107/96-59-2-2/18

Experience of Reconstruction of the Governing of Turbine Type VK-100-2

process as a whole should be considered satisfactory. By comparing again Fig 5 and 8 it is concluded that the differentiator time was too small in this latter case and that it should have been of the order of 1.0 to 1.5 sec. Governor performance curves for a turbine of 100 MW, when full load is dropped, constructed by a semi-graphical method are given in Fig 9. The various assumptions made are explained and it is shown that the shape of the curves is very close to the experimental ones. It is again shown that the best operating time of the differentiator is about 1.5 sec. It is concluded that this system of governing, which is of high sensitivity and has a differentiating link,

Card 5/6

3uV/96.-59.-2-2/18

Experience of Reconstruction of the Governing of Durbine Type VK-100-2

SEED THE PERSON STREET, STREET,

can easily be adjusted to give the required dynamic properties. Where are 9 figures and 5 Soviet references.

ASSOCIATION: Mcskovskiy Energeti heskiy Institut (Mossow Power Institute)

Card 6/5

SOV/96-59-6-1/22

AUTHOR: Shcheglyayev, A.V. (Corresponding Member of the Ac.Sc.

USSR)

TITLE: Some Problems in Raising the Efficiency of Steam Turbines

(Nekotoryye zadachi povysheniya ekonomichnosti parovykh

turbin)

PERIODICAL: Teploenergetika, 1959, Nr 6, pp 3-8 (USSR)

ABSTRACT: There are two main ways of increasing the efficiency of turbine sets; either by using an improved thermal cycle

with higher steam conditions, reheat and so on, or by increasing the efficiency of the actual turbine and auxiliaries. The increased efficiency of condensing steam-turbine sets that has resulted from improvements in the thermodynamic cycle and increases in the output will

be seen from Table 1: it gives the specific heat consumption and efficiency for a number of large steam turbines. The actual gain in efficiency will be somewhat

lower than the tabulated values because of the higher power consumption of feed pumps at the higher pressures. The efficiency of turbine stages largely depends on the volumetric steam flow, which may be quite small in the

Card 1/7 high-pressure stages. It is therefore advisable to increase the turbine output when increasing the stop-

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SOV/96-59-6-1/22 Some Problems in Raising the Efficiency of Steam Turbines valve steam pressure. As a rough general rule, the output of a condensing turbine expressed in megawatts at 3000 r.p.m. should be equal to or higher than the stop-valve The selection of pressure measured in atmospheres. regulating stages is then discussed. Single-row regulating stages are to be preferred for large condensing turbines and also for condensing turbines operating at temperatures of 600 °C and above with reheat. Variations in the efficiency of regulating stages when the steam supply is partially cut off are discussed; efficiency data for single- and two-row regulating stages operating under different conditions are given in Table 2. The data relate to a stage 600 mm diameter with a nozzle height of 25 mm. In the development of regulating stages most attention has been paid to reducing the losses in the flow path, and efficiencies of 0.75 to 0.8 can be achieved at full steam flow in a two-row regulating stage. Much, however, can still be done to reduce the losses when running with partial steam supply. It has recently been shown that the end losses in turbine blades may be still further reduced. This is important for regulating stages Card 2/7

SOV/96-59-6-1/22

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Some Problems in Raising the Efficiency of Steam Turbines

and for the intermediate stages of high-pressure cylinders with small blade heights. The improvement is expected to result from making the nozzles or guide blades with channels that decrease in width towards the perimeter, which is termed meridional profiling. By these means the end losses are reduced and the stages have practically constant reaction over the radius, which reduces leakage losses. The importance of these effects will be realised from the data given in Table 3. The efficiency of active turbine blades of small height may be increased by special profiling of the inter-blade channels. In blading in which the relative height is small and end losses are very important, secondary flow can be reduced to a minimum by making the inter-blade channels first expand and then contract. In such channels the velocity decreases where the curvature is greatest, and the crossgradient, the pressure and intensity of secondary flows are all reduced. The available test data in support of these contentions have all been obtained under static Card 3/7 conditions and should be confirmed by tests on experimental turbines. Leakage losses are particularly

SOV/96-59-6-1/22

Some Problems in Raising the Efficiency of Steam Turbines

important in high-pressure stages, not only at the glands but also at lines of contact between different parts. Leakage is often caused by thermal deformation of the turbine casing, especially during heating up and starting. It is particularly important to design the high-pressure casing in such a way that deformation is strictly symmetrical both during heating up and running and so that bending is reduced to a minimum. Only in this way can the necessary clearances be maintained. Difficulties are experienced with the mechanical strength and efficiency of low-pressure stages. The design of lowpressure stages is discussed and it is stated that, if the discharge velocity loss is restricted to 8 kcal/kg, then the flow through a single exhaust is that which corresponds to a turbine output of 100 MW. output is greater than 100 MW it is necessary either to increase the number of exhausts or to permit higher discharge velocity loss. It may be possible to increase the output of a single-flow turbine and to reduce the exhaust losses by using light metal such as titanium or synthetic materials having low specific gravity but

Card 4/7

SOV/96-59-6-1/22 Some Problems in Raising the Efficiency of Steam Turbines satisfactory mechanical and fatigue properties. It is, turbine works are investigating this subject. of course, difficult to make a low-pressure stage efficient because the degree of reaction and wetness of the steam are very different at the blade tips and roots. However, the main reason why the efficiency is not higher is that hardly any experimental work has been done on these stages. The investigations are difficult because they must be made with steam and not air, and modelling is complicated by the blades and the discs of the model stage being subject to the same stresses as in a fullscale turbine. Not enough is yet known about the thermodynamic and aero-dynamic properties of saturated and wet steam. Moreover, procedures for testing the stages operating on wet steam are not fully worked out. values of steam wetness cannot yet be measured. Recently, attention has been paid to the exhaust casings of turbines, which may be so designed as partially to restore the pressure beyond this last stage. Card 5/7 found by tests on models that the use of an axial or diagonal diffuser in the exhaust pipe combined with a

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Some Problems in Raising the Efficiency of Steam Turbines system of ribs could convert 10 - 20% of the exhaust kinetic energy into potential energy. Further improvements in this direction are to be expected. indications that live steam governor valves have high losses, which may be reduced by suitable arrangement of the flow in the valve chest and by improving the shape of the valve and diffuser. Improvements are required in the rotating diaphragms used on turbines with controlled pass-outs. Little is known about the properties of these devices. Available knowledge on turbine blading should be presented in a form suitable for use in the factory. Theoretical design methods should be more widely applied in the laboratories and this will be facilitated by the use of computers. One of the first steps in developing stricter methods of calculation should be the generalisation and systematisation of available experimental data. Further study is required on questions of modelling and criteria of similarity. It is most important when making full-scale tests on completed turbines to have the Card 6/7 participation of the laboratories interested in the flow paths of turbines and responsible for the improvements in

SOV/96-59-6-1/22

Some Problems in Raising the Efficiency of Steam Turbines

the machine under test. Special efforts are required to improve the accuracy and reliability of full-scale tests on turbines. The aero-dynamic investigations which have \*been made on steam turbines should also be applicable to gas turbines, which may be expected to develop considerably in the coming years. There are 3 tables, no references.

Card 7/7

SHNEE, Yakov Isidorovich; SHCHEGLYAYEV, A.V., doktor tekhn.nauk, retsenzent; SHAPIRO, M.S., Kennd.tekhn.nauk, red.; BYSTRITSKAYA, B.B., red.izd-ve; MODEL', B.I., tekhn.red.

[Gas turbines; theory and design] Gazovye turbiny; teoriia i konstruktsiia. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.

1it-ry, 1960. 560 p. (MIRA 14:2)

(Ges turbines)

BERMAN, L.D., doktor tekhn.nauk; RUBINSHTEYN, Ya.M., doktor tekhn.nauk; SHCHEGLYAYEV, A.V.

Selecting the optimum cross section dimensions of the exhaust and the number of shafts for 300 to 600 MW steam turbines.

Teploenergetika 7 no.10:14-22 0 '60. (MIRA 14:9)

1. Vsesoyuznyy teplotekhnickeskiy institut. 2. Cheln-korrespondent AN SSSR (for Shcheglyayev). (Steam turbines)

EERMAN, I.D., doktor tekhn.nauk; RUBINSHTEYN, Ya.M., doktor tekhn.nauk; SHCHEGLYAYEV, A.V.

Reply to I.V.Shapiro, A.E.Cel'tmah, and D.M.Budniatskii's article. Teploenergetika 8 no.8:73-76 Ag '61. (MRA 14:10) (Turmines) (Electric power plants) (Phapiro, I.V.) (Gel'tman, A.E.) (Budniatskii, P.M.)

SHCHEGINATEV, Andrey Vladimirovich; SMEL'NITSKIY, Sergey Georgiyevich,
dots.; BULKIN, A.Ye., red.; EGRUNOV, N.I., tekhn. red.

