

42681

S/747/62/000/000/002/025  
D268/D307

AUTHORS: Nuzhdin, N. I., Smirnov, A. I. and Nechayev, I. A.

TITLE: Comparative characteristics of radiosensitivity in different lines of mice in relation to genetics. The role of hereditary characteristics in animal radiosensitivity

SOURCE: Radiatsionnaya genetika; sbornik rabot. Otd. biol. nauk AN SSSR. Moscow, Izd-vo AN SSSR, 1962, 24-38

TEXT: Radiosensitivity was studied in ca. 2 1/2 month-old male and female mice in 4 lines and 1 subline, irradiated with single x ray doses at 350, 425, 500, 575 and 650 r. Interlinear differences in radiosensitivity were observed. For males LD<sub>50/30</sub> fluctuated in the range 538 - 413 r and for females in the range of 559-465 r. A close similarity in irradiation reaction in intralinear males and females was indicated by the high positive correlation coefficient for LD<sub>50</sub> values for males and females of a single line determined in inter-linear mortality comparisons. The data showed that females were

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Comparative characteristics ...

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somewhat more resistant than lines 350/30 for males of line 3<sub>3</sub>NA was 12.8% above that for females, i.e. 3 - 4% for the other lines. Average life duration increased as the dose increased. Interlinear differences in life duration were more pronounced at 350 and 425 r, evening out somewhat as ultimate lethal effects were approached. In contrast to males, females showed little interlinear differences in life duration. Comparison of life duration in males and females in 3 lines showed it to be somewhat higher in the former than in the latter at 350 and 425 r. It was good in females at 575 and 650 r. The physiological mechanisms of radiation death in animals of lines differing in radiosensitivity seemed to be uniform. There are 7 figures and 6 tables.

ASSOCIATION: Institut genetiki AN SSSR (Institute of Genetics AS SSSR) and Institut biologicheskoy fiziki AN SSSR, Moscow (Institute of Biological Physics AS USSR, Moscow)

Card 2/2

21  
L1910  
S/872/62/000/000/005/006  
B144/B186

AUTHORS: Nuzhdin, N. I., Nechayev, I. A.

TITLE: Effect of radiation blockers on survival and changes in the internal organs of x-ray irradiated mice of different radiosensitivity (Diethyl stilbestrol effect)

SOURCE: Deystviye ioniziruyushchikh izlucheniy na organizm. Inst. genetiki AN SSSR. Ed. by N. I. Nuzhdin. Moscow, Izd-vo AN SSSR, 1962, 173 - 197

TEXT: Three inbred strains of mice, CC<sub>57</sub>-brown (I), C<sub>3</sub>H (II) and BALB/c (III), were subjected to a single whole-body irradiation of 600 r in order to study the effect of one prophylactic sc injection of 0.2 mg diethyl stilbestrol propionate (D) administered 10 days before irradiation. The LD<sub>50/30</sub> for these mice were 538, 490 and 442 r, respectively. Administration of D reduced the total mortality by 50 % in I and II and by 66.7 % in III, the first peak (up to 5 days) being significantly reduced and the second peak (10-12 days) disappearing almost completely. The weights of

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Effect of radiation blockers on ...

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thymus, liver, spleen, suprarenal glands and testes were determined 2, 4, 7, 14, 21, 30 and 60 days after irradiation. Groups II and III differed originally only in the weight of the testes, but group I had distinctly higher liver and spleen weights than the two others. In non-irradiated mice, D administration did not affect the total body weight. The radiation-induced weight variations of the thymus were similar in the 3 groups and not affected by D. The highest weight of liver with the least fluctuations was found in the most radioresistant strain I. The effect of D on this organ became evident 2 weeks after the irradiation. The weight curves of the spleen whose radiosensitivity is reflected in the second peak of the mortality curve (failure of the hematopoietic system) showed the highest absolute values and an earlier period of overcompensation in group I. D accelerated regeneration, inhibited overcompensation and equalized the otherwise differing spleen reactions of the 3 strains. The weight increases of the suprarenal glands produced by separate and combined irradiation and D administration were similar in the 3 groups. The difference in natural radiosensitivity was not reflected in the weight curves of the testes whose regeneration was not improved by D. The divergent radioresistance of the 3 strains is attributed to the different radioresistance of their spleen and liver, which is evident from the Card 2/3

Effect of radiation blockers on ...

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B144/B186

weight curves as well as the diethyl stilbestrol effect. There are 10 figures and 20 tables.

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11911  
S/872/62/000/000/006/006  
B103/B144

11 144  
AUTHOR: Nechayev, I. A.

TITLE: Protective action of diethyl stilboestrol in golden hamsters irradiated with X-rays

SOURCE: Deystviye ioniziruyushchikh izlucheniya na organizm. Inst. genetiki AN SSSR. Ed. by N. I. Nuzhdin. Moscow, Izd-vo AN SSSR, 1962, 198-203

TEXT: To obtain further data on the protective effect of diethyl stilboestrol (D), male golden hamsters weighing 120-125 g were subjected to a single, whole-body X-ray treatment of 400 r or 600 r (50 r/min). 9-10 days before irradiation the test animals but not the controls were injected 1.2 mg D subcutaneously. Test and control animals were weighed every 4 days during the first month after irradiation, then on the 45th and 60th day, and afterwards every 30 days. The protective effect of D was found to be less than that of mercapto ethylamine (M), but the staphyloma-like eye damages which occurred in the surviving animals after M application could not be observed after D. The death rate for golden hamsters

X

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S/872/62/CCC/000/006/006  
B103/3144

Protective action of diethyl ...

differed from that for rats and mice. Three maxima were observed: the first (4th - 7th day after irradiation) corresponds to a lethal effect of the gastrointestinal syndrome which previous experiments had shown to occur only after radiation doses from 1000 r upwards. The second (6th - 12th day) is due to a damage of the hematopoietic system. This maximum may be reduced (at 600 r) or eliminated (at 400 r) by applying D, contrary to the third maximum (17th - 20th day), which is hardly changed. The time of surviving from the 60th day after irradiation onwards was not affected by D. On comparing the weights of the golden hamsters on the 20th day after irradiation the natural increase in weight of the surviving animals after irradiation with 400 r and 600 r was found to be somewhat less than without irradiation. A prophylactic treatment with D results in an additional delay of growth, but this decreases in the course of time and is no longer observed on the 170th day after irradiation. After that time the initial weight of non-irradiated animals was increased to 160%, that of animals irradiated with 400 r to about 135%, and that of animals irradiated with 600 r to ca. 120%. There are 2 figures and 1 table.

X

Card 2/2

27.12.20  
S/020/62/143/004/027/027  
B144/B138

AUTHORS: Nushdin, N. I., Corresponding Member AS USSR, Nechayev, I.  
A., Grayevskaya, B. M., and Shchedrina, R. N.

TITLE: Some physiological and biochemical peculiarities of mice with different congenital radiosensitivity

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 4, 1962, 997-1000

TEXT: The radiosensitivity of the following three strains was studied: CC<sub>57</sub>-brown and BALB/c from the breeding station in Stolbovaya, CH<sub>3</sub> with 2 sublines from Stolbovaya near Moscow (m) and Rappolovo near Leningrad (1); and of a mixed population (MP) of mice from the breeding station at Kryukovo. The body weight, the weights of liver, spleen, suprarenal glands, thyroid, and testes, the catecholamine (CA) content in the suprarenal glands and the glycogen content in the liver were determined after whole-body irradiation with 350 - 650 r. The LD<sub>50/30</sub> was much higher for MP and CC<sub>57</sub> than for CH<sub>3</sub> and BALB/c. This was consistent with X

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Some physiological and...

the significant weight increase of liver and spleen found in the former two groups, whose thyroids were equally heavier; whereas no relation could be established between the weight of suprarenal glands or testes and radiosensitivity. Histochemical and quantitative studies revealed that MP had the lowest CA content. CH<sub>3</sub> sublines m and l had different CA

levels. Radiosensitivity changed in the same order. Although this parallelism is no proof of a direct interrelation between CA metabolism and radiosensitivity, it may be assumed that adrenalin is an important mediator between radiation perception and reaction. The glycogen level in the liver showed the reverse order and is probably dependent on the CA level in the suprarenal glands. There are 2 figures and 1 table.

SUBMITTED: January 5, 1962

X

Card 2/2

NECHAYEV, I.A.

The most prominent of the first-class scientists of the AN USSR  
158 re.14-17 (1950-1952)

I. Institute of Physics AN  
T.D. Lyserko.

L 6203-66 EWT(m)

ACC NR: AF5024250

SOURCE CODE: UR/2670/65/000/032/0177/0191

AUTHOR: Nechayev, I. A.

