

MUSIYKO, A.S.; KLYUCHKO, P.F., kand. sel'skokhozyaystvennykh nauk .

New promising corn hybrids. Dokl. Akad. sel'khoz. 24 no.3:6-9
'59. (MIRA 12:5)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk im. Lenina (for Musiyko).
(Corn (Maize)--Varieties)

MUSIYKO, Aleksandr Samsonovich [Musiko, O.S.], doktor sel'khoz.
nauk; KLYUCHKO, Petr Fedorovich, kand. sel'khoz.nauk; VINNITSKIY, S.,
[Vinnyts'kyi, S.], red.; VOLCHANOVA, T., tekhn. red.
[Good seeds are a guarantee of high-crop yields] Dobre nasin-
niasaporuka vysokoho vroschayu. Odesa, Odes'ke kryshkove vyd-
vo, 1959. 29 p. (MIRA 15:7)

1. Vsesoyuznyy selektsionno-geneticheskiy institut im.
T.D.Lisenka, Odesskoy oblasti (for Musiyko, Klyuchko).
(Ukraine--Corn (Maize))

BLAZHEVSKIY, Ye.V., dvazhdy Geroy Sotsialisticheskogo Truda; VOVCHENKO, I.V., kand. sel'khoz. nauk, sasl. agronom Ukr.SSR; VOROB'YEV, N.Ye., st. nauchn. sotr.; GESHELE, E.E., doktor biol. nauk, prof.; ZUBRITSKIY, A.A., agronom; KISEL'GOF, Z.S., inzh., sasl. mekhanizator sel'skogo khoz. Ukr.SSR; KLYUCHKO, P.F., kand. sel'khoz. nauk; KORCHAGIN, A.Ye.; LEHEDEV, Ye.M., st. nauchn. sotr.; NASYPAYKO, V.M., kand. sel'khoz. nauk; PIKUS, G.P., kand. sel'khoz. nauk; REKACH, V.N., doktor sel'khoz. nauk, prof.; SPIVAK, I.I., sootekhnik; TEMCHENKO, L.V., kand. sel'khoz. nauk; PEDULAYEV, A.A., agronom; YAKOVENKO, V.A., kand. tekhn. nauk; KITAYEV, I.A., kand. sel'khoz. nauk, red.; MUSIYKO, A.S., akademik, red.; VINNITSKIY, S.P., red.; MOLCHANOVA, T.N., tekhn. red.

[For high corn yields] Za bol'shiyu kukurusu. [By] E.V. Blazhevskii i dr. Odessa, Odesskoe knizhnoe izd-vo, 1962. 173 p. (MIRA 16:7)

1. Zven'yevy kolkhoza im. Gor'kogo Kotovskogo rayona na Odesshochine (for Blazhevskiy). 2. Glavnyy agronom sovkhosa "Bessarabskiy" (for Korchagin). 3. Ukrainskaya akademiya sel'skokhozyaystvennykh nauk (for Musiyko). (Ukraine--Corn (Maize))

MUSIYKO, A.S., KLIVUCHKO, P.F., kand.sel'skokhosiaystvennykh nauk

Developing and introducing in the production of new corn hybrids and varieties. Agrobiologiya no.3:335-344 My-Je '62.

(MIRA 15:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy selektsionno-geneticheskiy institut, Odessa. 2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhosiaystvennykh nauk imeni Lenina (for Musiyko).

(VARIETIES)

MUSIYKO, A.S.; KLYUCHKO, P.F., kand. sel'skokhoz. nauk

New corn varieties for food. Dokl. Akad. sel'khoz. nauk no. 3:8-11
Mr. 165. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy selektsionno-geneticheskiy
institut imeni Lysenko. 2. Chlen-korrespondent Vsesoyuznoy
akademii sel'skokhozyaystvennykh nauk imeni Lenina (for Musiyko).

KLYUCHKO, P.V., inzh.; ROZIN, V.A., kand. tekhn. nauk; TYSHOVA, Ye.N., inzh.

Land improvement in Poland. Gidr. i mel. 17 no.7:49-55
Jl '65.

(MIRA 18:12)

1. Kaliningradskoye oblastnoye upravleniye vodnogo khozyaystva
(for Klyuchko). 2. Severnyy nauchno-issledovat'skiy institut
gidrotekhniki i melioratsii (for Rozin). 3. Respublikanskiy
gosudarstvennyy institut po proyektirovaniyu vodokhozyaystvennogo
i meliorativnogo stroitel'stva RSFSR (for Tyshova).

KLYUCHKO, V.

Training flight with freight. Qrashd. av. 21 no.6:5 Je '64.
(MIRA 17:8)

1. Zamestitel' komandira uchebnogo podrasdeleniya po letnoy
i metodicheskoy rabote Buguruslanskogo letnogo uchilishcha.

ILYUCHKO, V. A. insh.

Changes in the plane-parallel conveyor used at the "Gomel'mash"
Plant. Mash.Bol. no.4:14-16 '57. (MIRA 11:9)
(Conveying machinery)

KLYUCHKO, Z. F.

USSR/General and Special Zoology. Insects.
Biology and Ecology.

P

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92153

Author : *Klyuchko, Z. F.*

Inst : AS USSR

Title : The Flight of Noctuid Moths (Lepidoptera,
Noctuidae) to Different Sources of Light.

Orig Pub : Dokl. AN SSSR, 1957, 117, No 1, 134-137

Abstract : Under the conditions prevailing in the
western oblast's of the Ukraine a compa-
rison was made between the intensity of the
cutworm moths (CM) flight to light pro-
duced by a PRK-4 mercury-quartz lamp and
a 300 watt incandescent lamp. Radiation
produced by the PRK-4 lamp attracts the

Card : 1/3

Kiev State Univ. in T.G. Sherchenko

USSR/General and Special Zoology. Insects.
Biology and Ecology.

P

Abs Jour : Ref Zhur-Biol., No 20, 1958, 92153

CM to a greater extent than the light of the incandescent lamp. Numerically the catch in the conical trap with the PRK-4 lamp was 5 times greater than the catch into a similar trap with the incandescent lamp. The collections resulting from the light of the first lamp were richer in the number of varieties as well. During the simultaneous operation of both lamps 54 varieties of CM (37 percent) flew only towards the PRK-4. Some CM (*Episema coeruleocephala*, *Erastria pusilla*) flew in about equal numbers towards the light of both sources. The intensity of flight of

Card : 2/3

KLYUCHKO, Z.P.; FRANTSEVICH, L.I.