[Control of steam turbine operation] Regulirovanie parovykh turbin.
Moskva, Gosenergoizdat, 1962. 255 p. (MIRA 15:5)
(Steam turbines)

5/096/62/000/003/001/008 E194/E455

Shcherlyayev, A.V., Corresponding Member of the AS USSR, Deych, M.Ye., Doctor of Technical Sciences, Professor, AUTHURS

Filippov, G.A., Candidate of Technical Sciences

The design of steam turbine stages, from the results of static blowing tests on rows of blades TITLE:

PERIODICAL: Teploenergetika, no.3, 1962, 14-18

Two methods are in common use for designing the flow paths of steam turbines. One is based on the use of generalized graphs obtained from the tests on stages. With this method the calculations are simple and reliable for the given type of blading, and various generalized graphs have been produced. is based on the use of the energy loss factor and flow factors in guide and runner blades, either derived from static tests or calculated from the velocity triangle. A wealth of test useful, particularly with new types of blade. results is now being obtained on blades in straight bundles, giving both a qualitative view of the flow structure in various kinds of blading and quantitative characteristics for loss, angles and flow Card 1/4

S/096/62/000/003/001/008 E194/E455

The deligh of steam turbine ...

factors. An atlas of rational blade profiles has been built up from these tests. Over a number of years, the Kafedra parovykh i gazovykh turbin (Department of Steam and Gas Turbines) of MEI has made studies of flow in turbine blades, using both flat Moreover, the blades bundles and annular stationary models. tested were run in experimental turbines to obtain relationships between efficiency and velocity ratio, using both superheated steam and air. The results so obtained can bridge the gap between the losses determined in static tests and the A number of loss efficiency of actual stages running on steam. curves obtained with various kinds of stage with different kinds of test are plotted and compared, and results are also given for a section of a turbine consisting of three stages. lead to the following conclusions. When the design of single-row stages is based on the results of static blowing tests on flat bundles of blades with an irregular velocity distribution and in the presence of overlap, there is satisfactory agreement with tests in experimental turbines in the region of low velocity ratio  $u/c_0$ . For optimum values of  $u/c_0$  the divergence between Card 7/4

s/096/62/000/003/001/008 E194/E455

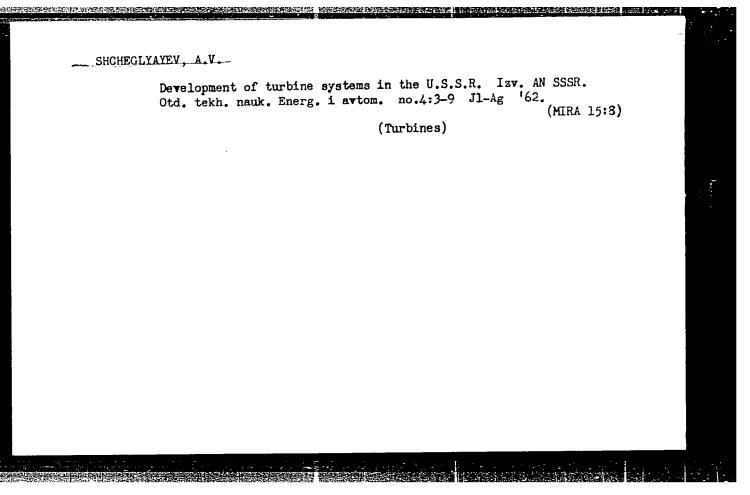
The design of steam turbine ...

test and calculated values is 1.5 to 3%. Generally, a satisfactorily reliable result can be obtained by multiplying the calculated efficiency by a correction factor of 0.98 to 0.97. When calculating the stage efficiency from the loss factors given in the atlas of blade profiles, the correction factor is 0.97 to 0.95 in the zone of optimum velocity ratio. For wheels with two rows of blades the correction factor is 0.97 to 0.95 when the calculations are made from tests carried out with allowance for irregularity of velocity distribution and for overlaps. When the loss factors given in the atlas are used, the correction factor The least divergence between test and should be 0.95 to 0.92. calculated data is obtained in stages with long blades, which indicates that end losses in the blades are not being sufficiently Correction factors for relating the result of tests on stages in experimental turbines to calculated values from static blowing tests are valid for stages manufactured with welded diaphragms. The results given in this article are only a first step in relating the results of static tests to total losses determined in an experimental turbine. Further material must be Card 3/4

The design of steam turbine ... \$\frac{\$5/096/62/000/003/001/008}{\$E194/E455}\$

accumulated to improve the reliability of turbine stage calculations. There are 7 figures and 1 table.

Card 4/4



Twentieth Anniversary of the Power Machinery Faculty of Moscow Institute of Power Engineering. Teploenergetika 10 no.4:91-92 Ap '63.

(MIRA 16:3)

1. Chlen-korrespondent AN SSSR.

(Power engineering)

SHCHEGLYAYEV, A.V.

Some problems of construction of turbines of great output in the U.S.S.R. Inst masz przep PAN no.14/16:125-137 \*63.

1. Moskovskiy ordena Lenina energeticheskiy institut, Moskva.

SHCHEGLYAYEV, A.V.; SMEL'NITSKIY, S.G.; KALASHNIKOV, A.A.

Study of the pickup of boiler-turbine blocks. Trudy MEI no.47:
145-157 '63. (MIRA 17:1)

SHCHEGLYAYEV, A.V.

Manufacture of turbines in the U.S.S.R. and its perspective growth. Teploenergetika 10 no.12:20-26 D '63. (MIRA 17:8)

1. Moskovskiy energeticheskiy institut. Chlen-korrespondent AN SSSR.

SHCHEGLYAYEV, A.V.; SMEL'NITSKIY, S.G., kand.tekhn.nauk; SUTOPSHINA, T.N., inzh.; KALASHNIKOV, A.A., inzh.

Problems of the use of discharge systems in boiler-turbine units. Toploenergetika 12 no.1:2-9 Ja 165.

(MIRA 18 4)

I Moskovskiy energeticheskiy institut. 2. Chlen-kerrespondent AN SSSR (for Shcheglyayev).

**网络克里斯安斯马斯州艾拉兰东西**英斯安斯

9(4) SOV/112-58-3-4754

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 3, p 198 (USSR)

AUTHOR: Shcheglyayeva, T. A.

TITLE: Universal Grid-Control Electron Circuit for Ionic Frequency Changers (Universal'naya elektronnaya skhema setochnogo upravleniya dlya ionnykh preobrazovateley chastoty)

PERIODICAL: Sb. statey nauchn. stud. o-va Mosk. energ. in-ta, 1957, Nr 10, pp 45-52

ABSTRACT: Of possible circuits for inverter grid-control at 70-170 cps — a magnetic-amplifier circuit, a transistor circuit, a ring scaler with miniature thyratrons — the electron-tube circuit was selected that includes a three-phase scaling ring, a trigger, and six pentodes. The scheme can generate square pulses 600 long at 50 v. The scheme is suitable for controlling an inverter having a three-phase-and-neutral circuit (control pulses are taken directly from the three-phase scaling ring); it is also suitable for inverters having the

Card 1/2

9(4)

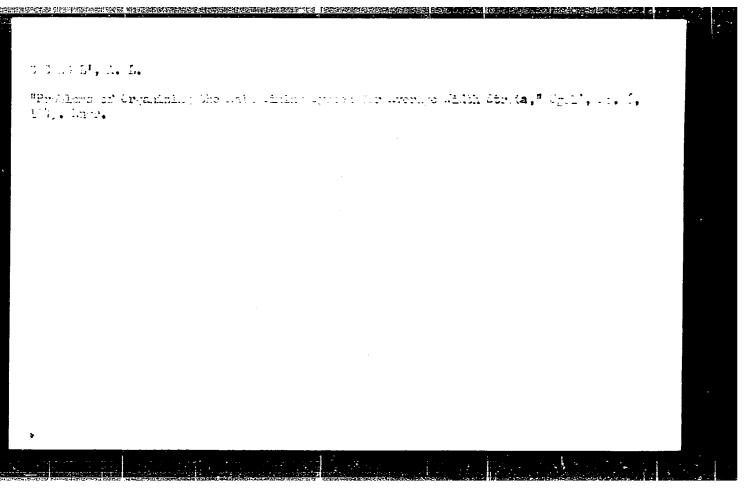
SOV/112-58-3-4754

Universal Grid-Control Electron Circuit for Ionic Frequency Changers

Larionov's bridge circuit or the equalizing-reactor circuit; in the latter case, there is no need for segregating transformers. Operating reliability and simplicity of alignment are the advantages of the above scheme. Its disadvantage is the large number, 12, of electron tubes needed.

I.L.R.

Card 2/2



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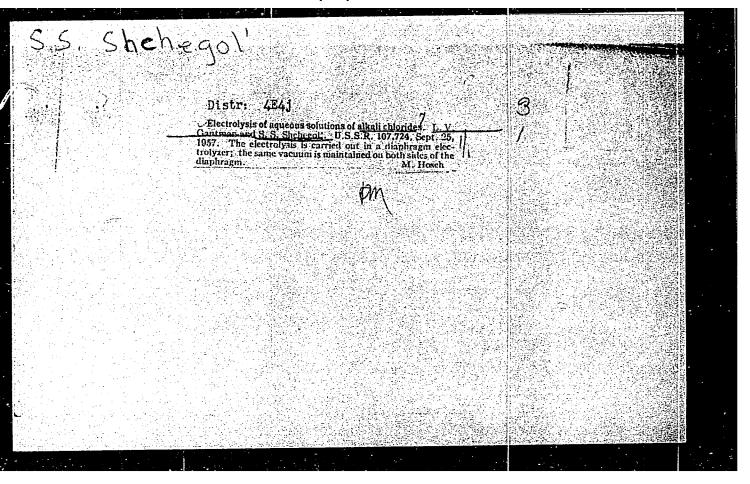
L 04742-57 ACC NR: AP6023322 (A)SOURCE CODE: UB0114/66/000/004/0038/0040 Shchegol', A. Ya. (Engineer); Pentsov, V. M. (Engineer) AUTHOR: ORG: none P TITLE: Development of an indicator diagram on a "Ural-2" electronic computer SOURCE: Energomeshinostroyeniye, no. 4, 1966, 38-40 TOPIC TAGS: computer application, internal combustion engine ABSTRACT: The calculations were made for the operation of a Type D70 heat engine. The work was simed at determination of the following indices of the working process: 1) the temperature in the cylinder during the compression-combustion-expansion period; 2) the heat evolution,  $x_1$ ; 3) the heat loss during the combustion-expansion period, W<sub>6</sub>; 4) the volume of the cylinder at the end of visible combustion;
5) the coefficient of effective heat evolution, §; 6) the temperature and the pressure in the cylinder at the end of compression, T<sub>c</sub> and p;
7) the pressure and the temperature in the cylinder at the moment when the exhaust valves are opened, p and T<sub>c</sub>. The article gives a detailed block diagram of a program adapted to the "Ural-2" computer. A large number of indicator diagrams were determined by the block diagram Card 1/2UDC: 681.142:(084.21).001.24