ORG: Institute of Genetics, Academy of Sciences SSSR (Institut genetiki, Akademiya nauk SSSR)

TITLE: Age and radiosensitivity in various strains of mice

SOURCE: AN SSSR. Institut genetiki. Trudy, no. 32, 1965. Deystviye ioniziruyushchikh izlucheniy na rastitel'nyy i zhivotnyy organizmy (Effect of ionizing radiation on plant and animal organisms), 177-191

TOPIC TAGS: radiation biologic effect, x ray irradiation, mouse, digestive system

ABSTRACT: Experiments were conducted to examine the relationship between the age of animals and their radiosensitivity. Mice of three strains with different natural radiosensitivity were subjected to single x-ray irradiation in doses of 300, 400, 500, and 600 rad with dose power of 47.2 rad/min. Animals were irradiated when newborn, and when 15, 30, 45, and 60 days old. Experimental results showed that the radiosensitivity of mice increases until they are 30 days old, after which the LD<sub>50</sub> index drops. Differences in radiosensitivity in the strain led to differences in the radiosensitive level of mice of the

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ACC NR: AT5024250

same age group. Thus, the LD<sub>50</sub> of radioresistant strains CC<sub>57</sub>Br and C<sub>57</sub>Bl in all the age groups studied was higher than the LD<sub>50</sub> of the radiosensitive strain BALB/c (see Fig. 1).

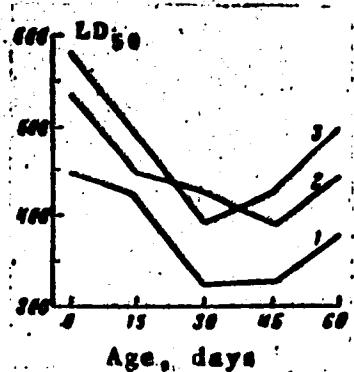


Fig. 1. Radiosensitivity of mice of the BALB/c, CC<sub>57</sub>Br, and C<sub>57</sub>Bl strains at various ages.

Dispersion analysis showed that both the strain of the animal and its age are significant factors in its radiosensitivity, although it has been established that they operate independently. It was determined that age effects can be related to species characteristics, and genotype effects to characteristics made complex as a result of the selec-

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L 8203-66

ACC NR: AT502425G

tion and stabilization of strains. During irradiation with small doses (300 and 400 rad) both of these factors are significant. However, with a dose of 500 rad, only the genotype factor is significant, while during irradiation with 600 rad both age and genotype factors are eliminated. Death of animals from radiation sickness can be associated with different syndromes, depending on genotype, age, and dose. Experimental results showed that in 30- and 60-day old mice, the gastrointestinal system is significantly more sensitive than in newborn and 15-day old mice. BALB/c mice irradiated with 600 rad had an 80—90% mortality from injury to the gastrointestinal system. The CC<sub>57</sub>Br and C<sub>57</sub>B1 strains were much more resistant to "gastrointestinal death." It was shown that the lethal effect of irradiation of newborn mice is not limited to the period of radiation sickness (30 days). For 90 days after irradiation with the doses used, the only dose which did not have any serious aftereffects was 300 rad. Doses of 400, 500, and 600 rad eliminated a significant number of the specimens which had survived radiation sickness. Higher doses caused a greater radiation effect. C<sub>57</sub>B1 mice were much more resistant in this test than BALB/c and CC<sub>57</sub>Br mice. The injurious radiation effect on newborn mice (with a dose of 300 rad) is a definite lag in the growth rate during the period of radiation sickness. This loss is not completely compensated by sub-

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L 8203-66

ACC NR: AT5024250

sequent acceleration of the growth rate. A dose of 400 rad retards growth even more, apparently because of deeper destructive changes. The growth retardation effect is more strongly expressed for radiosensitive BALB/c mice than for radioresistant C57Br mice. Orig. art. has 7 figures and 5 tables. (JS)

SUBM CODE: LS/ SUBM DATE: none/ ORIG REF: 018/ OTH REF: 027

nw  
Card 4/4

L 8206-66 ENT(m)  
ACC NR: AT5024253

SOURCE CODE: UR/2670/65/000/032/0206/0222

AUTHOR: Nuzhdin, N. I. (Corresponding member AN SSSR); Nechayev, I. A.

ORG: Institute of Genetics, Academy of Sciences SSSR (Institut genetiki, Akademiya nauk SSSR)

TITLE: The effect of protective substances on survival and changes in internal organs of mice of various radiosensitivities after x-ray irradiation: Effect of carbon monoxide

SOURCE: AN SSSR. Institut genetiki. Trudy, no. 32, 1965. Deystviye ioniziruyushchikh islucheniy na rastitel'nyy i zhivotnyy organizmy (Effect of ionizing radiation on plant and animal organisms), 206-222

TOPIC TAGS: radiation biologic effect, animal physiology, x ray . irradiation, mouse, liver, thymus gland, spleen, carbon monoxide, diethylstilbestrol

ABSTRACT: Differences between the effects of carbon monoxide on two different strains of mice irradiated with the same dose of x-rays were determined. Male mice of CC<sub>57</sub>Br (radioresistant) and C<sub>3</sub>H (radiosensitive) strains were used. These strains are also characterized by differences in body weight and in the weight of certain organs—thymus, liver, spleen, and testes—which were used as indicators of the radia-

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UDC: 577.391

L 6206.65

ACC NR: AT5024253

cation effect. Males 2.5 months old were irradiated with x-rays in a dose of 600 rad with dose power of 74-75 rad/min. Experimental animals were irradiated in an atmosphere of 0.5% carbon monoxide; controls were irradiated in a normal atmosphere. Results showed differences in the mortality rate when mice of these different strains were irradiated with CO as a protector. Irradiation with 600 rad caused death in only 39% of mice of the radioresistant strain (CC<sub>57</sub>Br) protected with CO, as compared with a 74% mortality in the controls. Sixty-nine percent of the radiosensitive mice (C<sub>3</sub>H) protected with CO died, as against 90% of the controls. It was noted that with the use of carbon monoxide as a radioprotector, unlike diethylstilbestrol, the characteristics of the strain influenced the results of irradiation. The coefficient of protection of the organism with this dose is 0.47 for CC<sub>57</sub>Br mice and 0.23 for C<sub>3</sub>H mice. With CC<sub>57</sub>Br mice, CO protected the gastrointestinal and hematopoietic systems equally; however, for the other strain the protective effect of CO was more evident on the gastrointestinal system. Both with and without the protection of carbon monoxide, CC<sub>57</sub>Br mice recovered lost body weight more rapidly after irradiation than C<sub>3</sub>H mice. Similar data were obtained in previous experiments with diethylstilbestrol. For C<sub>3</sub>H mice regeneration of the thymus gland took longer than for CC<sub>57</sub>Br mice. Carbon monoxide had no positive effect on thymus recovery. Once again these results agree with results of other experiments by the authors.

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L 8206 66

ACC NR: AT5024253

in which the lack of a specific protective effect on the thymus gland was noted when mice were irradiated with the use of diethylstilbestrol as a protector. Experimental results also showed that carbon monoxide reduces overcompensation of the weight of the liver after irradiation with 600 rad (by the 21st-30th day after irradiation). The reaction of the spleen to irradiation in a carbon monoxide atmosphere was identical for both strains of mice. In CC<sub>57</sub>Br mice protected with CO, a sharp increase in the weight of the adrenals was observed on the 7th day after irradiation. When diethylstilbestrol was used as the protector, this phenomenon was observed on the 2nd-4th day after irradiation. It was noted that with 600 rad of x-rays, CO does not affect the change in weight of the testes. This lack of protection was also observed during irradiation of mice with the use of diethylstilbestrol. Orig. art. has: 12 figures and 9 tables. [JS]

SUB CODE: LS/ SUBM DATE: none/ ORIG REF: 020/ OTH REF: 014

Card 3/3

NECHAYEV, I.D., inzh.

Organization of the construction of a mountain road. Avt.dor.  
25 no.12:18 D '62. (MIRA 16:2)  
(Mountain roads)

NECHAYEV, I. I.

USSR/Miscellaneous - Tool storages

Card 1/1 Pub. 103 - 15/22

Authors : Yegorov, M. P., and Nechayev, I. I.

Title : Storage of tools

Periodical : Stan. i instr. 12, 29-30, Dec 54

Abstract : The design of various wooden and metal cabinets, for the storage of machine tools in the metallurgical industry, is reported. Illustrations.

Institution : .....

Submitted : .....

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

Debtors may be liable for attorney's fees in addition to the amount of the debt.

Magistrado, que se ha de proceder a la ejecución de la sentencia, en el plazo de veinticuatro horas.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NECHAYEV, I.N.

