

L 13347-63

ACCESSION NR: AP3002899

1  
degasification rate with a given period of time as is inversely proportional to the square root of the residual pressure in the chamber. In the kinetic region of the degassing process, a reduction in the amount of residual pressure in the chamber is accompanied by a large rise in the degassing rate. It is not too large in the mixed region and very small in the diffusion region. In the case of a prolonged vacuuming, the hydrogen content in steel is practically identical for all amounts of residual chamber pressure. Orig. art. has: 6 figures and 13 formulas.

ASSOCIATION: Ural'skiy politekhnicheskiy institut (Ural Polytechnic Institute)

SUBMITTED: 21Feb62

DATE ACQ: 24Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 006

OTHER: 004

Card 2/2

KUROCHKIN, K.T.; SUCHIL'NIKOV, S.I.; BAUM, B.A.

Vacuum treatment of liquid aluminothermic chromium. Izv. vys.  
ucheb. zav.; chern. met. 6 no.10:58-61 '63. (MIRA 16:12)

1. Ural'skiy politekhnicheskiy institut.

LEVIN, Ye.S.; KUROCHKIN, K.T.; UMRIKHIN, P.V.

Kinetics of the gas removal process during the inert-gas blowing of metals and simultaneous vacuuming. Izv. vys. ucheb. zav.; chern. met. 6 no.12:38-44 '63. (MIRA 17:1)

1. Ural'skiy politekhnicheskiy institut.

KUROCHKIN, K.T.; BAUM, B.A.; BORODULIN, Ye.K.

Effect of nitrogen on the surface tension of liquid iron. Fiz.  
met.i metalloved. 15 no.3:461-462 Mr '63. (MIRA 16:6)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.  
(Liquid metals) (Surface tension)

REF ID: AFD018175

CONFIDENTIAL - SECURITY INFORMATION 4/3

Page 3

NR 110018175

has 2 formulas and 3 figures

has 2 formulas and 3 figures

NR 110018175

OTHER

**"APPROVED FOR RELEASE: 06/19/2000**

**CIA-RDP86-00513R000927730001-2**

**APPROVED FOR RELEASE: 06/19/2000**

**CIA-RDP86-00513R000927730001-2"**

KUROCHKIN, L.

We introduce new, improved elements. Na stroi. Ros. no.7:17-19  
Jl '61. (MIRA 14:8)

1. Glavnyy inzhener upravleniya stroitel'stva Leningradskogo  
sovnarkhoza.

(Leningrad--Precast concrete)



PA 27T11

KUROCHKIN, L. F.

USSR/Communications  
Hydroelectric Plant

Jan 1947

"Hydro-station for Communications Use," L. F. Kurochkin,  $\frac{1}{2}$  p

"Vestnik Svyazi - Elektrosvyaz'" No 1 (82)

The regions around the Uzbek SSR, the Tadzhik SSR, and the mountains of Caucasia and Altay are rich in mountain streams, which are a good source for electrical power. The author sees no reason why these cannot be adapted for supplying power to radio and telephone stations. He states his argument briefly and concludes by saying that in 1947 there will be sufficient technicians to put this plan into operation by constructing hydro-equipment.

27T11

KUROCHKIN, L.F., inzh.

Mutual checking helps in working. Put' i put. khoz. 7  
no.5:34-35 '63. (MIRA 16:7)

1. Kuvandykaskaya distantiya Kuybyshevskoy dorogi.  
(Railroads—Employees)  
(Socialist competition)

KUROCHKIN, L.I.

A bicycle track in Leningrad. *Biul. tekhn. inform.* 3 no. 4: 22-25  
Ap '57. (MIRA 10:10)

1. Glavnyy inzhener stroytresta No. 101.  
(Leningrad--Bicycle racing) (Building)

~~\_\_\_\_\_~~  
KUROCHKIN, L.I., inzh.

Concrete trussed roof panels. Biul. tekhn. inform. 3 no.12:17-20  
D '57. (MIRA 11:1)

(Roofs, Concrete)

KUROCHKIN, L.I., inzh.

Introduce technical improvements in the construction industry.

Biul. tekhn. inform. po stroi. 5 no.7:18-19 JI '59.

(MIRA 12:10)

(Construction industry--Equipment and supplies)

(Building materials)

S/118/60/000/011/011/014  
A161/A133

AUTHOR: Kuroohkin, L.I., Engineer

TITLE: Television for cranes

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 11, 1960,  
39

TEXT: A report is given on an experiment with a ПТУ-0 (PTU-0) TV-camera on a tower crane in 1959. The experiment had been carried out by Upravleniye No.67 tresta mekhanizatsii stroitel'nykh rabot Leningrada (Directorate No.67 of the Trust of Construction Work Mechanization of Leningrad) in cooperation with the Television Department of Leningradskiy elektrotekhnicheskii institut svyazi (Leningrad Electrotechnical Institute of Communications). The C-419 (S-419) crane was used in the erection of a 5-storied house. The receiving screen was placed in the operator's cabin (Fig.2), the transmitter camera on the jib, 3m from its end (Fig.1). The receiver tube 35ЛК 2Б (35LK2B) is at the same time the feed source of the camera, and the transmitter tube was a "vidikon", the most suitable type for low-skill personnel. The control is on the receiver. The receiver and

Card 1/4

Television for cranes

S/118/60/000/011/011/014  
A161/A133

transmitter were connected by three cables - two coaxial and one screened multicore cable. The power consumption was not above 250w with a 220v network; the weight of the transmitter was 4 kg and of the receiver 32 kg. The manual focusing and diaphragm setting are the drawback of the industrial PTU-0. The transmitter camera was hinged to the jib to prevent deflection of the optical axis at jib movements. The objective was a "Yupiter-12" (F = 3.5 cm). The Directorate will provide 15 tower cranes with TV sets in 1961. An editorial note says that  $\Pi T M - O M 1$  (PTU-OM1) TV sets being produced in 1961 are free of the drawback mentioned in the PTU-0. There are 2 figures.

