S/121/60/000/011/011/013
A004/A001

AUTHOR: Gavrilov, V. N.

TITLE: The PC-3 (RS-3) Cutting Fluid Sprayer

PERIODICAL: Stanki i Instrument, 1960, No. 11, pp. 29-30

TEXT:T The RS-3 sprayer, a design of the Chelyabinsk NIITekhmash, does not require any regulation or re-adjustment during operation, since the necessary operation conditions are adjusted during the assembly prior to its being put into operation. Since there are no fine holes and narrow slots through which the cutting fluid is being pressed, uniterrupted service is ensured owing to the absence of clogging. The cutting fluid is atomized in the following way (see Figure 1): Compressed air from the mains enters mixing chamber 3 of sprayer head 5 through connecting branch 1 and interchangeable calibrated 4. When entering

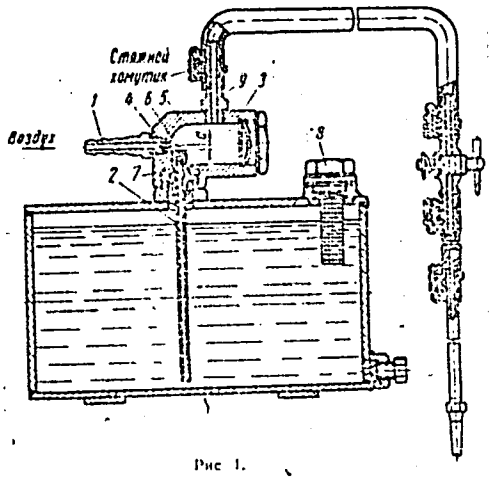


Figure 1:

Рис 1.

Card 1/3

The PC-3 (RS-3) Cutting Fluid Sprayer

the mixing chamber of the sprayer, the air jet passes over cap 6 and, hitting the chamber walls, forms a vortex which promotes the uniform distribution of the liquid in the compressed air. The cutting fluid is supplied to the mixing chamber by pipe 2. Through aperture 7 chamber 3 is connected with the tank, in which the fluid is under the same pressure as prevails in the mixing chamber. The pressure difference between the fluid surface in the tank and over cap 6 makes the fluid flow into the air jet through pipe 2 and cap 6. The outlet connecting branch 9 is placed under an angle of 90° with respect to the direction of the compressed air jet, so that only atomized fluid can get into the cutting zone. Before entering the mixing chamber through the connecting branch the compressed air is purified by a filter. The holding capacity of the tank is 3.3 liters, the operating pressure of the compressed air is 2 - 6 at. The average fluid consumption amounts to from 100 to 500 gram/hour. The maximum distance between sprayer head and nozzle is 1.5 - 2.0 m. The sprayer with the filled tank weighs about 10 kg. Fluid consumption can be controlled in one of the following ways: 1) by changing bushing 4; 2) by changing cap 6 with calibrated aperture; 3) by varying the distance "a" between the face of interchangeable cap 6 and the axis of the apertures of bushing 4, which is attained by changing the washers under the shoulder of cap 6. The

The PC-3 (RS-3) Cutting Fluid Sprayer

greater the distance "a" the lower the fluid consumption. The fluid level in the tank is measured with the aid of a measuring rule through the filler hole of the tank. There are 3 figures.

Card 3/3

LITINETSKIY, I.B.; GAVRILOV, V.N., red.; MATUSEVICH, S.M., tekhn. red.

[M.V.Lomonosov and experimental technology] M.V.Lomonosov i eksperimental'naia tekhnika. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1961. 211 p. (MIRA 15:6)
(Lomonosov, Mikhail Vasil'yevich, 1711-1756)

ROSTOVTSEV, Lev Ivanovich; GAVRILOV, V.N., red.; GUSAROV, K.F., tekhn. red.

[Metallurgy of steel] Metallurgiia stali. Kiev, Gos.izd-vo tekhn. lit-ry USSR, 1961. 233 p. (MIRA 14:12)
(Steel—Metallurgy)

POZNOKHIRIN, Fedor Lukich, kand. sel'khoz.nauk; RABINOVICH, V.M., kand. sel'khoz. nauk, red.; BLANINA, L.F., red.; GAVRILOV, V.N., red.; KVITKA, S.P., tekhn. red.

[Alfalfa growing in the steppe] Kul'tura liutserny v stepi. Kiev, Izd-vo Ukrainskoi akad. sel'khoz.nauk, 1961. 242 p. (MIRA 15:2)

(Alfalfa)

S/121/61/000/002/005/005
A207/A126

AUTHOR: Gavrilov, V. N.

TITLE: A bench machine for producing chip-breaking recesses in cutters

PERIODICAL: Stanki i Instrument, Mashgiz, no. 2, 1961, 32 - 33

TEXT: A description is given of a new bench machine for producing chip-breaking recesses on the front surface of cutters, designed at the Chelyabinsk NIITEKhMASh. The high-precision machine can form small sized recesses in various cutter tools with the cross section of holders from 12 x 20 to 25 x 40 mm. Figure 3 is the kinematic diagram of the machine: 1 - the turning frame can rotate on axis 2. Electric motor 3, pulleys 4 and a spindle with a 60 mm cast iron disk, are located on the frame. The cutting tool holder 5 can turn around its own axis through 360° and move along a T-shaped slot, which, in turn, is located on the arc of a circle on the sector of 150°. The horizontal regulating support 7 facilitates the mounting of the cutter relative to the finishing circle, so that the required size f (Fig. 1) is obtained. The moving of the carriage 9 together with the frame 1, by means of a screw and handle 10, helps to yield the necessary length l of the recess and to space it correctly with respect to the auxiliary cutting edge (size k,

Card 1/4

A bench machine for producing chip-breaking recesses ...

Fig. 1). The horizontal stand assumes the position ensuring the size f, by means of micrometric head 11. The zero position of the head corresponds to the position of the horizontal stand, at which f = 0. After the cutting tool has been mounted on the stand and fastened by rotating eccentric 12 (Fig. 3), the horizontal stand is removed from the cutting tool, and the finishing circle, by means of the frame, drops to the front surface of the tool. After the electric motor has been switched on, the finishing circle, under the action of the frame's weight, will cut into the front surface of the tool until stop 8 reaches the surface of the bushing, which ensures the 0.2 mm depth of the recess. The described machine is said to be successfully in operation at the Chelyabinsk Tractor Works and at the Moscow Small-Sized Automobile Plant. The technical characteristics of the machine are given as follows: pressure of the finishing circle on the front face of the cutter in kg ... 3, travel length of the carriage (movement of the circle along the recess) in mm, ... 40 power of the electric motor in w ... 40, dimensions of the machine (length x width x height) in mm ... 385 x 385 x 295, machine weight in kg ... 16. The geometry of the small chip-breaking recess (Fig. 1) is given as: $f = s - (0.1 \div 0.2)$ mm, where s is the cutter feed, k - at a cutting depth up to 5 mm, is equal to 0.1-0.3 mm and at a cutting depth of over 5 mm, is equal to 0.4 - 0.6 mm; l_1 should be longer than the width of the chip by no less than 1 mm, l_1 in finished and semi-

Card 2/ 4

A bench machine for producing chip-breaking recesses...

finished processing of soft steels-5°, in the processing of hard steels and, when it is necessary to increase the strength of the cutting edge, from 0 to 10°. The author points out that the new machine eliminates the problem of producing recesses by hand or using the cumbersome universal equipment. There are 3 figures.

Figure 1:

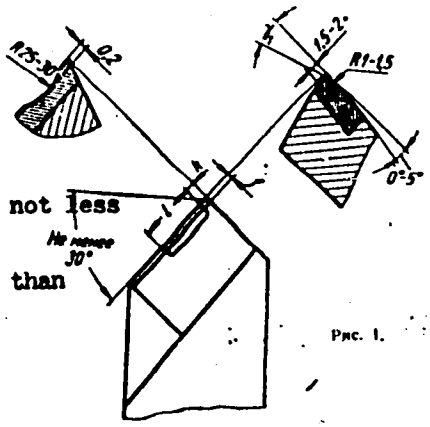


Fig. 1.

Card 3/4

NEKHENDZI, Yu.A.; BUTALOV, L.V.; PEROV, N.I.; FILIN, Yu.A.; Prinimal uchastiye: GAVRILOV, V.N., inzh.

Founding properties of low-alloy titanium and the mechanical properties of titanium castings. Titan i ego splavy no.6:240-250 '61. (MIRA 14:11)

(Titanium alloys--Testing) (Titanium founding)

VIZIR, Vasiliy Alekseyevich; MARTYNOV, Mikhail Alekseyevich;
GAVRILOV, V.N., red.

[Ceramic colors] Keramicheskie kraski. Kiev, Tekhnika,
1964. 254 p. (MIRA 18:1)

L 65226-65 EWA(k)/FBD/EWT(1)/EWP(e)/EWT(m)/EEC(k)-2/EWP(i)/T/EWP(k)/EWP(b)/
EWA(m)-2/EWA(h) IJP(c) WG/WH

ACCESSION NR: AP5014195 UR/0386/65/001/002/0014/0017

AUTHOR: Lebedev, O. L.; Gavrilov, V. N.; Gryaznov, Yu. M.; Chastov, A. A.