49-172

Nechayev, I. N. Methods of temperature observations on a snow surface. Translation by Nikolai T. Zikov of "O metodike izmerenii temperatury povrchnosti snega." Leningrad, Chuvachsko-Gorodetskaya Observatorija, Trudy, No. 25(87):84-87, 1951. 26pp. DWB—  
A test was made from Feb. 27 to March 31, 1950, by the Central Geophysical Observatory, Leningrad, on an experimental plot of the Division of Methods of Observation, to determine the range of experimental error in measuring snow surface temperatures and to find a better method of installing thermometers, as well as to determine the cause of errors. Several thermometers were installed: 1) on the snow surface, 2) under the snow surface, 3) partly buried and 4) at 2 m elevation. The thermometers installed on the snow surface often show positive temperatures owing to incoming radiation (in daytime) and to "undermelting". This results in the thermometer recording only its own temperature. Graphs show magnitude of error for the different installations during the course of a clear or a cloudy day, or night, respectively. (See abstract of original serial 49-136, Aug. 1952, U.R.A.) Subject headings:  
1. Snow surface temperature measurements 2. Snow temperature measurement accuracy  
3. Observation techniques 4. Translations. I. Zikov, N. T. (trans.).—U.R.A.)

SS1.829.8:SS1.578.66

geophys

HFC

~~NECHAEV, I.N.~~  
NECHAEV, I.N.

8.1-132

551 507.2

Nechaev, I. N. and Svarchevskii, V. N., Metallicheskie konstruktsii dlia ustanovki  
prabotov na meteorologicheskikh stantsiiakh. [Metal supports for instruments at meteorological stations.] *Leningrad, Chislaiia Geofizicheskaiia Observatoriia, Trudy No. 14(64)*:  
77-84; 1952. 4 figs., 4 tables. DLC. The superiority of metal over wooden supports for  
instruments is discussed and various experimental metal structures developed by the con-  
struction section of the Principal Geophysical Observatory are diagrammed and described.  
They include a metal fence to enclose the weather station compound, anemometer masts,  
bases for the psychrometer, self-recording instruments and rain gage, collapsible stairs for  
instrument shelters, bases for the rain gage and for actinometric instruments. The results  
of tests on the use of these metallic structures under different climatic conditions are discussed.  
*Subject Heading:* 1. Meteorological instrument supports 2. Instrument shelters. - I.L.D.

2

88

m/s

MECHAYEV, I.E., nauchnyy sotrudnik; LAZAREV, M.P., otvetsatvennyy redaktor;  
SNEZHINSKAYA, I.V., redaktor; BRAYINA, M.I., tekhnicheskij  
redaktor

[Instructions for hydrometeorological stations and posts] Matavlenie  
gidrometeorologicheskim stantsiam i postam. Leningrad, Gidrometeor.  
izd-vo. No.10. [Inspection of hydrometeorological stations and  
posts] Inspeksiia gidrometeorologicheskikh stantsii i postov. Pt.1.  
[Checking of meteorological observations at stations] Inspeksiia  
meteorologicheskikh nablyudenii na stantsiakh. 1957. 195 p.

(MIRA 10:7)

1. Russia (1923- U.S.S.R.) Glavnaya upravlenie gidrometeorolo-  
gicheskoy sluzhby. 2. Metodicheskij otdel Glavnoy Geofizicheskoy  
observatorii (for Mechayev) 3. Machal'nik otdela seti Severo-  
Zapadnogo upravleniya gidrometsluzhby (for Lazarev)  
(Meteorology--Observations)

DASHKEVICH, L.L.; SURAZHSKIY, D.Ya.; USOL'TSEV, V.A.; AZBEL', M.Ye.; BOZHEVIKOV, S.N.; VORZHENEVSKIY, N.S.; MARUYLOV, K.N.; GLAZOVA, Ye.F.; KARPUSHA, V.Ye.; FOTOPOPOV, N.G.; SHADRINA, Ye.N.; IGRUNOV, V.D.; NECHAYEV, I.N.; BESFALOV, D.P.; ILLARIONOV, V.I.; GLEBOV, T.A.; GLAZOVA, Ye.F.; KAULIN, N.Ya.; GORYSHIN, V.I.; GAVRILOV, V.A.; TIMOFEYEV, M.P., retsenzent; YEFREMYCHEV, V.I., retsenzent; KRASOVSKIY, V.B., retsenzent; V'YUNNIK, A.P., retsenzent; STERIZAT, M.S., otv. red.; RUSIN, N.P., otv. red.; YASNUGORODSKAYA, M.M., red.; VOLKOV, N.V., tekhn. red.

[Instructions to hydrometeorological stations and posts] Nastavlenie gidrometeorologicheskim stantsiam i postam. Leningrad, Gidrometeoroizdat. No.3. Pt.3. [Meteorological instruments and observation methods used on a hydrometeorological network] Meteorologicheskie pribory i metody nabliudenii, primenyaemye na gidrometeorologicheskoi seti. 1962. 295 p. (MKhA 15:5)

(Continued on next card)

DASHKEVICH, L.L.— (continued) Card 2.

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby. 2. Glavnaya geofizicheskaya observatoriya Nauchno-issledovatel'skogo instituta gidrometeorologicheskikh priborov i Gosudarstvennogo hidrologicheskogo instituta (for Dashkevich, Surazhskiy, Usol'tsev, Azbel', Bozhevikov, Vorzhenevskiy, Manuylov, Glazova, Karpusha, Protopopov, Shadrina, Igrunov, Nechayev, Bespalov, Illarionov, Glebov, Glazova, Kaulin, Gorysnin, Gavrilov). 3. Komissiya Glavnogo upravleniya hidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR (for Nechayev, Usol'tsev, Timofeyev, Yefremychev, Krasovskiy, V'yunnik)  
(Meteorology)

NECHAYEV, I.M.

Improving the visual method of determining visual range. Trudy  
QQQ no.1298134-145 '62. (MIRA 16:2)  
(Visibility)

DROZDOV, O.A.; ZUREN'K, I.I.; MECHAYEV, I.N.

Errors in calculating atmospheric precipitation. Trudy GPO  
no.175:24-30 '65. (MIRA 18:8)

1. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova,  
Leningrad.

NECHAYEV, I.N.

Precipitation losses due to wetting of the precipitation gauges  
and the methodology of correcting the precipitation totals. Trudy  
(MIRA 18:8)  
OGO no.175:76-86 '65.

1. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova,  
Leningrad.

STRUZER, L.P., kand. fiz.-mat., rank; NEGRAYEV, I.N.,

Systematic errors in the measurement of atmospheric density.  
Meteor. i gidrol. noz. 1974, 4, 6, 195.

1. Glavnaya refraction v atmosfere.

STRUZER, L.R., kand. fiz.-matem. nauk; NECHAYEV, I.N.; BOGDANOVA, E.G.;  
FEDOROVA, Ye.A.

Methodology of correcting the precipitation norms of a  
period of several years. Meteor. i gidrol. no.11:43-50  
N '65. (MFA 18:11)

1. Glavnaya geofizicheskaya observatoriya.

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CIA-RDP86-00513R001136

RECORDED, INDEXED, SERIALIZED, FILED  
FBI - MEMPHIS

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CIA-RDP86-00513R001136

L 14020-66 EMT(1)/FCC G#  
ACC NR: AT6004189 (N)

SOURCE CODE: UR/2531/65/000/174/0050/0056

AUTHOR: Mechayev, I. N.

ORG: none

TITLE: Comparison of methods for reducing atmospheric pressure <sup>12) 44.55</sup> to the sea level

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 174, 1965.  
Metodika meteorologicheskikh obshcheniy i obrabotki (Methods of meteorological  
observation and processing observation data), 50-56

TOPIC TAGS: hydrometeorology, atmospheric pressure, pressure effect, pressure measurement

ABSTRACT: The author gives a comparative evaluation of the accuracy of methods for reducing atmospheric pressure to the sea level used by the Hydrometeorological Service SSSR and recommended by the World Meteorological Organization (WMO). It is shown that the above method leads to errors and that it is suitable only for meteorological stations located at an altitude not higher than 100 m above the sea level. The methods of A. P. Mal'tsev and V. K. Dombrovskiy, adopted by the Hydrometeorological Service, USSR, are suitable for altitudes from 150 to 500 m, and are convenient for calculation. Orig. art. has: 4 formulas and 2 tables. [Based on author's abstract].