Card 2/4

KULOGHIN, L.I., inzh.

Improving the general overhauling of building machinery. Lekh.  
stroitel'stvo no. 1:22 Ja '61. (MIRA 14:2)

1. Glavnyy inzhener Upravleniya stroitel'stvom Leningradskogo  
sovmarkhoza.

(Building machinery--maintenance and repair)



KUROCHKIN, L.I., inzh.

A combine for peat. Mekh.stroi. 19 no.3:25-26 Mr '62.  
(MIRA 15:3)

(Peat machinery)

KUROCHKIN, L.I., inzh.

Machinery for construction industry enterprises. Mekh. stroi.  
19 no.4:28 Ap '62. (MIRA 15:9)  
(Construction equipment)

KUROCHKIN, L.I., inzh.

Cylindrical shells in the roof of an industrial building.  
Prom. stroi. 40 no.12:7-9 '62. (MIRA 15:12)  
(Roofs, Shell)

KUROCHKIN, M.

Plasterers and painters are learning to use mobile units. Stroitel'  
no.6:18-19 Je '58. (MIRA 11:7)

1. Starshiy proizvoditel' rabot tresta No.16.  
(Plastering) (Painting, Industrial) (Building machinery)

SHIFRIN, M.A., kand.tekhn.nauk (g.Moskva); SHAPOVALOV, I.S., inzh.;  
KUROCHKIN, M.; YERSHOV, A.V., starshiy nauchnyy sotrudnik;  
SHEVEL'KOV, V.L., prof., doktor tekhn.nauk

Heat engineering standards and regulations in construction  
should be revised. Inzh.-fiz. zhur. 4 no.9:120-126 S '61.

(MIRA 14:8)

1. Issledovatel'skiy institut eksperimental'nogo proyektirovaniya Akademii stroitel'stva i arkhitektury SSSR (for Shapovalov). 2. Tsentral'nyy institut nauchnoy informatsii po stroitel'stvu i arkhitekture Akademii stroitel'stva i arkhitektury SSSR (for Kurochkin). 3. Nauchno-issledovatel'skiy institut po stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR, g. Tashkent (for Yershov). 4. NKhTIMP (for Shevel'kov).

(Building laws) (Heat engineering)

SOV/124-58-10-11596

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 129 (USSR)

AUTHOR: Kurochkin, M. F.

TITLE: Method of Graphoanalytic Determination of Foundation Settling  
(Gráficoanaliticheskiy sposob rascheta osadok fundamentov)

PERIODICAL: V sb.: Dokl. 16-y Nauchn. konferentsii prof. -prepodavat. sostava  
Leningr. inzh.-stroit. in-ta. Leningrad, 1958, pp 146-150

ABSTRACT: Bibliographic entry

Card 1/1

KUROCHKIN, M.F.

Using graphoanalytic methods in calculating the settlement of  
foundations. Osn., fund.i mekh.grun. 2 no.1:20-21 '60.  
(MIRA 13:5)

(Foundations)

POPOVSKIY, B.V., kand. tekhn. nauk; LINEVICH, G.V., inzh.; KUROCHKIN, M.F.,  
inzh.

Construction of large gas holders out of rolls of steel.  
Mont. i spets.rab. v stroi. 24 no.10:4-8 '62. (MIRA 15:10)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.  
(Gas holders) (Steel, Structural)



SUSLIKOV, G.F.; KUROGHKIN, M.G.; YUR'YEVA, N.A.

Experimental treatment of the Satka deposit magne-sites  
in heavy suspensions. Ogneupory 31 no.1:26-30 '66.  
(MIRA 19:1)

1. Krasnoyarskiy metallurgicheskiy zavod "Gitelektrostal'."

KUROCHKIN, M. G.

Tablitsy dlia raschetov so sdatchikami produkcii knonpli  $\sqrt{\quad}$  [Computing tables for heap deliveries]. Gosstatizdat, 1952. 200 p.

SO: Monthly List of Russian Accessions, Vol 6 No 6 September 1953

KUROCHKIN, M. G.

Tablitsy raschetov so sdatchikami produkcii l'na [Computing tables for flax deliveries].  
Gosstatizdat, 1952. 240 p.

SO: Monthly List of Russian Accessions, Vol. 6 No. 6 September 1953

KUROCHKIN, M. I., Cand-Tech Sci -- "Study of <sup>the kinetics of the process of</sup> desorption  
~~kinetics~~ <sup>a</sup> in suspended <sup>layer</sup> matter." Len, 1961. (Min of Higher  
and Sec Spec Ed RSFSR. Len Order of Labor Red Banner Technological  
Inst in Len <sup>Acad</sup> ~~Council~~) (KL, 8-61, 245)

S/123/62/000/003/018/018  
A004/A101

AUTHOR: Kurochkin, M. I.