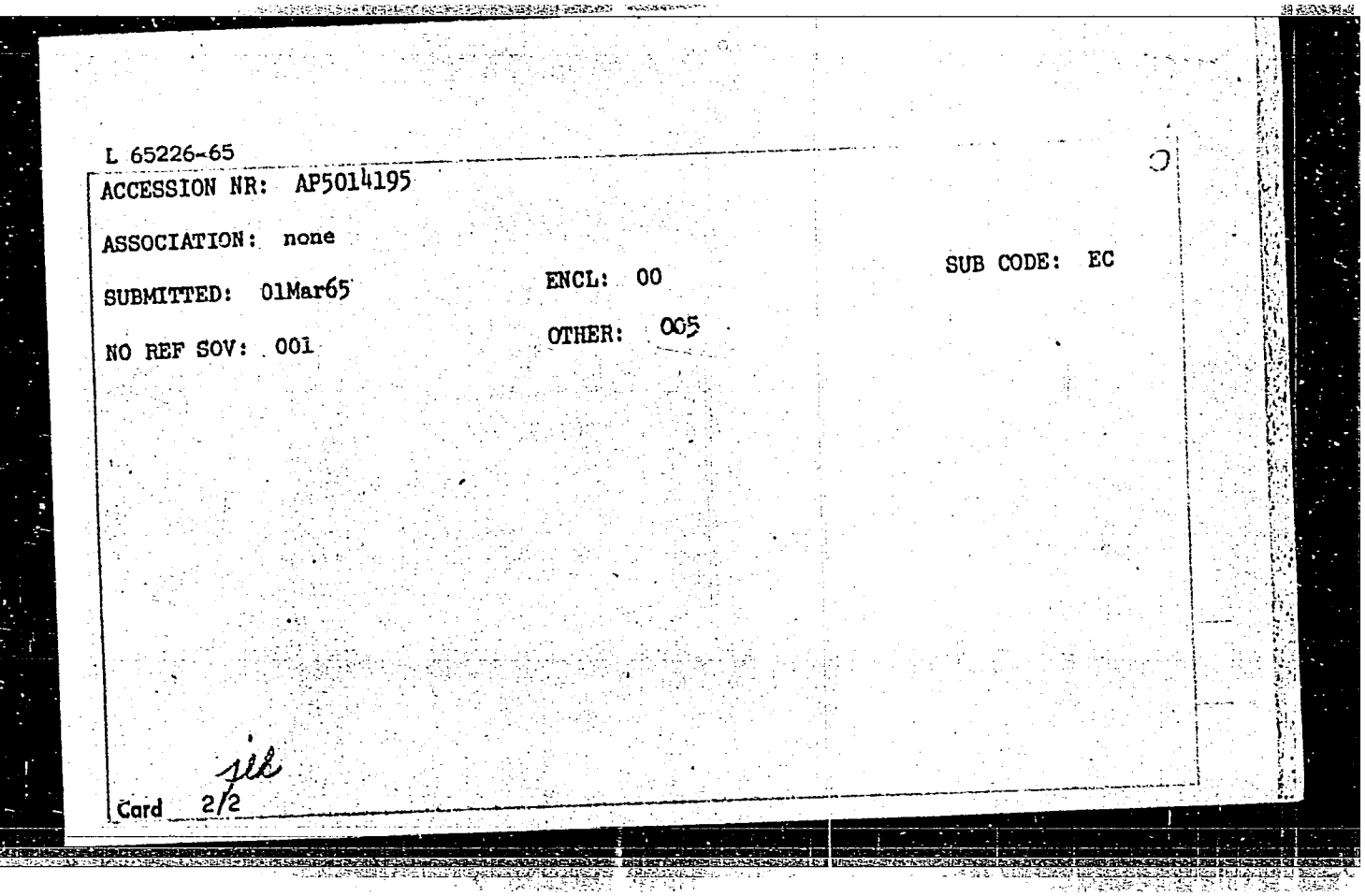
TITLE: Obtaining giant pulses from a neodymium glass laser with help of bleachable solutions

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozhheniye, v. 1, no. 2, 1965, 14-17

TOPIC TAGS: laser, neodymium glass laser, liquid Q switch, photochemical shutter, giant pulse

ABSTRACT: Emission characteristics obtained from a Q-switched neodymium glass laser were described. The Q-switching was achieved with the help of a reversibly bleachable liquid which was a solution of a polymethine dye in quinoline. The experimental setup was described, which consisted of a neodymium activated glass rod and a cell with a dye solution placed in the optical cavity between the laser rod and one of the external dielectric mirrors. A few short and powerful pulses were generated by this system. Duration of each pulse and number of pulses were found to decrease to 100 nsec and one, respectively, when transmittance of the solution was gradually decreased to 36%. Orig. art. has: 2 figures. [JR]

Card 1/2



L 65226-65

ACCESSION NR: AP5014195

ASSOCIATION: none

SUBMITTED: 01Mar65 ENCL: 00 SUB CODE: EC

NO REF SOV: 001 OTHER: 005

jlk

Card 2/2

L 43749-65 EEC(b)-2/EIF(c)/EWG(r)/EEC(k)-2/EWA(k)/EWA(k)/EWP(j)/EWP(k)/EWA(c)/EWT(l)/EWT(m)/EEC(t)/FBD/EWP(i)/T/EWA(m)-2/EWP(z) Pc-4/Pf-4/Pi-4/Pl-4/Pn-4/Pq-4/Pc-4/Pq-4/Pr-4/Peb IJP(c) WG/RM/WH

ACCESSION NR: AP5006539 S/0056/65/048/002/0772/0773

AUTHOR: Gavrilov, V. N.; Gryaznov, Yu. M.; Lebedev, O. L.; Chaytov, A. A. 90 B

TITLE: Variations in ruby laser emission caused by placing phthalocyanine solutions in the resonator

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 2, 1965, 772-773

TOPIC TAGS: ruby laser, coherent optical propagation, phthalocyanine, quinoline derivative, organic dye

ABSTRACT: The effect of concentration of solutions for various phthalocyanines on the nature of ruby laser emission is investigated. Variations in laser emission were found in luminescent magnesium and zinc phthalocyanines and free phthalocyanine, and also for copper and vanadium phthalocyanines which do not show luminescence. Instead of the usual irregular pulsations in output emission, in this case one or more powerful short pulses are produced. The number of pulses increases with an increase in the transmittance of the phthalocyanine solution. Distortion of the leading edge of the pulse may be due to the narrow passband of the recording

Card 1/2

L 43749-65
ACCESSION NR: AP5006539

system. The comparatively low power of ~1MW is explained by the fact that the parameters of the solutions used were not optimum. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 12Dec64 ENCL: 00 SUB CODE: OP

NO REF SOV: 002 OTHER: 001

Card 2/2

GAVRILOV, W.N.; GRYAZNOV, Yu.M.; LEBEDEV, O.L.; CHASTOV, A.A.

Change in the character of the emission from a ruby laser caused by phthalocyanine solutions placed in the resonator. Zhur. eksp. i teor. fiz. 48 no.2:772-773 F '65. (MIRA 18:11)

KOSENKO, I.S., prof.; GAVRILOV, V.P., red.; KUKAREKA, A.M., tekhn. red.

[Manual for determining families of the higher plants of the Northwestern Caucasus and Ciscaucasia] Posobie dlia opredeleniia semeistv vysshikh rastenii Severo-Zapadnogo Kavkaza i Predkavkaz'ia. Krasnodar, Krasnodarskoe knizhnoe izd-vo, 1963. 35 p. (MIRA 16:12)

1. Kafedra botaniki Kubanskogo sel'skokhozyaystvennogo instituta (for Kosenko).
(Caucasus--Botany--Nomenclature)

OBUKHOV, Andrey Nikolayevich, prof.; GAVRILOV, V.P., red.; DUKHNO, V.I., tekhn. red.

[Medicinal plants, raw materials and preparations] Lekarstvennye rasteniia, syr'e i preparaty. Izd.4. Krasnodar, Krasnodarskoe knizhnoe izd-vo, 1962. 295 p. (MIRA 16:6)
(BOTANY, MEDICAL)

GAVRILOV, V.P.; TURANOV, V.A.; BYKOV, R.I.

History of the development of the southern Aral Sea region in the Cretaceous period. Neftegaz. geol. o geofiz. no.8:15-20 '63. (MIRA 17:3)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akademika Gubkina.

BYKOV, R.I.; MAL'TSEVA, A.K.; TURANOV, V.A.; GAVRILOV, V.P.

Regularities in the distribution of oil and gas fields in the Jurassic sediments of the central part of the Turan Plateau. Trudy MINKHiGP no.43:125-134 '63. (MIRA 17:4)

TURANOV, V.A.; GAVRILOV, V.P.; BYKOV, R.I.; NOSOV, G.N.

Upper Jurassic sediments in the southern Aral Sea Region.
Neftegaz, geol. i geofiz. no.4:11-14 '64. (MIRA 17:6)

1. Moskovskiy ordena Trudovogo Krasnogo Znameni institut neftekhimicheskoy i gazovoy promyshlennosti im. akademika Gubkina i trest "Bukharaneftegaz."

TURANOV, V.A.; GAVRILOV, V.P., aspirant; BYKOV, R.I.

Concerning the stratification of the Lower Cretaceous sediments in the southern Aral Sea region. Izv. vys. ucheb. zav.; geol. i razv. 7 no.11:36-41 N '64. (MIRA 18:5)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. I.M. Gubkina.

GAVRILOV, V.P., inshener; CHURSIN, N.I.

Increasing the efficiency of the gear oil pump of the hydraulic system of C-4m selfpropelled combines. Sel'khozmashina no.11: 24-25 N '56. (MLRA 9:12)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro po samokhodnym kombaynam.
(Combines (Agricultural machinery)) (Gas and oil engines)

GAVRILOV, V.P., inzh.; CHURSIN, N.I.

Causes of foam formation in the hydraulic system of the SK-3 self-propelled combine. Trakt.i sel'khozmash. no.10: 14-17 O '59. (MIRA 13:2)

1. Taganrogskiy kombaynovyy zavod.
(Combines(Agricultural machinery)--Hydraulic equipment)

GAVRILOV, V.P.

How to install a block mechanism in the gear box of SK-3 combines. Mekh. sil'. hosp. 11 no.6:7-9 Je'60. (MIRA 13:11)

1. Taganrogskiy kombaynovyy zavod.
(Combines (Agricultural machinery)--Transmission devices)

DANILOV, V.I. [Danylov, V.I.]; CHURSIN, M.I.; GAVRILOV, V.P.; KAZARNOVSKIY, F.A. [Kazarnovs'kyi, F.A.]