SUB CODE: 04/ SUBJ DATE: none/ ORIG REF: 003/ OTH REF: 001/

Conf 1/1 SC

34

B+1

L 29139-66 EWT(1)/FCC CW  
ACC NM AP6015681

SOURCE CODES UR/0050/65/000/010/0050/005

AUTHORS: Strazor, I. B. (Candidate of physico-mathematical sciences); Kocharyan, L. N. (Candidate of physico-mathematical sciences); Begisheva, E. G. (Candidate of physico-mathematical sciences)

ORG: Main Geophysical Observatory (Glavnaya geofizicheskaya observatoriya)

TITLE: Systematic errors in measurement of precipitation?

SOURCE: Meteorologiya i gidrologiya, no. 10, 1965, 50-54

TOPIC CODE: atmospheric precipitation, atmospheric evaporation

ABSTRACT: This is a brief description of the principal results of a quantitative determination of the principal systematic errors in measurement of precipitation. Emphasis is on the following sources of error: losses of collected precipitation due to wetting of the receiver, losses of collected precipitation due to evaporation from the receiver and losses of precipitation due to distortions of the wind field over the receiver. Quantitative relationships are derived between the systematic errors and the factors responsible for their occurrence. The computation system proposed here makes it possible to determine the errors for any point in an area and for different time intervals such as a month or year. Orig. art. has 4 figures and 1 table.

18  
B

SUB CODE: 04 / SUBJ DATE: none / ORIG REV: 007

Conf 1A 100

UDCI 551.502.777

NECHAYEV, I.P., inzh.

Developed by Kharkov efficiency promoters. Mekh. sil'. hosp.  
11 no.7:17-18 J1 '60. (MIRA 13:10)  
(Kharkov Province--Farm equipment)

NECHAYEV, K.A.; NOVOSLAVSKAYA, O.Ya.; FROLOV, K.M.; KHANINSON,  
Ya.G.; VOLKOVA, K.V., red.; VOROTILINA, L.I., tekhn. red.

[Novosibirsk; notable places and sights] Novosibirsk; pe-  
miatnye mesta i dostoprimechatei'nosti. Novosibirsk, Novo-  
sibirskoe knizhnoe izd-vo, 1961. 174 p. (MIRA 15:8)  
(Novosibirsk--Guidebooks)

CA

16

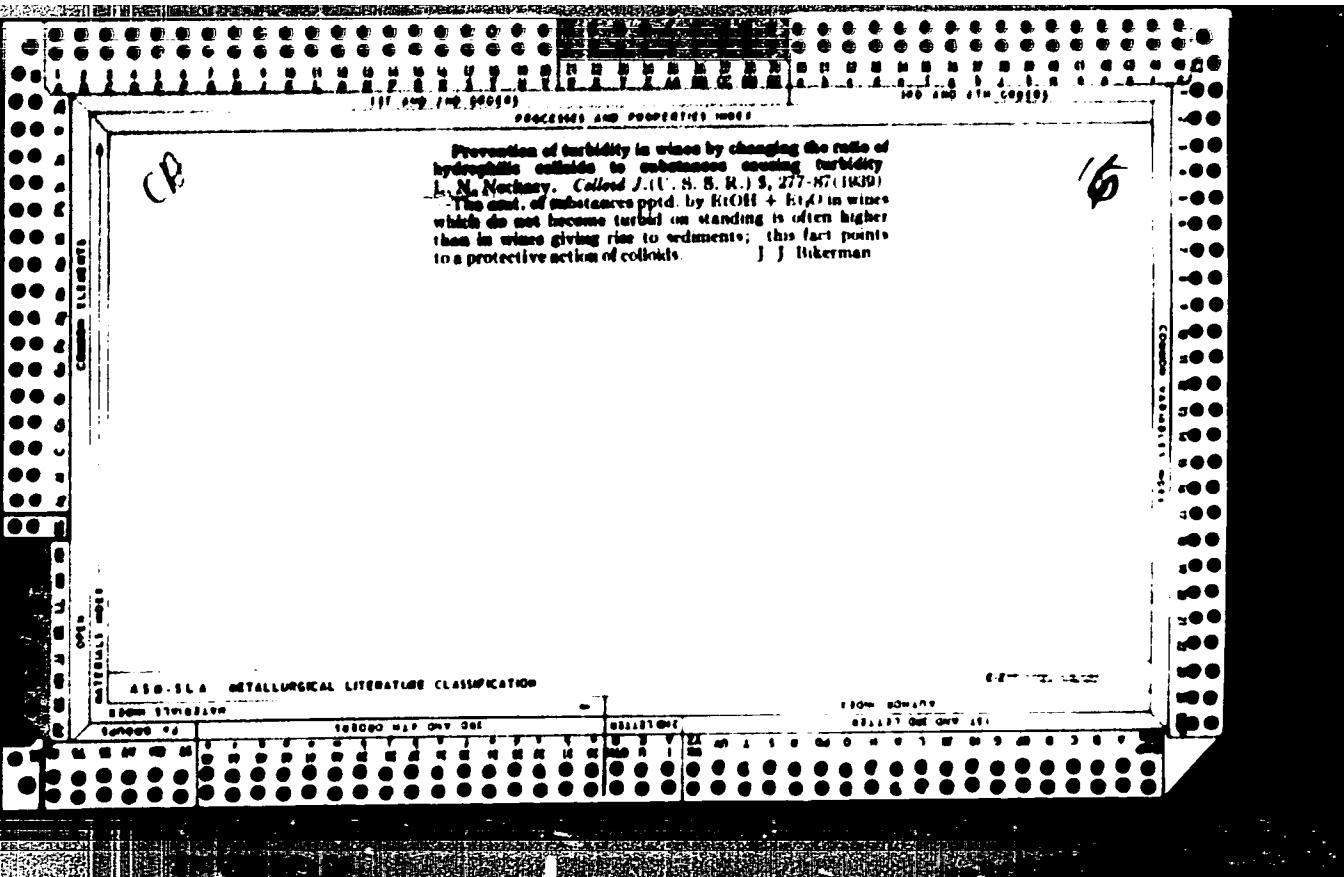
**Preventing yeast turbidity in white table wines** I. N. Nechesy, *Vinodelia i Vinogradarstvo* 1959, No. 4, p. 3-9.  
*Kharkov Referral Zhar* 1960, No. 3, 123, p. 10-11, 111.  
 The cause of yeast turbidity in clear wines is the multiplication of yeast after the filling of the bottles. This multiplication is due to the nonsterility of wine, to yeast organisms from without and to O<sub>2</sub> of the air in wine. To prevent yeast turbidity to keep the wine sterile by closed filtration or pasteurization at 50-55° by pouring wine into bottles using CO<sub>2</sub> to reduce the content of O<sub>2</sub> to a min. Tech. methods (based on the microscopic determination of the presence of yeast in wine kept in the thermostat at 25° for 1-5 days) are described. W. H. Horne

