated approximately by expanding a part of the integrand ? into a power series. The resulting formulae can be used to evaluate the modulus and phase of the secondary electromagnetic field. The formulae are Card 3/6

The Electron	nagnetic Fiel	260 2 9	S/139/61/0 E032/E314	000/003/00	09/013	
'	e' ₉₇₆ =	$\frac{\alpha}{2} \frac{1}{[(z_1+d_1)^2+1]}$	13/2 r		•	-30
	$e_{qlm}^{\prime} \simeq -\frac{1}{2}$	$\frac{r^2}{4} \left[\sqrt{(z_1+d_1)^2+1} - \frac{r^2}{4} \right]$	$-(z_1+d_1)$		•	شند شمر ۱ سند ۱ د از
	$h'_{zre} \simeq$	$\frac{\alpha}{2} \frac{2(z_1+d_1)^2}{[(z_1+d_1)^2+1]}$	$\frac{-1}{1]^{5/2}}$,	•		
	h _{'stm} ≃	$\frac{p^2}{4} \cdot \frac{1}{\sqrt{(z_1 + d_1)^2 + \dots}}$:	(7)	50
	h' =	$= -\frac{\alpha}{2} \frac{3(z_1 + d_1)^2}{[(z_1 + d_1)^2]}$		•	• • •	
	$h'_{ilm} \simeq \frac{p^2}{4}$	$\sqrt{(z_1+d_1)^2+1}$	$-(z_1+d_1)]$		•	55
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he components	= d/r , and $E_{\varphi}^{0} = -i\omega l$ at $z = 0$ of the prat the origin, and phere are 4 figures, 1	is "the reduced di	istance"	V 20
eferences.	•		: + nri V	^
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ASSOCIATION:	Tomskom gosuniversi (Siberian Physicote Tomsk State Univers	Chnical Histruce V	yshev)	
ASSOCIATION:	/ Diiooto	Chnical Histruce V	yshev.)	
	(Siberian Physicote Tomsk State Univers	Chnical Histruce V	yshev)	



RADUGIN, O.K.; SEMENOV, V.S.

Electromagnetic field of a horizontal coil situated above a conducting magnetic half-space. Izv.vys.ucheb.zav.; fiz. no.5:30-35 '61. (MIRA 14:10)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V.Kuybysheva.
(Electromagnetism) (Electric coils)

SEMENOV, V.S.

Reaction of the external medium on a coil under the action of a variable current. Izv. vys. ucheb. zav.; fiz no.6:104-108 '61. (MIRA 15:1)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosudarstvennom universitete imeni V.V. Kuybysheva. (Electric coils)

STAROSEL'SKIY, A.A., dotsent, kand.tekhn.nauk; VASSERMAN, A.A., inzh.

SEMENOV, V.S., inzh.

Results of endurance testing of piston rings of diesel engines. Vest.
mash. 41 no.3:11-15 Mr '61. (MIRA 14:3)

(Piston rings—Testing)

STAROSEL'SKIY, A.A., dotsent, kand.tekhn.nauk; VASSERMAN, A.A., inzh.; SEMENOV, V.S., inzh.

Pressure diagram and wear characteristics of heat stabilized piston rings of diesel engines. Vest.mash. 41 no.4:36-37 Ap '61.

(MIRA 14:3)

(Piston rings)

KOZDOBA, L.A., kand.tekhn.nauk; SEMENOV, V.S., inzh.

Use of electrical simulation for determining the temperature field of an internal combustion engine. Izv. vys. ucheb. zav.; energ. 5 no.2:79-84 F '62. (MIRA 15:3)

1. Odesskiy institut inzhenerov morskogo flota. Predstavlena kafedroy dvigateley vnutrennego sgoraniya.

(Gas and oil engines) (Heat—Transmission)

SEMENOV, V. S.

Friction of a piston ring against a cylinder wall. Avt. prom. 28 no.6:13-15 Je '62. (MIRA 16:4)

1. Odesskiy institut inzhenerov morskogo flota.

4

(Piston rings) (Friction)

SEMENOV, V.S., inzh.

Calculating permissible crooks in joints of diesel-engine crankgears. Vest.mash. 42 no.4:18-22 Ap 162. (MIRA 15:4) (Cranks and crankshafts)

SEMENOV, V.S., assistent

Corrosion wear of diesel engine cylinders. Sud. sil. ust. nc.2:48-52 '63. (MIRA 17:1)

1. Odesskiy institut inzhenerov morskogo flota.

STAROSEL'SKIY, A.A., dotsent; SEMENOV, V.S., kand.tekhn.nauk; VASSERMAN, A.A., inzh.

Interrelationship between elements of cast-iron friction pairs. Izv.vys.ucheb.zav.; mashinostr. no.8:128-132 '63. (MIRA 16:11)

1. Odesskiy institut inzhenerov morskogo flota.

L 24040-66

ACC NR: AP6011278 SOURCE CODE: UR/0413/66/000/006/0140/0140

INVENTOR: Semenov, V. S.; Chernov, Ye. G.