TITLE: Manufacturing bimetallic bushes using h-f currents

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 3, 1962, 24, abstract 3G166. (V sb. "Avtomatiz. i mekhaniz. v mashinostr." Saratov, 1960, 15-17)

TEXT: The bimetallic bush blank is a steel sleeve of low-carbon steel which is filled with bronze chips and flux. The bronze grade is chosen taking into consideration the operating conditions of the bearing. Borax is used as flux (1.5 - 2% of the weight of the filled-in bronze). The sleeve filled with bronze and flux and covered at the ends with two lids, is placed into the inductor and fixed in the center of the installation. The sleeve is heated by h-f current to a light-red color. Then a motor is switched on and the sleeve, rotating at a speed of 1,200 rpm, is heated until the bronze is molten. This process takes 5 - 15 minutes. After the fusion, the h-f current is switched off, while the sleeve continues to rotate, cooling gradually. The production of bimetallic bushes by the method described makes it possible to cut the labor consumption

Card 1/2

Manufacturing bimetallic bushes using h-f currents

S/123/62/000/003/018/018  
A004/A101

and accelerate their manufacture; moreover, it is possible to considerably lower the consumption of nonferrous metal, both by replacing bronze by steel and by using ferrous metal waste - bronze chips. There is 1 figure.

V. Pryanikova

[Abstracter's note: Complete translation]

Card 2/2

BELOV, N.V.; KUROCHKIN, M.I., konstruktor.

Mechanizing turntables for cars used in unloading brick clay from  
the press. [Suggested by N.V.Belov and M.I.Kurochkin] Rats.i izobr.  
predl.v stroi. no.146:3-6 '56. (MLRA 10:2)

1. Glavnny mekhanik Iguberetskogo zavoda silikatnogo kirpicha (for  
Belov).

(Brickmaking)

*Курочкин, М.И.*  
KUROCHKIN, M.I.

Apparatus used for automatic tilting of T-54 flatcars. Rats. 1 izobr.  
predl. v stroi. no.3:45-51 '57. (MIRA 11:1)  
(Railroads--Freight cars)



KUROCHKIN, M.N., kand.tekhn.nauk

Constructing open-type units for chemical plants. Prom.stroi.  
8 no.7:58-62 '60. (MIRA 13:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut stroitel'stva.  
(Chemical plants--Equipment and supplies)

KUROCHKIN, M.N., kand.tekhn.nauk

Constructing enterprises of the chemical industry. Opyt stroi.  
no.30:4-88 '60. (MIRA 19;11)

(Chemical plants)

GURIN, Yankov Semenovich; KUROCHKIN, Mikhail Nikolayevich; PETROV, G.N.,  
prof., red.; TIMOKHINA, V.I., red.; LARIONOV, G.Ye., tekhn.red.

[Designing d.c. machinery] Proektirovanie mashin postoiannogo  
toka. Pod obshchei red. G.N.Petrova. Moskva, Gos.energ.izd-vo,  
1961. 350 p. (MIRA 14:4)  
(Electric machinery--Direct current)

KUROCHKIN, M.N., kand.tekhn.nauk

Construction of enterprises of the milk, meat, and canning industries.  
Opyt stroi no.35:5-72 '61. (MIRA 15:7)  
(Industrial buildings)

KUROCHKIN, Mikhail Nikolayevich

Use of frog-leg windings in large d.c. machines. Izv.vys.ucheb.  
zav.; elektromekh. 5 no.10:1198-1206 '62. (MIRA 15:11)

1. Nachal'nik sektora rascheta krupnykh mashin postoyannogo toka  
otdela glavnogo konstruktora mashin Khar'kovskogo elektromekhanicheskogo  
zavoda.

(Electric machinery--Direct current) (Electric machinery--Windings)

KUROCHKIN, M.N., kand.tekhn.nauk

Floors of industrial buildings. Opyt zarub. stroi. no.8:99-  
148 '63. (MIRA 16:9)

KURCOVICH, N.S.

Large d.c. machines for use as drives in metallurgical plants.  
Elektrichestvo no.8:53-57 Ag '64.

(MIRA 17:11)

1. Khar'kovskiy elektromekhanicheskiy zavod.

KUROCHKIN, M.P.; KIRILLOV, M.N.

Automatic analyzer of the coke content in a regenerated bead catalyst. Neftoper. i neftekhim. no. 11:41-42 '63.

(MIRA 17:5)

1. Groznenskiy filial Nauchno-issledovatel'skogo i proyektного instituta po kompleksnoy avtomatizatsii v neftyanoy i khimicheskoy promyshlennosti.



KUROCHKIN, N., inzhener.

Give an open road to efficiency promoters and inventors. Grazhd.av.  
13 no.12:3-4 D '56. (MLRA 10:2)  
(Aeronautics, Commercial)

SOV/84-59-9-30/66

32(1)

AUTHOR: Kurochkin, N., Chief Engineer for Inventions

TITLE: A Saving : 6,000,000 Rubles

PERIODICAL: Grazhdanskaya aviatsiya, 1959, Nr 9, pp 18-19 (USSR)

ABSTRACT: This is a survey of the principal improvements and inventions made by Aeroflot personnel in the fields of automation, improvement of aviation materials, mechanization of labor-consuming work processes and in the equipment used by the Aviatsiya spetsial'nogo prime-neniya (Aviation for Special Assignments). The imple-mentation of only 14% of the submitted proposals and inventions has saved the country over 6,000,000 rubles. Efficiency experts of the Severo-Kavkazskoye upravleniye (North-Caucasian Administration) N. Zhirnov, V. Petrov-skiy and Z. Keller in 1954-56 worked out a system of complex automation and remote control of equipment used in landing control. In 1957, the installation directed by I. Ivasik constructed an automatic ma-

Card 1/3

SOV/84-59-9-30/66

A Saving: 6,000,000 Rubles

chine for washing aircraft engine parts. In 1958, the installation directed by Kh. Izmiryan constructed an automatic line for washing aircraft engine parts. Efficiency experts V. Ferenets, Ye. Vishnyak and V. Pinchuk also worked out a semi-automatic line for washing the aircraft and the aircraft engine parts. Efficiency experts and inventors of the GosNII GVF S. Ochkov, M. Shtern V. Il'chishin, Ye. Krivousova and I. Markov improved an apparatus of the glide path landing control system. Inventors Baranovskiy and Khaymovich worked out an attachment to the aircraft special equipment enabling Soviet aircraft to land on foreign airports with the use of the ILS method of landing. Inventor G. Protasov invented an instrument "Signalizator vysoty" (Altitude Signalizer) warning the pilot, by light and by sound, of having reached a dangerous altitude of descent, when flying over precision approach localizers. This instrument has been put into serial production and is installed

Card 2/3

SOV/84-59-9-30/66

A Saving: 6,000,000 Rubles

in every airplane. Inventors P. Ivanov, B. Khristenko, P. Oshkin and M. Koshevoy have worked out a tire-stripper for the Tu-104, Il-14, and other aircraft, which will be used in all units of Aeroflot. Efficiency experts A. Epshteyn, N. Pantegov, S. Tsimbalyuk, S. Aranin and G. Ushakova have constructed a self-propelled X-ray laboratory for X-raying hermetic aircraft cabins. Inventor A. Lebedev invented a power testing installation for helicopter power units. Inventors S. Popov, P. Baranov, D. Yepisheva and S. Kalibernov invented a special duster of poisonous chemical powders for An-2 aircraft, put into production. Efficiency experts of the Ukrainskoye Upravleniye (Administration) Konovalov and Lagutochkin constructed a loader of loose chemicals, for the An-2 aircraft. ✓

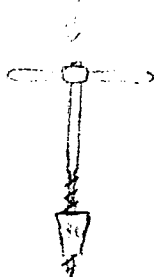
ASSOCIATION: GUGVF

Card 3/3

KUROCHKIN, N.A.

Device for extracting corks from bottles. Spirt.prom. 21 no.1:37 '55.  
(MIRA 8:5)

1. Urzhumskiy likero-vodochnyy zavod.  
(Liquor industry—Equipment and supplies)



KURONKIN, N. I.

4Chem

(3)

Structure of 1,6-dioxaspiro[4.4]nonane. A. A. Ponomarev  
 V. A. Aland's cv. and N. I. Kuronkin. Doklady Akad. Nauk  
 S.S.S.R. 87, 983-6 (1952); cf. Burdick and Adkins, C.A.  
 28, 4055; Farlow, et al., C.A. 29, 775. Condensation of  
 AcH with 5-methylfurfural gave 28% 3-(2-methyl-5-furyl)-  
 2-propanal, b<sub>p</sub> 98-100°. This hydrogenated over Cu chromi-  
 te catalyst at 120° and 120-35 atm. in EtOH gave 75%  
 3-(2-methyl-5-furyl)-1-propanol, b<sub>p</sub> 97-9°, n<sub>D</sub><sup>20</sup> 1.4775, d<sub>4</sub><sup>20</sup>  
 1.0322, which, hydrogenated over Ni-kieselguhr at 150 atm.  
 and 120° in EtOH, gave 2 products: 3-(2-methyl-5-tetra-  
 hydrofuryl)-1-propanol, b<sub>p</sub> 111-13°, n<sub>D</sub><sup>20</sup> 1.4635, d<sub>4</sub><sup>20</sup> 0.9972,  
 and 2-methyl-1,6-dioxaspiro[4.4]nonane, b<sub>p</sub> 162-4°, n<sub>D</sub><sup>20</sup>  
 1.4412, d<sub>4</sub><sup>20</sup> 0.9920, n<sub>D</sub><sup>20</sup> 1.4423 (15.0% yield) (cf. Alexander,  
 et al., C.A. 46, 1535e). Me<sub>2</sub>CO and 5-methylfurfural gave  
 4-(2-methyl-5-furyl)-3-buten-2-one, b<sub>p</sub> 105.5-7.0°, m. 35-0°.  
 This hydrogenated over Cu chromite at 88-95 atm. and 120°  
 in EtOH gave 80.5% 4-(2-methyl-5-furyl)-2-butanol, b<sub>p</sub>  
 130.5-8.0°, n<sub>D</sub><sup>20</sup> 1.4760, d<sub>4</sub><sup>20</sup> 1.000, which hydrogenated  
 over Ni-kieselguhr at 130-40 atm. and 120° gave: 73.6%  
 4-(2-methyl-5-tetrahydrofuryl)-2-butanol, b<sub>p</sub> 134-0°, n<sub>D</sub><sup>20</sup>  
 1.4542, d<sub>4</sub><sup>20</sup> 0.9574, and 3.1% 2,7-dimethyl-1,6-dioxaspiro-  
 [4.4]nonane, b. 167-0°, n<sub>D</sub><sup>20</sup> 1.4389, d<sub>4</sub><sup>20</sup> 0.9594, which gives a  
 positive Tollen test. These results indicate that the  
 hydrogenation of furan aldehydes leads to tetrahydrofuran  
 alcs. which on further hydrogenation either yield satd.  
 furan alcs. or the spiro derivs. Thus, hydrogenation of  
 furfurylideneacetone and 3-(2-methyl-5-furyl)-2-propanal  
 should yield 2-methyl-1,6-dioxaspiro[4.4]nonane, along  
 with the satd. furan alcs., confirming the identity of the 2  
 five-atom rings in such compds. which is possible only in  
 spiro derivs.

G. M. Kosolapoff -

MF  
7-28-54

A. V-48  
m10, 1954  
Genie Chemistry

PONOMAREV, A.A.; AFANAS'YEV, V.A.; KUROCHKIN, M.I.

Study of furan compounds. Part 3. Structure of 1,6-dioxaspiro-(4,4)-nonanes  
and the mechanism of their formation. Zhur.ob.khim. 23 no.8:1426-1430 #8 '53.  
(MLRA 6 8)

1. Kafedra organicheskoy khimii Saratovskogo Gosudarstvennogo universiteta im.  
N.G.Chernyshevskogo. (Oxaspirononanes)  
(CA 47 no.22:12344 '53)

KURCCHKIN, N. I.

KURCCHKIN, N. I.: "The dual reactivity and tautomerism of the acid ethers of alkyl thiophosphinic acids and their salts." Moscow, 1955. Acad Sci USSR. Inst of Organoelemental Compounds. (Dissertation for the Degree of Candidate of Chemical Sciences)

SO: Knizhnaya Letopis' No. 47, 19 November 1955, Moscow.



"APPROVED FOR RELEASE: 06/19/2000

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*ALIPHATIC, N.I.*

KABACHNIK, M.I.; MASTRYUKOVA, T.A.; KUROCHKIN, N.I.; RODIONOVA, N.P.; POPOV,  
Ye.M.

Reactivity of alkali salts of alkylthiophosphinic acid esters.  
Alkylation and acylation. Zhur. ob. khim. 26 no.8:2228-2233 Ag '56.  
(MLRA 10:11)

1. Institut elementoorganicheskikh soedineniy AN SSSR.  
(Phosphinic acid) (Alkylation)

24818  
S/081/61/000/011/010/040  
B105/B203

5.3400

AUTHORS: Redoshkin, B. A., Shushunov, V. A., Kurochkin, N. I.  
TITLE: Oxidation kinetics of cyclohexyl benzene by oxygen  
PERIODICAL: Referativnyy zhurnal, Khimiya, no. 11, 1961, 62-63, abstract  
118451. (Tr. po khimii i khim. tekhnolog. (Gor'kiy), 1960, vyp.  
1, 3-8)

TEXT: The rate of oxidation of cyclohexyl benzene (I) does not depend on the pressure  $p$  of  $O_2$  at  $p > 200$  mm Hg and on the initial amount of (I); with temperature increasing from 115 to 140°C, it grows rapidly. The apparent activation energy of the gross process is equal to 24 kcal/mole. The yield in hydrogen peroxide of (I) drops during the reaction which, in the authors' opinion, indicates the presence of induced decomposition of the hydrogen peroxide of (I), as well as an acceleration of its thermal decomposition under the action of the decomposition products.  
[Abstracter's note: Complete translation.]

Card 1/1

KUROCHKIN, N.N.

Determining the heating surface of mine heating units. Zap. LGI  
47 no.1:90-91 '62. (MIRA 16:5)  
(Mine ventilation--Cold weather operations)

ASATUR, K.G.; KUROCHKIN, N.N.; KAL'M, A.A.

Capacity of the fan drives of heating units. Zap. IGI 47 no.1:  
92-95 '62. (MIRA 16:5)  
(Mine ventilation--Cold weather operations) Fans, Electric)



KUROCHKIN, N.N.

25683

Tipy kamer Gorennya gazoturbinnnykh Ustanovok i soobrazheniya k ikh vyboru. Energet  
Byulleten', 1949, No. 7, s. 24-29.

SO: LETOPIS' No. 34

PA 150T38

KUROCHKIN, N. N.

USSR/Engineering - Turbines, Gas

Oct 49

"Significance of Pressure Losses in Gas-Turbine Combustion Chambers," N. N. Kurochkin, 4 pp

"Energet Byul" No 10

Generation of hot compressed gases in combustion chambers is associated with pressure losses, caused by aerodynamic effects of mixing primary air with fuel and mixing combustion products with cooling air and by friction and local resistances. These pressure losses reduce power of installation. Shows that, when gas temperature before admission to turbine is 650-750° C (most commonly used) a 1% pressure loss will cause a 2.0-2.5% drop in efficiency.

150T38

KUROCHKIN, N. N.

PA 152724

USSR/Engineering - Turbines, Gas  
Stresses, Thermal

Nov 49

"Temperature Stresses in the Combustion-Chamber  
Metal of Gas Turbines," N. N. Kurochkin, 3 1/4 pp

"Energet Byul" No 11

Present formulas and graphs for calculating temperature stresses in the walls of gas turbine combustion chambers. Discusses effects of creep. Includes three graphs.

152724

KUROCHKIN, N. N.

PA 161T51

USSR/Engineering - Combustion Chambers  
Turbines, Gas Feb 50

"Influence of Basic Parameters on the Working  
Process in Gas Turbine Combustion Chambers," N. N.  
Kurochkin, 9 pp

"Energet Byul" No 2

Presents results of investigation on simple annular  
combustion chamber with unperforated flame tube.  
Basic parameters are coefficient of excess primary  
air, air inlet temperature, gas temperature, mean  
flame tube temperature, and heat stress of combus-  
tion chamber. Each of them was varied in turn, the

161T51

USSR/Engineering - Combustion Chambers Feb 50  
(Contd)

others being kept constant. Plots results and  
states conclusions.

161T51

PA 161T56

KUROCHKIN, N. N.

USSR/Engineering - Boilers, Oil-Fired  
Fuels

May 50

"New System for Delivering Starting Fuel," N. N.  
Kurochkin, 2 $\frac{1}{2}$  pp

"Energet Byul" No 5

When lighting up an oil-fired boiler from cold, it is convenient to start with Diesel fuel and then change over to heavy fuel oil. Describes system for doing this, giving line diagram of pipelines. Main feature of system is Diesel fuel reservoir, connected in parallel with fuel oil pump discharge line.

161T56

MITOCHIN, N. N.

Pumping Machinery

Peculiarities and characteristics of high pressure screw fuel pumps, *Energ. biul.*,  
No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

KUROCHKIN, N.N., dotsent, kandidat tekhnicheskikh nauk.

[Fundamentals of the theory of steam power engineering] Osnovy teorii  
paresilovykh ustanovok; rukovodstvo dlia shkol masterov. Moskva, Gos.  
nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1953.  
264 p.

(MLBA 6:8)

(Steam engineering)

KUROCHKIN, Nikolay Nikolayevich; CHERNIN, Ye.M., redaktor; ZARODINA, A.A.,  
tekhnicheskij redaktor.

[Combustion chambers of gas turbines] Kamery gorenia gazoturbinnnykh  
dvigatelei. Moskva, Gos.energ.ind-vo, 1955. 122 p. (MIRA 8:5)  
(Gas turbines)



ASATUR, K.G., docent, kand. tekhn. nauk; KAMAROV, V.B., prof., doktor tekhn. nauk; KURCCHIKIN, B.H., docent, kand. tekhn. nauk; SEVERIN, L.P., docent, kand. tekhn. nauk

Temperature of air heating in main heating units. Ugol' 38 no. 3:56-57  
Mr 163. (MIRA 18:3)

1. Leningradskiy gornyy institut im. G.V. Pluchhaneva.

KUROCHKIN, N. S.

Textile research

Results of creative cooperation between the workers of the Dedovskaja factory and of the Central Research Institute of the Cotton Industry.,  
Tekst. prom., no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1957, Uncl.  
2

KUROCHKIN, N.S.

Utilizing production reserves more extensively. Tekst.prom.14 no.2:  
4-5 P '54. (MLRA 7:5)

1. Direktor Dedovskoy kordnoy fabriki. (Textile industry)

KUROCHKIN, N.S.; KARLOV, K.A., glavnyy inzhener.

Work organization for spinners, bobbin removers, and top-roll  
cheaters. Tekst.prom. 15 no.12:8-9 D '55. (MLRA 9:3)

1. Direktor Dedovskoy kordnoy fabriki (for Kurochkin).  
(Spinning)

KUROCHKIN, N.S.

Modernization of equipment and mechanization of auxiliary  
operation. Takst.prom. 19 no.10:60-65 0 '59. (MIRA 13:1)

(Cotton machinery)

KUROCHKIN, N.S.

Valuable initiative of V.Matveova's brigade. Tekst.proz. 21  
no.7:95-96 J1 '61. (MIRA 14:8)

1. Direktor Orekhovskogo khlopchatobumazhnogo kombinata imeni  
Nikolayevoy.  
(Orekhovo-Zuyevo--Textile factories--Labor productivity)

ACCESSION NR: AP4042792

S/0020/64/157/003/0577/0579

AUTHOR: Kurochkin, N. V.

TITLE: Effect of mechanical properties of materials on the productivity and specific energy in ultrasonic working

SOURCE: AN SSSR. Doklady\*, v. 157, no. 3, 1964, 577-579

TOPIC TAGS: ultrasonic machine tool, ultrasonic grinding, metal removal, mechanical property

ABSTRACT: Results are presented of an investigation of the dependence of the productivity and energy consumed (per cubic millimeter of material destroyed by ultrasonic working on the mechanical properties of the worked material). Ultrasonic working was done in a benzene suspension (to avoid the adsorption of active components of the medium) of boron carbide at a tool frequency of 18.5 kcs and an amplitude of 21 microns, and under a tool compression force of 1 kg.

Card 1/4

ACCESSION NR: AP4042792

The tool was a 5 mm cylindrical end piece of silver steel. Tests of various materials under different conditions have shown that the productivity and specific energy of ultrasonic working of solids depends mostly on the brittleness. The higher the brittleness, other conditions being equal, the greater the productivity and the lower the energy. The higher the ultimate strength of the material, the lower the energy and the lower the productivity. Orig. art. has: 2 figures, 1 formula, and 2 tables. Report presented by P.A.Rebinder.

ASSOCIATION: Orlovskiy gosudarstvennyy pedagogicheskiy institut  
(Orlov State Pedagogical Institute)

SUBMITTED: 26Mar64

ENCL: 02

SUB CODE: IE

NR REF SOV: 003

OTHER: 001

Card 2/4



ACCESSION NR: AP4042792

ENCLOSURE: 01

Mechanical properties of tested materials

	1	2	3	4	5	6	7
	Алюминий	Медь	Свинец	Цинк	Железо	Сурьма	Стекло
δ, %	45	47	57	34	45	0	0
ψ, %	0,3	80	97	—	80	0	0
σ <sub>н</sub> , кг/мм <sup>2</sup> Кр/лтп <sup>3</sup>	7,8	22	1,0	13	20	0	5
Микротвердость 8	21	45	8	40	80	77	—
Производительность, мм <sup>2</sup> /мин 9	1,0	0,9	1,7	1,4	0,87	29	31
Выделяемая мощность, вт 10	1,37	1,36	1,12	1,20	1,30	0,8	0,81
Удельная энергия, Дж/мм <sup>3</sup> 11	155	253	120	160	252	5	4,7