## APPENDIX METALLURGICAL LITERATURE CLASSIFICATION

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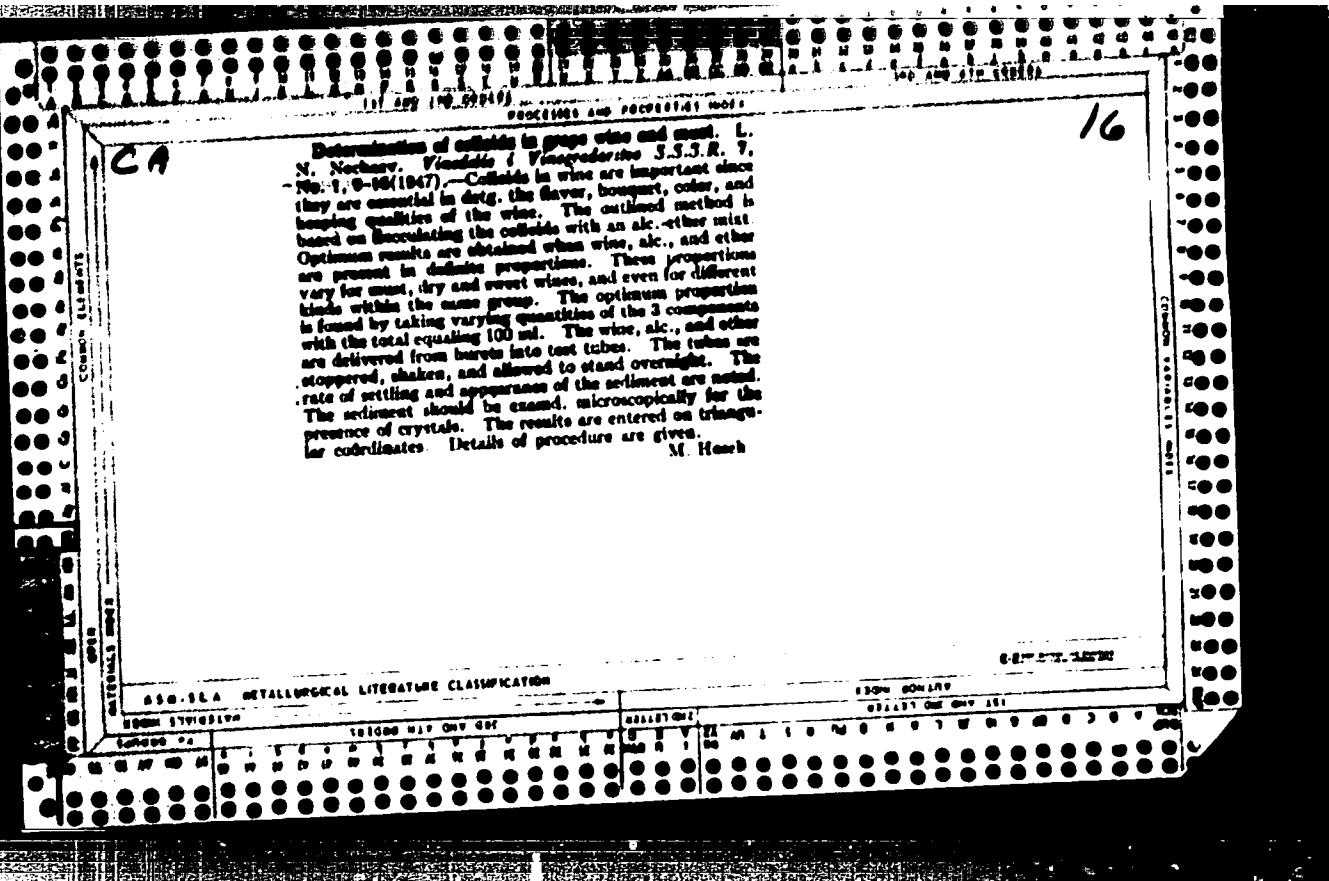
**APPROVED FOR RELEASE: Wednesday, June 21, 2000**

CIA-RDP86-00513R001136



Determination of colloids in grape wine and must. L. R. 7.  
N. Nechay, Vinařské i Vinohradnické 3.5.3. R. 7.  
No. 1, 9-10 (1947).—Colloids in wine are important since they are essential in determining the flavor, bouquet, color, and keeping qualities of the wine. The outlined method is based on dissociating the colloids with an alk. ether mixt. Optimum results are obtained when wine, alk., and ether are present in definite proportions. These proportions vary for must, dry and sweet wines, and even for different kinds within the same group. The optimum proportion is found by taking varying quantities of the 3 components with the total equaling 100 ml. The wine, alk., and ether are delivered from burets into test tubes. The tubes are stoppered, shaken, and allowed to stand overnight. The rate of settling and appearance of the sediment are noted. The sediment should be examined microscopically for the presence of crystals. The results are entered on triangular coordinates. Details of procedure are given.

16



POTAPENKO, Ya.I.; LUK'YANOV, A.D.; LAZAREVSKIY, M.A.; DYUZHEV, P.K.;  
ZAKHAROVA, Ye.I.; KOVALEV, A.A.; RYZAYEV, K.S.; NECHAYEV, L.N.;  
BASAN'KO, A.A.; MASHINSKAYA, L.P.; ALIYEV, A.M.; MANOKHIN, P.A.;  
LITVINOV, P.I.; KOROTKOVA, P.I.; ZAITSEVA, Yu.F.; GRAMOTENKO, P.M.;  
TAIROVA, V.N., red.; PROKOF'YEVA, L.U., tekhn.red.

[Viticulture] Vinogradarstvo. Moskva, Gos.izd-vo sel'khoz.lit-ry,  
1960. 612 p. (MIRA 14:1)

(Viticulture)

NECHAYEV, L.V.

Role of oxygen in biochemical processes taking place in grapes and  
grape juice. Biokhim. vin. no.6:235-252 '60. (MIRA 13:10)

1. Nauchno-issledovatel'skiy institut vinogradarstva i vinodeliya  
RSFSR.  
(Oxygen) (Grapes--Storage) (Grape juice--Preservation)

NECHAYEV, L.N.

Role of the intensity of sugar accumulation and of the amino acids  
composition of grapes in the formation of the organoleptic qualities  
of wine and juices. Biokhim. vin. no.7:25-42 '63. (MLA 1' 4)

1. Nauchno-issledovatel'skiy institut vinogradarstva i vinodeliya  
Ministerstva sel'skogo khozyaystva RSFSR.  
(Wine and wine making) (Plants—Chemical analysis)

MARTYNOV, O.V.; USTYUZHANIN, V.N.; NECHAYEV, L.S.; GORLOV, S.M.

Smelting and continuous pouring of steel 20 in ingots with a  
cross section of 280x320 mm. Metallurg 8 no.12:13-15 D '63.  
(MIRA 17:4)

1. Novotul'skiy metallurgicheskiy zavod.

NECHAYEV, L.V.

Operation of the fluid cooling system of an engine under unrated conditions. Avt. prom. 30 no.5:12-15 My '64.

(MIRA 17:9)

1. Altayskiy politekhnicheskiy institut.

NECHAYEV, L.V., starshiy prepodavatel'

Heating characteristics of vehicle engines with a two-stage heating system. Izv. vys. ucheb. zav.; mashinostroenie, 1982, no. 2, p. 21-24.

NECHAYEV, M., inzhener.

Spoilage of fats through oxidation. Mias.ind.SSSR 27 no.3:46-49  
'56. (MIRA 9:9)

1. Moskovskiy tekhnologicheskiy institut myasney i mlechney  
promyshlennosti.  
(Oils and fats) (Oxidation)

MACHAYEV, M., ins'ener.

Change in animal fat during the processing period  
23 no.4. 26-28 '57. (see index)  
Luka 11-71

U. Moskovskiy tehnicheskij institut myasnoj i mlynovoj  
promstjenosti.  
(Oil and fats--Analysis)

MEKHAYEV, M.A., inshener

Chemical method of controlling carbon formation in locomotive boilers.  
Tekh.shel.dor.7 no.7:26-27 Jl'48. (MLRA 8:11)  
(Locomotive boilers)

NECHAYEV, M.A.

Steam Boilers

Remark on the article "Chemical cleaning of the outer surfaces of steam boilers."  
Rab. energ. 2 no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July <sup>2</sup> 1958, Uncl.

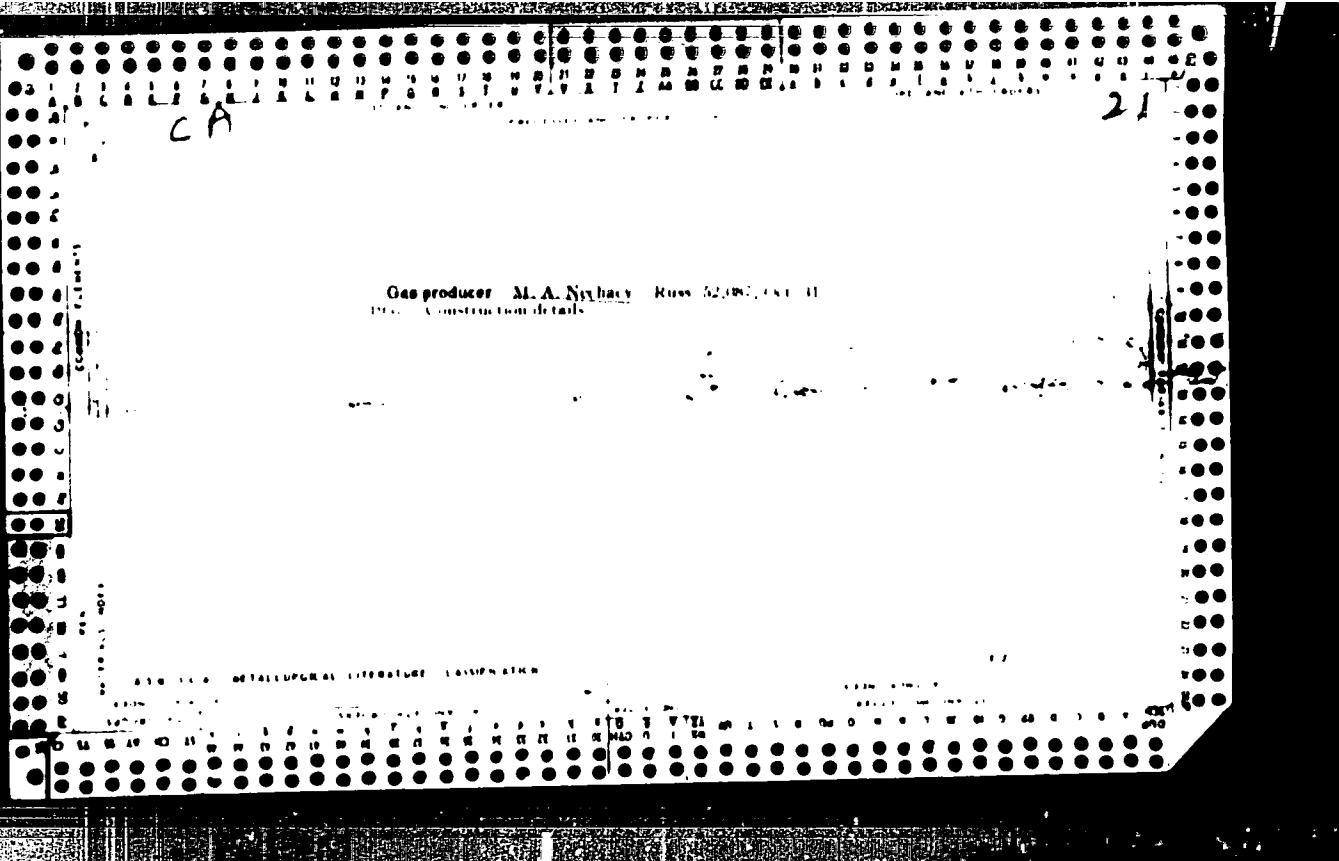
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SUGAR, etc.