Special problems of operating the electric equipment of SK-3 combines. Mekh. sil'.hosp. 11 no.8:10-14 Ag '60. (MIRA 13:9)

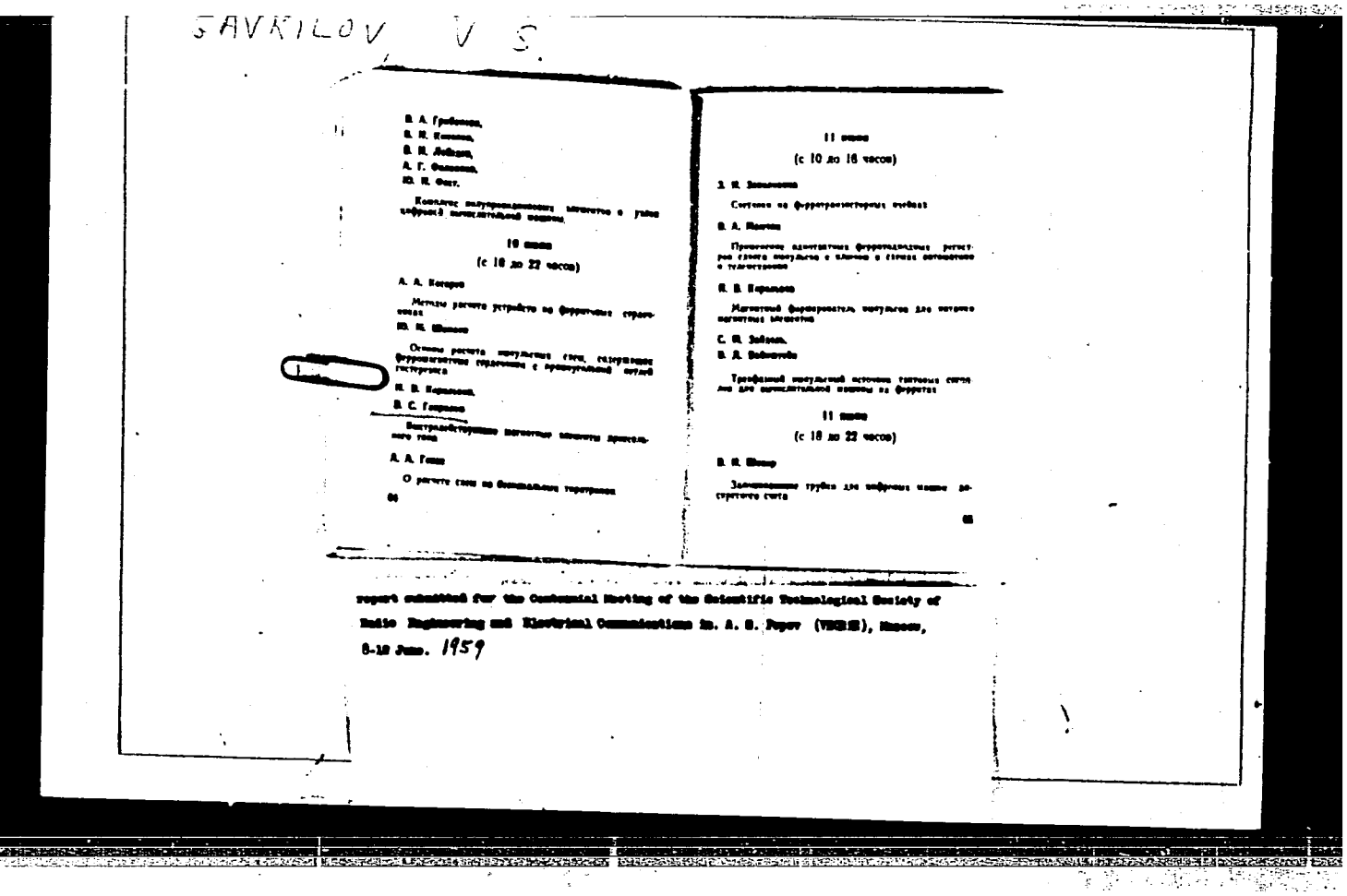
1. Rabotniki Spetsial'nogo konstruktorskogo byuro zavoda "Rostsel'mash" (for Danilov, Chursin). 2. Rabotniki DSKB pri Taganrogskom kombaynovom zavode (for Gavrilov, Kazarnovskiy).
(Combines (Agricultural machinery)-- Electric equipment)

BARVENKO, P.I., GAVRILOV, V.P.

Basis for the dimensions of harvesting machinery for harvesting work in stages. Trakt. i sel'khozmash. 32 no.6:15-17 Je '62. (MIRA 15:6)

(Harvesting machinery)

GAVRILOV, V. S. Cand Tech Sci -- (diss) "Study of the ~~operation~~ performance of elements of reverse-starter systems and of the reversing qualities of ship engines with direct transmission to the screw propeller." Len, 1959. 20 pp with illustrations (Min of Maritime Fleet USSR. Len Higher ~~Engineering~~ Nautical School im Admiral S. O. Makarov), 150 copies (KL, 50-59, 126)



SAVKILOV V S.

report submitted for the Centennial Meeting of the Scientific Technological Society of Radio Engineering and Electrical Communications im. A. S. Popov (VNIIR), Moscow, 8-18 June. 1959

GAVRILOV, V.S.

PHASE I BOOK EXPLOITATION SOV/5235

Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A.S. Popova

100 let so dnya rozhdeniya A.S. Popova; yubileynaya sessiya (One Hundredth Anniversary of the Birth of A.S. Popov; Anniversary Session) [Moscow] Izd-vo AN SSSR, 1960. 312 p. Errata slip inserted. 2,800 copies printed.

Sponsoring Agency: Akademiya SSSR.

Chief Ed.: A.L. Mints, Academician; Editorial Board: S.B. Burdun, A.B. Vol'pert, I. Ye. Gurvich, L. I. Gutenmakher, I.I. Grodnev, N.D. Devyatkov, L.A. Zhekulin, S.I. Katayev, M.S. Neyman, V.I. Siforov, and N.I. Chistyakov; Ed. of Publishing House: L.V. Sosnova; Tech. Ed.: S.G. Markovich.

PURPOSE: This collection of reports is intended for scientists and technicians working in radio engineering and telecommunications.

COVERAGE: The reports included in this collection were submitted at the scientific meeting held in 1959 by the Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A.S. Popova (Scientific and Technical Society of Radio ~~Card 1/7~~

Engineering and Telecommunication imeni A.S. Popov) in commemoration of the 100th anniversary of A.S. Popov's birth. Only 33 of the more than 300 reports submitted at the meeting are included. The remainder are published in the periodicals of the AS USSR, State Committees, the Ministry of Communications, and the Society imeni A.S. Popov. The book contains the reports read at plenary sessions by A.N. Shchukin, Academician, A.A. Pistol'kors, Corresponding Member, AS USSR, and S.I. Adirovich and L.I. Gutenmakher, Professors, as well as those selected as the most interesting given in the following sections by their respective chairmen: Theory of Information, Antenna Systems, Receiving Devices, Wire Communications, Television, Electronics, Radio Measurements, General Radio Engineering, Transmitting Devices, Radio Wave Propagation, Electron Microscopy, Radio Broadcasting, Electroacoustics and Sound Recording, Electronic Computer Engineering, and HF Ferrite Devices. These chairmen were on the Editorial Board which prepared the papers for publication. References accompany most of the reports.

One Hundredth Anniversary (Cont.) SOV/5235

Card 6/7

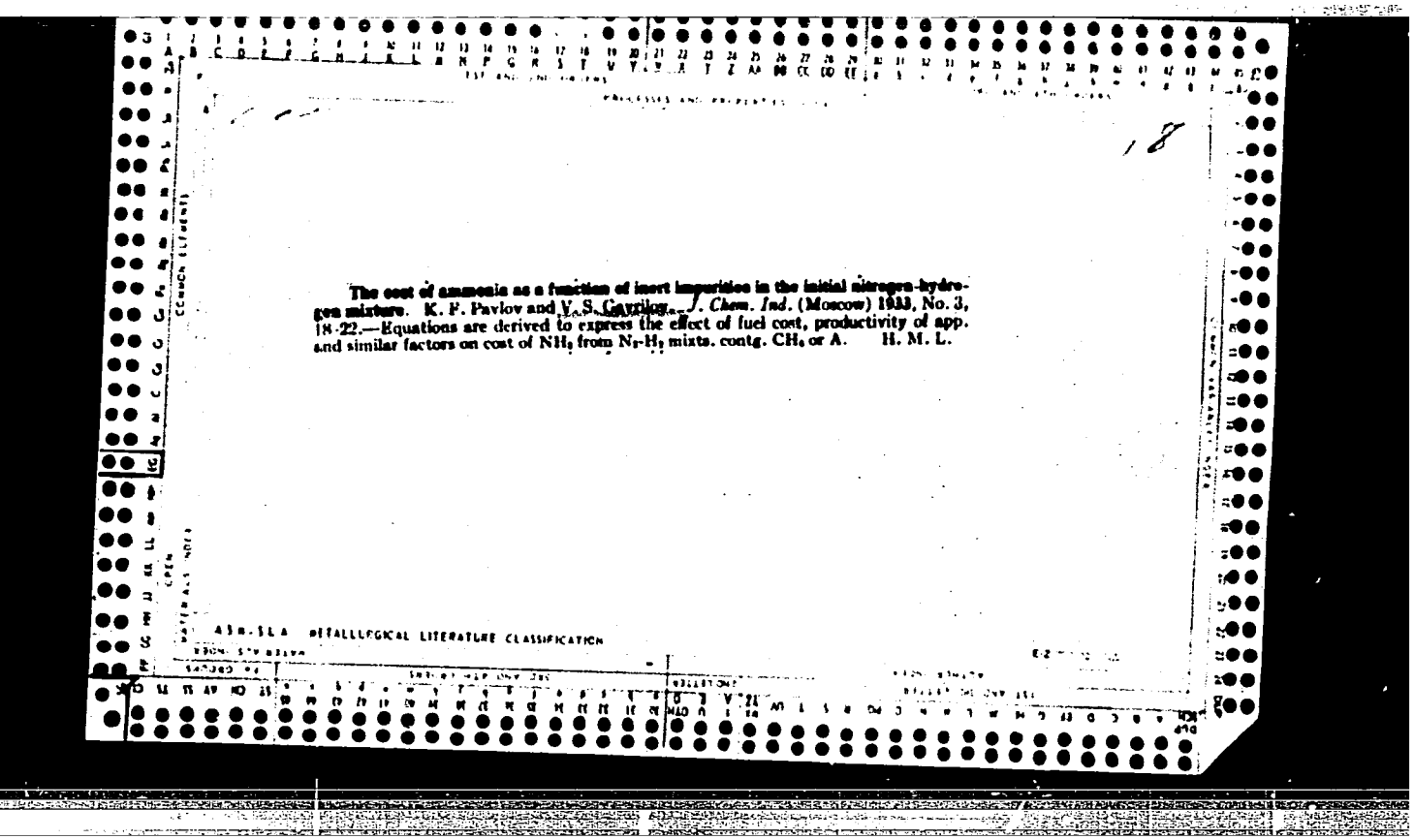
SOBOLEV, S.L.; RYABEN'KIY, V.S., redaktor; GAVRILOV, V.S., tekhnicheskiy redaktor