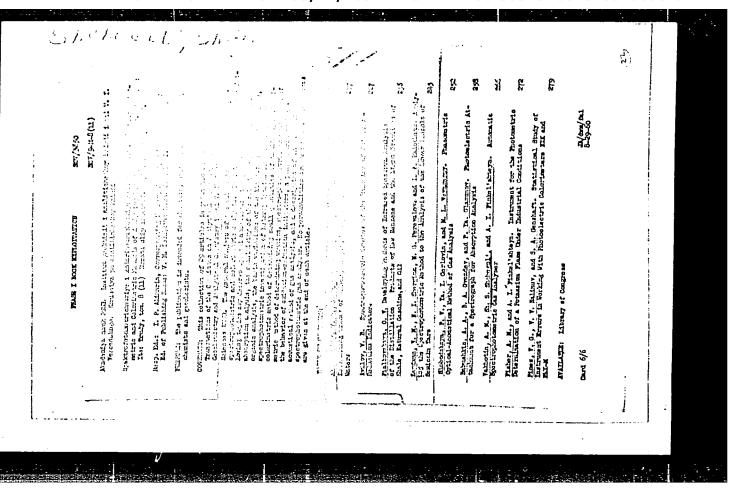
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chown. The error in the an be calculated to prefermination of V <sub>z</sub> , the figure of the tated to be considered to be considered to be something.	practically any desir The time required for 1 5 to 8 seconds. Th	ed degree of accur calculation of or a accuracy of the	racy. After	
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YASTREZHEMBSKIY, L.; SHCHEGOL, M.

First in Moscow. Znan.-sila 38 no.4:47 Ap 163.

(MIRA 16:8)





DOV/81-59-5-17542

Translation from Referativnyy zhurnal, Khimiya, 1969, Nr 5, pp 532 - 533

只是这种人的,我们就是这种人的,我们就是我们的,我们就是我们的一个,我们就是这种人,我们就是我们的,我们就是我们的,我们就是我们的,我们就会会会会会会会会会会, 第一个

(USSE)

AUTHORS:

Shohegol', Sh.S., Galkina, V.K.

Folymetacryt (Polimetakrit) - a Material for Construction TITLE.

Za, tekhn, progress (Sovnarkhoz Gor'kovsk, ekon, adm. r-na), PERIODICAL

1958, Nr 5, pr 8 - 9

Polymetacryt (PM) was obtained by impregnating electrographite ABSTRACT.

(EG) with methyl ether of methacrylic acid and 0.5% benzoyl peroxide and subsequent stepwise heating, having a compression resistance twice as high and tensile strength and bending

resistance three times as high as EG; the heat- and electric conductivity of both materials are the same. Depolymeric ether obtained from the waste products of organic glass can be used as material. The consumption of methylmethacrylate to 1 ton

of impregnated EG is  $\sim 90-100$  kg. FM is suitable for the

production of chemical head-socrating apparatus, as well as Card 1/2

SOV/81-59-5-17542

Polymetacryt (Polametakrit) - a Material for Construction Furposes

electrodes (e.g., for chloride baths). The wear of the PM anodes is by 20-25% less than those made of graphite, and their application decreases the consumption of electric power per 1 ton of caustic soda by  $\sim 100$  kW hrs. The test results and the physico-mechanical properties of the initial EG and PM are given.

VB

A. Vavilova

Card 2/2

AUTHOR: Shohegol', Sh. S. SOV/32-24-9-1/53

TITLE: The Analysis of Aqueous Solutions of Chlorites and Chlorine

Dickides (Analiz vodnykh rastvorov khloritov i dvuckisi khlora)

FERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 9, pp 1043-1050 (USSR)

ABSIRACT: At the beginning, reference is made to the methods which are

applied to the analyses mentioned by the title. The following methods are explained: The determination by titration after Bray (Brey) (Ref 1), those after Oechsly (Eksli) (Ref 2), Lazek (Ref 3), Peno (Ref 8), White (Uayt) (Ref 9), Chernyshov and Semenov (Ref 10), Aznarez and Vinade (Aznarets and Vinade) (Refs 11,12), Haller and Listek (Khaller and Listek) (Ref 13), Caron and Raquet (Karon and Raku) (Ref 15), Flis and others (Refs 16,17), Levi and Garrini (Ref 18), Buser and Hanisch (Buzer and Khenish) (Ref 19), Konopik and others (Ref 20), Friedman (Fridman) (Ref 21), Duval (Dyuval) (Ref 22), Nielsen and Woltz (Nil'sen and Vol'tts) (Ref 23), Rins and Gorriz (Rine, Gorrits) (Ref 24), Yakovlev, Rozental' and Filippov

(Ref 26), and that after Loeb (Leb) and others (Ref 27). In the present paper the ammetric method after Haller and Listek,

Card 1/2 as well as the volumetric method after White, were revised and

307/32-24-9-1/53

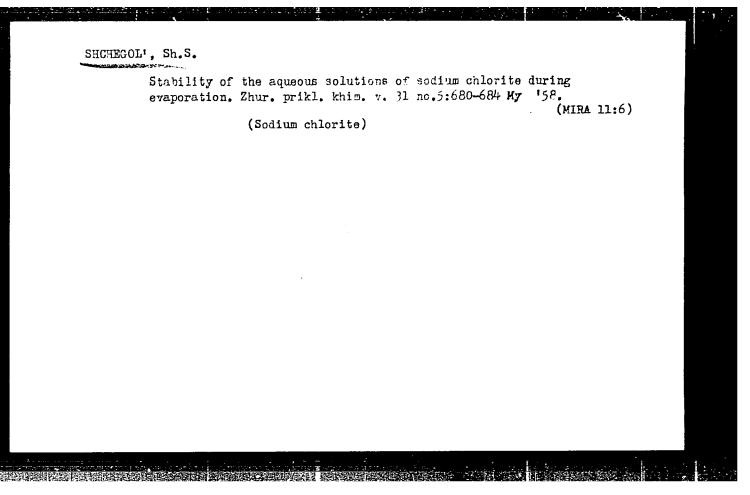
The Analysis of Aqueous Solutions of Chicrites and Chicrine Dioxides

new variants relative to the above-mentioned determinations have been worked out. K. I. Shiganova participated in the correspondent experiments. A recrystallization after Weiner (Veyner) (Ref 29) was carried through in order to obtain anhydrous sodium chlorite. In the explanation of the volumetric method reference is made to a hint given by Hill (Khill) (Ref 31). The statements made by Konopik, Rins, Gorriz, and Loeb, as well as those made at the IV Vsesoyuznoye soveshchaniya poelektrokhimii (IV All Union Conference of Electrochemistry) (Ref 33) have been used in working out the polarographic method. It was stated that, in the presence of La3; the polarograms of the chlorite ion are identical with those obtained by Frumkin and Zhdanov (Ref 34,35).

There are 7 figures, 4 tables, and 35 references, 8 of which are Soviet.

are Soviet.

Card 0/2



20-119-1-27/52

AUTHORS: Grayevskiy, A. I., Shchegol', Sh. S., Sholyan, Z. S.

TITLE: The Physical and Chemical Investigation of Several Systems Containing Triethyl-Aluminum and Its Derivatives (Fiziko-

-khimicheskoye issledovaniye nekotorykh sistem, soderzha-

shchikh trietilalyuminiy i yego proizvodnyye)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 1, pp. 101-103(USSR)

ABSTRACT: Pure triethyl-aluminum, diethyl-aluminum-hydride, diethyl-aluminum-bromide and ethoxy-diethyl-aluminum were dissolved

in cyclohexane and potentiometrically/titrated by quinoline in a cell with a silver electrode and a platinum electrode or conductometrically in a cell with non-platinized plate-like platinum electrodes. The titration took place in a rare gas atmosphere. The character of the curves of the conductometric titration of the different substances mentioned above

becomes evident from a diagram and shows the following: Quinoline with triethyl-aluminum forms the electrically con-

ducting complex Al(C2H5)3.C3H7N, with diethyl-aluminum-bromide the electrically conducting complex Al(C2H5)2Br.C3H7N,

Card 1/3 with diethyl-aluminum-hydride the electrically nonconducting

20-119-1-27/52

The Physical and Chemical Investigation of Several Systems Containing Triethyl-Aluminum and Its Derivatives

There are 4 figures and 9 references, 0 of which are Soviet.

PRESENTED: August 5, 1957, by A. V. Topchiyev, Member, Academy of

Sciences, USSR

SUBMITTED: August 5, 1957

Card 3/3

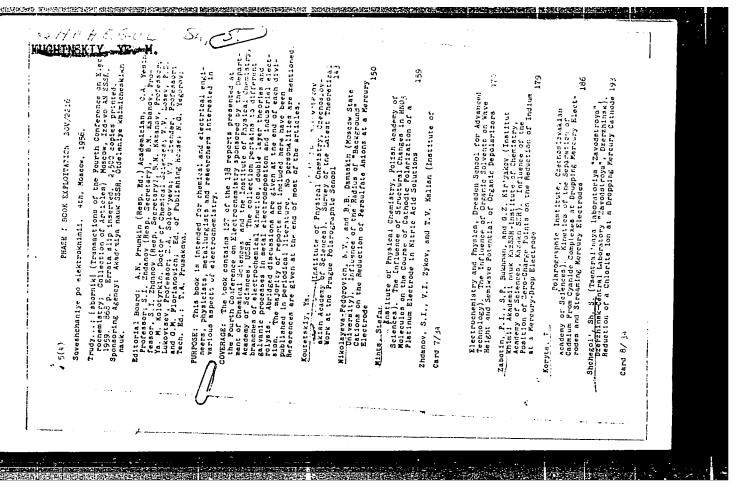
SHORMADL:, Sh. S., Cand Chem boi — (diss) "Study of the amalgamating process for obtaining sodium chlorite."