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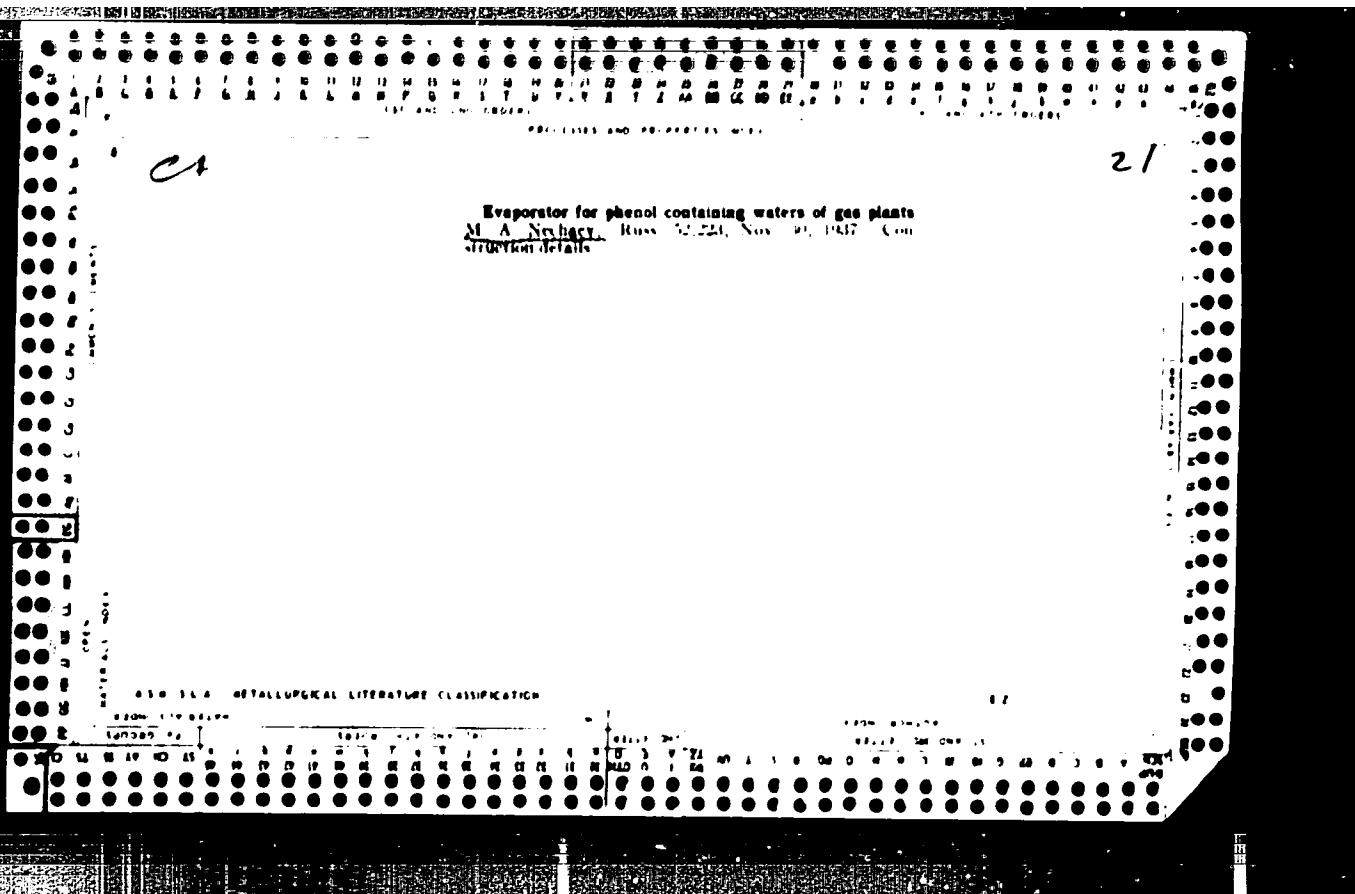
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CIA-RDP86-00513R001136



Rendering phenolic waters from gas producing units of metallurgical works noninjurious. M. A. Nibert. Soviet Met. No. 12, K1 91(1971). Chem. Zentral 1970, 3, 501. Various possibilities are discussed for using the phenolic wastes in the water-steam discharge of the gas generator. Different proposals are made for the complete or partial evap. of these waters depending upon the fuel used (mineral coal, lignite, peat, etc.) and the corrosive properties of the waters. The phenols either enter the generator with the steam and are eliminated or are wiped from the water-steam mix. in the vapor phase by means of adsorption and thus are recovered. W. A. Albee.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

Gas producer. M. A. Sechary. Date: 3/15/59. April  
1959. Construction details.

21

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CIA-RDP86-00513R001136

Vd

21

The purification and utilization of waste water resulting from the gasification of wood chips in wood gas generators  
M. A. Nitschey, London, Proc. I. No. 3, 36-30 (1940).  
Chem. Zentralblatt, 1940, II, 1581. - The quantity of waste water from wood-gas generators is diminished by gasifying pre-dried wood. The gasification is promoted by an addition of a little waste water to the generator. The harmful constituents of the waste water are diminished by absorbing the CH<sub>4</sub>O<sub>2</sub>H and by strongly cooling the gas before it reaches the coke filters (to decrease the tar content of the waste water). Filtering of waste water is recommended only to free it of tar. For further purification biological treatment of the water together with household sewage is recommended. The biological purification should be preceded by a clarification. If the waste water is acid, by liming. For small volumes of waste water, org. compds can be decomposed by heat most resistant to heat are the phenols, but these are completely decomposed at 100°-100°. M. Ilseh.

**50.** **MAKING WASTE WATERS FROM GAS GENERATING STATIONS INNOCUOUS.**  
Guchakov, N. A. (J. Industr. Chem. Moscow, 1941, 18, No. 30,  
18; Chem. Zol., 1945, 2, 59). Methods for treating waste  
waters from gas-generating plants are described in detail.  
The removal from the waste waters of suspended solids, phenols  
and their homologues, fatty acids, ammonia, sulphur compounds,  
methyl alcohol, and resinous compounds is discussed.

1. NECHAYEV, M., Eng.
2. USSR (600)
4. Gas - Heating and Cooking
- 71 Guarantee of safe and rational use of household gas. Zhil. -khoz. khoz. 2 no. 9, 1952
  
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

NECHAYEV, M. A.

[City gas supply] Gazosnabshenie gorodskogo khoziaistva. Moskva.  
Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1953. 186 p.  
(MLRA 7:6)

(Gas manufacture and works)

MECHAEV, M.A., redaktor; KOLBENKOV, S.P., redaktor; LIBER, I.S., redaktor.