ORG: none

TITLE: Device for remote conversion of deflection angle of instrument indicator into a number of pulses. Class 74, No. 180116

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 140

TOPIC TAGS: remote control converter, electromagnetic pulses

ABSTRACT: This Author Certificate has been issued for a device for the remote conversion of the deflection angle of an instrument indicator into a number of pulses. It consists of a scale, a rachet wheel mounted on a hollow axle through which the pin of the indicator passes, and an electromagnet. The winding of the electromagnet receives pulses from a feed line passing through diodes. To improve the reliability of the device, it has two photoresistors with light sources connected into the power circuit which feeds the electromagnet winding. One photoresistor is at the beginning of the scale and the other is mounted on the instrument-indicator pin and moves with it. A small flag is attached to the rachet-wheel axle As pulsed power is applied to the electromagnet winding, it moves and breaks the light current from the light source to the photoresistor.

SUB CODE: 14, 13, 09/ SUBM DATE: 27May64/
UDC: 621.3.083.72

	L. 11039-66 EWT(d)/EWT(1)/EWP(c)/EWP(v)/T/EWP(k)/EWP(1)/EWA(h)/ETC(m) WW		
1			
	SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitelinaya tekhnika, Abs. 9A412		
	AUTHOR: Sapozhnikov, A. B.; Semenov, V. S.		
	TITLE: Using oscillators for purposes of flaw detection		
	CITED SOURCE: Dokl. Nauchno-tekhn. konferentsii, posvyashch. dnyu radio. Tomsk.		
	Tomskiy un-t, 1964, 152-155		
	TOPIC TAGS: flaw detection, frequency flaw detection		
	TRANSLATION: Two examples of <u>flaw detectors</u> oscillators intended for quality controlling metal products are cited. It has been believed that a drift in the		
	occiliation frequency in the coil is an indicant of defect in metal. nowever, by		3
	means of two simple circuits differing only in the external coils into which the test piece is introduced, it is proven that a great caution should be used in detecting test piece is introduced, it is proven that a great caution should be used in detecting test piece is introduced. Figs. 2.		i i
	flaws on the frequency-drift basis (in some cases, no drift can be expected). Figs 2.		1
	SUB CODE: 13, 09		
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	[10 8 -]		
	mc: 620.179.14		راغاز شعادا
	Card 1/1	10210	i.

T. 7842-66 EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EWP(1)/EPA(w)-2/EWP(j)/T/EWP(t)/EWP(b)ACC NR: AP5028134 EWA(h)/EWA(c) IJP(c)SOURCE CODE: UR/0048/65/029/011/2113/2115 JD/RM/WH AUTHOR: Pluzhnikov, V.M.; Amirkhanov, Kh. Kh.; Semenov. ORG: none TITLE: Polarization of ferroelectrics under the combined influence of static and alternating electric fields Report, Fourth All-Union Conference on Ferro-electricity held at Rostov-on-the Don 12-16 September 19647 SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 11, 1965, 2113-2115 TOPIC TAGS: ferroelectric material, ceramic material, single crystal, dielectric constant, nonlinear effect, harmonic analysis, electric field, dielectric amplifier, harmonic oscillator ABSTRACT: Capacitors with dielectrics of VK-4M Varikond ferroelectric ceramic, monocrystalline lamellar bismuth titanate; or triglycine sulfate / were excited at 50 cycle/sec in the presence of a dc bias up to 200 V and the currents through them were analyzed with a harmonic analyzer. The results are presented as curves showing the amplitudes of various harmonics of the current (up to the ninth) as functions of the applied ac voltage for different values of the dc bias. The three materials gave qualitatively similar results, the nonlinearity being greatest for triglycine sulfate. With zero dc bias no even harmonics of the current were present and the amplitudes of Card 1/2

L 7842-66

ACC NR: AP5028134

the odd harmonics increased monotonically toward saturation with increasing ac voltage. The lamellar bismuth titanate produced strong high harmonics and this material may find application in the design of frequency multipliers. Application of a dc bias caused the appearance of even harmonics, shifted the characteristic curves toward higher ac voltages, and produced maxima in the harmonics of the current higher than the first at moderate (100-200 V) ac voltages. The negative resistance due to these maxima may find application in the design of special purpose amplifiers and oscillators. For the Varikond, the third harmonic of the current varied more rapidly with the bias than the fundamental, and the fifth harmonic varied more rapidly than the third, higher gains can therefore be obtained with dielectric amplifiers by using higher harmonics. Of the three materials, the lamellar bismuth titanate had the best nonlinearity and temperature stability characteristics, but it also had the highest ferroelectric hardness and losses. The Varikind appeared to be the nost advantageous material of those investigated, although its temperature range and nonlinearity were less than those of lamellar bismuth titanate. Orig. art. has: 4 figures.

SUB CODE: SS, EM, EC SUBM DATE: 00/ ORIG.REF: 000 OTH REF: 000

Card 2/2.

SEMENOV, V.T.; TANANYKHIN, N.A.

Mechanization of the manufacture of heaving cards. Put' i put.khoz. (MIRA 16:10)

1. Zamestitel' nachal'nika Biyskoy distantsii puti Zapadno-Sibirskoy dorogi (for Semenov). 2. Nachal'nik putevoy kolonny Biyskoy distantsii puti Zapadno-Sibirskoy dorogi (for Tananykhin).