Gor'kiy, 1959, 13 pp (Ein of Higher Education USSR.

Gor'kiy State Univ im N.I. Lobachevskiy) 150 copies

(EL, 28-59, 121)

- 25 -



5/080/60/033/010/011/029 D216/D306

AUTHORS:

Flyerov, V.N., Shchegol', Sh.S., Armenskaya, L.V., and

Galkin, L.G.

TITLE:

Electrolysis of hydrochloric acid solutions of

bivalent copper

PERIODICAL: Zhurnal prikladnoy khimii, v. 33, no. 10, 1960,

2245 - 2252

TEXT: The regeneration of chlorine from hydrochloric acid formed in large quantities during the synthesis of DDT, polyvinylchloride etc. presents a very real problem. In their experimental work, the authors studied the electrode characteristics, of hydrochloric solutions of cupric chloride. The equivalent potential for the reaction Cu' + 3Cl' + e — CuCl; was determined with a polished platinum electrode in a series of solutions with constant HCl concentrations ( $\sim$  20 %) and varying concentrations of CuCl, and CuCl.

Card 1/4

Electrolysis of hydrochloric ...

S/080/60/033/010/011/029 D216/D306

The sum of the molar concentrations was determined with a potentiometer type PPTV-1. To avoid oxidation of the monovalent copper the measurements were taken in an atmosphere of  ${\rm CO}_2$ ; cupric chloride

in solution was analyzed iodometrically, cuprous chloride using permanganate and iron-ammonium alum. Hydrochloric acid was titrated with sodium hydroxide solution using methyl orange as indicator. The equivalent potential for the reaction  $\text{CuCl}_3^{\text{w}}$  + e  $\stackrel{\frown}{\longrightarrow}$  Cu +

+ 3Cl' was determined with a copper electrode in a series of solutions with constant HCl and varying CuCl concentrations (from 29 to 138 gm/l). To prevent cupric ions appearing in the solution, copper metal powder was sprinkled in and the experiment was conducted in an atmosphere of CO<sub>2</sub>. The article shows the normal poten-

tials of certain oxidation-reduction reactions; the relationship between cathode potential and current density; the relationship between potential and current density in hydrochloric acid solutions of cupric and cuprous chlorides. Cathode-impervious graphite,

Card 2/4

Dientrolysis of hydrochloric ...

S/080/60/033/010/011/029 D216/D306

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comparature 80%; the relationship between the cathode potential and current density in various electrolytes; the change of potential of a poroto graphite cathode with current density at various rate of flow of the controlyte; and polarization curves in HC1 solutions of CaCl<sub>2</sub> at 40 amps loading; relationship between current officency and current density. It is concluded that 1) The limiting current density with impervious graphite electrodes is increated with decreasing minovalent Cu ions in solution and rising temporature. For porous electrodes the basic factor is the rate of flow of the electrolyte; the temperature and thickness of these calinodes have comparatively little effect. 2) Polarization when conforme is evolved from HC1 solution of bivalent Cu is comparatively entrolyte; the current efficiency depends on the tight of cathode graphite, the current density and the rate of flow of the sientralyte. There are 7 figures, 2 tables, and 15 references: 5 Sovietablor and 10 non-Sovietablor. The references to the

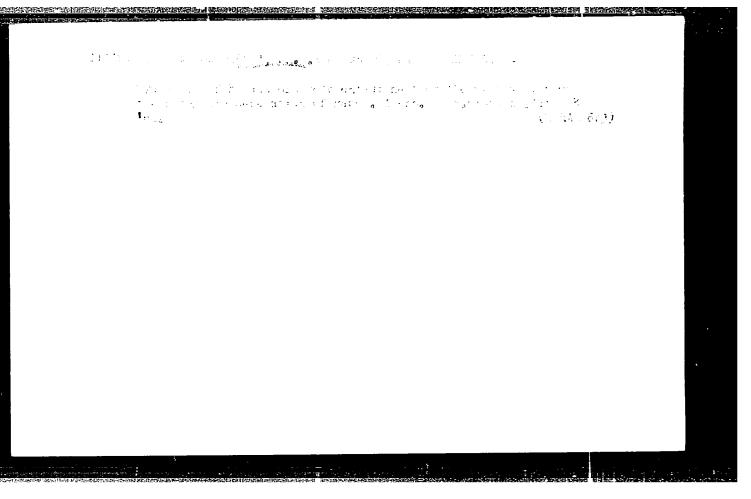
Ca. 1 7/4

Signature of hydrothlorit ... Signature of hydrothlorit ... Brightsh-language publications read as follows: I. Gordon. Chem. Eng. R. 187. 1933; Ch.P. Roberts. Chem. Eng. Progr., 46, 9, 456, 1990.

SUBMITTED: October 5. 1959

C pi 4/4

s/081/62/000/018/056/059 B168/B186 Shikhiyev, I. A., Aliyev, ... I., Sadykhzade, S. I., ancheroli, Sh. S., Ta'liyev, S. B., Akhundova, G. Yu., Krasnokutskiy, V. P., Juceynova, M. A., Mukharamova, Kh. F., Murbanaliyeva, T. Kh., Nikolayeva, L. Synthesis and use of silico derivatives of naphthenic acids on the production of divinylstyrene rubber TITLE: Referativnyy zhurnal. Khimiya, no. 18, 1962, 559, hstract 10P405 (Aterb. khim. zh., no. 5, 1961, 65 - 68 [Summery in PERIODICAL: TEXT: Dimethyldichlorosilane reacting with naphthenic acids in the presence of trieth limine produces dimethyldicarpoxy-bis-cycloalkylsilane .(CH\_)?Si(000010H20)2. The product was used as filler for butadienestyrene rubber instead of lubricating oil 18. The Defoe number of the raw out;dienestyrene rubber was 2000, thermal plastification time 40 min, Defoe number of the plasticized butadienestyrene rubber 1100, tensile strength Card 1/2Aata 5/5



TRIFEL', M.S.; SHCHEGOL', Sh.S.; MATO, R.E.; YLATRIN, B.S.

Cathodic protection of heat exchangers cooled by sea water.

Zashch. met. 1 no.2:245-246 Mr-Ap '65.

(MIRA 18:6)

1. Sungaitskiy zavod sinteticheskogo kauchuka.

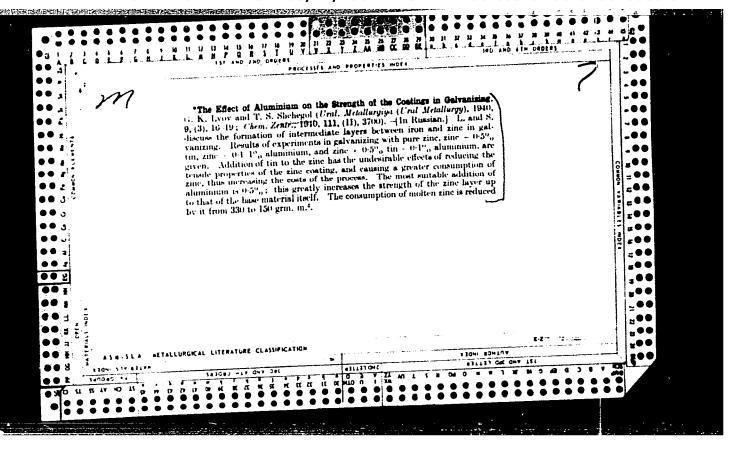
ASHTROV M.A., SHCHEGOL', Sh.S.; SADYKH-ZADE, S.I.; ASKEROV, A.K.; BUKH, Yu.D.

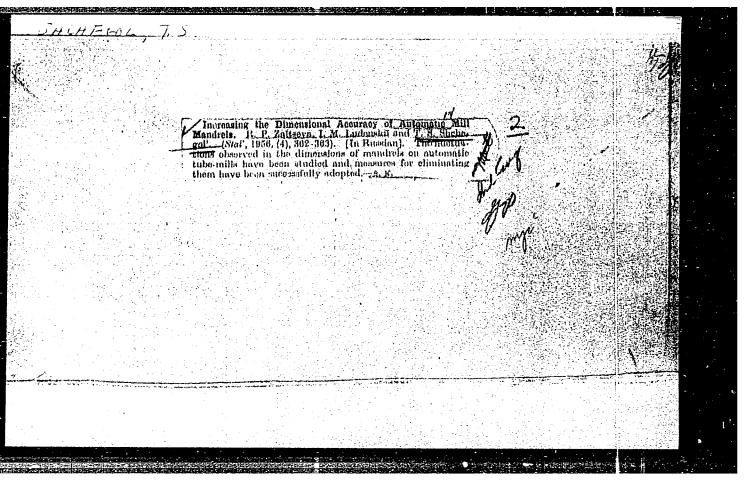
Using azolyat. A as an emulsifier in the emulsion polymerization of rubber. Sbor. nauch. tekh. inform. Azerb. inst. nauch. tekh. inform. Ser. Nefteper. i khim. prom. no.2:3-14 '62. (MIRA 18:9)

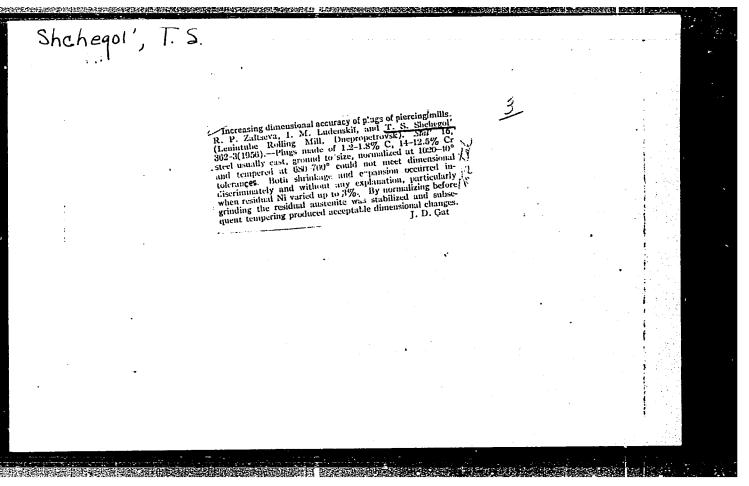
SHOREGOL!, Sh.C., SHER, I.I., GEVERTIAN, A.N.