1 - aluminum, 2 - copper, 3 - lead, 4 - zinc, 5 - iron, 6 - antimony, 7 - glass  
 8 - microhardness, 9 - productivity, mm<sup>2</sup>/min, 10 - power released, watts,  
 11 - per unit energy, J/mm<sup>3</sup>

Card 3/4

ACCESSION NR: AP4042792

ENCLOSURE: 02

Results of annealing and work hardening

	12 Сталь У-8		1 Алюминий		2 Медь	
	13 сырая	16 закалсн.	14 отожжен.	15 накалсн.	отожжен.	накалсн.
δ, %	10	1,0	45	5	49	3
ψ, %	13	1	0,3	70	80	50
Микротвердость 8	200	1000	21	32	45	118
Проводимость, мм <sup>2</sup> /мин	9	0,45	0,41	1,6	1,8	0,9
Удельная энергия, Дж/мм <sup>2</sup>	10	324	358	155	133	264
						232

12 - steel U-8, 13 - raw, 14 - annealed, 15 - work hardened, 16 - quenched

Card 4/4

N L 13182-66

25  
B

ACC NR: AP6001836 SOURCE CODE: UR/0375/65/000/010/0065/0069

AUTHOR: <sup>44, 55</sup> Kurochkin, N.V. (Major of medical services)

ORG: none

TITLE: Preparation of ship systems for fresh water storage

SOURCE: Morskoj sbornik, no. 10, 1965, 65-69

TOPIC TAGS: shipbuilding engineering, fresh water, ship component, *water purification*

ABSTRACT: The article describes in detail how to make a ship system for fresh water storage operational. It covers in particular the cleaning of the tank and pipes, the cementing of tanks (avoiding sulfate cements which make water unfit for drinking), the disinfection of the drinking water system, the testing of the system, the amounts of cement needed, and the general organization of work (including the time needed for completing each phase of operation).  
Orig. art. has: 1 table.

SUB CODE: 13 / SUBM DATE: none

Card 1/1 HW

L 1638-66 EWT(m)/EMP(w)/EPF(c)/EWA(d)/T/ENP(t)/EWP(b)/EWA(h)/EWA(c) IJP(c)  
JD/WB

ACCESSION NR: AP5014852

UR/0020/65/162/003/0549/0551

50  
44  
B

AUTHORS: Kurochkin, N. V.; Likhtman, V. I.

44,55 44,55

TITLE: Influence of surface-active substances on processes occurring in ultrasonic metal finishing

SOURCE: AN SSSR. Doklady, v. 162, no. 3, 1965, 549-551

TOPIC TAGS: surface active agent, ultrasonic machining

ABSTRACT: The authors investigated in detail the influence of different surface-active substances and the efficiency of ultrasonic metal finishing, depending on the nature of the substances, on the orientation, the type of solvent, the temperature, and viscosity. The metals investigated were copper, aluminum, iron, nickel, zinc, and lead, in pure form. The experiments were carried out at 18.5 kos and an amplitude of 23 μ. The tool used was a silver steel cylindrical indenter 5 mm in diameter. The surface active substances were oleinic, capric, and enanthic acids and decyl and butyl alcohol, and the solvents were benzene, mineral oil, and undecane. The abra-

Card 1/4

L 103 16

ACCESSION NR: AP5014852

2

sive was finely powdered boron carbide. A typical plot of the relative amount  $V/V_0$  of metal removed by ultrasonic means ( $V$  -- metal removed in milligrams per minute in an active medium,  $V_0$  -- in pure solvent) against the concentration of the active component (acid) is shown in Fig. 1 of the Enclosure and is typical of all tested metals except lead, for which the productivity decreases somewhat in the presence of surface-active substances. The results are interpreted in light of the effect of the molecules from the carbon chain of the adsorbed surface-active material on the friction between the abrasive and the metal. The distinctive behavior of lead is attributed to its easy recrystallization.<sup>4</sup> The temperature dependence of the effect was also studied and the results show that the maximum effect of the surface-active substances occurs at 35 -- 40°. Neither the frequency (10 -- 20 kcs) nor the amplitude (23 -- 38  $\mu$ ) exerted a noticeable influence on the finishing process. This report was presented by P. A. Rebinder. Orig. art. has: 2 figures.

Card 2/4

L 1638-66

ACCESSION NR: AP5014852

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (In-  
stitute of Physical Chemistry, Academy of Sciences, SSSR) <sup>44,55</sup> 3

SUBMITTED: 30Nov64

ENCL: 01

SUB CODE: IE,MM

NR REF SOV: 006

OTHER: 001

Card 3/4

L 1638-66

ACCESSION NR: AP5014852

ENCLOSURE: 01

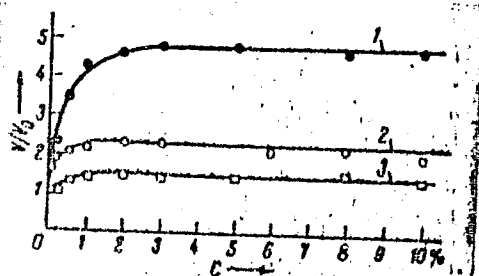


Fig. 1. Dependence of relative productivity  $V/V_0$  of ultrasonic finishing of copper on the concentration  $C$  of the surface-active substance in benzene at room temperature.

Card 4/4 DP

КУРОЧКИН, Н. Е.

Meteorological Abst.  
V.4 No. 10  
October 1953  
Part II  
Bibliography on  
Auroras.