[Equations of mathematical physics] Uravneniia matematicheskoi fiziki. Izd. 3-e. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1954. 444 p. (MLRA 8:1)
(Mathematical physics) (Equations)

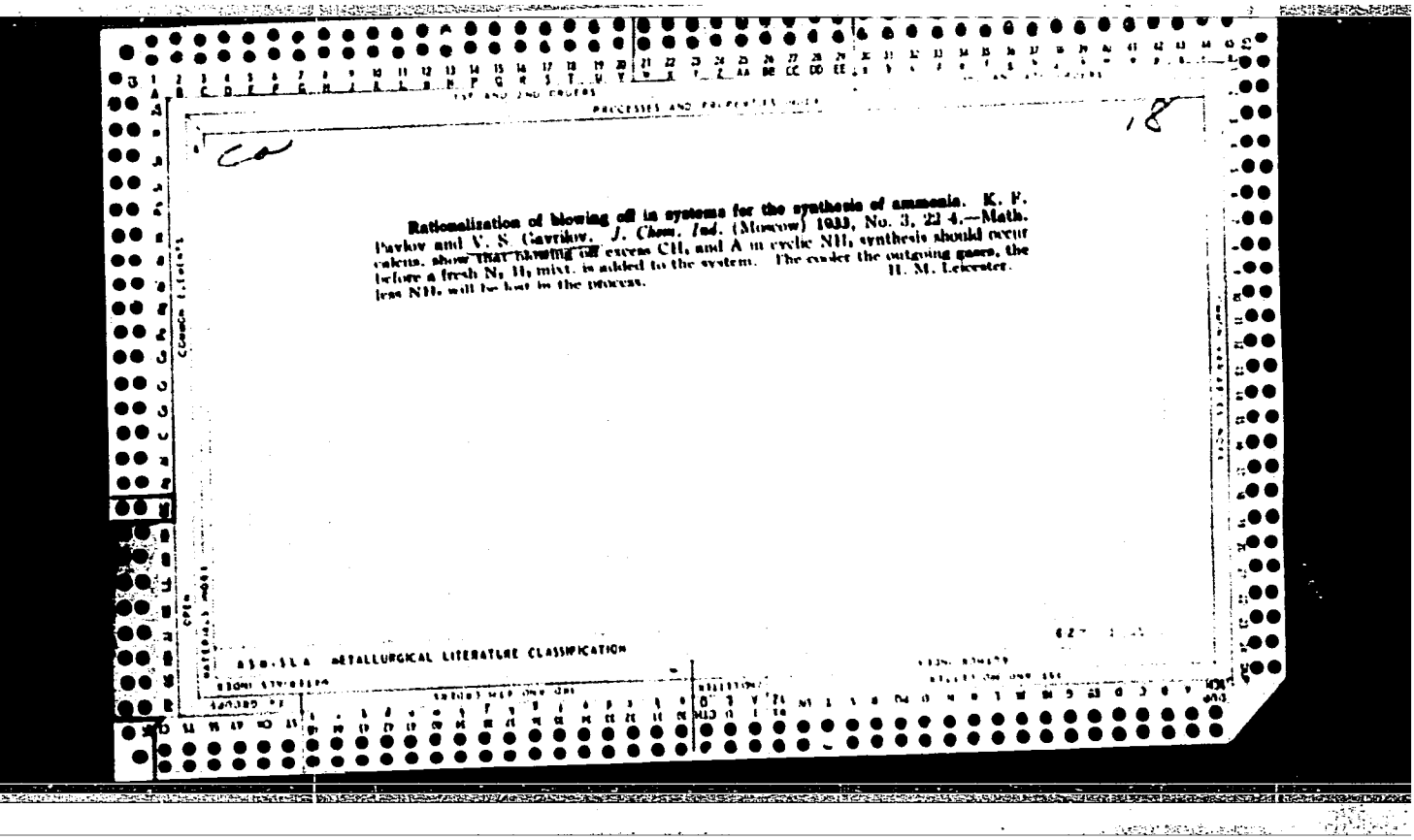
GAVRILOV, V.S., kand.tekhn.nauk

Defrosting the evaporators of refrigerating plants. Biul. tekh.-ekon. inform. Tekh. upr. Min. mor. flota 7 no.8:17-24 '62. (MIRA 16:5)

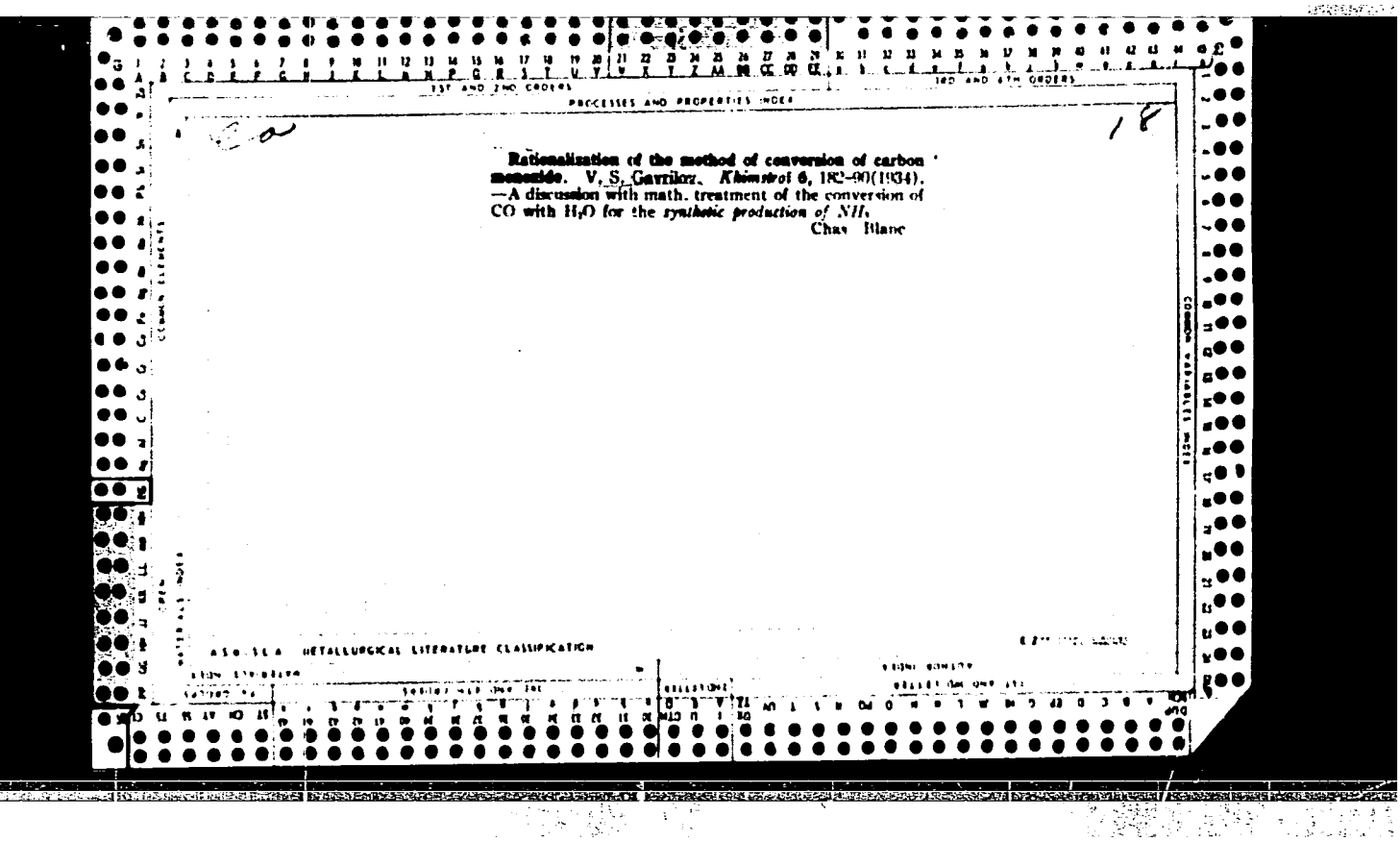
1. Starshiy mekhanik teplokhoda "Abakanles". (Marine refrigeration)