[Problems of municipal gas supply; lectures at conference-courses on municipal gas supply] Voprosy gasosnabshenija gorodov: trudy Konferen-tsi-i-kursov po gasosnabsheniju gorodov. [Redaktsirovanie osushchestvili M.A.Mechaev i I.S.Liber] Leningrad, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, Leningradskoe otd-nie, 1953. 207 p. (MLRA 7:1)

1. Vsesoyuznoye nauchnoye inzhenerno-tehnicheskoye obshchestvo energetiki.  
(Gas appliances) (Gas manufacture and works)

STASKEVICH, N.L.; KUCHAEV, M.A., redaktor; MOLOKOVA, Ye.I., redaktor;  
SOKOLOVA, Ye.V., tekhnicheskiy redaktor

[Municipal gas supply] Gasosnabzhenie gorodov. Leningrad, Gos.  
nauchno-tekhnicheskoe izd-vo neftianoi i gorno-toplivnoi lit-ry.  
Pt.4. [Operating gas-distribution] Eksploatatsiya sistem raspre-  
deleniya gaza. 1953. 312 p.  
(Gas distribution) (MLRA 8:2)

MECHAYEV, M.A.; CHERNOV, S.M., inzhener, nauchnyy redaktor; KAPIAN, M.Ya.,  
redaktor; PUL'KINA, Ye.A., tekhnicheskiy redaktor.

[To the architect and builder on supplying dwellings with gas] Ar-  
khitektoru i stroitelju o gaseosnabshenii zhilogo doma. Leningrad,  
Gos. izd-vo lit-ry po stroitel'stvu i arkhitektur'e. 1954. 67 p.  
(MLRA 8:1)  
(Architecture, Domestic) (Gas--Heating and cooking)

ROMANOVSKIY, G., inzhener; MECHAYEV, M., inzhener.

Domestic gas appliances. Zhil.-kons.khos. 4 no.5:12 '54. (MLRA 7:9)  
(Gas appliances)

MECHAVEV M.A.

2534. HANDBOOK FOR THE WORKER IN A TOWN'S GAS UNDERTAKING. Mechavv,  
M.A. (Moscow: Ministry of Municipal Affairs, R.S.F.S.R., 1955, 351pp.)  
title in Gigiena Sante. (Hig. & Lenit., Moscow), Aug. 1956, vol. 21, G1.

~~MECHAYEV, M.A., FILIMONOV, A.A., redakter; AKATOVA, V.G., redakter;~~  
~~KONYASHINA, A., tekhnicheskiy redakter.~~

[Manual of employees of city gas works] Spravochnik rabotnika  
goreodskogo gasevogo khoziaistva. Moskva, Izd-vo Ministerstva  
kommunal'nogo khoziaistva RSFSR, 1955. 349 p. (MLRA 9:4)  
(Gas manufacture and works)

LIBER, I.S.; FEDOROV, M.K.; NECHAYEV, M.A., inzhener, nauchnyy redaktor;  
KARPOV, V.V., redaktor izdatel'stva; PUL'KINA, Ye.A., tekhnicheskiy  
redaktor

[Concrete sanitary engineering blocks and heating installations]  
Betonnye sanitarno-tehnicheskie bloki i nagrevatel'nye pribory.  
Leningrad, Gos. izd-vo po stroit. i arkhitekture, 1956. 65 p.  
(Concrete blocks) (MIRA 9:10)  
(Heating)

NECHAYEV, M.A.

In the Scientific and Technical Power Engineering Society. Gas.prom.  
no.3:38 Mr '56. (MLRA 10:1)  
(Gas as fuel) (Combustion)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

NECHAYEV, M.A.

Improving hygienic conditions in kitchens equipped with gas ranges.  
Gas.prom.no.5:27-28 May '56.  
(Stoves, Gas) (Hygiene, Public)  
(MLRA 10:1)

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

MECHAEV, Mikhail Aleksandrovich; STOLPMER, Ye.B., inshener, redaktor;  
TOBIN, T.P., vedushchii redaktor; OBEMAD'YEVA, I.M., tekhnoredaktor

[Safety engineering for gas pipelines and gas apparatus] Tekhnika  
bezopasnosti na gazoprovodakh i gazovykh ustanovkakh. Leningrad,  
Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, Leningr.  
otd-nie, 1957. 200 p.  
(Gas pipes) (Gas manufacture and works)

MECHAYEV, M.

In the Scientific and Technical Society of the Power Industry. Gas.  
prom. no.2:37-38 P '57. (MLRA 10:3)  
(Power engineering) (Fuel)

NECHAYEV, M.

"A New Kind of Liquefied Gaseous Fuel," by M. Nechayev,  
Gazovaya Promyshlennost', Nc 3, Mar 57, p 37

According to a report by M. Garms in Grundlagen der Brenngasverwendung, (Fundamentals of the Application of Combustible Gases), Fachbuchverlag, Leipzig, 1956, page 160, a new kind of liquefied gaseous fuel, namely, dimethyl ether, is being used in East Germany. This fuel is produced by the Walter Ulbricht Leuna Plant.

The Leuna plant supplies this new gas under the name of "fuel ether." It consists of approximately 95% of dimethyl ether, the remaining 5% being carbon dioxide and light hydrocarbons.

As far as its physicochemical properties are concerned, fuel ether resembles liquefied propane-butane gas. It has the same combustion characteristics as the latter, but is soluble in water. In the combustion of dimethyl ether less oxygen is used, because this substance already contains oxygen in its molecule.

34N.1314

NECHAYEV, NI:

The principal physicochemical characteristics of dimethyl ether are as follows: specific gravity, 2.1 kg per cubic meter; vapor pressure at 20° C, 5 atmospheres gauge; boiling point at 760 mm Hg, 24.8°; limits of detonation when mixed with air, lower limit, 2%, and upper limit, 20%; and heat produced in combustion, 6,700 kilocalories per kg.

Fuel ether is used for household and industrial applications. The adaptation of burners designed for city gas is much easier in the case of dimethyl ether than that of propane.

Dimethyl ether is also used as a refrigeration agent. (U)

Some 1374

MECHAYEV, M.

In the Scientific and Technical Society of the Power Industry.  
Gaz. prom. no.3:38 Mr '57. (MIRA 12:3)  
(Gas as fuel)

NECHAYEV, M.A.

The effectiveness of odorizing of shale gas. M. A. Nechaev, M. N. Troitskaya, and A. E. Drabkin. *Gazprom*. From: 1957, No. 6, 29-31. --Expts. on the odorizing of a shale gas purified with activated C were made to det. the feasibility of substituting a shale gas benzene,  $d_4^{20} = 0.83$ , mol. wt. 103, b. 05°-140°, with its strong characteristic odor, for the usual ethyl mercaptan. To the gas of compn. CO<sub>2</sub> 18.5, C<sub>2</sub>H<sub>2</sub> 4.8, CO 11.0, O 0.9, H 24.5, C<sub>3</sub>H<sub>8+1</sub> 17.6, N 25.7%, and H<sub>2</sub>S trace, dild. with air to a CO content of 0.04% by vol. was added the benzene in amounts of 5, 10, 15, 20, and 40 g./cu. m. Such addn., however, proved in general to be ineffective for imparting a perceptible and permanent odor to the dild. gas. The use of ethyl mercaptan, therefore, remains the best means of warning of explosive or toxic concns. of the gas in the area. H. L. Olin

3

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

RE: V. M.E.

Using oxygen hose for distribution of bottled gas in apartments.  
Jan. 1968, cc. 8:20-21 A. 1972. (MLRA 10-9)  
(Gas companies)

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

AUTHOR: Nechayev, M.A.

132-10-13/1

TITLE: Gas Turbines as a Direct Source of Blast for Blast Furnaces  
(Gazovyye turbiny kak neposredstvennyy istorchnik dozennogo  
dut'ya)

PERIODICAL: Stal', 1957, No. 12, pp. 1140 - 1141 (USSR)

ABSTRACT: The use of gas leaving a gas turbine (about 18% CO<sub>2</sub> and 3% CO<sub>2</sub> - temperature 340 - 370 °C) as a direct source of blast for blast furnaces is proposed. A description of the proposed scheme (diagram) is given. It is pointed out in the editorial note that the application of this scheme will depend on the furnace operation with a blast of a lower oxygen and containing 3-4% of CO<sub>2</sub>, which can be treated in normal installations. There is a figure.

ASSOCIATION: Scientific-technical Society of Power Industry  
(Nauchno-tehnicheskoye obshchestvo energeticheskoy  
promstilennosti)

AVAILABLE: Library of Congress

Card 1/1

POLAND/Chemical Technology - Processing of Solid Fuels  
(Naturally Deposited)

H.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 55110  
Author : Nechaev, M.A.  
Inst : -  
Title : Manufacture of City Gas from Shale Oil.  
Orig Pub : Gaz. woda techn. sanit., 1957, 31, No 12, 472-473

Abstract : A report on Soviet work concerning the manufacture of  
city gas from shale on Kokultia-Yarv and Slanets combi-  
nats.

Card 1/1

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

~~MECHAYEV, M.A.~~

All-Union Scientific and Technical Conference on the Use of Natural  
Gas in Industrial Furnaces. Gaz. prom. no.1:52-55 Ja '58.  
(Gas, Natural—Congresses) (MIRA 11:2)

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001136

MECHAYEV, M.A.