Light traps for collecting insects. Vop. skol. 4:115-118 '62.
(MIRA 15:11)

1. Gosudarstvennyy universitet, Kiev.
(Insect traps)

KLYUCHKO, Z.F.

Ecologic characteristics of moths injurious to farm crops in the western provinces of the Ukraine. Vop. ekol. 7:76-77 '62.

(MIRA 16:5)

1. Kiyevskiy gosudarstvennyy universitet.

(Ukraine, Western--Moths)

(Ukraine, Western--Field crops--Diseases and pests)

KLYUCHKO, Z.F.

New species of owl moths (Noctuidae) on the territory of the Ukraine.
Dop. AN URSSR no.51559-661 '63. (MIRA 17:9)

1. Kiyevskiy gosudarstvennyy universitet. Predstavleno akademikom
AN UkrSSR P.A.Sviridenko [Svyrydenko, P.O.].

KLYUCHKO, Z.F.

Distribution of some moths in different biotopes of the
steppe zone of the Ukraine. Dop. AN URSR no.11:1543-1546 '64.
(MIRA 18:1)

1. Kiyevskiy gosudarstvennyy universitet. Predstavleno
akademikom AN UkrSSR A.P. Markevichem [Markevych, O.P.].

KLYUCHKO, Z.F., starshiy nauchnyy sotrudnik

The meadow moth *Girphis unipuncta* in the Ukraine. Zashch. rast.
ot vred. i bol. 9 no.10:44 '64 (MIRA 18:1)

1. Kiyevskiy universitet.

KLYUCHKO, Z.F.

Study of injurious moths in the steppe zone of the Ukraine.
Pratsi Inst. zool. AN URSR 20:212-216 '64.

(MIRA 18:4)

Card 1/1

U.S. 522-918-871-19291712221584162

KLYUCHNIK, A.

"Moscow, festival, 'Kiev'." Sov. foto 18 no.5:81-82 Ny '58.
(MIRA 11:5)

1. Zav. otdelom partiynoy shizni gazety "Chernomorskaya kommuna."
(Cameras)
(Russia--Relations (General) with Italy)
(Italy--Relations (General) with Russia)

LIPPA, Ivan Trofimovich; KLYUCHNIK, A., red.; MOLCHANOVA, T., tekhn. red.

[Behind the facade of "prosperity"; condition of the working youth
in modern England] Za fasadom "prosvetaniia"; polozhenie rabochei
molodeshi v sovremennoi Anglii. Odessa, Odesskoe knizhnoe izd-vo
1961. 121 p. (MIRA 14:11)

(Great Britain—Youth—Employment)

KLYUCHNIK, Aleksandr Goryevich

[Belgorod-Dnestrovskiy] Belgorod-Dnestrovskii. Odessa, Odes-
skoe knizhnoe izd-vo, 1960. 145 p.
(Belgorod-Dnestrovskiy—Description) (MIRA 14:8)

KLYUCHNIK, E. A.

7854. Safronov, A. I., KLYUCHNIK, E. A. I Alik, A. YA. Traktor khts-7. pod
obshch. red. o. klyuchnik, Riga, Latgosiadat, 1954. 204 S. 8111.; 40 td. 1.
chert. 23 sm. 8.000 eks. 7r. 5k. vper.--na latysh. yas.--(55-2868)

629.114.2

SO: Knishuaya Letopis', Vol. 7, 1955

SHURA-BURA, B.L.; TARARIN, R.A.; KLYUCHNIK, N.S.

Study of the migration of gray rats using labeled atoms. Zhur.
mikrobiol., epid. i immun. 33 no.12:76-81 D '62. (MIRA 16:5)

1. Is Voenno-meditsinskoy akademii i Leningradskoy portovoy
protivoolichnyoy stantsii.

(RATS) (ANIMAL MIGRATION) PHOSPHORUS ISOTOPES)

KLYUCHNIK, N.S.; STAROSTINA, A.V.

Nonsynanthropic species of rodents in Leningrad. Zool. zhur. 42
no.10:1554-1561 '63. (MIRA 16:12)

1. Anti-Plague Port and Urban Observation Station of Leningrad.

KLYUCHNIK, V.K.; TSERLYUK, A.L.; STOROZHNIK, D.A.; LEONOVA, A.V.

Standardizing blast furnace charging equipment. Met. i gornorud. prom.
no.3:14-16 My-Je '63. (MIRA 17:1)

1. Dnepropetrovskiy proyektno-konstruktorskiy tekhnologicheskii institut (for Klyuchnik, Tserlyuk). 2. Dnepropetrovskiy metallurgicheskii institut (for Storozhnik, Leonova).

KLYUCHNIKOV, A., insh.

Birth of a micromodule. Radio no. 5150-52, 54 My '65. (MIRA 18:5)

KLYUCHNIKOV, A. D.

Klyuchnikov, A. D. — "Experimental Investigation of the Organization of External Heat Exchange in the Working Chamber of an Uniflow Steel Furnace." Min Higher Education USSR, Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov, Moscow, 1955 (Dissertation for Degree of Candidate of Technical Sciences).

SO: Knishnaya Letopis', No. 23, Moscow, June, 1955, pp. 87-104.

18(3)
AUTHOR:

Klyushnikov, A. D.

SOV/163-58-4-19/47

TITLE:

Application of the Theory of Similarity in the Analysis of Thermal Work and in the Calculation of Siemens-Martin Furnaces
(Primeneniye teorii podobiya k analizu teplovoy raboty i raschetu martenovakikh pechey)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1958, Nr 4, pp 111 - 117 (USSR)

ABSTRACT:

Here the most essential decisive conditions (criteria) for the melting chamber of Siemens-Martin furnaces are investigated. These can be used to solve a number of practical tasks in connection with the calculation, with the comparison analysis of thermal work, and with the selection of economical heat storage in these furnaces. The principal conditions are described which determine the thermal work of the melting chamber of Siemens-Martin furnaces. In a comparison analysis, the number of these conditions can be greatly reduced. From this point of view, the conditions necessary for a comparison analysis are mentioned. Then, the parameters of similar Siemens-Martin furnaces are given. The degree of similarity of Siemens-Martin furnaces in operation is investigated, and

Card 1/2

AUTHOR: Klyuchnikov, A. D.

80V/32-24-7-52/63

TITLE: A Device for the Investigation of the Thermal Operation of
Furnaces (K voprosu o priborakh dlya issledovaniya teplovoy
raboty metallurgicheskikh pechey)

PERIODICAL: Zavodskaya Laboratoriya, 1956, Vol. 24, Nr 7,
pp. 895 - 897 (USSR)

ABSTRACT: The authors constructed an apparatus for the measurement of
heat flows in metallurgical furnaces based on extended surfaces.
The heat-measuring device represents a welded construction con-
sisting of two heat intakes, an upper and a lower, which are
isolated from each other by an asbestos cord or slag wool. Both
of the measuring elements are water cooled. In the interior
there are 4 - 6 chromium/alumel thermocouples connected in
series in a copper tube. The current of the radiation energy
striking the corresponding surface of the furnace in a random
cross section is determined according to an equation. An ex-
perimental control showed that the heat flow as measured by
these heat-measuring devices with segment heat intakes is prac-
tically equal to the heat flow of semispherical radiations fixed

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18(5)

SOV/148-59-1-10/19

AUTHOR: Klyuchnikov, A.D., Candidate of Technical Sciences

TITLE: A Method of Comparative Rating of the Operation of Open-Hearth Furnace Port Ends (Metod sravnitel'noy otsenki raboty golovok martenovskikh peshey)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Chernaya metallurgiya, 1959, Nr 1, pp 91-96 (USSR)

ABSTRACT: Information is given on a comparative method developed for the purpose of speeded-up experimental rating of the operation of open-hearth furnace port ends. The method is recommended for practical use and consists in carrying out qualitative analyses of graphs on the relative distribution of descending heat flows in the open-hearth pool. Laboratory experiments and investigations, carried out by the Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (All-Union Scientific Research Institute of Metallurgical Thermal Engineering) led to the following conclusions: The heat susceptibility of the pool depends on the degree of non-uniformity in the distribution of the average descending heat flow. The character of the descending heat flow is an objec-

Card 1/2

SEMEHENKO, N.A., prof., doktor tekhn.nauk; KLYUCHNIKOV, A.D., kand.
tekhn.nauk

Possibility of increasing heat exchanges in steel-smelting
furnaces; answering Professor M.A.Glinkov. Izv.vys.ucheb.sav;
chern.met. 2 no.8:181-183 Ag '59. (MIRA 13:4)

1. Kafedra ognevoy promteplotekhniki Moskovskogo energeti-
cheskogo instituta.
(Open-hearth furnaces) (Heat--Transmission)

KLYUCHNIKOV, A.D., kand.tekhn.nauk

Some ways for raising the productivity and heat economy of
steel furnaces. Izv.vys.ucheb.sov.; energ. 3 no.3:93-100
Mr '60. (MIRA 1313)

1. Moskovskiy ordena Lenina energeticheskiy institut.
(Steel) (Furnaces)

KIYUCHNIKOV, A.D.; VOLCHKOV, E.P.

Increasing the uniformity of ingot heating in height, in recuperative soaking pits with heating from the hearth center. Izv. vys. ucheb. zav.; Chern. met. 4 no.12:157-165 '61. (MIRA 15:1)

1. Moskovskiy energeticheskiy institut.
(Furnaces, Heating)

KLYUCHNIKOV, A.D., kand.tekhn.nauk, dotsent

Increasing the output of open-hearth furnaces. Stal' 21 no.6:564-565
Je '61. (MIRA 14:5)

1.Moskovskiy energeticheskiy institut.
(Open-hearth furnaces—Design and construction)

KLYUCHNIKOV, A.D.

Role of radiance and criteria for evaluating the radiant
efficiency of a flame in furnaces. Gas. prom. 7 no.9:25-28
'62. (MIRA 17:8)

9/11/63/000/002/001/003
AC04/A127

AUTHORS: Yemel'yanov, V.A., Kuz'min, V.N., Engineers, ~~Klyuchnikov, A.D.~~,
Lecturer, Candidate of Technical Sciences

TITLE: Analyzing the heat-treatment conditions of pulverized material
in cyclone melting furnaces

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Energetika, no. 2,
1963, 71 - 76

TEXT: The authors present a detailed analysis of the melting process
in cyclone furnaces, which, hitherto, have been very little investigated.
They give the results of the first stage of calculation investigations of
the movements of particles of various materials in cyclone furnaces depend-
ing on a number of determining factors, as well as a qualitative analysis
of the heat-treatment of the pulverized material. The calculations were
carried out on a MM-7 (MN-7) computer of the Computing Center of the Mos-
kovskiy energeticheskiy institut (Moscow Power Engineering Institute).
Formulae are presented for calculating the various factors, such as the
movement of solid particles in a curvilinear gas stream, dependence of the

Card 1/2

Analyzing the heat-treatment conditions ... 8/143/63/000/002/001/003
A004/A127

particle flight time τ on the particle size, etc. The investigation results are presented in the form of graphs. It is pointed out that this research work will be continued to show the significance of the various factors depending on the different ways of feeding the material into the cyclone furnace. There are 6 figures.

ASSOCIATION: Moskovskiy ordena Lenina energeticheskii institut (Moscow
"Order of Lenin" Power Engineering Institute)

SUBMITTED: November 22, 1961

Card 2/2

KLYUCHENIKOV, A.D.; AGARKOV, Ye.Ye.

Generalization of some studies of radiative heat transfer in
a flame furnace. Inzh.-fiz. zhur. 6 no.6:78-84, Je '63.
(MIRA 16:6)

1. Energeticheskiy institut, g. Moskva.
(Heat—Radiation and absorption)
(Furnaces)

KLYUCHNIKOV, A.D.

Modeling a multiple low-temperature gas flow in furnaces and
boiler fire boxes. *Izv. vys. ucheb. zav.; Chern. met.* 6
no.6:184-187 '63. (MIRA 16:8)

1. Moskovskiy energeticheskiy institut.
(Gas flow--Mathematical models)

YEMEL'YANOV, V.A., inzh.; KLYUCHNIKOV, A.D., kand. tekhn. nauk, dotsent

Modeling of the flame and thermal operation of cyclone
furnaces. Izv. vys. ucheb. zav.; energ. 7 no. 2:56-63 7 '64.
(MIRA 1713)

1. Moskovskiy ordena Lenina energeticheskiy institut.
Predstavlena kafedroy ognevoy teplotekhniki.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723310010
YEMEL'YANOV, V.A., inzh.; KLYUCHNIKOV, A.D., kand. tekhn. nauk, dotsent

Analysis of heat conditions in the thermal treatment of a
material in a smelting cyclone. Izv. vys. ucheb. zav.;
energ. 7 no. 7:41-47 31 '64 (MIRA 1718)

1. Moskovskiy ordena Lenina energeticheskiy institut. Predstav-
lena kafedroy ognevoy promyshlennosti teplotekhniki.

L 05661-67 EWT(1) WW

ACC NR: AP6024821

SOURCE CODE: UR/0096/66/000/008/0068/0072

AUTHOR: Klyuchnikov, A. D. (Candidate of technical sciences)ORG: Moscow Power Engineering Institute (Moskovskiy energeticheskiy institut)

TITLE: Radiant heat exchange between a selectively radiating isothermal gaseous medium and a gray wall

SOURCE: Teploenergetika, no. 8, 1966, 68-72

TOPIC TAGS: gray body radiation, isothermal flow, radiative heat transfer, combustion

ABSTRACT: Equations are derived for radiant heat exchange between a medium and a wall for the case of gray-selective dust-free and gray-selective dusty gases. The first case corresponds most closely to clean fuel gases while the second corresponds to fuel gases with combustion of coal dust and fuel gases containing various types of waste. The formula derived for radiative heat transfer from a gray-selective gas to a gray wall may be used for calculations involving dust-free flue gases (a mixture of CO_2 , H_2O , N_2 , etc.) if sufficiently reliable data are available on the degree of radiation blackness of the gas. In a similar manner the equation derived for heat transfer from a dust-laden gas to a gray wall may be used for practical calculations where reliable data are available on the degree of blackness of the gas due to radiation of

UDC: 536.24:535.2.001.1

Card 1/2

L 05661-67

ACC NR: AP6024821

the particles suspended in it. These formulas are strictly true for gray-selective, isothermal media and isothermal walls. The formulas are also limited to gas volumes in the form of a sphere, infinite cylinder or infinite plane layer. The method proposed in this paper has been used for solving more complex problems in radiative heat exchange involving gray-selective dust-free and dust-laden media. Orig. art. has: 5 figures, 23 formulas.

SUB CODE: 20/ SUBM DATE: None/ ORIG REF: 006

Card 2/2

ACC NR: AP6036435

(N)

SOURCE CODE: UR/0096/66/000/012/0080/0083

AUTHOR: Klyuchnikov, A. D. (Candidate of Technical Sciences)

ORG: Moscow Institute of Power Engineering (Moskovskiy energeticheskiy institut)

TITLE: Method of determining the actual temperature of a gas stream from the readings of two thermocouples

SOURCE: Teploenergetika, no. 12, 1966, 80-83

TOPIC TAGS: gas flow, thermocouple, flow temperature measurement

ABSTRACT: In order to calculate the temperatures of a gas stream from the readings of two thermocouples, sufficiently rigorous and universal equations are required. A new method is proposed which is suitable for a wide scope of application and increases the accuracy of determination of the temperature of a gas stream as compared to the existing equations. Expressions are derived for gas temperatures and Nusselt numbers in cases of spherical and cylindrical thermocouple junctions. The accuracy of the temperature values is increased by considering the aerodynamics of the gas stream, its temperature level, and also the diameter of the thermocouple junction and its degree of blackness. Orig. art. has: 3 figures, 1 table and 15 formulas.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 006

Card 1/1

UDC: 536.5.536.532.001.4

KLUCHENIKOV, A. I.; MERKULOV, M. D.

Peanuts

Machines for harvesting peanuts, Sel'khoz mashina, No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952, Uncl.

KLYUCHNIKOV, A.I., kandidat sel'skokhozyaystvennykh nauk; KHOTULEV, N.I.;
Inzhener; DEYUBLO, A.F., agronom.

Results of testing castor bean shellers. Sel'khoz mashina no.12;
4-7 D '55. (MIRA 9:3)
(Agricultural machinery)

KLYUCHNIKOV, A.I., kandidat sel'skokhozyaystvennykh nauk.

Mechanising the cultivation of sunflowers in the Kuban. Zemle-
delie 4 no.5:56-59 My '56. (MLRA 9:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i
efiromaslichnykh kul'tur.
(Kuban--Sunflowers) (Agricultural machinery)

KLYUCHNIKOV, Andrey Ivanovich; TOKAREV, Tikhon Matveyevich.

[General mechanization of the cultivation and harvesting of sun-
flowers] Kompleksnaya mekhanizatsiya vosklyvaniya i uborki
podsolnechnika. Moskva, Gos. izd-vo selkhoz. lit-ry, 1958. 95 p.
(Sunflowers) (MIRA 11:10)

SEMIKHODENKO, Pavel Grigor'yevich, kand.sel'skokhos.nauk; KLYUCHNIKOV, A.I.,
kand.sel'skokhos.nauk; TOKAROV, T.M., kand.sel'skokhos.nauk;
YAGODKINA, V.P.; PETERSKAYA, A.M.; ANTONOVA, M.M., red.; DZHYVA,
V.M., tekhn.red.

[Sunflower cultivation] Kul'tura podsolnechnika. Moskva, Gos.
izd-vo sel'khos.lit-ry, 1960. 275 p. (MIRA 13:10)
(Sunflowers)

KLYUCHNIKOV, A.I., kand. sel'skokhozyaystvennykh nauk; KURUNIN, P.A.

Mechanization of soybean growing and harvesting. Zemledelie
24 no.5:46-48 My '62. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh
i efiromaslichnykh kul'tur.
(Soybean)
(Agricultural machinery)

KLIDCHNIKOV, Andrey Ivanovich; TOKAREV, Tikhon Matveyevich;
ORETSOV, P.P., red.; TRUKHINA, O.N., tekhn. red.

[Over-all mechanization of sunflower growing and
harvesting] Kompleksnaya mekhanizatsiya vosdelyvaniya
i uborki podsolnechnika. Izd.2., ispr. i dop. Moskva,
Sel'khozizdat, 1963. 103 p. (MIRA 16:6)
(Sunflowers)

KLYUCHNIKOV, A.S.

The communications office of the district has become an enterprise of communist labor. Vest. svyazi 22 no.1:31 Ja '62.

(MIRA 14:12)

1. Nachal'nik Mustayevskoy rayonnoy kontory svyazi Orenburgskoy oblasti.

(Mustayevo District--Telecommunication)

KLYUCHNIKOV, A.T. (L'vov)

From practices in the organization of teaching. Shvein. prom.
no.4:8-9 JI-Ag '62. (MIRA 16:6)

(Vocational education)

BARON, L.I., doktor tekhn. nauk; KLYUCHNIKOV, A.V., inzh.

Basic parameters of smooth blasting depending on the breakability
and fractured state of rocks. Vseyv. delo no.57/14:272-282 '65.
(MIRA 18:11)

1. Institut gornogo dela imeni Skochinskogo (for Baron).
2. Kol'skiy filial AN SSSR (for Klyuchnikov).

KLYUCHNIKOV, Boris Fedorovich; VARSHAVSKIY, A.S. red.; KONOBOVA,
N.D., tekhn. red.

[Fifth column in the trade unions of the Federal Republic
of Germany] Piataia kolonna v profsoiuzakh FRG.. Moskva,
Profizdat, 1962. 125 p. (MIRA 15:11)
(Germany, West--Trade unions)

КЛУЧНИКОВ, Р.В.

BORISOV, N.Ya.; ABRAMOVA, M.A., redaktor; GHEST, V.M., redaktor; ~~КЛУЧНИКОВ, Р.В.~~
~~Р.В.~~ redaktor; FILIPPOV, A.P., redaktor; ALEKSEYEVA, E.A.,
tekhnicheskii redaktor

[City of the great Lenin] Gorod velikogo Lenina. [Leningrad]
Lenizdat, 1957. 654 p.
(Leningrad--Description) (MLRA 10:9)

KLYUCHNIKOV, B. V., Candidate Tech Sci (diss) -- "Investigation of the effect of agricultural soil-improvement measures in drying land on the operation of sowing and harvesting machines". Leningrad, 1959. 16 pp (Min Agric USSR, Leningrad Agric Inst), 120 copies (KL, No 25, 1959, 134)

KLYUCHNIKOV, Boris Vladimirovich, kand. tekhn. nauk; DMITRIYEV,
N.N., red.

[Machinery for land reclamation and peat harvesting; a
brief handbook] Mashiny dlia meliorativnykh rabot i do-
bychi torfa; kratkii spravochnik. Leningrad, Lenizdat,
1964. 150 p.
(MIRA 18:7)

L 00686-67

ACC NR: AP6032107

EWI(k)/EWI(l)/EWI(m)/EWI(w)/EWI(f)/EWI(v) IJP(c) EM/WH/JD
SOURCE CODE: UR/0096/66/000/010/0070/0072

AUTHOR: Klyuchnikov, G. M. (Engineer; Dissertant); Strunkin, V. A. (Candidate of technical sciences)

ORG: Kazan Aviation Institute (Kazanskiy aviatsionnyy institut)

TITLE: Investigating the degree-of-reaction effect on the working cycle of a turbine stage

SOURCE: Teploenergetika, no. 10, 1966, 70-72

TOPIC TAGS: gas turbine engine, turbine stage, turbine design, turbine stage efficiency

ABSTRACT: An experimental analysis of the effectiveness of gas turbine stages with cylindrical and twisted rotor blades is presented for various degrees of reaction, as well as with suction of air through the axial root-clearance gap. Tests of five turbine stages were performed on an experimental air turbine under following conditions at the mean blade diameter: pressure ratio 1.4; temperature 360—390K; Mach number M 0.6—0.7; and Reynolds number Re $(6-7)10^5$. The mean values of the degrees of reaction ρ and of the outlet angles β_2 of the rotor were: stages 1 and 4: $\rho = 0.25$; $\beta_2 = 24^\circ$; stages 3 and 5: $\rho = 0$; $\beta_2 = 32^\circ 30'$; stage 2: $\rho = -0.12$; $\alpha = 26^\circ 45'$. The tips of blades in all stages were connected by a shroud. The same nozzle system with cylindrical blades having radial outlet edges was used in testing all stages.

Card 1/2

UDC: 621.165.001.5

L 08686-67

ACC NR: AP6032187

The effect of the degree of reaction on the efficiency of a stage, was established by direct measurement of variable losses. The results of the testing of the performance characteristics are presented as well as diagrams illustrating the behavior of following stage parameters: the dependence of the internal efficiency on velocity-components for a certain radial clearance; the effect of the velocity-components on the degree of reaction; and a comparison of stage efficiencies, of losses, and of velocity coefficients for various degrees of reaction. The interdependence of the degree of reaction (at the roots and the tips of blades) and the losses associated with the gas suction through the axial root-clearance gap was investigated on stage 3 at $M = 0.8$, $Re = 8 \times 10^5$, $\rho = -0.24$, with a root gap of 4 mm. The results show that the reactivity increases with increasing intensity of the suction; experimental formulas for determining the degrees of reaction are derived. The dependence of efficiency on suction, and of the losses caused by the suction on the degree of reactivity are shown in diagrams and are analyzed. An experimental formula for determining the losses caused by suction is also given. Orig. art. has: 7 figures and 3 formulas.

SUB CODE: 21/ SUBM DATE: none/ ORIG REF: 015/

Cord 2/2 j i

KLYUCHNIKOV, G.Ya., insh.

Making foundations from cement and sand mixtures prepared in
the G-1 mixer. Avt. dor. 27 no.2:18-20 F '64. (MIRA 17:3)

ELYUCHNIKOV, I., polkovnik

Source of inspiration. Komm. Voorazh. 511 4 no.16:35-38 Ag '64.
(MIRA 17:10)

KLYUCHNIKOV, Ivan Ivanovich; ARKHANGEL'SKIY, Andrey Sergeyevich; Prinyatiye
uchastiye: VISOKOSOV, V.I., SOKOLOV, Yu.L., BALANDINSKIY, Ye.D.,
SOSNOV, V.D., otv. red.; SILINA, L.A., red. izd-va; IL'INSKAYA,
G.M., tekhn. red.

[Cutter-loaders PKG-3 and PKG-4] Prokhodchieskie kombainy PKG-3 i
PKG-4. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu,
1961. 174 p. (MIRA 14:8)

(Mining machinery)

KLYUCHNIKOV, K.

Carry out the seven-year plan in five years. WFO no.8:55 Ag '59.

(MIRA 12:11)

1. Chlen Nauchno-tekhnicheskogo obshchestva Gornoye, g. Krivoy Rog.
(Krivoy Rog--Efficiency, Industrial)

KLYUCHNIKOV, Konstantin Ivanovich; PRISHEL', M., otv.red.; ZAVKENTAYNA, L.,
Red.IUG-VN; ZAVKENTAYNA, L., tekhn.red.

[Collection of problems on credit organisation and planning]
Sbornik zadach po organizatsii i planirovaniu kredita. Moskva,
Gosfinisdat, 1960. 223 p. (MIRA 13:7)
(Credit)

KLYUCHNIKOV, L. YU.

USSR/Weeds and Their Control.

N.

Abs Jour : Ref Zhur - Biol., No 15, 1958, 68471

Author : Klyuchnikov, L. Yu.

Inst : Agricultural Institute of the Central Chernozem Belt
Imeni Dokuchayev

Title : An Experiment in the Application of Hericides Against
Weeds in Shelter Stands.

Orig Pub : Lesn. kh-vo, 1957, No 8, 42-43.

Abstract : In weed control in forest belts it is proposed that the
belts be so treated that the preparations should not fall
on the most vulnerable parts of the trees -- growth buds,
young shoots, leaves, etc., in other words up to a height
of 10-15 centimeters above the surface. The experiments
were conducted in 1956 at the Agricultural Institute of
the Central Chernozem Belt imeni Dokuchayev on plots with

Card 1/3

- 8 -

KLYUCHNIKOV, L.Yu.; PETROVA, A.N.; POLESKO, Yu.A.

Effect of simazine and atrazine on the microflora of sandy soil.
Mikrobiologiya 33 no.6:992-996 M-D '64.

(MIRA 18:4)

1. Institut mikrobiologii AN SSSR i Nizhnedneprovskaya nauchno-
issledovatel'skaya stantsiya obleseniya peskov i vinogradarstva
na peskakh.

KLYUCHNIKOV, L. Yu. Cand Agr Sci -- (diss) "Use of herbicides in forest
belts." *Full Name of Author* Voronezh, 1959. 17 pp (Min of Agr RSPSR. Voronezh Forestry
Engineering Inst), 150 copies (KL, 49-59, 142)

-60-

KLYUCHNIKOV, L.Yu.; PETROVA, A.N.

Effect of the repeated use of herbicides on the microflora of the soil. Mikrobiologiya 29 no.2:238-241 Mr-Apr '60. (MIRA 14:7)

1. Institut sel'skogo khozyaystva tsentral'no-chernozemnoy polosy imeni V.V.Dokuchayeva, Kamennaya step', i Institut mikrobiologii AN SSSR, Moskva.

(SOILS—MICRO-ORGANISMS) (HERBICIDES)

KLYUCHNIKOV, L.Yu., kand. sel'skokhoz. nauk

Weed control in pine nurseries. Zashch. rast. ot vred. i bol.
8 no.6:28-29 Je '63. (MIRA 16:8)

1. Nizhne-Dneprovskaya stantsiya obleseniya peskov.
(Forest nurseries) (Weed control)

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L 3946-66

ACCESSION NR: AP5023177

UR/0320/65/000/000/0120/0125
632.954:631.4 + .001.11

AUTHOR: Klyuchnikov, L. Yu. (Candidate of agricultural sciences)

TITLE: A biological method of determining the toxicity of herbicides in soil

SOURCE: Vestnik sel'skokhozyaystvennoy nauki, no. 8, 1965, 120-125

TOPIC TAGS: herbicide, toxicology, soil, plant growth

ABSTRACT: Toxicities of six herbicides in soil under laboratory conditions were as-
sayed by comparison of the length of sprouts of various plants (barley, corn, sun-
flower, melon, pea, radish, acacia, and pine) after soil treatment with the length
of controls in untreated soils. Compounds tested and quantities used (kg/ha) were:
monuron [N-(4-chlorophenyl)-N', N'-dimethylurea], 15; 2,4-D, 2; dalapon [2,2-dichlo-
ropropionic acid], 15; sodium trichloroacetate, 15; hexachloroacetone, 15; and,
also, tractor kerosene, 500 liters/ha. The herbicides showed the following de-
creasing order of activity, the figures in parentheses being the percentage of the
control taken as 100: 2,4-D (12), dalapon (44), tractor kerosene (49), monuron (56),
hexachloroacetone (81), and sodium trichloroacetate (85). The mean length of the

Card 1/2

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ACCESSION NR: AP5023177

sprouts in the herbicide-treated soils (as % of the control) was: cornflower (49), melon (53), barley (58), corn (64), peas (67), radish (69), pine (71), and acacia (83). The author believes that the biological method proposed can be used as a reliable indicator of residual herbicide activity in soil. Orig. art. has: 3 tables.

ASSOCIATION: Nizhnedneprovskaya nauchno-issledovatel'skaya stantsiya obleseniya peskov (Nizhnedneprov Scientific Research Station of Afforestation of Sands); Vsesoyuznyy institut lesovodstva i mekhanizatsii lesnogo khozyaystva (The All-Union Institute of Silviculture and Mechanization of Forestry)

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

NO REF SOV: 019

OTHER: 000

Card 2/2 DP

KLYUCHNIKOV, N.G.

New design of a leveling rod. Izv.tekh. no.12:63 D '61.
(Leveling--Equipment and supplies) (MIRA 15:1)

KLYUCHNIKOV, M. G.

"Reactions Between Certain Chlorides and Hot Steel." Thesis for degree of Cand Chemical Sci. Sub. 23 May 49, Moscow City Pedgogical Inst. imeni V. I. Poterkin.

Summary 82, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva. Jan-Dec. 1949.

Protection - 7

*On the Part Played by Chromium Chloride and Hydrogen in the Process of Thermal Chromium Coating. (I) Kiyoshige (Jap. Ind. Nat. S.S.S., 1961, 74, 287-290) T. Aka, 1961, 66, 676. (In Russian). A layer of Cr metal was produced on steel by heating for 3 hr. at 800-850° C. in an atmosphere of CrCl₃ formed by reduc-

tion of CrCl₃ with H₂ and with a const. supply of H₂. Fe samples treated in this way showed a gain of wt. greater, for equal surface area, than after 4 hr. at 800° C. in a powder mixture of ferric chromate with 1% CrCl₃. This gain in wt. provides the interpretation of the process on the basis of the reaction $\text{CrCl}_3 + \text{Fe} \rightarrow \text{Cr} + \text{FeCl}_2$, which would result in a loss of wt. Rather is the process due to the reaction $\text{CrCl}_3 + \text{H}_2 \rightarrow \text{Cr} + 2\text{HCl}$, which involves no loss of Fe. Proof of this is provided by the considerable gain of wt. observed after treatment for 4 hr. with CrCl₃ at 800° C. of steel coated with electrolytic Fe, and especially of steel coated with electrolytic Cr. In the latter case, the thickness of the thermally produced additional Cr layer was 2-10 times greater than in the thermal Cr coating of H-free Fe. This is obviously due to the H evolved in the electrolytic Fe or Cr.

K Lyuchnikov, N.G.

Hardness of nickel deposits. N.G. Lyuchnikov. Metal-
log. 1964, No. 1, p. 10. (English translation of the
original in the journal "Metals Engineering", 1964, No. 1, p. 10.)
U.S. Pat. 3,140,000 (1964).
M. 10/32

REYUCHNIKOV, N. O.

Rukovodstvo po neogranicheskomu sintezu (Manual in inorganic synthesis) Moskva,
Goskhimizdat, 1953.

336 p. illus., diagrs., tables
"Literatura" at end of chapters

SO: N/5
614. 15
.k6

KRYUCHNIKOV, N.G. (Moscow)

Aluminothermic preparation of metals and alloys. Khim. v shkole
9 no.6:64-65 M-D '54. (MLA 8:1)
(Aluminothermy) (Metals)

Page 114 B34

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... of ...

КЛЮЧНИКОВ, Н.О.

КЛЮЧНИКОВ, Н.О. (Moscow)

Reduction of oxides by hydrogen and the chemical stability of oxides.
(MIRA 8:11)

Khim. v shkole 10 no.5:53-54 8-0 '55.

(Oxides) (Reduction, Chemical)

KLYUCHNIKOV, N.G.

SAVEL'YEVA, R.N.; KLYUCHNIKOV, N.G.

Effect of hydrazine and its salts on tetravalent platinum compounds.
(MIRA 10:6)
Zhur. neorg. khim. 1 no.12:2759-2763 D '56.
(Hydrazine) (Platinum compounds)

KL YUCHNIKOV, N.G.

KL YUCHNIKOV, N.G.; SAVEL'YENVA, R.N.

Obtaining chloroplatinates by reduction of chloroplatinates by hydrazine hydrate and its salts. Zhur. neorg. khim. 1 no.12:2764-2766 D '56.
(Chloroplatinates) (Hydrazine) (MIRA 10:6)

KLYUCHNIKOV, N. G.

"Concerning the Valve Properties of Silver Selenide and Silver Telluride," by N. G. Klyuchnikov, Zhurnal Tekhnicheskoy Fiziki, Vol 26, No 11, Nov 56, p 2603

To endow Ag_2Se and Ag_2Te plates with valve properties, these plates were firmly compressed between plates of magnesium and copper. A direct current applied on the reverse direction, with the magnesium plate serving as the cathode, was then passed through the silver compound plates. Formation of the barrier layer took place as a result of reduction with magnesium and consequent formation of a thin silver layer. According to the author, the valves obtained in this manner have interesting potential current characteristics and a high ratio between the forward and the reverse currents. However, they cannot be used as rectifiers of alternating current, because the initial conditioning disappears when current in the forward direction is passed. The conditioning is also lost on storage. According to the author, other selenides and tellurides, particularly those of thallium and bismuth, exhibit valve characteristics, although the valve effect in them is rather weak. The asymmetry in conductivity develops only after the reaction mentioned above has taken place and appears only as a result of contact with strong reducing agents such as magnesium, aluminum, or sodium.

Page 1219

✓ Method of Obtaining Pure Silicon N. G. Kirichenkov
(Zhur. Priklad. Khim., 1955, 28, (11), 130-131) (in Russian)
Si prepared by reduction of SiO_2 with Al or Mg was given the following preparatory purification: 3-4 days treatment with conc. HCl , filtered off, washed, heated with HF , and the excess HF removed by evaporating three times with H_2SO_4 . The specimen was then placed in a quartz boat inside a quartz tube measuring 70 cm. x 20 cm. dia. and containing an ampoule of SiCl_4 . After displacing the air, the tube was sealed and heated in the centre, so that the impurities reacted with the SiCl_4 to give chlorides, which condensed at the cold ends of the tube. Experiments with various grades of Si showed that that prepared by reaction of SiCl_4 with Zn vapour was the purest, and on refining yielded spectroscopically pure Si. The rate of removal of impurities depended on the temp and the particle size, a temp. of 1200°C . being suitable. Impurities whose chlorides had a large heat of formation (e.g. Ca, Mg, Mn, Al, Zn) were removed more readily than Cu, Fe, Sn, etc. The refining process also removed oxides which are not affected by boiling in acids (e.g. Al_2O_3). A similar method may be used for refining B. G. Y. E. T.

Math
Model

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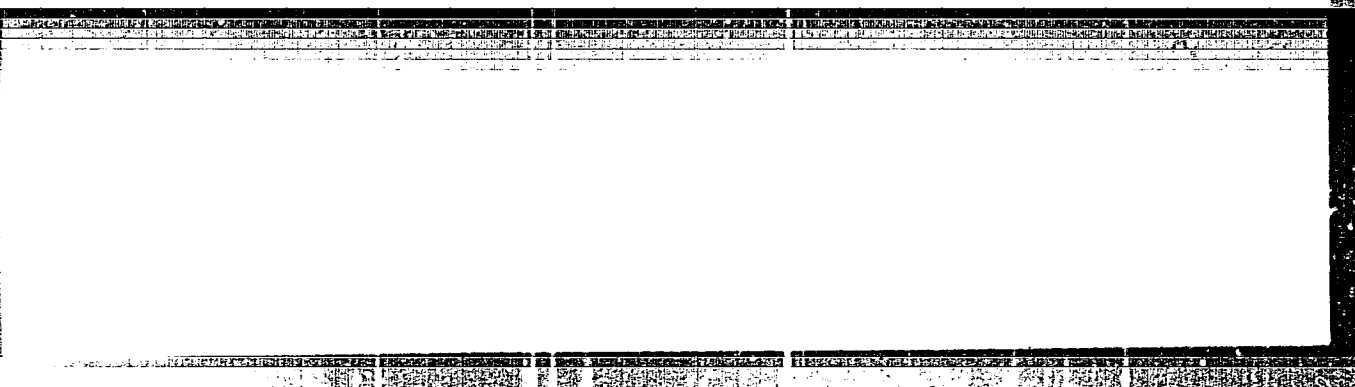
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KLYUCHNIKOV, N.G.(Moskva); BORISOVSKAYA, N.B.(Moskva).

Using natural gas for chemical experiments. Khim. v shkole 12 no.1:52-
55 Ja -F '57. (MIRA 10:3)
(Gas, Natural) (Chemistry--Experiments)

KLYUCHNIKOV, N. G.
KLYUCHNIKOV, N. G. (Moskva)

Powder metallurgy. Khim. v shkole 12 no. 6: 8-14 N-D '57. (MIRA 10:12)
(Powder metallurgy)

KLYUCHNIKOY, N.G.

**Experiments with semiconductors. Fiz.v shkole 17 no.2:55-60 Nr-
Ap '57. (MLRA 10:3)**

**1. Gorodskoy pedagogicheskiy institut imeni V.P. Potemkina, Moskva.
(Semiconductors—Study and teaching)**

SAVEL'YEVA, R.N.; KLYUCHNIKOV, N.G.

Reaction of unsaturated hydrocarbons with dichlorobis (Hydrazine)
platinum (IV) chloride. Uch. zap. MGPI 99:227-229 '57.

(MIRA 12:3)

(Unsaturated compounds) (Platinum compounds)

KLYUCHNIKOV, N.O. (Moskva)

Semiconductors. Khim. v shkole. no.2:3-14 Mr-Ap '58. (MIRA 11:3)
(Semiconductors)

KLYUCHNIKOV, N., kand.khim. nauk.

Correspondence with readers. Khim. v shkole 13 no.5:72-73 8-0 '58.

(MIRA 11:9)

(Chemistry--Study and teaching)

SOV/58-59-7-15963

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 7, p 190 (USSR)

AUTHOR: Klyuchnikov, N.G.

TITLE: On the Valve Properties of Some Selenides and Tellurides

PERIODICAL: Uch. zap. Leningr. gos. ped. in-ta im. A.I. Gertsena, 1958, Vol 148, pp 171 - 179

ABSTRACT: The author studied the valve properties of selenides of mono- and bivalent copper and selenides and tellurides of silver. After molding, during which considerable DC was passed in the nonconducting direction, the volt-ampere characteristics of the samples were measured. These characteristics indicate that the investigated samples possess rectifying properties. It is noted that the telluride of silver only functions as a rectifier at very low frequencies and is not suitable for rectifying commercial AC. A shortcoming of the investigated valves is that they exhibit high hysteresis, which leads to high electric losses when operating on AC.

Card 1/1

N.V. Vasil'chenko

BESKOV, Sergey Dmitriyevich, prof.; BNLOTSVETOV, Aleksay Vsevolodovich;
KLYUCHNIKOV, Nikolay Grigor'yevich; SLAVIN, David Osipovich;
~~SHARA, S.S., red.; RAIPO, M.V., tekhn.red.~~

[Fundamentals of chemical technology; textbook for pedagogical
institutes] Osnovy khimicheskoi tekhnologii; uchebnoe posobie
dlia pedagogicheskikh institutov. Pod obshchrei red. S.D.Beskovs.
Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv. RSFSR, 1959. 319 p.
(MIRA 12:12)

(Chemical engineering)

BALEZIN, S.A.; KLYUCHNIKOV, N.O.

Great scientist and patriot; on the 125th anniversary of the birth
of D.I. Mendeleev and 90th anniversary of the discovery of the per-
iodic law. Khim. v shkole 14 no.1:41-46 Jan-F '59. (MIRA 12:2)
(Mendeleev, Dmitrii Ivanovich 1834-1907)

KLYUCHNIKOV, N.O.

Make the work of factory laboratories more active. Ism.tekh. no.3:
54-55 Mr '60. (MIRA 13:6)
(Testing laboratories)

5.2120

5(a)

AUTHORS:

Klyuchnikov, N. G., Savel'yeva, R. N.

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SOV/78-5-1-35/45

TITLE:

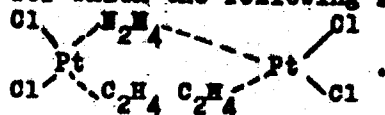
On the Hydrazine Compounds of Platinum Which Contain Ethylene and Its Analogs

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 1, pp 219-221 (USSR)

ABSTRACT:

In reference 1 the authors reported that the compound $[PtCl_2(N_2H_5)_2]Cl_2 \cdot 2H_2O$ detected by V. I. Goremykin (Ref 2) condenses at small pH, when heated, or with protracted standing of its dilute solution, to form the double compound $[Cl_2Pt(N_2H_4)_2PtCl_2]$. The authors investigated this condensation in dilute HCl through which ethylene, propylene, and butylene passed. After a few days, an amorphous compound $[Cl_2Pt(O_2H_4)_2N_2H_4PtCl_2]$, was formed under the action of ethylene, for which the following structure is proposed:



Card 1/2

KLYUCHNIKOV, N.O.

Pitch measuring gauge for hub cutters. Izv. tekhn. no. 6:10 Jo
'60. (MIRA 14:2)

(Gauges)

KLYUCHNIKOV, N., kandidat khimicheskikh nauk

Letter to the editor. Khim.v shkole 15 no.1:94 Ja-F '60.
(MIRA 1315)
(Isotopes)