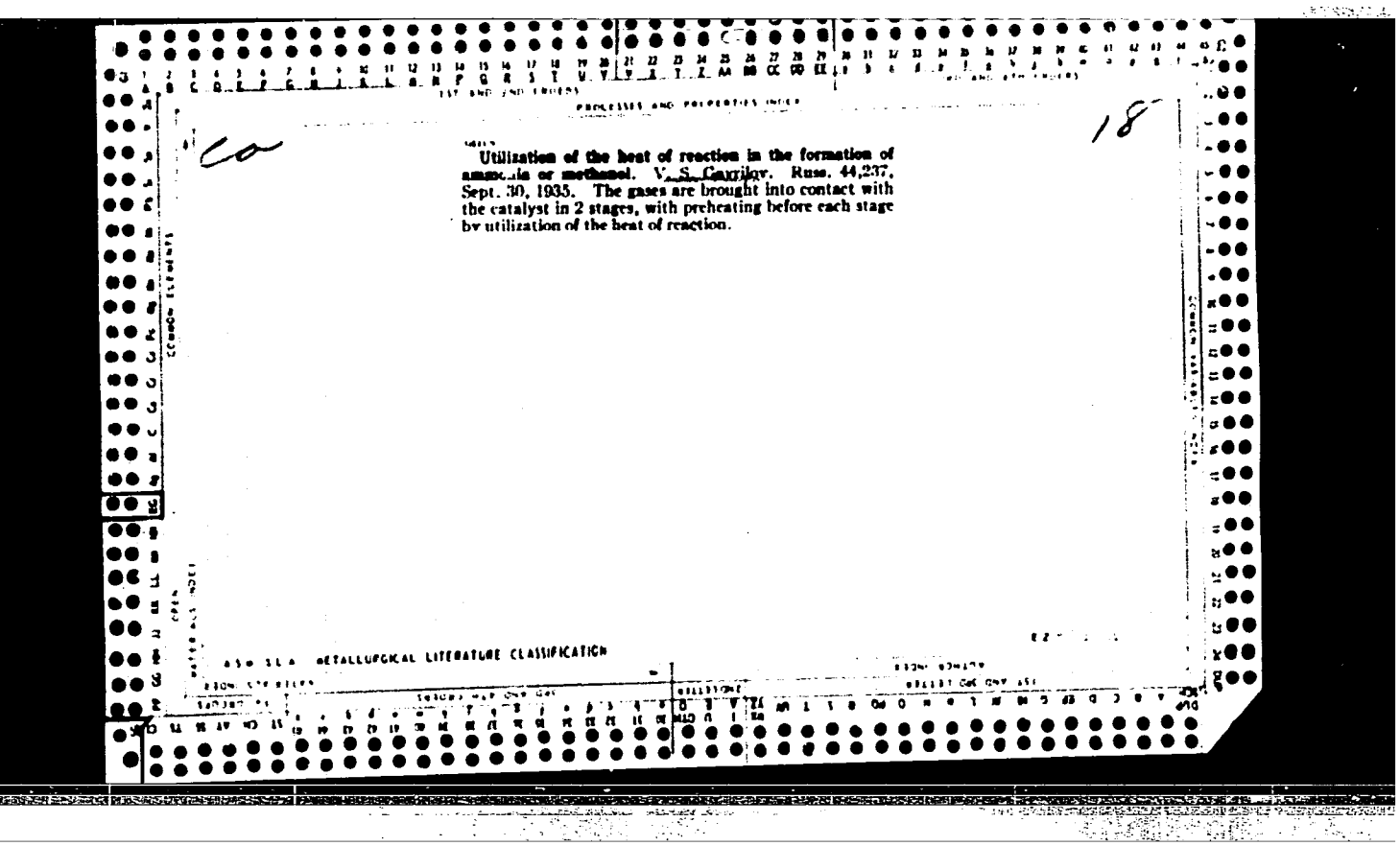
The cost of ammonia as a function of inert impurities in the initial nitrogen-hydrogen mixture. K. F. Pavlov and V. S. Gavrilov. *J. Chem. Ind.* (Moscow) 1933, No. 3, 18-22.—Equations are derived to express the effect of fuel cost, productivity of app. and similar factors on cost of NH_3 from N_2-H_2 mixts. contg. CH_4 or A. H. M. L.



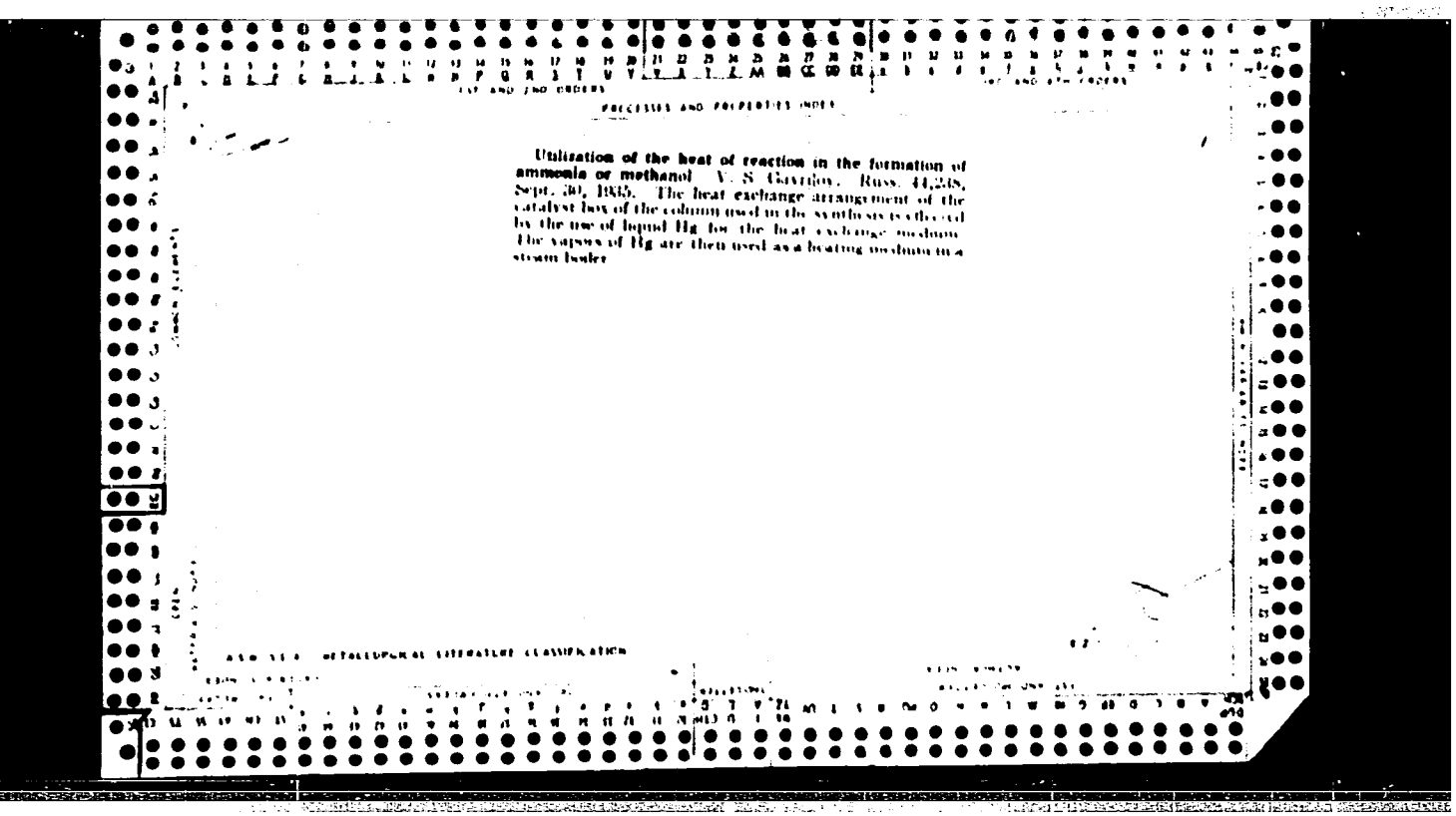
Rationalization of blowing off in systems for the synthesis of ammonia. K. F. Pavlov and V. S. Gavrilov. *J. Chem. Ind.* (Moscow) 1933, No. 3, 22-4.—Math. calcns. show that blowing off excess CH$_4$ and A in cyclic NH$_3$ synthesis should occur before a fresh N$_2$-H$_2$ mixt. is added to the system. The cooler the outgoing gases, the less NH$_3$ will be lost in the mixt. H. M. Leicester.