Formation of scetylenic mydrocarbons in the damydrogenation of butylenes to divinyl. Azerb. Shim. zbur. no. 2:8-11 165.

1. Submitted Dec. 10, 1964.







### CIA-RDP86-00513R001548810006-8 "APPROVED FOR RELEASE: 03/14/2001

137-58-2-3003

Translations from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 111 (USSR)

Akimova, Ye.P., Shchegol, T.S. AUTHORS:

Introduction of Metallized Mandrels for Use in Stainless-steel TITLE:

Piercing (Vnedreniye metallizirovannykh opravok dlya proshivki

zagotovok iz nerzhaveyushchey stali)

PERIODICAL: Byul. nauchno-tekhn inform Vses n.-i. trubnyy in-t, 1957, Nr 3, pp 86-91

ABSTRACT:

A new method is proposed for increasing the durability of piercing-mill mandrels. It consists in metallizing the mandrel tips. The chemical composition recommended for the metal coating is the following: 3.0-3.5 percent Ni,  $\leq 0.2$  percent C. is described, also the procedure for preparing the metal wire to be used in the process. The mandrels are annealed for 3 hours at 980°C, then cooled in the furnace down to 500°C at a rate of 100°/hr. Introduction of this method at the Lenin Plant increased mandrel durability 2-3 times, which made it possible: 1) to cut mandrel consumption by 40 percent, 2) to lengthen the billets for piercing from 700 to 1300 mm, 3) to cut the quantity of

Card 1/2

137-58-2-3003

Introduction of Metallized Mandrels for Use in Stainless-steel Piercing

unpierceable billets from 8-12.7 to 0-1.07 percent, 4) to cut from 3 to 0.27 percent the tubing rejected because of internal scabs. The metal-consumption index dropped from 1.196 to 1.107.

G.K.

1. Hard surfacing-Applications 2. Piercing mills-Equipment

CONTROL OF THE SECOND CONTROL OF THE SECOND

Card 2/2

133-12-10/26

Finkel'shteyn, Ya.S., Candidate of Technical Sciences, and Shchegol', T.S., Engineer. AUTHORS:

An Improvement in the Durability of Stationary Mandrels for TITLE:

Piercing Mills (Povysheniye stoykosti nevrashchayushchi-

khsya opravok proshivnykh stanov)

Stal', 1957, No.12, pp. 1099 - 1103 (USSR)

ABSTRACT: Causes of a decrease in the durability of stationary PERIODICAL: mandrels of piercing mills were investigated. It was found that the main condition for improving their durability is to produce, and then to retain during their work, a wear-resistant austenitic structure of high manganese steel. Highly wearresistant austenitic structure of mandrel's metal can be obtained by using: a) steel of the type (18; b) a rapid heating for hardening, and c) by making mandrels of an elongated form with a cylindrical end. To preserve high wearerongated form than a cylindrical that to preserve high wear-resistant properties of mandrels, the following conditions should be satisfied: 1) correct positioning of axis of rolls of the piercing mill; 2) optimum positioning of the mandrel in the focus of deformation, and 3) good cooling of the mandrel during intervals. As a result of the above measures, the durability of mandrels increased by a factor of 6 (from Uard 1/2 1.33 kg/ton to 0.22 kg/ton of semi-finished product).

155-12-10/26

An Improvement in the Durability of Stationary Mandrels for Piercing Mills

There are 6 figures and 9 Slavic references.

ASSOCIATION:

Dnepropetrovsk Tube\_rolling Mill imeni Lenin (Dnepropetrovskiy truboprokatnyy zavod im. Lenina)

AVAILABLE:

Library of Congress

Gard 2/2

Addition: State of the Market of technical sciences) Chebergel', T. S.; Berensh-teyn, E. r., Ladin, A. B. (Canaldate of technical sciences)

OFG: none

TITIV: America sechanical grinding of carbide tube-drawing dies .

500%CL: Netwillungicheskaya i gornorudnaya promyshlennost', no. 6, 1966, 31-33

WOTT TAGS: metal outting machine tool, electrospark machining, grinding machine, abrabive, dis, metal tube; metal

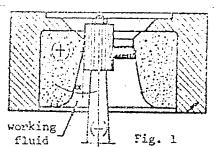
ABSTRACT: in order to extend the life of tube drawing dies used at the Lenin works for drawing tubes up to 50-70 m/min, the ordinary alloy steels used for making the Hos were replaced by the hard alloys VK-8, VK-10, and VK-15. Three anodic-machanical methods were used to machine and polish the dies: anodic-mechanical, using an erosion process which removed large amounts of material but roughened the surface; electroabrasion, using an electrochemical process for cleaning the surface; and abrasion, using the working fluid without electric current. A schematic drawing (see Figure 1) of the technique showed the work (+) and tool (-) kept in contact with acdium silicate solution having a specific gravity of 1.23. The operation

Card 1/2

UDC: 621.789.1:669.27

ACC NR: APTGC2767

of the anodis-mechanical grinding machine is described and technical data for all three processer and given. The lapping material, turning angle, electric parameters, surface characteristics, and grinding time are listed for each process. One anodic-mechanical machine was able to handle all of the dia machinia during normal cold drawing operations at the Lenin works. Industrial trials have shown that the hard alloy



dies last for nove than 5000 pieces of tube. Orig. art. has: 2 figures, 1 table.

SUB CODE: 1\_,13/ SUBM DATE: none/ ORIG REF: 603

NIKITIN, A.V.; Prinimali uchastiye: SHCHEGOL', V.M.; KUR, I.P.; ANTONIK, I.V.; ZHERBUKH, I.N.; LOZINSKAYA, K.A.; BASHINSKAYA, L.I.

Finishing television cabinets by polyester varnishes. Bum i der. prom. no.2:53 Ap-Je '63. (MIRA 17:2)

S/065/60/000/010/009/010 E030/E412

AUTHORS: Pankov, I.A., Zabryanskiy, Ye.I., Zarubin, A.P.

Shcherol', Y.V. and Aronov, D.M.

TITLE: Apparatus WT 9-6 (IT 9-6) for Determining the Research

Octane Number of Motor Gasolines

PERTODICAL: Khimiya i tekhnologiya topliv i masel, 1960, No.10,

pp.49-54

TEXT: A new single-cylinder apparatus, IT 9-6, has been developed for determining the research octane number of automobile fuels. After 150 hours of trials, the results were verified to conform to the specification FOCT 8226-56 (GOST 8226-56). It was put into full-scale production in 1960 and is being used in the domestic production of motor gasoline. The effective cylinder capacity is 652 cc, the cylinder diameter being 85 mm and the stroke 115 mm. The compression ratio can be varied between 4 and 10. The coolant is maintained at 100°C, air is taken in at 52°C and there is no heating of the mixture after the carburettor. The oil pressure is maintained at about 2.0 kg/cm<sup>2</sup> and the engine Card 1/2

S/065/60/000/010/009/010 E030/E412

Apparatus UT 9-6 (IT 9-6) for Determining the Research Octane Number of Motor Gasolines

runs at 600 rpm. As usual, the mixture is adjusted for maximum knock and the reference fuels are iso-octane and n-heptane. Complete linearity between pressure and compression ratio as measured has been checked for compression ratios from 4 to 10. The accuracy of the octane ratings have been checked against the standard ASTM fuels. There are 8 figures and 2 tables.

Card 2/2

ZABRYANSKIY, Ye.I.; LOSAYEV, K.N.; SHCHEGOL', V.V.; ARONOV, D.M.; ZARUBIN, A.P.

Electronic detonation meter DP-60. Khim. i tekh. topl. i masel 8 no.6:65-69 Je 163. (MIRA 16:6)

(Gasoline-Testing)

BALASHOV. [deceased]; SHCHEGOLEV, A.

Soviet equipment on the markets of economically underdeveloped countries. Vnesh. torg. 30 no.12:30-34 '60. (MIRA 13:12)

(Russia--Commerce) (Machinery industry)

SHCHEGOLEV, A., inzhener-konstruktor

We have rebuilt a wooden grain slevator. Muk.-elev. prom. 28 no.6:29
Je 162. (MRA 15:7)

1. Saratovskoye oblastnoye upravloniye khleboproduktov. (Grain elevators)

KOST, A.N.; TERENT'YEV, P.B.; SHCHEGOLEV, A.A.

Synthesis and some conversions of ethynylcarbonols of the pyridine series. Zhur.ob.khim. 32 no.8:2606-2612 Ag 62. (MIRA 15:9)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. (Pyridine) (Alcohols)

PETROV, K.A.; NIFANT'YEV, E.Ye.; SHCHEGOLEV, A.A.; KHUDYNTSEV, N.A.

Synthesis and chemical properties of phosphinites of 1,4;3,6dianhydrohexitol. Zhur.ob.khim. 32 no.9:3074-3080 S 162.