4J-139 551 504.5 550.58  
✓ \*Kurochkin, N. E. *Nabludeniia polarnykh silanil v SSSR v 1938-1939 gg.* [Observations of aurora borealis in Russia during 1938-1939.] *Vsesoiuznoe Astronomicheskoe Obshchestvo, Biulleten*, No. 4:32-36, 1939. table, 3 refs. English summary p. 36. DLC—Observations of aurora borealis summarized in a table which shows the place and time of occurrence. Several auroras are described and their relation to sunspots is established. Magnetic storms and radio disturbances followed the appearance of the auroras. Some auroras were seen in low latitudes, even in Crimea at 45°N. *Subject Headings:* 1. Auroral data 2. Sunspot effects 3. Magnetic storms 4. Low latitude auroras 5. Crimea, U.S.S.R. 6. U.S.S.R.—N.A.S.



KURCCHIN, N. YE.

20527 KURCCHIN, N. YE. Party okrestnostey i zvezdy sravneniya dlya 24 korotko-periodicheskikh peremennikh zvezd. Byulleten Bessoyuz. Astron.-geodez. o-va, No. 5, 1949, s. 25-29

SO: IETCIS ZHURNAL STATEY - Vol. 28, Moskva - 1949

RUKOSHIKIN, N. Ye.

Stars, Variable

DK Lacertae (Nova Lacertae 1950). Per. svodny 8, No. 4, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KUROCHKIN, N. Ye.

Stars, Variable

Eight new variables in the region of  $\beta$  Auri. Per. zh. fiz. i mat. No. 4, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KUROCHKIN, M. Ye.

Stars, Variable

Eighteen variable stars in the constellations Sagittarius and Ophiuchus. Per. zvezdy 8, No. 4, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KUROCHKIN, N. Ye.

Stars, Variable

Forty-three variables in the constellation Auriga and Taurus, Per. zvezdy 8, No. 5, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KUROCHKIN, N.Ye.

20 new variable stars in the vicinity of  $\pi^1$ Cyg and SA 41. Per.  
zvezdy 9 no.3:197-204 Je '53. (MLRA 7:7)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K.Shtern-  
berga.(Moscow)  
(Stars, Variable)

KUROCHKIN, N.Ye.

Three new variable stars. Per.svezdy 9 no.3:227-228 Ja '53.  
(MLRA 7:7)

1. Gosudarstvennyy astronomicheskiy institut imeni Shtern-  
berga (Moscow)  
(Stars, Variable)

KUROCHKIN, N.Ye.

16 new variable stars in the vicinity of SA 9. Per.zvesdy 9 no.  
6:402-406 0 '53. (MIRA 8:2)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K. Shtern-  
berga.  
(Stars, Variable)



KUROCHKIN, N. Ye.

~~Variable stars in the region of SA 110. Per. svezdy 10 no. 3:171-174~~  
0 154. (MIRA 8:12)

(Stars, Variable)

KUROCHKIN, N.Ye.

New variable stars in the SA 110 area [with summary in German].  
Per.svezdy 11 no.2:111-115 Av '57. (MLRA 10:7)

1. Gosudarstvennyy astronomicheskiy institut im. Shternberga.  
(Stars, Variable)

KUROCHKIN, N.Ye.

Investigating variable stars in the Selected Area 110 [with  
summary in German]. Per. zvezdy 11 no.6:462-466 My '57.

(MIRA 12:1)

1.Gesudarstvennyy astronomicheskiy institut imeni P.K.  
Shternberga, Moskva.

(Stars, Variable)

KUROCHKIN, N.Ye.

The distribution of absorbing matter and the spiral structure of the  
Galaxy. Astron. zhur. 34 no.1:31-44 Ja-F '57. (MLRA 10:4)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga.  
(Milky way) (Absorption of light)

KUROCHKIN, N.Ye.

Discovery of variable stars. Astron. tsir. no.176:12-13 Ja '57.  
(MLBA 10:6)

1. Gosudarstvennyy astronomicheskiy institut im. Shternberga.  
(Stars, Variable)

KUROCHKIN, N.Ye.

Reliability of statistical investigations in the stellar astronomy.  
Per.zvezdy 12 no.3:216-222 M<sub>r</sub> '58. (MIRA 13:4)

1. Gosudarstvennyy astronomicheskiy institut im. Shternberga.  
(Stars) (Mathematical statistics)

KUROCHKIN, N.Ye.

Investigation of variable stars in the SA 110 region [with  
summary in English]. Per.zvezdy 12 no.4:277-290 Je '58.  
(MIRA 13:4)

1. Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga.  
(Stars, Variable)

KUROCHKIN, N.Ye.

Spatial distribution of early spectral type stars [with summary in English]. Astron. zhur. 35 no.1:86-100 Ja-F '58. (MIRA 11:3)

1. Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga.  
(Stars--Distribution)



KUROCHKIN, N.Yu.

Division of short-period Cepheids into two subsystems [with summary  
in English]. Astron. zhur. 35 no.1:160-164 Ja-F '58. (MIRA 11:3)

1. Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga.  
(Cepheids)

KUROCHKIN, N.Ye.; STARIKOVA, G.A.

RS Ophiuchi. Astron. tsir. no.194:2-3 Ag '58. (MIRA 12:12)

1.Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga.  
(Stars, Variable)

KUROCHKIN, N.Ye. (Moskva)

New nova-type star SPZ 1254. Astron. tsir. no.197:10 № '58.  
(MIRA 12:7)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.  
(Stars, Variable)

KUROCHKIN, N.Ye.

New variable stars in the SA 57 region. Per. zvezdy 12 no.6:  
409-417 Je '59. (MIRA 13:9)

I. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga,  
Moskva.

(Stars, Variable)