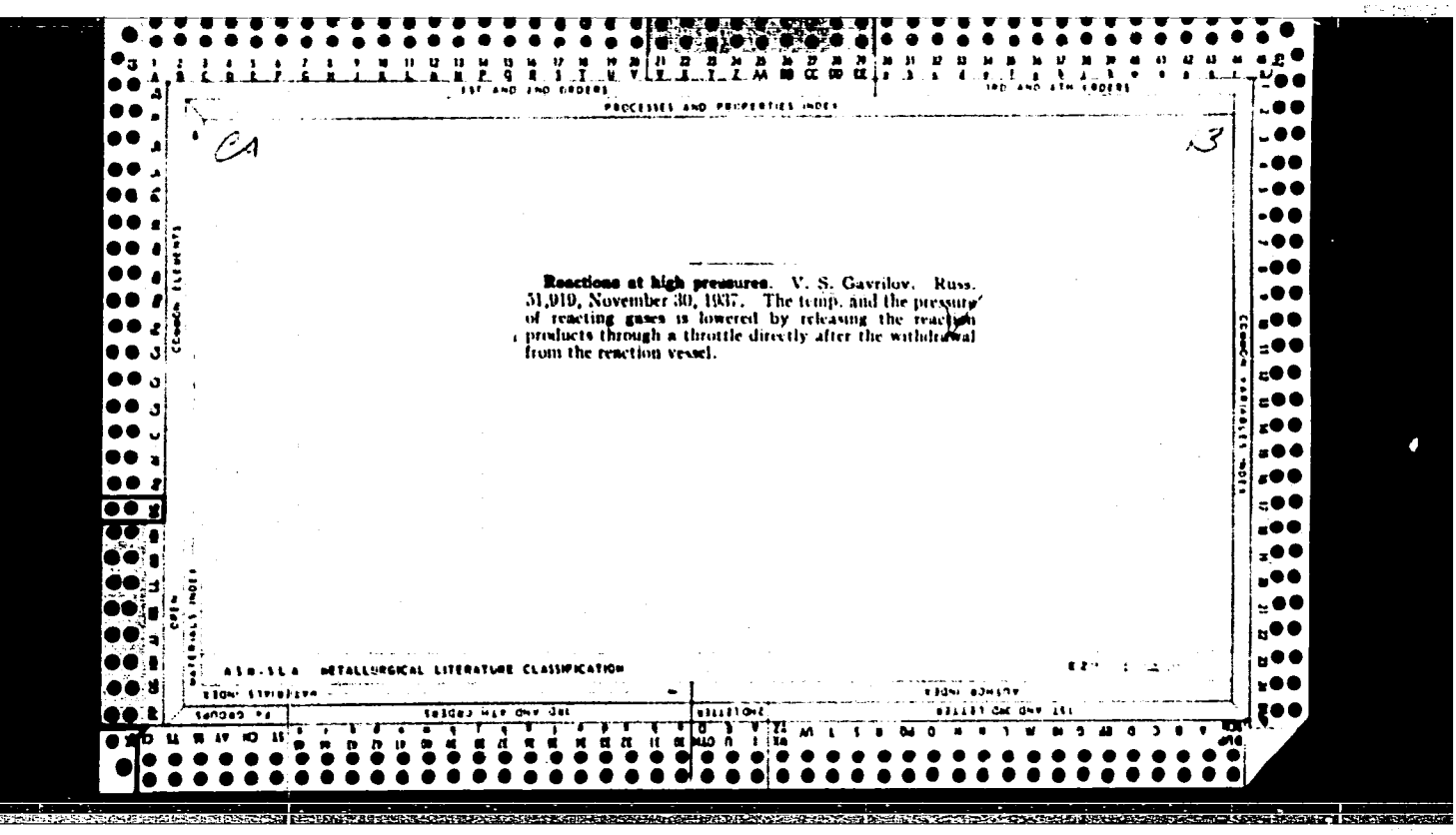
Rationalization of the method of conversion of carbon monoxide. V. S. Gavrilov. *Khimstroi* 6, 182–90(1934). —A discussion with math. treatment of the conversion of CO with H_2O for the *synthetic production of NH*$_3$.
Chas Blanc



Utilization of the heat of reaction in the formation of ammonia or methanol. V. S. Garriiov. Russ. 44,237, Sept. 30, 1935. The gases are brought into contact with the catalyst in 2 stages, with preheating before each stage by utilization of the heat of reaction.



Utilization of the heat of reaction in the formation of ammonia or methanol V. S. Garishin. Russ. 41,248, Sept. 30, 1935. The heat exchange arrangement of the catalyst box of the column used in the synthesis is altered by the use of liquid Hg for the heat exchange medium. The vapors of Hg are then used as a heating medium in a steam boiler



Reactions at high pressures. V. S. Gavrilov. Russ. 51,910, November 30, 1937. The temp. and the pressure of reacting gases is lowered by releasing the reaction products through a throttle directly after the withdrawal from the reaction vessel.

NABIYEV, M.N.; PALETSKIY, G.V.; ANISIMKIN, I.G.; REBENKO, M.; KALININ, Ye.P.; TROFIMOV, S.M.; VURGAFT, G.V.; POPOV, V.S.; KOROL', P.Z.; KULIK, A.A.; KAL'MAN, L.A.; FARBER, S.I.; MATVEYEVA, N.Ye.; GAVRILOV, V.S.; KADYROV, V.K.; IL'YASOV, A.I.; YAKUBOV, S.G.; PROSKURIN, M.P.; NESTERENKO, A.P.; DEZHIN, N.D.; KOCHEROV, V., red.; POPOV, V., red.; SALAKHUTDINOVA, A., tekhn. red.

[Chirchik, a city of major industrial chemical complexes] Chirchik - gorod bol'shoi khimii. Tashkent, Gosizdat UzSSR, 1962. 82 p. (MIRA 16:6)

1. Chlen-korrespondent Akademii nauk UzSSR (for Nabiyev).
2. Rabotniki Chirchikskogo elektrokhimkombinata (for all except Nabiyev, Kocherov, Popov, V., Salakhutdinova).
(Chirchik—Chemical plants)

L 22897-66 EWT(l)/EWT(m)/T/EWP(t) IJP(c) JD/WW/GG
ACC NR: AP6006875 SOURCE CODE: UR/0181/66/008/002/0621/0623

AUTHOR: Gavrilov, V. S.; Shutilov, V. A.

ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet)

TITLE: Electron paramagnetic resonance in nonstoichiometric single-crystal ZnS

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 621-623

TOPIC TAGS: zinc sulfide, single crystal, stoichiometry, crystal impurity, epr spectrum, hyperfine structure, photoconductivity

ABSTRACT: The authors investigated purified hexagonal single crystals of ZnS with different nonstoichiometric composition, grown in different laboratories and possessing different contents of random impurities (of the order of 10^{-4}--10^{-6}%). The investigations were made at 9,340 Mcs with different illumination and orientation of the electromagnetic field relative to the optical c-axis of the crystal. In the case of excess zinc, EPR spectra of identical structure were observed in all cases, exhibiting definite behavior when the crystal was illuminated with light of different wavelengths. The spectra consisted of a central line and six identical hfs components, separated by intervals ~67 oe, and isotropic relative to the orientation of the magnetic field at any temperature (295 and 77K) and any illumination.

Card 1/2

L 22897-66
ACC NR: AP6006875

At certain angles, additional six weak signals appeared, whose intensity relative to the hfs lines depended on the orientation of the field. The intensity of the entire spectrum, other conditions being equal, was proportional to the concentration of the excess zinc atom. The intensities of the hyperfine-structure lines and their satellites did not change upon illumination in any direction, but the intensity and the structure of the main signal was greatly dependent on the brightness and spectral composition of the illumination. Exposure to light containing the entire visible mercury spectrum, increases the central line by approximately 20 times, but reducing the spectral width of the light to 3300--4600 Å increased it by approximately 70 times above the dark signal. Other singularities of the wavelength behavior of the spectrum are briefly discussed. Similar effects were observed in photoconducting semiconductors in the case of EPR signals due to paramagnetic impurities. The phenomenon is explained by assuming that the lattice of the nonstoichiometric ZnS crystal contains Zn^+ ions which cause the observed resonance signals. The hyperfine structure is due to the electrons interacting with the donors. Illumination to light of 3300--4600 Å wavelength increases the concentration of the Zn^+ ions and strengthens the main EPR signal. All other singularities of the spectrum can likeqise be attributed to the influence of the excess Zn^+ ions. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 30Sep65/ OTH REF: 002

Card 2/2 BLG

AID P - 5042

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 13/22

Author : Gavrilov, V. S.

Title : Modernization of grinding disc feeding mechanism in groove-polishing machine.

Periodical : Stan. i instr., 4, 39-40, Ap 1956

Abstract : The author improved the feeding mechanism of the grinding disc in the groove polishing machine "Shmal'ts" by the addition of an electric minimeter to the feeder of the grinding disc, which controls the delicate grooving process. Four drawings.

Institutions: Leningrad Machine-tool Plant im. Il'ich, Saratov and Khar'kov Bearing Plants.

Submitted : No date

AID P - 5047

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 18/22

Author : Gavrilov, V. S.

Title : Assembled-type plug-gages to control petalous matrices

Periodical : Stan. i instr., 4, 43, Ap 1956

Abstract : A more efficient, type (assembled- instead of a solid piece) of plug-gage to control petalous matrices was developed by toolmaker Yavorskiy, A. F. Four drawings.

Institution : None

Submitted : No date

GAVRILOV, V.S., inzhener.

Improving the Reinbohlen machine. Vest. mash. 36 no.6: 64-65 Je '56. (MLRA 9:10)

(Machine tools)

GAVRILOV, V.S., inzhener.

Device for limiting height of lift on electric pulley blocks.
Energetik 4 no;7:28-29 Jl '56. (MLRA 9:9)
(Electric switchgear) (Hoisting machinery)

GAVRILOV, V.S., starshiy inzhener.

Machine for paraffin wax sizing and cutting of wrapping paper.
Bum.prom. 31 no.9:23-24 S '56. (MLRA 9:11)

1. Byuro ratsionalizatsii i izobretatel'stva Khar'kovskogo podshipnikovogo zavoda.
(Sizing (Paper)) (Paper-cutting machines)

Gavrilov V.S

AUTHOR: Gavrilov, V.S., Engineer 117-2-2/19

TITLE: Mechanized Handling of Metal Chips (Mekhanizatsiya transportirovki metallicheskoy struzhki)

PERIODICAL: Mashinostroitel', 1958, # 2, pp 6 - 7 (USSR)

ABSTRACT: The article describes a mechanized chip-handling line running from the automatic-lathe shop of the Khar'kov Bearing Plant (Khar'kovskiy podshipnikovyy zavod) to railroad cars in the plant's yard. Before the mechanization, chips (up to 40 tons daily) were transported manually from the shop to a chip crusher in the yard and from there to the scaffold bridge. The job required 35 workers.

The mechanized line consists of two inclined underfloor pan conveyers - one from the shop to the underground chip crushers and the other from the crushers to the chip bins at the RR siding. The two " " crushers have a capacity of 3 tons/hr.

There are 3 figures.