(MIRA 15:9)

(Hexitol) (Phosphinic acid)

PETROV, K.A.; NIFANT'YEV, E.Ye.; GOL'TSOVA, R.G.; SHCHEGOLEV, A.A.;
BUSHMIN, B.V.

Synthesis and reesterification of diphenyl phosphite.
Zhur.ob.khim, 32 no.11:3723-3727 N '62. (MIRA 15:11)
(Esterification) (Phenyl phosphite)

PETROV, K.A.; NIFANT'YEV, E.Ye.; SHCHEGOLEV, A.A.

Synthesis of 1,2-dialkyl phosphinites; 5-6-diisopropylideneglucoses and their conversion to 6-halodeoxyglucose. Zhur.ob.khim.

(MIRA 16:3)

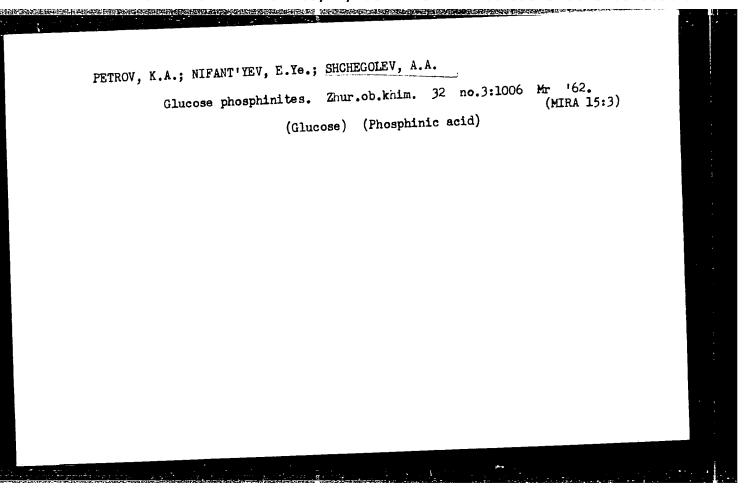
(Phosphinic acid)

(Glucose)

FETROV, K.A.; NIFANT'YEV, E.Ye.; SHCHEGOLEV, A.A.; BUTILOV, M.M.; REBUS, I.F.

Re-esterification of neutral phosphites and phosphinites.
Zhur.ob.khim. 33 no.3:899-901 Mr '63. (MIRA 16:3)
(Phosphinic acid) (Phosphorbus acid)
(Esterification)

THE PRINT, P.B.; AND, L; CONCOLEV, A.A.; THEN THE V, A.C.	
Synthesis and gave reactions of pyridylethinylcarbinols.  Dokl. W 6962 141 no.1:110-113 M '61. (MEA 14:11)	; ; ;
1. Moskovskiy gosudarstvennyy universitet in. M.V. Lomonosova. 2. Chleno-'re rappondert And CR (for A.P. Torent'yev).	: 3
(Methanol)	
	:
	: - -
	•



l<sub>1</sub>3312 8/079/62/052/011/010/012 D204/D307

AUTHORS:

Petrov, K.A., Nifant'yev, E.Ye., Gol'tsova, R.G.,

Shchegolev, A.A., and Bushmin, B.V.

TITLE:

Synthesis and peresterification of diphenyl phosphite

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 11, 1962,

3723 - 3727

TEXT: The interactions of diphenyl phosphite with aliphatic alcohols were studied since the alcoholysis of diethyl and other simple phosphites (to higher phosphites) and phosphinites requires, in some cases, inconveniently high temperatures (this journal, p. 3716 Dialkyl phosphites (RO)<sub>2</sub>POH, where  $R = C_4H_9$ ,  $\frac{iso-C_5H_{11}}{iso-C_5H_{11}}$ ,  $C_6H_{13}$ ,  $C_8H_{17}$ ,  $C_9H_{19}$ ,  $C_{10}H_{21}$ ,  $C_1CH_2CH_2$ , and  $C_2H_5OC(0)CH_2$ , were prepared in 91-96 % yields by adding 2 moles ROH to 1 mole (PhO)<sub>2</sub>POH and heating for 3-8 hours at  $100^{\circ}C$ , in the presence or absence of catalyst (Na). The high reactivity of diphenyl phosphite as compared to those of simple dialkyl phosphites is ascribed to (1) the existence Card 1/2

Synthesis and peresterification ... S/079/62/032/011/010/012 D204/D307

of transistory forms  $\begin{bmatrix} PhO \\ PhO \end{bmatrix}$   $P \leftarrow \begin{matrix} OR \\ H \\ OH \end{bmatrix}$  and  $\begin{bmatrix} PhO \\ RO \end{matrix}$   $P \leftarrow \begin{matrix} OR \\ H \\ OH \end{bmatrix}$ , which preference

rentially eliminate PhOH rather than ROH, owing to the considerably higher electrophilic character of the PhO group, and (2) the fact that the tautomeric equilibrium favors the trivalent P form far more in diphenyl than, say, in diethyl phosphite. Similar reactions took place readily with substituted alcohols such as e.g. (CH<sub>3</sub>)<sub>2</sub>

NCH<sub>2</sub>CH<sub>2</sub>OH. Diphenyl phosphite was obtained almost quantitatively by the equimolar interaction of diphenyl chlorophosphite with methanol (sealed tube, 100°C, 3 hrs.) and by the interaction of methyl dichlorophosphite with phenol (1:2) at 100°C for 1 hr. The latter method, which is generally convenient for the preparation of diaryl phosphites, was also used to make di-p- and di-m-cresyl phosphites, in ~100 % yields, by reacting CH<sub>3</sub>OPCl<sub>2</sub> with para- and meta-cresols There is 1 table.

SUBMITTED: December 14, 1961

Card 2/2

PETROV, K.A.; NIFANT'YEV, E.Ye.; SHCHEXOLEV, A.A.; THEETEV, A.P.

1,2,3,4-Diisopropylidenegalactose 6-methyl phosphinite. Zhur.ob.khim.

(MIRA 17:3)

34 no.2:690-693 F '64.

Perror, K.A.; Mirmarry, flye, december, A.A.; moment, fel.

Synthesis and allyperior of prespectes end parameter of 1,2,3,5-disempoylides reluctuse and 1,2,3,5-disempoylidese glacose. Emer. ob. cure. 30 fel. c. 1,155-lite. My 14.

Since Inc. 2015 and 19.79

#### CIA-RDP86-00513R001548810006-8 "APPROVED FOR RELEASE: 03/14/2001

SHOREGOLEV A. A. Condudate of Technical Sciences 99-58-7-10/10

TITLE:

Shronicle. The lath Jubilee Scientific Technical Conference of the Novocherkassk Institute of Engineering and Soil Improvement (Khronika. XIX Yubileynaya nauchno-tekhnicheskaya sonferentsiya Novocherkasskogo inzhenerno-meliorativnogo in-

stitute)

PARIODEC'L:

Gidrotekhnika i melioratsiya, 1958, Nr 7, pp 60-64 (USSR)

APSTRACT:

In February 1958, the 19th jubilee scientific technical con-Terence of the Novocherkassk Institute of Engineering and Soil Improvement was convened. The conference discussed the problems in two plenary sittings and in eight sections. The first clenary sitting was opened by the Director of the Institute, N.K. Shuller, with a report on "The 50th Anniversary of the Movocherkassk Institute of Engineering and Soil Improvement and its activity during 40 years of the existence of the Soviet State". The meeting heard the following reports: Professor B.A. Shumakov, Member-Correspondent of VASKhNIL and Doctor of Technical Sciences, on "The History of the Development of the Science of Soil Improvement in the North Caucasus and the Don River Region": Dotsent, A.A. Shchegolev (NIVI), Candidate of Historical Cciences, on "National Economy of the North Caucasus

Card 1/10

93-55-7-10:30

Chronicle. The 19th Jubilee Scientific Technical Conference of the Novocharkasek mathemate of Engineering and Soil Improvement

in the 6th Bive-Year Plan"; P.M. Valinovskiy, deputy chief engineer of Yunhgiprovod/hoz, on 'The Problem of a Complex Stallization of the Baser Yandsay for the National Economy of the Chinese People's Republic"; L.A. Chemnirevich, deputy chief enrineer of the Siprovodkhoz MCVh SCMs, on "Frrigational Sork in Jeylon". The soil improvement section, the chairman of which was Professor F A. Shumakov, Member-Correspondent of VARYHNIL, heard the following reports: Botsent Y.F. Anisimov (Seratov SKhI), Scientific co-worker D.M. Kegal nikov, I.S. Nyoganov (Stalingrad OMS) and V.N. Marchene: (Grozay OMS) on agentions concerning irrigation systems and irrigation method:. 1 /> Akhundov (AzMELGiM), Candidate of Technical Colences. on "Tay's of Pasic Soil Improvement in the Shirvanshaya Stappe"; Ye 1 Diotnov on "Resturribles in the Winereliaetion of Iralnage Caters": V Fn. Klota, Engineer, (Nostor Oblvočkhoz) and A V. Polgikh, Scientific co-worker of the ArMIDIX, on "Checking Filtration from Canals by Yeans of Dealing Their Peds"; T W Over Youa Bosymprovedkhos), Engineer on irrigation systems in the Meancharskaya plain, AsAs Troitskiy. Dotsent (Saratov-

Jard 7/10

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001548810006-8"

20-28-2-10/10

Chronicle The agent Jabiles Darent, fix Wechnical Confessor of the Novo-cherkapak Incurses of Engineering and Josi Improvement

Daiy institut merhanizassii sel skogo khocysystva - Baratov Institute of Agricultural Machanization), on "Teneral Erinciples of A Complex Utilization of the Local Flow of Cater in the Don-Volga-Gral Regions', I F. Sukharev, Candidate of Technical Stiences, Director of the irrigation department of the Institute imens Pokuchayev, on "The Local Flow of Sater in the South-Fast Vorenezh Oblast , Its Regulation and Utilization for Irrigetion"; P.A. Sheprel' and M.A. Tolkonskiy, Engineers (Stalingrad oblast ), on "The Development of Economical Mathods for Utilizing the Volga-Abhtuba Elver Valley and the Volga belta"; K.S. Glubonov, Francer, on "The Application of Automatic Glubshev Water Moters in the Irrigation Systems of the Bostov Chlast'" The irrigation section, the chairman of which was Dotsent K.S. Garin, Candidate of Agricultural Beiences. beard the following reports: Dotsont K.S. Garin, on "Variations of Osmotic Indicators for the Mater Supply of Corn Plants in Various Phases of Tevelopmens": P V. Yarmizin, Candilate of Agricultural Sciences (YuzhNITGIM),on "The luestion of Coning Tinter Theat Areas in the North Cauchsus Bequiring Arrisetion"

Card 7 (10)

Chronicle. The 19th Julilee Scientific Technical Conference of the Novo-checkersk Institute of Engineering and Soil Improvement

P.I. Dukarevich, Candidate of Agricultural Sciences, head of the laboratory for irrigation of the Don-Zone Scientific Research Institute of Agriculture, on "Fertilization and Irripation of Corn in the Cis-Caucasian Black Soil Regions of the Fostov Oblast'"; A F. Kalashnikov, Candidate of Agricultural Poiences, President of the kolkhoz "Leninskoye znamya" (Azov region, Rostov oblast'), on "Peculiarities of the Water System of the Cis-Caucasian Flack Soil Regions"; Ya.V. Smol'skiy, Candidate of Agricultural Sciences, on "Mechanization of the Cultivation of Intertilled Crops Under Irrigation in the Foothalls of the North Caucasus"; I.P. Kruzhilin, Aspirant NIMI, on "Irrigation Systems for Cunflowers in the Rostov Oblast"; A.I. Pezmenov, Aspirant of the Saratov SKhI, on "Mechanization of Seeding and Planting Under Various Irrigation Methods"; F.V. Fiver, Teacher of the Kherson SKhI, on "Soaking Irrigation in the South of the USSR': F.K. Rodionovskiy, Candidate of Agricultural Sciences, on "The Accumulation and Change of Organic Substances in the Soil Under Various Sultivations of Grop Rotations". The joint sitting of the soil improvement

card 4/10

Chronicle. The lath Jubilee Scientific Technical Conference of the Novo-cherkassk Institute of Engineering and Soil Improvement

。 1. 1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年

> and irrigation sections (chairman Professor P.A. Shumakov) heard the following reports: N.I. Nefedov, Engineer and Peputy Minister of water economy of the Kirghiz SSR, A.A. Smolyakov (Stalingrad branch of Yuzhgiprovodkhoz) and V.N. Martensen, Engineer (Ministry of Water Economy of the Azerbaydzhan SSE) on the tasks facing the water economy in the Firghiz 33R, Stalingrad oblast' and Azerbaydzhan SSR; A.A. Ovchinnikov, Director of Yushgiprovodkhoz, on "Several Questions on the Irrigation System and Agricultural Engineering of Winter Theat and the Pevelopment of Rice Seeding in the Rostov Oblast'"; V.D. Yoval', "andidate of Agricultural Sciences (NIMI), and P.A. Boncharenko, chief economist of Yuzhgiprovodkhoz, on principles for economical efficiency of irrigation systems; L.V. Skripchin-(MIMI), Candidate of Technical Sciences, on actual nuestions of utilizing river valleys and deltas; V.B. Zaytsev, Candidate of Agricultural Sciences, head of the laboratory of the Kuban Rice Station on "The Water Supply of Rice Irri-gation Systems". The section of agricultural water supply and irrigation, whose chairman was Professor V.S. Ovodov, heard the following reports: Professor V.S. Gvodov (NIM1), on "The Develop-

Card 5/10

Chronicle. The 19th Jubilee Joientific Technical Conference of the Novocherkassk Institute of Engineering and Soil Improvement

ment of the Theory of Agricultural Mater Supply by the Novocherkassk Institute of Engineering and Soil Improvement"; N.A. Karambirov, Candidate of Technical Sciences (Moscow Institute of Irrigation Engineers imeni Vil'yams) and I.F. Volci'ko (All-Union State Institute of Geology), on general irrigation problems; B.M. Kozenko, head of the Krasnodar Giprosel'stroy, on "The Classification of the Saters of the Priazovo-Kuban Artesian Basin"; M.Ya. Yeliseyev, Candidate of Technical Sciences (MIMI), on the development of unreinforce. cement-lined gravel filters for well drilling; D.B. Savvin, Candidate of Technical Sciences (MIMI), on "The Experience in Operational Utilization of Inertia Pumps of the A.V. Kanashinskiy and D.D. Savvin System, for Providing Dry Regions with Water"; V.M. Dolinskaya, Candidate of Technical Sciences, representative of Exrainian NIIGIM, on "Water Consuming Norms for Flanning Water Supply Lines on Cattle Farms"; A.A. Romanov, Chief engineer of the Stalingrad office of Neliovodstroy, on "Experience in Using MIVI Construction Filters Made of Forous Concrete with Reinforced Shaft Wells": M.T. Rastyapin,

Card 6/10

Chronisle: The 19th Jubilea Scientific Technical Conference of the Novo-cherkassk Institute of Engineering and Joil Improvement

Engineer NIMI, on "Automotic Chlorinators for the Disinfection of Low later Discharges"; B.N. Linevich, Engineer, Novocherkassk politekhnicheskiy institut (Novocherkassk Folytechnical Institute), on "Experience in Using Radiometric Isotope Methods for Research in Water Processing": M.G. Kukhlak, Engineer, hostteploelektroproyekt, on " A Graphic Method for Selecting Economical Pipe Diameters for Steel Water Pipes"; V.J. Il'yin, Candidate of Technical Sciences (NIMI), on "The Influence of the Location of Water Pressure Reservoirs on the Operational System of Pumps, Water Pipes, Water Systems and "ater Towers". The hydrotechnical section whose chairman was I.K. Fedichkin, Candidate of Technical Sciences, heard the following reports: L.A. Chernikevich, Deputy chief engineer of the Vsesoyuznyy proyektnyy institut "Giprovodkhoz" (All-Union Flanning Institute "Giprovodkhoz"), on "Standard Flanning and Questions in Scientific Research"; Dotsent V.M. Apollosov (MIIVKh im. Vil'yams) on "Prefabricated and Reinforced Concrete in Soil Improvement Structures"; A.F. Dikov, Engineer (Azgiprovodkhoz), on "Prefabricated Hydrotechnical Structures in Azerbaydzhan": V.D. Zherzhnev. Engineer (Pvetigorsk branch

Card 7/10

Chioniste. The 19th Jubilee Scientific Technical Conference of the Novocharkesk institute of Engineering and Soil Improvement

of Yuzhgiprovodkhoz), on "A Prefabricated Reinforced Concrete Water Spillway for Tater Reservoirs of Kolkhozes"; A.D. Soldatov, Engineer, on "The Designing of Prefabricated Reinforced Concrete Bulkheads by Girrorechtrans"; V.M. Folumbo on observations on the filtration through the Tsimlyansk dam; 1.K. Fedichkin, Candidate of Technical Sciences and S.K. Kuznetsov, Engineer (NIMI), on "Laboratory Research on the Hydroelectric Power Flant on the River Aley for the Purpose of Supplying Water to the Altay Tractor Flant and the Town of Rubtsovsk"; P.F. Kononenko, Candidate of Technical Sciences, V.P. Ivanov and P.M. Stepanov (NIMI), on "Laboratory Research of Vater Spillways of the Hydroelectric Power Plant of the Kuban'-Kalaus Irrigation System"; V.V. Grekov, Engineer, on "Complex Methods to Control the Sliding and Rupture of Shores"; P.V. Pashchenko on "Experience in Using Stationary Continuous Shore-Supporting Construction". The hydraulic, hydroenergetic and hydrological section whose chairman was Dotsent M.M. Skiba, Candidate of Technical Sciences, heard the following reports: A.D. Soldatov, Engineer, on "Some Observed Results of the Transformation of the Tsimlyansk Tater Reservoir Shores"; L.M. Konarzhevskiy,

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Throntole. The 19th Jubilee Scientific Technical Sonference of the Tovo-cherkarsk Institute of Engineering and Soil Improvement

Engineer (Yuzhsiprovodkhoz), on "Surface Water Flow in the Sal'sk Steppe"; Dotsent A.F. Samokhin (Rostov State University), on "Geographical Borders of the Distribution of "Pyatro" (unknown) in the USSR"; 3.A. L'vov, Potsent of the Enepropetrovsk sel'skokhozyaystvennyy institut (Dnepropetrovsk Agricultural Institute), on "A New General Method of Monomial Expressions for the Calculation of Turbulent Flow Streams"; K.I. Lysov, Candidate of Technical Sciences (MIVI), on "The Cavitation of Fumps in Soil Improvement Fump Stations of the Rostov Oblast'": C.M. Savenko, Candidate of Technical Sciences (NIMI), on "Results of Laboratory Research on the Winter System of Water Intakes Without Pams": V.F. Ievon, Stalingrad GES, on "Advanced Orderational Methods of Fitting in the Construction of the Stalingrad GES"; S.I. Ignatenko, Candidate of Technical Sciences and A.K. Tilin (NIMI), on "Hydraulic Calculation of the Nater Intake at the Intersection Place of Two Flows". The joint meeting of the hydrotechnical, hydraulic, hydroenergetic and hydrological sections heard the following reports: M.M. Skiba, Candidate of Technical Sciences (NIMI), on "The

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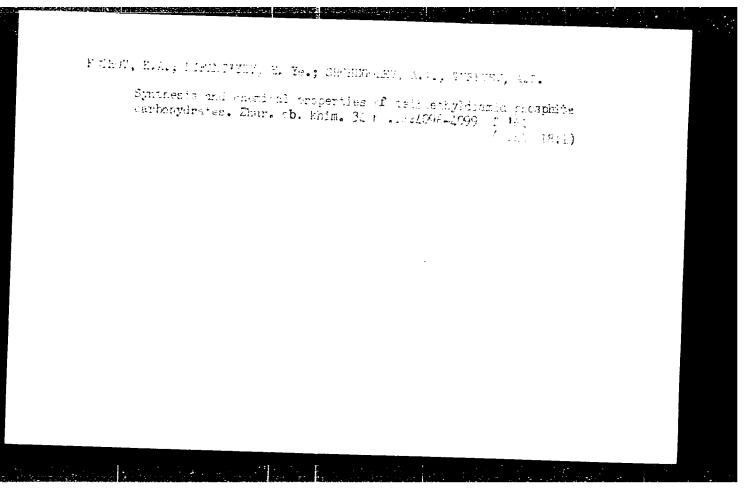
Total Class The 19th Jubilee Scientific Yechnical Conference of the Sevo-cherkasek Enstitute of Engineering and Soil Improvement

Internal Mechanism of the "later Jump"; A.A. Koshintsev, Engineer and head of the hydrotechnical section of the Belorechenskaya GES, on "Methods to Control the Filling in of the Upper "ater Head of the dES"; A.D. Saratovskiy and A.T. Bereda, Engineer, on "The Control of Ice Disturbances in Hydrotechnical Structures and Canals"; V.G.Sukharev on hydraulic problems in the activity zone of the Fyatigorsk branch of Yuzhgiprovodkhoz. The section of forestry whose chairman was S.F. Bessarabov, Candidate of Agricultural Sciences, heard the following reports: 3.F. Bessarabov on "The Results of the Scientific and -Educational Nork of the Forestry Department of NIMI During the Time of Its Existence"; Dotsent K.A. Lashkevich and V.P. Pigarev, Forestry Engineers in the Don and North Caucasian regions; W.R. Kulikh, Candidate of Agricultural Sciences, H.A. Omirnova, Engineer, and Yu.T. Molotarev on soil improvement and afforestation of sandy regions. The second plenary sitting agreed to convene the 20th scientific technical conference of the Institute in February 1959.

Card 10/20

1. Soil engineering-Development-USSR 2. Soil engineering-Development-China 3. Agriculture 4. Irrigation systems 5. Water-Chlorination

158.	s in brass die casting. [Izd. ] LONITO	MASH 45:138-149 (MIRA 11:6)



Mold for making large castings under pressure. Lit. proizv. no.9:36-37 S 165. (MIRA 18:10)

MISUNT YEV, E.Ye.; SHOREGOLEV, A.A.

Synthesis and alkylation of dipropyl phosphirities of 1,2-5,6-dicyclohexylideneglucose, 1,2-isopropylidene-byte-dimethyl-glucose, and 3,4-isopropylidene- $\beta$ -methylarabinoside, Vast. Mosk. un. Ser. 2:Khim. 20 no.4:80-82 Jl-Ag [65. (VIII 18230)

1. Kefedra khimicheskoy tekhnologii Moskovskogo gozudarstvennogo universiteta.

SHCHEGOLEV, A.F.; IRGER, I.Yu.

New exhibits at the All-Union Industrial Exhibition. Leg.prom.
17 no.8:10-11 Ag '57.

(MIRA 10:10)

(Moscow--Exhibitions) (Manufactures--Exhibitions)

SHCHEGOLEY, A.F., IRGER, I.Yu.

Awarding diplomas at the All-Union Industrial Exhibition. Tekst. prom. 17 no.9:54-56 S '57. (MIRA 10:11)

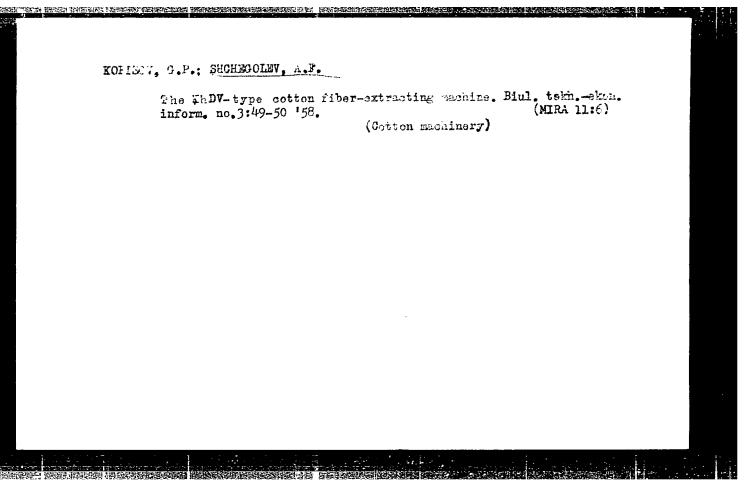
(Textile industry-Exhibitions)

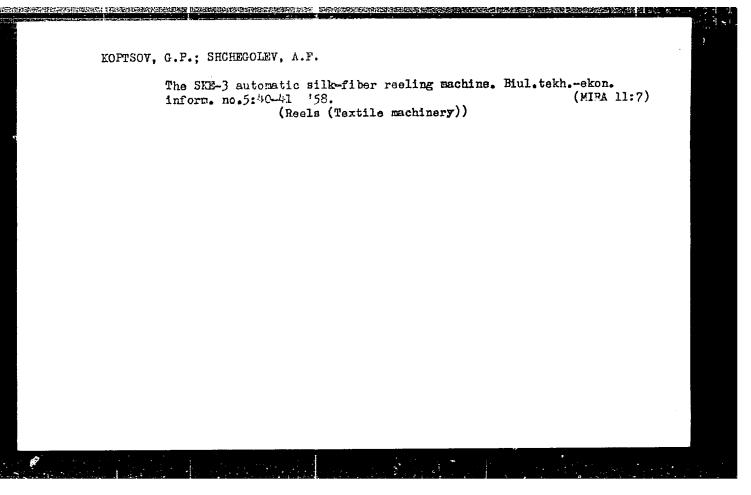
SHCHEGOLEV, A.F.; IRGER, I.Yu.

New sewing equipment. Biul.tekh.~ekon.inform. no.2:44-46 158.

(MIRA 11:4)

(Sewing machines)





SHCHEGOLEV, A.F.: IRCER, I.Yu.

Awarding diplomas at the All-Union Industrial Exhibition. Tekst.
prom. 18 no.11:68-69 N '58. (MIRA 11:12)

(Technology--Exhibition)

SHCHEGOLEY, A.F., inzh.: IRGER, 7.Yu.

New equipment for light industry at the All-Union Industrial Exhibition. Izv.vys.ucheb.zav.; tekh.leg.prom. no.1:131-141 [159.] (MIRA 12:6)

1. Upravleniye promyshlennosti Vsesoyuznoy vystavki dostizheniy narodnogo khozyaystva SSSR.

(Moscow--Industrial exhibitions)

SHCHEGOLEV, A.F., inzh.

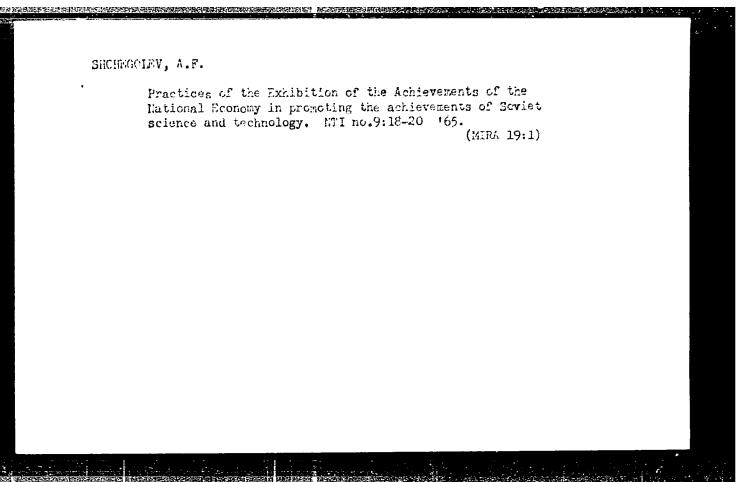
Important objectives of the Exhibition of Achievements of the National Economy of the U.S.S.R. Mekh.i avtom.proiz. 14 no.6: (MIRA 13:7) (Moscow-Exhibitions) (Technological innovations) (Automation)

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SOSUNOV, Nikolay Alekseyevich; GRUNENYSHEV, Nikolay Aleksandrovich; KUZ'EIR, Mikolay Ivanovich; PCMYKANOV, Nikolay Nikolayevich; SHCHEGOLEV, A.F., red.; GROMOV, N.D., red. izd-va; VAYNSHTEYH, Ye.B., tekhn. red.

[Mechanization of loading and unloading operations in transportation; review based on the materials of a thematic exhibition] Mekhanizatsiia pogruzochno-razgruzochnykh rabot na transporte; obzor po materialam tematicheskoi vystavki. Moskva, Gos.nauchnotekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1962. 223 p. (MIRA 15:3)

1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR. (Loading and unloading)



SHOHEMOLIN, A.G., Cand Led Sci -- (dist) "Obtaining confiltering forms of hemolytic streptococcus in vitro and the biological properties of regenerated cultures." Los, 1959, 16 pp (Second Lost State Inst is 1.1. Pirogov) 250 copies (KL, 36-59, 120)

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