Laying gas pipelines in industrial areas. Haz.prom. 4 no.t:  
33-35 Je '59. (MIRA 12:8)  
(Gas, Natural).-Pipelines)

NECHAYEV, M.

Work of the gasification section of the Central Committee  
of the Scientific and Technical Society for Natural Fuel.  
Gaz. prom. + no.12:50-51 D '59. (VIRA 17:3)  
(Gas industry)

NECHAYEV, Mikhail Aleksandrovich. Prinimal uchastiyu MITROFANOV, I.A., inzh..  
STOLPNER, Ye.B., nauchnyy red.; DESHALYT, M.G., vedushchiy red.;  
YASHCHURZHINSKAYA, A.B., tekhn.-ed.

[Safety measures in the transportation, distribution and uses of gas  
fuel] Tekhnika bezopasnosti pri transportirovke, raspredelenii i  
ispol'zovaniyu gazovogo topliva. Izd.2., perer. i dop. Leningrad.  
Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry. Leningr.  
otd-nie, 1960. 259 p.

(MIRA 13:9)

(Gas as fuel--Safety measures)

NECHAYEV, Mikhail Aleksandrovich; SHATSILLO, O.I., inzh., red.; FREGER, D.P.,  
red. izd-va; GVIPTS, V.L., tekhn. red.

[Safety in handling gas-operated equipment of industrial furnaces and  
boilers] Bezopasnaia ekspluatatsiia gazovogo oborudovaniia promyshlen-  
nykh pechей i kotlov. Leningrad, 1961. 18 p. (Leningradskii Dom nauchno-  
tekhnicheskoi propagandy. Obmen peredovym opyтом. Seriia: Energetika,  
no.5) (MIRA 14:7)

(Boilers)

(Furnaces)

NECHAYEV, M.A., inzh. (Leningrad)

Inspection tubes are both necessary and useful. Stroi. t:uboprov.  
6 no. 2:22-23 F '61. (MIRA 14:5)  
(Gas pipes)

NECHAYEV, M.A.

In the Main Administration of the Gas Industry of the USSR  
Gazprom. 6 no.4:56'61.  
(Gas Industry)

NECHAYEV, Mikhail Aleksandrovich. Prinimal uchastiye MITROFANOV, I.A.,  
inzh.; ZUBAREV, S.A., retsenzent; LEVIN, A.M., retsenzent;  
SIGAL, I.Ya., retsenzeng; KOLYADA, I.A., retsenzent; STOLPNER,  
Ye.B., nauchnyy red.; FEDOTOVA, M.I., ved. red.; SAFRONOVA, I.M.,  
tekhn. red.

[Safety measures in the transportation, distribution, and use  
of gas fuel] Tekhnika bezopasnosti pri transportirovke, ras-  
predelenii i ispol'zovaniyu gazovogo topliva. Izd.3., perer.  
i dop. Leningrad, Gostoptekhizdat, 1962. 299 p.  
(MIRA 15:4)

(Gas as fuel—Safety measures)

NECHAYEV, M.A.; ISSERLIN, A.S.; MLODOK, B.I.; VLCHNIKOVA, A.N.;  
STOLPNER, Ye.B., nauchnyy red.; DEGALYI, N.G., vch. red.;  
YASHCHURZHINSKAYA, A.B., tekhn. red.

[Pocket guide for the gas distribution workers] karmannyyi prav-  
vochnik ravnostnika gazovo-ro khoziaistva. Leningrad, Gostoptekh-  
izdat, 1962. 526 p.  
(Gas distribution) (Gas appliances)

NECHAYEV, Mikhail Aleksandrovich; LAPER'YE, I.R., nauchnyy red.;  
DUSHALYT, M.G., ved. red.; YASHCHURZHINSKAYA, A.B.,  
tekhn. red.

[Equipment and devices used for safety control in the gas  
industry] Inventar' i pribory gazovoi tekhniki besopasnosti.  
Leningrad, Gostoptekhizdat, 1963. 69 p. (MIRA 16:7)  
(Gas industry--Safety measures)

ANDREYEV, German Sergeyevich; KHOR'KOV, A. I., red.; BARMIN, S.F.,  
nauchn. red.; LEBEDEV-TSVETKOV, Yu.Yu., red.; MITROFANOV,  
I.A., red.; NECHAYEV, M.A., red.; RUSAKOVA, L.Ya., ved.  
red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Firing-line method on main gas pipes] Vedenie ognevyykh ra-  
bot na magistral'nom gazoprovode. Leningrad, Gostoptekhiz-  
dat, 1963. 110 p. (MIRA 16:10)  
(Gas, Natural--Pipelines)

SKRYABIN, Viktor Georgiyevich; NECHAYEV, M.A., nauchn. red.;  
RUSAKOVA, L.Ya., ved. red.

[Scavenging and testing gas pipelines] Producika i ispy-  
tanie magistral'nykh gazoprovodov. Leningrad, Gostoptekh-  
izdat, 1963. 106 p. (MIRA 17:3)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

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NECHAYEV, M.A. (Leningrad); SKAFTYAMOV, N.A. (Rostov-na-Donu)

Is it necessary to test gas pipelines for tightness? Справочник  
prov. 9 no.2:33-34 F '64. (MIRA 17:3)

TIKHOVSKIY, Mikhail - Tanaevich; I. V., b. ..., red.; Vasil'ev, V. V., red.; TIKHONIKOV, Yefim, red.; L. V. Tikhonikov, red.; L. V. Tikhonikov, red.; L. V. Tikhonikov, red.; L. V. Tikhonikov, red.

Safety technique manual and operation guide for  
sparseness in the introduction of new technologies. Leningrad, Sov.  
vo "Tsvet," 1984. 176 p.

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TIKHOVSKIY, Yevgeniy Nikolayevich; KHOKHLOV, A.I., red.; BARMIN,  
S.F., red.; KIRGOFANOV, I.A., red.; MUSAYEV, V.A., red.  
OL'VOVSKIY, I.G., nauchn. red.; NEVEL'SHETIN, V.I., red.  
red.

[Assembly, adjustment, and operation of devices for the  
electrical protection of pipelines] Montazh, naizdka i  
ekspluatatsiya ustroistv elektrozashchity naistral'nykh  
truboprovodov. Leningrad, Nedra, 1974. 146 p.  
(VNIKA 17:12)

PETROV, Vladimir Petrovich; NEZHAYEV, M.A., nauchn. red.; ZAIKIN, V.G., ved. red.

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(Transport planes)

NECHAYE V. 11. IV.

THE AFRICAN AMERICAN MUSEUM IN DALLAS, TEXAS, WILL CELEBRATE THE 10TH ANNIVERSARY OF THE MUSEUM'S EXHIBITION "AFRICAN AMERICANS IN THE 20TH CENTURY" ON APRIL 25, 1992.

The paper under consideration investigates a convergent cylindrical wave in the case of electromagnetic waves, where the state of the transition region from the initial state to the final state is arbitrary. The separation of a wave and its front width A half-space supplied with an ideal conductor is bounded by a vacuum with a static magnetic field  $H_0$ , as in the plane  $x = 0$ . Furthermore, a plane shock wave is supposed to move in this conductor, the entire surface of this conductor is in agreement with the velocity  $v$  in the direction towards the field. In the field, however, the electromagnetic wave proceeds with the velocity  $c$ . A conservation law holds for the magnetic field strength according to that :  $H_{\text{front}}^2 = H_0^2 + \frac{1}{2}v^2$ ,  $H_{\text{front}} = H_0$  denoting the field strength in the rear of the wave. There exists no electric field in the coordinate system moving with the wall. Subsequently the variation of the field on the moving wall is studied, and it will be shown that the polarization wave, which is caused by the finite, spreading front, has a finite and infinite field. But the field does not have a finite value at very small time widths if the front can be regarded as a sharp

On the motion field Shock Waves and their Application. [T-1]

cooling the conductor by a convergent cylindrical wave and cooling  
A convergent wave is formed by focusing an electrical current in a  
cylinder, in principle. One can obtain a circular current, and by  
the reflection of a part of the current wave at the boundary and  
by the motion of a piston, one can also obtain a convergent wave.  
The amplitude of the pressure of a convergent wave is proportional  
to the square of the amplitude with the term  $\ln r$ . The effect  
of a convergent wave on the cooling of a convergent cylinder, and  
the calculation of the range of applicability of the  
method of cooling by a convergent acoustic wave. There are no diffi-  
culties for the application of the method of cooling by a convergent wave.

Institute for Strength Problems of the USSR,  
Institut Kineticheskayi Fiziki AN SSSR,

February 11, 1971

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