AVAILABLE: Library of Congress

Card 1/1

AUTHOR: Gavrilov, V.S., Engineer SOV/117-58-12-9/36

TITLE: A Machine for Washing Tubes (Mashina dlya moyki trub)

PERIODICAL: Mashinostroitel', 1958, Nr 12, p 13 (USSR)

ABSTRACT: For the purpose of mechanizing the cleaning of tube billets, a special washing machine was designed consisting of a frame for clogged up tubes; a spraying chamber with a settling tank (the spraying mechanism, consisting of tubes fitted with 240 nozzles); a collecting frame for clean tubes; a centrifugal pump and sucking pipes with filters. The washing liquid (2% soda ash; 0.5% trisodiumphosphate and 97.5% water) is preheated to 65 - 75°C, enters the spraying chamber and is directed to the tubes through the nozzles, under a pressure of 3 - 4 atm. The new machine has saved material, improved work conditions and raised labor efficiency. In one shift, the machine cleans 300 tons of tubes. There is 1 diagram.

Card 1/1

S/194/61/000/008/012/092
D201/D304

9,7100

AUTHORS: Korol'kov, N.V. and Gavrilov, V.S.

TITLE: Fast acting choke-type magnetic elements

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 19, abstract 8 B181 (V sb. 100 let so dnya rozhdeniya A.S. Popova, M., AN SSSR, 1960, 263-270)

TEXT: The possibility is envisaged of increasing the speed of operation and decreasing the power consumption of magnetic elements installations by means of reversing the polarity of magnetization not of the whole but of a part of the cycle of magnetizi[illegible]cha-racteristic. The following circuits are considered using choke-type elements: Binary register circuit, NOT, OR, AND, different polarity, four-input adder and a choke-coupled magnetic amplifier using a single choke-type core. Results are given of certain experiments carried out with the above elements. 9 figures. 8 references.
[Abstracter's note: Complete translation]

Card 1/1

GAVRILOV, V.S.

Organization and mechanization of railroad track work. Zhel.dor. transp. 37 no.6:61-64 Je '56. (MLRA 9:8)

1. Zamestitel' ministra putey soobshcheniya.
(Railroads--Track)

GAVRILOV, V.S.

Immediate tasks in intensifying roadway maintenance. Put' i put. khoz. no.2:1-4 F '57. (MLRA 10:4)
(Railroads--Maintenance and repair)

GAVRILOV, V.S.

Fulfill the yearly plan on schedule in constructing automatic control and communication facilities. Avtom.elem. i sviaz' no.7:1-3 Jl '57. (MLRA 10:8)

1.Zamestitel' ministra putey soobshcheniya.
(Railroads--Signaling)

GAVRILOV, V.S.

For further development of track services. Put' i put. khoz. no.1: 1-4 Ja '58. (MIRA 11:1)

1. Zamestitel' ministra putey soobshcheniya.
(Railroads--Maintenance and repair)

GAVRILOV, V.S.

Immediate tasks for technical progress in track maintenance.
Zhel. dor. transp. 40 no.9:8-14 S '58. (MIRA 11:10)

1. Zamestitel' ministra putey soobshcheniya.
(Railroads--Track)

GAVRILOV, Vladimir Semenovich; FAYNBOYM, I.B., red.; ATROSHCHENKO, L.Ye., tekhn.red.

[Railroad transportation of the U.S.S.R. in 1959-1965] Zheleznodorozhnyi transport SSSR v 1959-1965 godakh. Moskva, Izd-vo "Znanie," 1959. 30 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.4, Nauka i tekhnika, no.24) (MIRA 12:10)

1. Zamestitel' ministra putey soobshcheniya SSSR (for Gavrilov).
(Railroads)

GAVRILOV, V.S.

Our tasks in the forthcoming seven-year plan. Put' i put.khoz. no.1:1-3 Ja '59. (MIRA 12:2)

1. Zamestitel' ministra putey soobshcheniya.
(Railroads—Track)

GAVRILOV, V.S.

Let's carry out the decisions of the 21st Congress of the CPSU.
Avtom., telem., i sviaz' 3 no.2:1-3 F '59. (MIRA 12:4)

1. Zamestitel' ministra putey soobshcheniya.
(Russia--Economic policy)

GAVRILOV, V.S.

Let's carry out the seven-year plan ahead of time. Avtom. telem. i sviaz' 3 no.8:1-4 Ag '59. (MIRA 13:2)

1.Zamestitel' ministra putey soobshcheniya SSSR.
(Electric engineering) (Railroads--Signaling)

GAVRILOV, V.S.; CHEREVKO, P.V.

Increase scientific assistance in solving problems connected with the over-all development of transportation. Zhel.dor.transp. 41 no.3:26-30 Mr '59. (MIRA 12:6)

1. Zamestitel' ministra putey soobshcheniya (for Gavrilov). 2. Zamestitel' ministra rechnogo flota (for Cherevko).
(Railroad research)

GAVRILOV, V.S.; CHEREVKO, R.V.

"Increase scientific assistance in solving problems connected with the over-all development of transportation" by V.S.Gavrilov, P.B.Cherevko. Zhel.-dor.transp. 41 no.9:80 S '59. (MIRA 13:2)

(Transportation)

GAVRILOV, V.S.

Towards new successes in the reorganization of track maintenance and repair. Put' i put.khoz. 4 no.1:1-3 Ja '60. (MIRA 13:5)

1. Zamestitel' ministra putey soobshcheniya SSSR.
(Railroads--Track)

GAVRILOV, V.S.

Track maintenance and operation during the third year of the seven-year plan period. Put' i put. khoz. 5 no. 1:1-3 Ja '61. (MIRA 14:5)

1. Zamestitel' ministra putey soobshcheniya.
(Railroads--Track)

GAVRILOV, V.S.

Track administration on the railroads of the Federal German Republic.
Zhel.dor.transp. 43 no.3:84-90 Mr '61. (MIRA 14:3)

1. Zamestitel' ministra putey soobshcheniya.
(Germany, West—Railroads—Track)

GAVRILOV, V.S.

Railroads of France. Zhel.dor.transp. 42 no.5:83-88 My '60.
(MIRA 13:9)

1. Zamestitel' ministra putey sooobshcheniya SSSR.
(France--Railroads)

GAVRILOV, V.S.

We will dedicate all our efforts to the cause of the victory of communism. Put' i put.khoz. 5 no.11:1-3 N '61. (MIRA 14:12)

1. Zamestitel' ministra putey soobshcheniya SSSR. (Railroads)

GAVRILOV, V.S., kand.tekhn.nauk, vtoroy mekhanik

Performance of starting and reversing gear of SD 72 diesels. Biul.-tekh.-ekon.inform.Tekh.upr.Min.mor.flota 5 no.4:58-67 '60.
(MIRA 15:1)

1. Teplokhod "Berdyansk".
(Marine diesel engines)

GAVRILOV, V.S.

We are taking quick advantage of new technological developments. Avtom., telem.i sviaz' 6 no.1:1-4 Ja '62. (MIRA 15:3)

1. Zamestitel' ministra putey soobshcheniya SSSR.
(Communism) (Railroads—Signaling)

GAVRILOV, V.Sz. [Gavrilov, Vladimir Semenovich]

Railroad transportation in the Soviet Union. Vasut 13 no.12: 1-4 D '63.

1. Szovjetunic kozlekedesugyi miniszterhelyettese.

GAVRILOV, V.S.

Cooperation of socialist countries in the development of transportation. Zhel. dor. transp. 45 no.4:26-31 Ap '63.
(MIRA 16:4)

1. Zamestitel' ministra putey soobshcheniya SSSR.
(Transportation—International cooperation)

GAVRILOV, V.S.

Cooperation of the member-countries of the Council for Mutual Economic Assistance in the field of transportation. Zhel. dor. transp. 46 no.5:17-21 My '64. (MIRA 18:2)

1. Zamestitel' ministra putey soobshcheniya SSSR i zamestitel' rukovoditelya Sovetskoy chasti Postoyannoy Komissii Soveta ekonomicheskoy vzaimopomoshchi po transportu.

GAVRILOV, V.S.

Development of transportation cooperation between the member countries of the Mutual Economic Assistance Council. Zhel. dor. transp. 47 no.7: 12-17 Jl '65. (MIRA 18:7)

1. Zamestitel' ministra putey soobshcheniya SSSR i zamestitel' rukovoditelya Sovetskoy chasti Postoyannoy Komissii Soveta Ekonomicheskoy vzaimopomoshchi po transportu.

GAVRILOV, Vladilen Sergeyevich; GORYANSKIY, Yu.V., red.; KOTLYAKOVA, O.I., tekhn. red.

[Operating refrigerator plants for the storage of food products on merchant ships] Ekspluatatsiia kholodil'nykh ustanovok provizionnykh kamer morskikh sudov. Leningrad, Izd-vo "Morskoi transport," 1963. 194 p. (MIRA 16:8)
(Gold storage on shipboard)

SOLOTAREV, V.I.; PEKSHEV, Yu.A.; LENSKIY, B.V.; AVSENEV, Yu.M.; KISVYANTSKV, L.A.; SHVETSOV, N.I.; TELEGIN, Ya.I.; ZYKOV, A.A.; SENIN, V.P.; NETRUSOV, A.A.; GAVRILOV, V.V.; NIKOLAYENKO, Zh.I.; VOLKOV, N.V.; KALASHNIKOV, A.A.; PLAKSIN, S.V.; POPOV, N.N.; KARSHINOV, L.N.; YAKIMOVA, T.A.; SHALASHOV, V.P.; KOSONOGOV, L.A.; PUSENKOV, N.N.; SLADKOVSKIY, M.I., red.; IVANOV, N.I., red.; LEPNIKOVA, Ye., red.; MOSKVINA, R., tekhn.red.

[Economic development in the people's democracies; review for 1958] Razvitie ekonomiki stran narodnoi demokratii; obzor za 1958 g. Pod red. M.I.Sladkovskogo i dr. Moskva, Izd-vo sotsial'-no-ekon.lit-ry, 1959. 358 p. (MIRA 13:7)

1. Moscow. Nauchno-issledovatel'skiy kon"yunkturnyy institut. (Communist countries--Economic conditions)

ADZHIMOLAYEV, T. A.; GAVRILOV, V. V.

Characteristics of the impedance of the skeletal musculature in dogs at different age periods. Dokl. AN SSSR 147 no.4: 981-984 D '62. (MIRA 16:1)

1. Institut normal'noy i patologicheskoy fiziologii AMN SSSR. Predstavleno akademikom V. N. Chernigovskim.

(MUSCLE) (ELECTROPHYSIOLOGY)

GAVRILOV, V.Ye.

Rebuilding the body of the stuffing box of a valve for ammonia pipe. Khol. tekh. 38 no.4:58 Jl-Ag '61. (MIRA 15:1)
(Valves--Maintenance and repair)

GAVRILOV, V.Ye., inzh.

Improving the design of a smoke damper. Khol. tekh. 38 no.5:61-62 S-O '61. (MIRA 15:1)

(Flues)

GAVRILOV, V.Ye., inzh.

Safety clutch for a carcass hoist. Khol. tekh. 38 no.6:47-48 N-D '61. (MIRA 15:1)

(Hoisting machinery)
(Clutches (Machinery))

ALEKSANDROV, A.A.; GAVRILOV, V.Yu.; KISELEV, A.G.; LAZURKIN, Yu.S.; MOKUL'SKIY, M.A.

Origin of broad electron paramagnetic resonance lines in nucleic acids and their complexes with proteins. Dokl. AN SSSR 141 no.6: 1483-1485 D '61. (MIRA 14:12)

1. Predstavleno akademikom A.F.Aleksandrovym.
(Paramagnetic resonance and relaxation) (Nucleic acids)
(Ferromagnetism)

GAVRILOV, V.Yu.; ZOGRAF, Yu.N.

Characteristics of the biochemical code. Usp.fiz.nauk 77 no.4:597-620 Ag '62. (MIRA 15:8)
(Biochemistry)

GAVRILOV, Ye.G. (Moskva); LARIONOV, M.G. (Moskva)

Teachers' work on innovations and inventions. Fiz.v shkole 21 no.4:110-111 Jl-Ag '61. (MIRA 14:10)
(Inventions) (Teaching—Aid and devices)

GAVRILOV, Ye.G., inzh.; ROBINSON, G.G., konsul'tant

For the information of teachers who are inventors and innovators. Fiz. v shkole 21 no.1:108-110 Ja-F '61. (MIRA 14:9)

1. Byuro po delam ratsionalizatsii i izobretatel'stva Ministerstva prosveshcheniya RSFSR.
(Inventions)

PLOTKIN, S.Ya.; GAVRILOV, Ye.G., inzh.

Brief news. Fiz. v shkole 23 no.5:109-112 S-O '63.
(MIRA 17:1)

1. Institut istorii yestestvoznaniya i tekhniki AN SSSR (for Plotkin). 2. Byuro po delam ratsionalizatsii i izobretatel'stva Ministerstva prosveshcheniya RSFSR.

1. GAVRILOV, Ye. I.

2. USSR (600)

4. Saratov Province - Geology, Structural

7. Report on the Gladkovskiy electric geophysical exploration party. (Abstract.) Izv. Glav.upr.geol.fon. no. 3, 1947.

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

GAVRILOV, Ye. I.

Role of anastomoses between the dentinal canals and the processes of cementum cells. Stomatologiia No 2, 1952.

GAVRILOV, Ye. I.

Reaction of the dental pulp upon the introduction of aseptic foreign body. Stomatologiia No 3, 1952.

GAVRILOV, Ye. I.

Method of surgical therapy of nasal abnormalities. Vest. otorinolar., Moskva 15 no. 1:71-72 Jan-Feb 1953. (CLML 24:1)

1. Docent. 2. Of the Hospital Surgical Clinic, Krasnoyarsk Medical Institute.

GAVRILOV, Ye.I., dotsent.

Data on pulpitis. Stomatologiia no.3:3-8 My-Je '55. (MLRA 8:9)

1. Iz kafedry gistologii (zav.prof. V.G. Yeliseyev) I Moskovskogo ordena Lenina meditsinskogo instituta i kliniki gospital'noy khirurgii (zav.prof. A.M. Dykhno) Krasnoyarskogo meditsinskogo instituta.

(DENTAL PULP, diseases,
pulpitis)

GAVRILOV, Ye.I., dotsent

Blood supply of dental pulp. Stomatologiia 35 no.1:7-11 Ja-F '56. (MLRA 9:6)

1. Iz kafedry gistologii (zav.-prof. V.G.Yeliseyev) I Moskovskogo ordena Lenina meditsinskogo instituta i gospital'noy khirurgicheskoy kliniki (zav.-prof. A.M.Dykhno) Krasnoyarskogo meditsinskogo instituta.

(TEETH--BLOOD SUPPLY)

GAVRILOV, Ye. I., Doc Med Sci -- (diss) "Reaction of dental pulp to various experimental stimuli." Mos, 1957. 18 pp (1st Mos Order of Lenin Med Inst im I. M. Sechenov), 200 copies (KL, 52-57, 110)

GAVRILOV, Ye.I.

"Biology of the pulp of human teeth" [in German] by Gvido Fisher. Reviewed by E.I.Gavrilov. Stomatologiia 36 no.1:72-74 Ja-F '57. (MIRA 11:1)
(TEETH)

EXCERPTA MEDICA Sec 14 Vol 13/8 Radiology Aug 59

1509. CHANGES IN THE DENTAL PULP IN ANIMALS FOLLOWING X-RAY IRRADIATION (Russian text) - Gavrilov E. I. - STOMATOLOGIYA (Mosk.) 1958, 1 (7-11) Illus. 4

Following a historical survey of the work of Kaplan, Bruce, Medak, Weinreb, Sicher, Weinman and Schour, all dealing with changes in the dental pulp in animals, following local X-ray irradiation of the teeth, personal studies are reported. It is stated that there are no reports in the literature concerning dental pulp changes after total irradiation in animals. In the experiment, full-grown dogs were given a dose of 2 times 350 r. (total body irradiation under conditions of depth therapy), and young dogs received a dose of 350 r. (total body irradiation). In the first series the influence of radiation on the time of cutting of the milk teeth, was observed; in the second series, the condition of the pulp was studied in acute radiation sickness; and in the third series the influence of physical factors on the course of inflammation of the pulp was elucidated. This very interesting and original study should be read in full.

Brückner - Paskov.

Chair of Histology, Inst. Moscow
OL Med Inst in I. M. Sechenov
& Chair of Stomatology, Zaporozhe Inst.
Advanced Training of Physicians

GAVRILOV, Ye.I., dotsent

Ulcerating necrotic stomatitis in patients with circulation disorders. Vrach.delo no.6:645-647 Je '59. (MIRA 12:12)

1. Kafedra stomatologii (zav. - dotsent Ye.I. Gavrilov) Zaporozhskogo instituta usovershenstvovaniya vrachey.
(STOMATITIS) (BLOOD--CIRCULATION, DISORDERS OF)

GAVRILOV, Yevgeniy Ivanovich, prof.; LYUDKOVSKAYA, N.I., tekhn. red.

[Manual for nurses in stomatological clinics] Rukovodstvo dlia meditsinskikh sester stomatologicheskikh kabinetov. Moskva, Medgiz, 1961. 130 p. (MIRA 14:12)
(STOMATOLOGY) (NURSES AND NURSING)

GAVRILOV, Yevgeniy Ivanovich, prof.; DANILEVSKIY, N.F., red.; GITSHTEYN, A.D., tekhn. red.

[Biology and pathology of dental pulp; some problems] O biologii i patologii pul'py zuba; nekotorye voprosy. Kiev, Gosmedizdat, USSR, 1961. 170 p. (MIRA 16:7)
(TEETH--DISEASES)

GAVRILOV, Ye.I.

More on the blood supply of dental pulp. Stomatologiia 40 no.2: 86-87 Mr-Ap '61. (MIRA 14:5)

1. Iz kafedry stomatologii (zav. - dotsent Ye.I.Gavrilov) Zaporozhskogo instituta usovershenstvovaniya vrachey (direktor - dotsent V.T.Karpukhin).

(TEETH--BLOOD SUPPLY)

GAVRILOV, Ye.I., prof. (Kalinin)

Duties of the medical nurse in the stomatological department.
Med.sestra 21 no.10:45-50 O '62. (MIRA 16:4)
(DENTISTRY)

GAVRILOV, Ye.I., prof.; KARPENKO, N.I., assistent

Recording the chewing movements of the lower jaw (oscillography). Stomatologiia 41 no.5:69-72 S-O '62. (MIRA 16:4)

1. Iz kafedry ortopedicheskoy stomatologii (zav. - prof. Ye.I. Gavrilov) Kalininskogo meditsinskogo instituta.
(MASTICATION) (OSCILLOGRAPHY)

GAVRILOV, Ye.I., prof.

Controversial problems of the theory of traumatic occlusion.
Stomatologiia 42 no.3:81-83 My-Je '63 (MIRA 17:1)

1. Iz kafedry ortopedicheskoy stomatologii (zav. - prof. Ye.I. Gavrilov) Kalininskogo meditsinskogo instituta.

GAVRILOV, Ye.I., prof.

Place of immediate insertion of dentures within the system of orthopedic treatment. Trudy KGMI no.10:478-481 '63.

(MIRA 18:1)

1. Iz kafedry ortopedicheskoy stomatologii (zav. kafedroy prof. Ya.I.Gavrilov) Kalininskogo gosudarstvennogo meditsinskogo instituta.

GAVRILOV, V. K.

CA

80

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Slag wool and its production. R. K. Gavrilov. *Stroitel. Material.* No. 6, 44-8(1938).—Description of the production process at the Bilimbaevo plant. R. R. S

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION