EVT(1)/EVT(m)/EVP(w)/EVP(v)/T/EVP(t)/EVP(k)

ACC NR: AP6008811 SOURCE CODE: UR/0135/66/000/003/0002/0006

AUTHOR: Nikiforov, G. D. (Doctor of technical sciences); Boldyrev, A.M. (Engineer); Bukurov. V. I. (Engineer)

ORG: MATI

TITLE: The mechanism of porosity formation and the effect of some welding conditions on the porosity in AMg6 alloy welds

SOURCE: Svarochnoye proizvodstvo, no. 3, 1966, 2-6

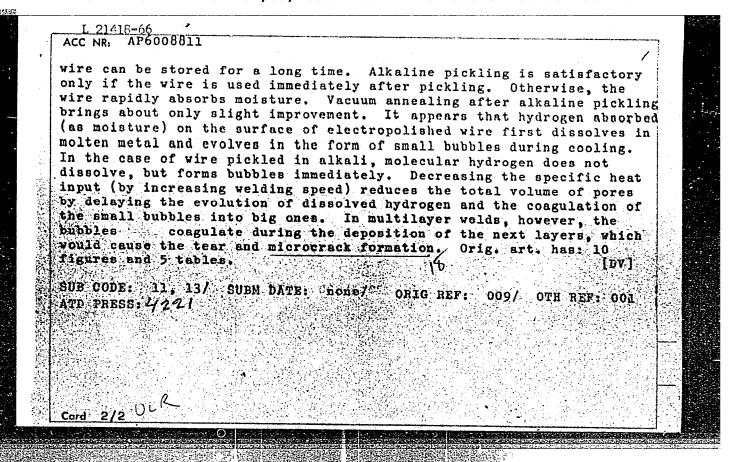
TOPIC TAGS: aluminum alloy, magnesium containing alloy, alloy welding, TIG welding, MIG welding, alloy weld, weld porosity, porosity rormation

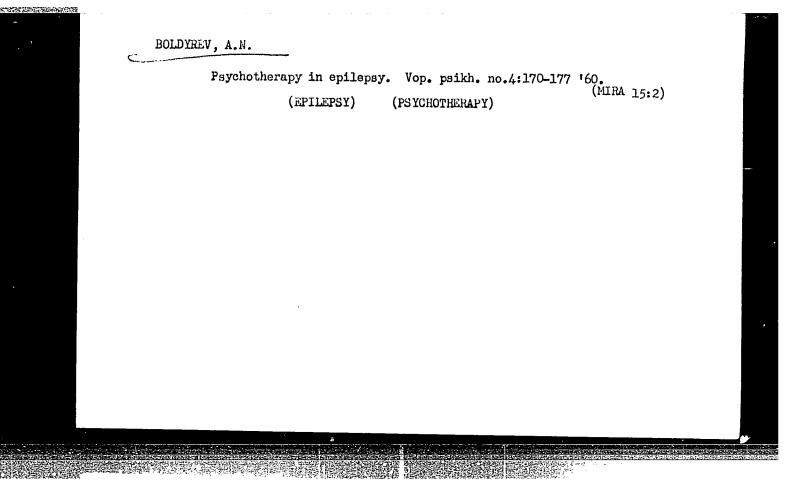
ABSTRACT: A series of experiments has been conducted with TIG and MIG Dwelding of AMg6 aluminum alloy sheets and plates 2—10 mm thick in order to determine the effect of some variables of the welding process on weld proposity. It was found that in welding sections up to 4—5 mm thick, most of the hydrogen of ginates from the surface of the base metal. In welding heavier sections, the surface of the filler material becomes the main source of hydrogen. Alkaline pickling followed by mechanical cleaning (with a scraper or wire brush) shortly before welding ensure satisfactory cleanliness of the base-metal surface. The filler (electrode) wire is best cleaned by electrolytic polishing, after which the

Card 1/2

UDC: 621.791.753.93.019:669.715

IJP(c)

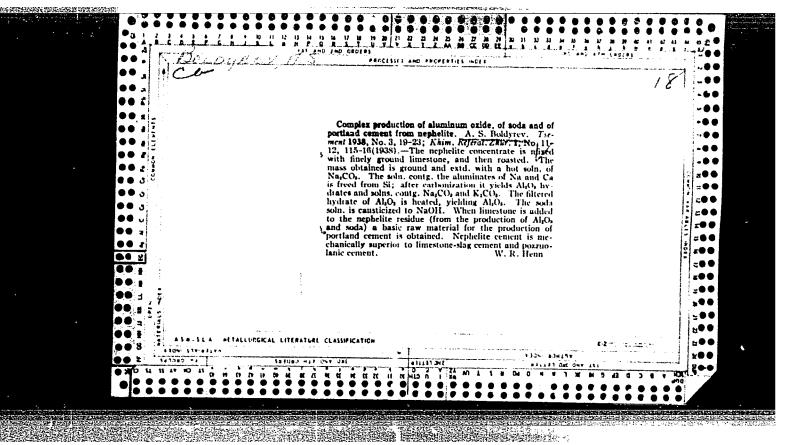


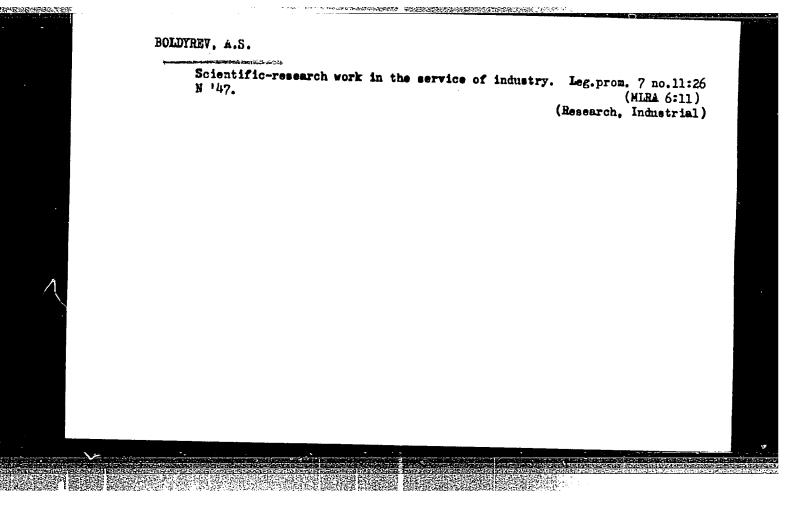


Assembly and installation of the hydraulic machinery units. Energetroi. no.23:78-85 '61. (MIRA 15:1)

1. Zamestitel' glavnogo inzhenera stroitel'stva Kremenchugskoy gidroelektrostantsii (for Levchenko). 2. Nachal'nik uchastka tresta "Spetsgidroenergomontazh" (for Boldyrev).

(Kremenchug Hydroelectric Power Station--Hydraulic machinery)





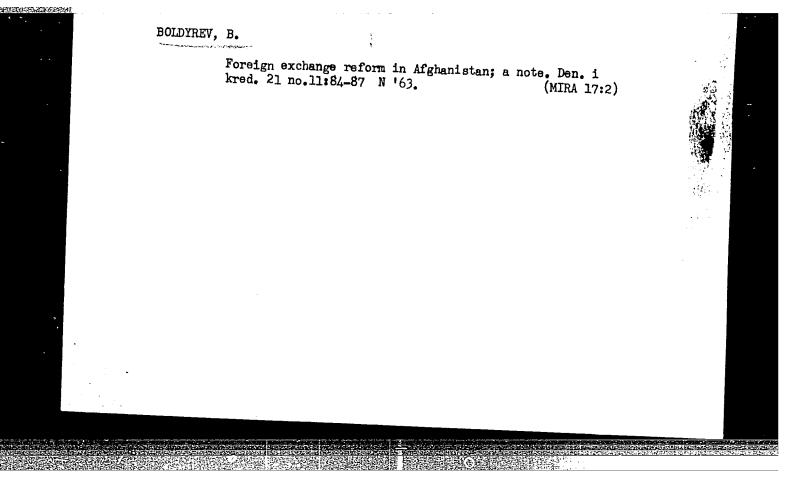
	BOLDYREV, A.S.; GASHIMOV, M.A.	
	Introduce cementless structural elements into large-panel con- struction. Stroi. mat. 7 no.10:18-23 0 61. (MIRA 14:10)	)
	<ol> <li>Zamestitel predsedatelya Gosstroya RSFSR (for Boldyrev).</li> <li>Glavnyy spetsialist Cosstroya RSFSR (for Gashimov).</li> <li>(Lightweight concrete)</li> </ol>	
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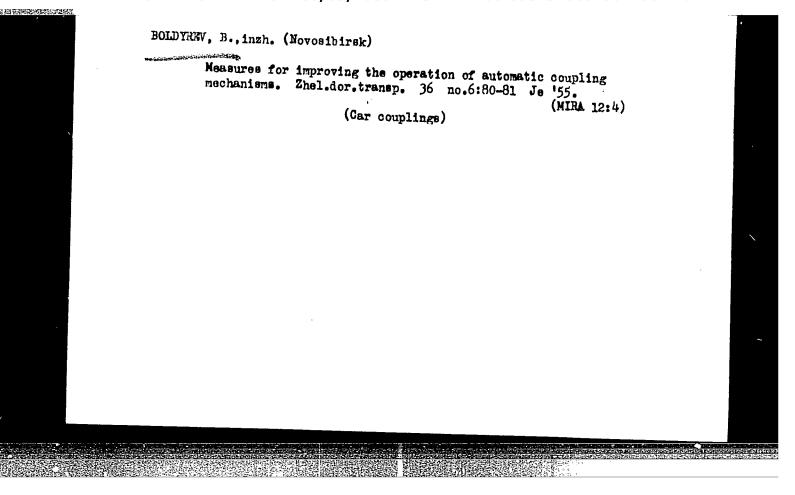
BUDNIKOV, P.P.; ALEKPEROV, M.S.; BAKLANOV, G.M.; BOLDYREV, A.S.;
BOS'KO, K.D.; VOIZHENSKIY, A.V.; GROKHOTOV, N.V.; ZHUKOV, A.V.;
ZABAR, L.B.; KITAYEV, Ye.N.; KOSHKIN, V.G.; KRUPIN, A.A.;
MURGMSKIY, P.G.; POPOV, A.N.; SUKHOTSKIY, S.F.; USPENSKIY, V.V.;
KHINT, I.A.; SHVAGIREV, M.P.; YUSHKEVICH, M.O.

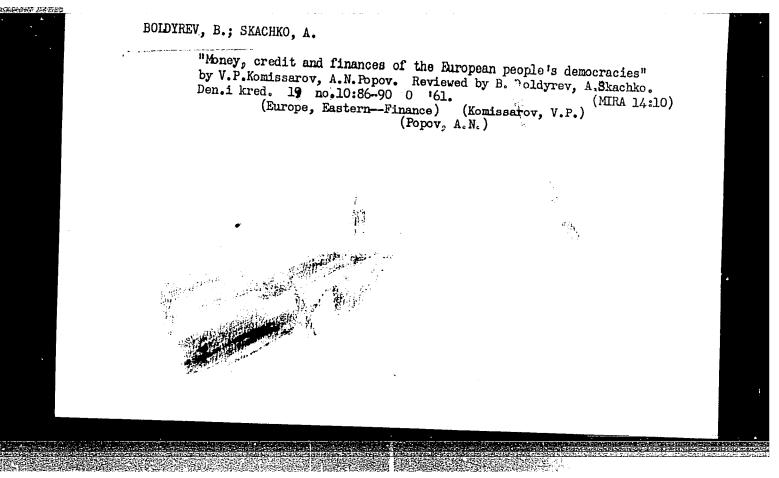
Conference on increasing the durability of corrugated roofing sheets. Stroi.mat. 8 no.1:p.3 of cover Ja '62. (MIRA 15:5) (Roofing)

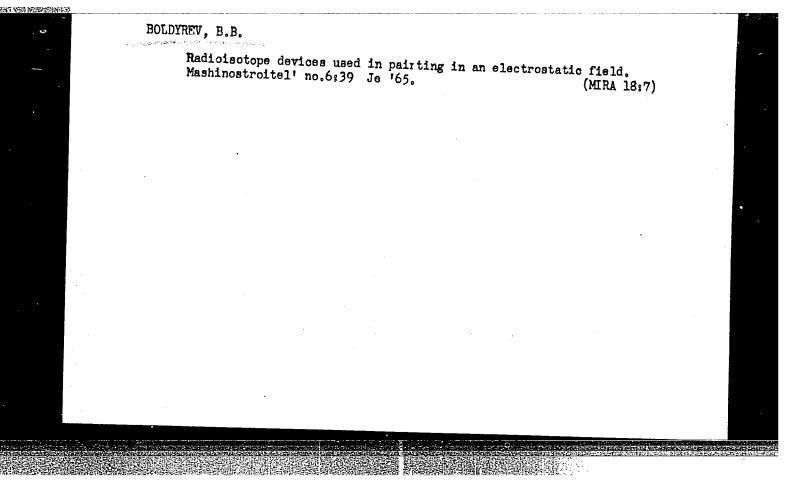
Main task for 1965 is the expansion of production, increasing the variety of materials, improving quality, and strengthening the economy. Stroi. mat. 11 no.221.3 F '65. (MTRA 18:3)

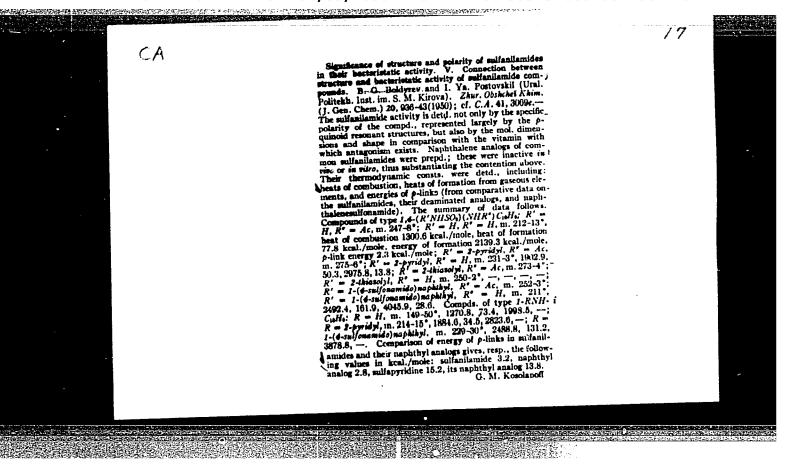
1. Pervyy zumestitel' predsedstelva Gosudarstvennogo komiteta po promyshlennosti stroitel'nykh materialov.

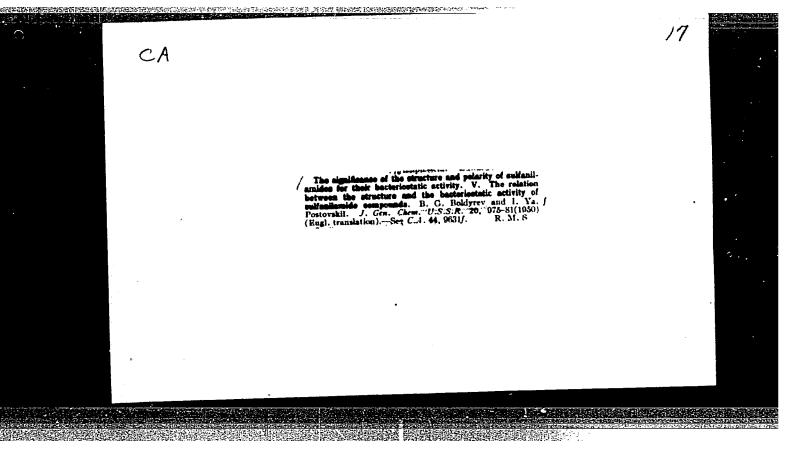


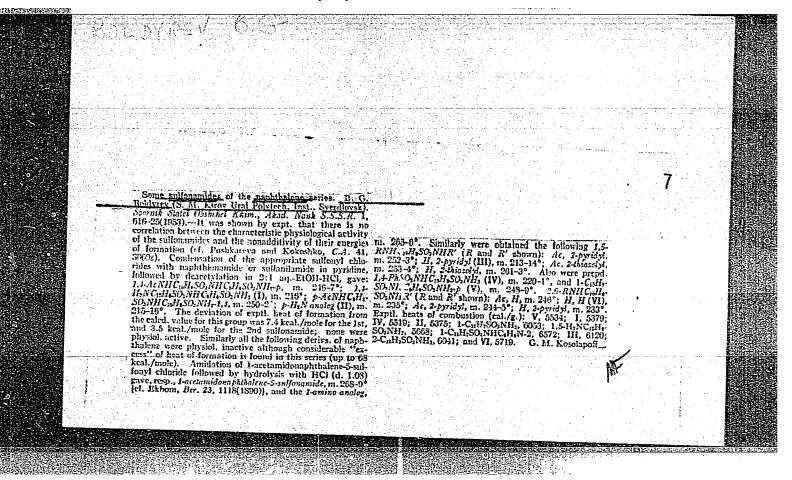


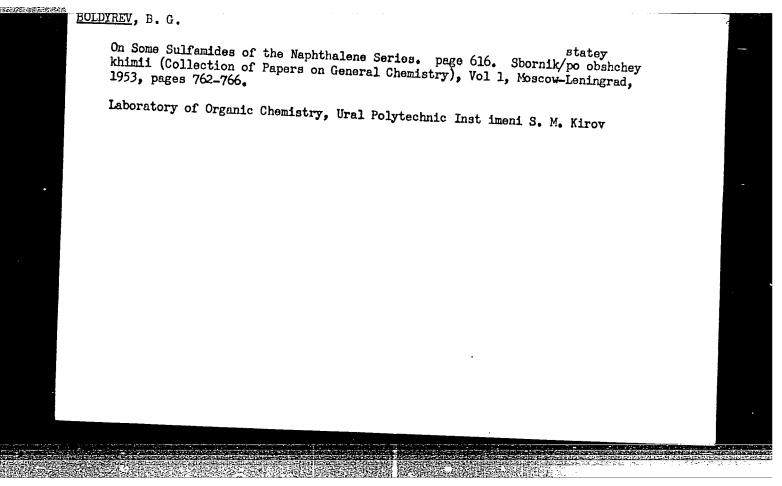


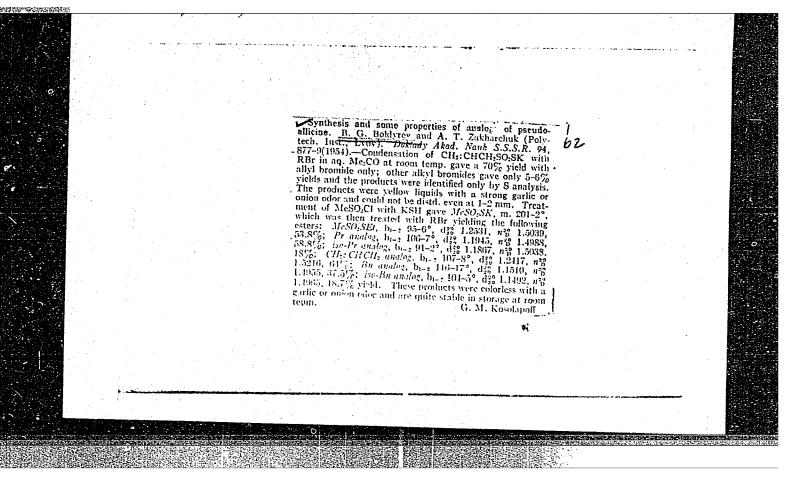


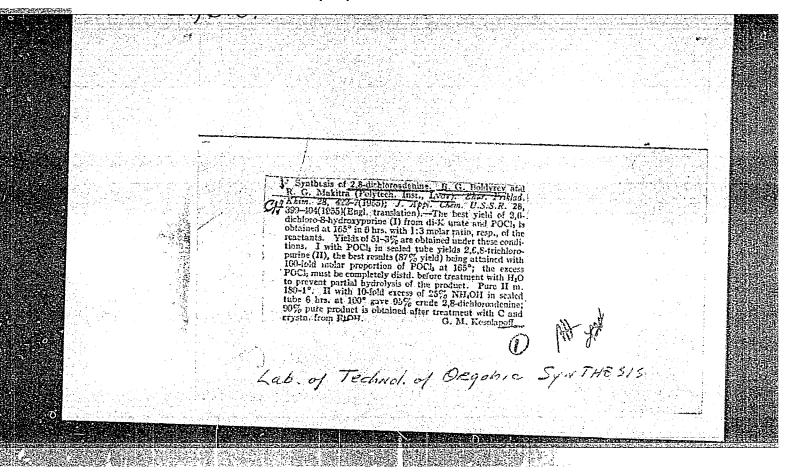


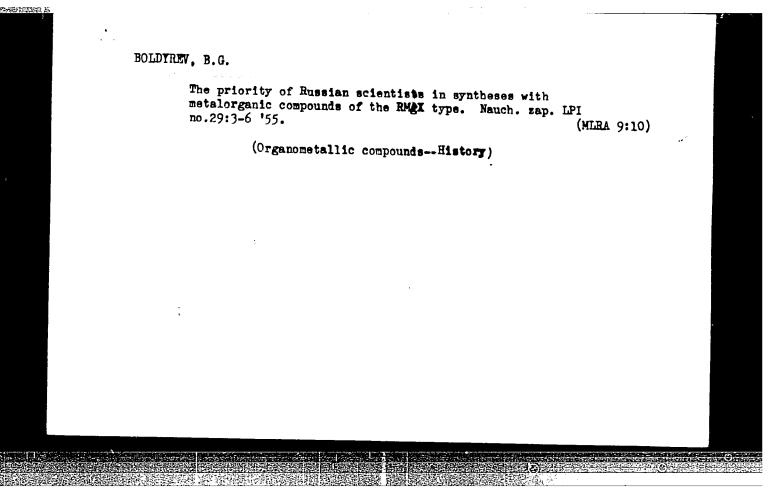


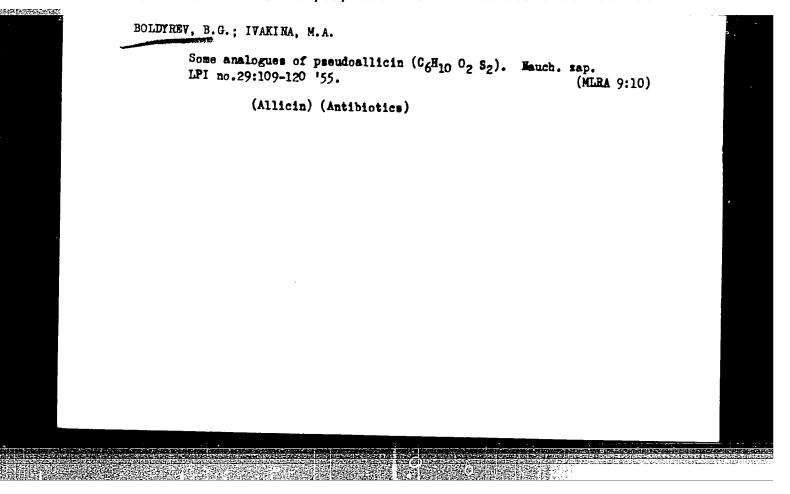


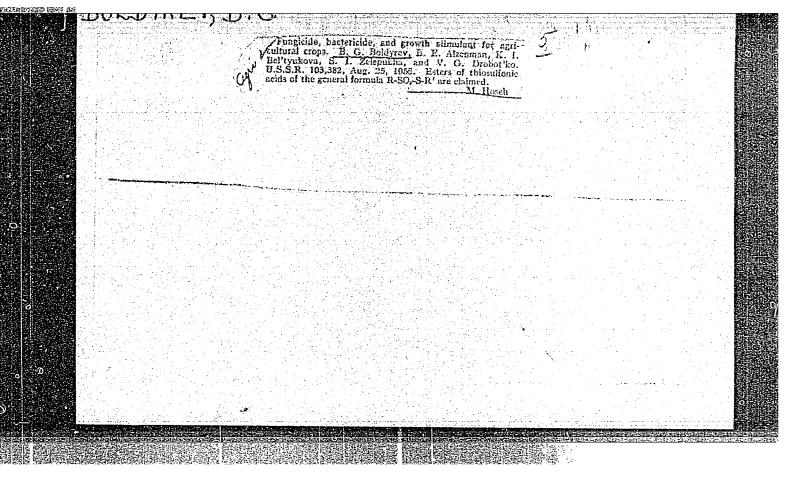


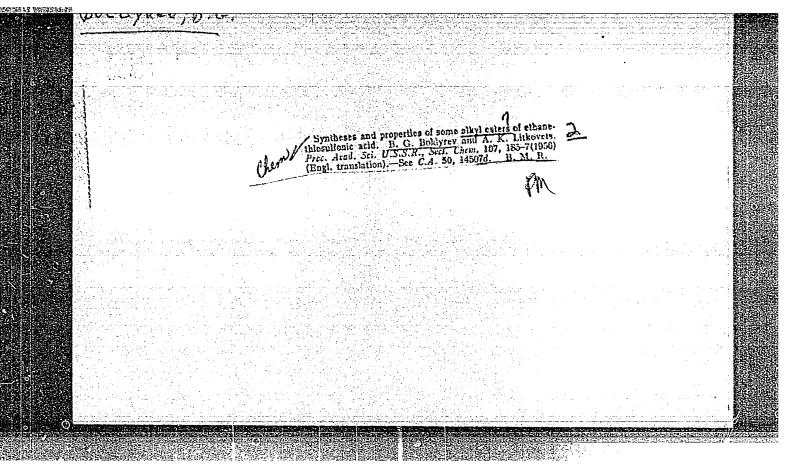


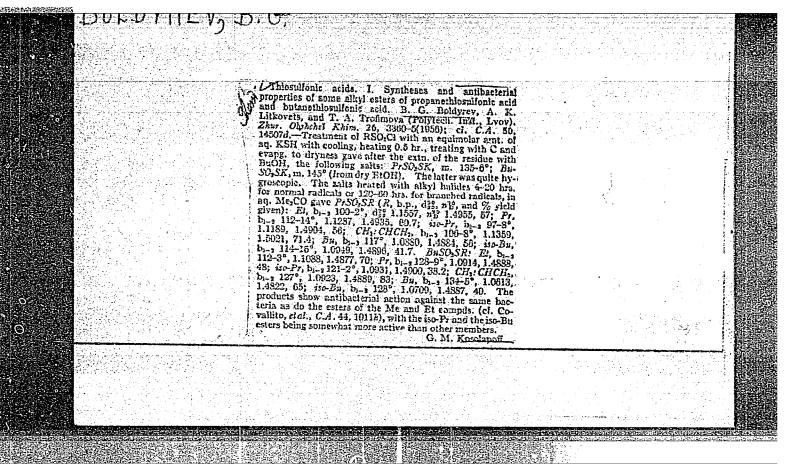










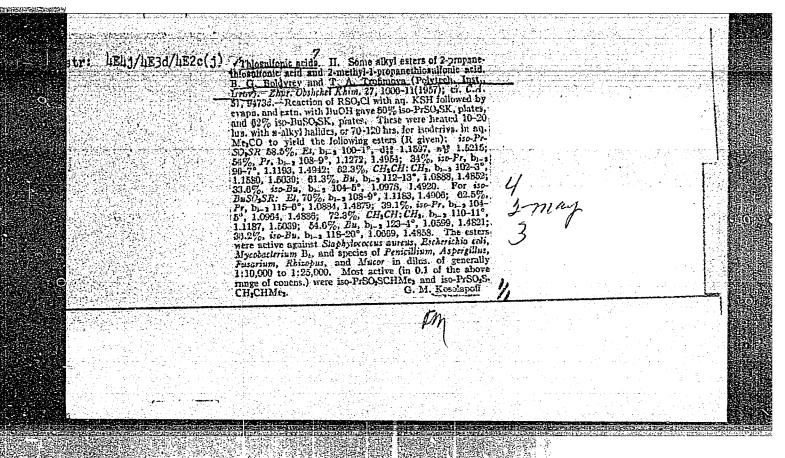


BOLDYREV, B.G.; LITKOVETS, A.K.

Syntheses and properties of certain alkyl ethers of ethane thiosulphonic acid. Dokl.AN SSSR 107 no.5:697-699 Ap '56. (MLRA 9:8)

1. L'vovskiy politekhnicheskiy institut. Predstavleno akademikom I.H. Hazarovym.

(Sulfonic acids)



AUTHOR TITLE BOLDYREV , B.G., GINZBURG, T.S., DRABKINA, R.O.

20-5-27/60

PERIODICAL

On the Antituberculous Activity of Thiosulfonic Acid Ethers.
(O protivotuberkuleznoy aktivnosti efirov tiosul'fokuslot-Russian)
Doklady Akademii Nauk SSSR, 1957, Vol 114, Nr 5, pp 1014-1016(U.S.S.R.)

ABSTRACT

This activity of I thiosulfonic acid ethers has hitherto not been investigated at all. Only in one instance did the bacteriostatic action of II ethanethiosulfonic acid on Mycobacterium tuberculosis became known. In view of the fact that the structure of the IV-comrounds is expressed by their anti-tuberculous properties, the authors hoped to detect substances with such properties among the ethers of I thiosulfonic acids. Alkyl ethers of alkane thiosulfonic acids. Closed to the allicin-analogues according to their structure are the alkyl-ethers of V alkane thiosulfonic acids, which were already earlier synthetized by an author. These substances have a broad antibacterial action spectrum and exhibit in vitro a bacteriostatic influence on gram-positive, gram-negative and acid-resistent bacteria. on various fungi, protozoa, etc. Tests in vitro. All of the ethers tested showed a tubercolostatic effect. All ethers of methane thiosulfonic acid and propane thiosulfonic acid-2 fully retain their activity even in the presence of serum, in contrast to the alkylethers V of the other alkane thiosulfonic acids. Tests in vivo. The preparations found to be most active in vitro were tested on white mice for their toxicity and their deadly action determined in various loses. The least toxic substances among them were tested for clari-

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20-5-27/60

On the Antituberculous Activity of Thiosulfonic Acid Ethers.

fication of their therapeutical effect on experimental tuberculosis. All ethers examined, also those with a maximum activity in vitro, were ineffective on that occasion. In some instances this may be explained by their ability to inactivate themselves abruptly in animal organisms, in other instances it may be explained by their elevated toxicity which prohibits its application in large doses. Alkyl ethers of benzene thiosulfonic acid and their derivatives. The VI ethers have the same effect on the same types of bacteria as thomentioned above. Their activity, however, is weaker than that of the V-compounds. Tests in vitro. The introduction of substituents in a p-position also little changes the activity; chlorine, and the methoxy-group slightly raise it. The nitro group has no noticeable effect, the acetylamine group slightly reduces it; the deazylation of the alkyl ethers of acetylthiosulfonic aid increases the activity of these compounds. The mutual position of the substituents in the benzene nucleus apparently is insignificant for the tuberole-killing properties. Here, too, an inactivation by serum takes place. However, no established connection between structure and inactivation could be found. Tests in vivo. Three VI alkyl ethers with an a ctivity of ca.1 mg, which cannot be inactivated by seria, were tested. No Therapeutical effect was noticed. Thus the tested substances have a tubercle -static activity in vivo, but are ineffective in the curing

Gard 2/3

On the Antituberculous Activity of Thiosulfonic Acid Ethers.

20-5-27/60

of tuberculosis on living animals. (4 Slavic references)

ASSOCIATION

L'vov Polytechnical Institute and Ukrainian Scientific Research Institute for Tuberculosis.

PRESENTED BY NAZAROV I.R., Member of the Academy.

SUBHITTED AVAILABLE Card 3/3

25.2.1957 Library of Congress.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206110014-6"

DUITVICE DIVI

AUTHORS: Bei'tyukova, K. I., and Boldyrev, B. G. 20-3-4**0/52** 

TITLE:

Ethers of Thiosulfoacids as New Means of Combating Bacterial Plant Diseases (Efiry tiosul'fokislot - novyye sredstva

dlya bor'by s bakterial'nymi boleznyami rasteniy).

PERIODICAL: Doklady AN SSSR, 1957, Vol. 117, Nr 3, pp. 500-503 (USSR)

ABSTRACT:

The second author undertook an extensive synthetical work for the research of new bactericidal action based on the efficiency of two others: "Pseudoallizin" and ethanethiosulphonic acid-ethyl ether against bacteria (reference 4). According to their structure the alkyl ethers (VII, VIII) of the alkan- and aren-thiosulphonic acids are closest to the allizin. The second author has synthesized 80 such alkyl ethers (reference 4). Their antibacterial properties proved to be versatile: They have a bacteriostatic effect (as required fungistatic and protistozid) upon gram-positive and -negative as well as acid proof bacteria, various fungi, protozoe and others. Their antibacterial properties vary within relatively narrow limits according to their structure. Most active are the isopropyl- and isobutyl ethers of the cited acids. Present work was carried out in order to find out about the effect of the ethers

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Ethers of Thiosulfoacids as New Means of Combating Bacterial Plant Diseases

20-3-40/52

VII and VIII upon various kinds of bacteria. 40 different strains of 22 phytopathogene bacteria (Tab. 1) were examined. It was established that all ethers VII and VIII act bacteriostatic upon all strains, and only rarely show no bacteria-killing effect. Alkyl ethers VII of the cited acids are most effective against the bactericidal action of plant diseases of the species Xanthomonas. A certain tendency of an increase of the resistance against these substances showed the phytobacteria of the species Corynebacterium, and more resistant are the kinds of the species Pseudomonas and Erwinia (Fig. 1). Some ethers, nevertheless, were effective against most resistant bacteria also in dilutions of 1: 200 000 - 1: 500 000. Alkyl ethers (VIII) of the benzene-thiosulphonic acid are as much active against Xanthomonas, as the ethers VII, but lacks behind as regards the effect upon Corynebacterium and even more so as regards Pseudomonas and Erwinia. Some alkyl ethers VIII of the same thiosulphonic acid were highly active against Xanthomonas and were effective even in a dilution of 1: 1000 000, so that they exceeded all other ethers. The introduction of

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Ethers of Thiosulfoacids as New Means of Combating Bacterial Plant Diseases

20-3-40/52

X-substituents into the p-position to the thio-ether-group of the benzene-thiosulphonic acid lessens the activity; to a small extent this holds for the groups: - OCH, -Cl and NH, to a larger extent for the groups: -NO, and NHCOOCH,

The discussed preparations are harmless under certain conditions and at adequate application for the tissues of seeds of more-years old leguminous green fodder, of kinds of vegetables and corn. On the contrary, they improved the germinating capacity, raised the weight and the size of the germs, and reduced the number of infected germs. The results of the experiments on fields with the treatment of seeds of various agrilculturally useful plants (cabbage, lucern, tomatos) are summarized in the tables 3 - 5.

There are 8 figures, 5 tables, and 7 references, 6 of which are Slavic.

ASSOCIATION: Institute for Microbiology of the AN of the Ukrainian SSR.

L'vov Polytechnical Institute (Institut mikrobiologii

Akademii nauk USSR, L'vovskiy politekhnicheskiy institut).

Card 3/4

Ethers of Thiosulfoacids as New Means of Combating Bacterial Plant Diseases

20-3-40/52

PRESENTED: January 2, 1957, by S. I. Vol'fkovich, Academician

SUBMITTED: October 27, 1956

AVAILABLE: Library of Congress

Card 4/4

AUTHORS:

Boldyrev, B. G., Kofman, Yu. I.

79-28 -3-44/61

TITLE:

Investigation Within the Field of Thiosulfo Acid (Issledovaniye v oblasti tiosul'fokislot). III. Alkyl Esters of Phenylmethanethiosulfo Acid and Its Antiseptic Properties (III. Alkilefiry femilmetanticsul'fokisloty i ikh protivobakterial'nyye svoystva)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 3, pp. 768-769

(USSR)

ABSTRACT:

In earlier works the authors observed in the investigation of alkyl esters (I) of alkanethiosulfo acids that the antiseptic activity of these compounds does not depend on the size and the structure of the radical at the oxidized sulfur, and that the activity practically remains the same for the esters of thiosulfo acids when they are of normal structure and when the number of carbon atoms does not exceed four. For this reason the authors decided to synthesize and investigate more closely the alkyl esters (II) of phenylmethanethiosulfo acid in order to check with this example how the change of the char-

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Investigation Within the Field of Thiosulfo Acid. III. 79-28-3-44/61 Alkyl Esters of Phenylmethanethiosulfo Acid and Its Antiseptic Properties

acter of the radical of thiosulfo acids acts on the antiseptic activity of the esters. The synthesis of the alkylphenylmethanethiosulfonates was carried out according to the earlier described method (reference 1); the obtained esters are listed in the table. They are colorless, crystalline compounds with weak but specific smell, and they are easily soluble in alcohol, ether, acetone and other organic solvents but difficulty soluble in water. The investigation of the antiseptic properties of these esters (II) which was carried out by the Institute for Microbiology of the AS USSR showed that the activity of these compounds compared with the Gram positive, Gram negative and acid-proof bacteria, is smaller than with the alkyl esters of the alkanethiosulfo acids with a number of carbon atoms from 1-4; at the same time the activity of the esters increases considerably compared with the various fungi. Thus the present work proved that the antiseptic properties of thiosulfo acid not only depend on the character of the radicals bound with sulfide sulfur but also on the structure of the initial products, the thiosulfo acids. There are 1 table and 4 references, 2 of which are Soviet.

Card 2/3

Investigation Within the Field of Thiosulfo Acid. III. 79-28 3-44/61 Alkyl Esters of Phenylmethanethiosulfo Acid and Its Antiseptic Properties

ASSOCIATION: L'vovskiy politechnicheskiy institut (Polytechnical Institute,

L'vov)

SUBMITTED: February 4, 1957

Card 3/3

AUTHORS:

Boldyrev, B. G., Trofimova, T. A.

SOV/79-28-7-47/64

TITLE:

Investigations in the Field of Thiosulfo Acids (Issledovaniye v oblasti tiosul'fokislot) IV. On the Reaction Mechanism of the Formation of Thiosulfonates (IV. O mekhanizme reaktsii obrazo-

vaniya tiosul'fonatov)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol. 28, Nr 7,

pp. 1940 - 1944 (USSR)

ABSTRACT:

Alkane- and arene-thiosulfoacids can be obtained in the form of salts RSO, SMe (I) by the action of the halogen anhydrides of sulfo acids on aqueous solutions of potassium sulfide (Refs 1-4). In this reaction process elementary sulfur seprarates. It is assumed that (Refs 2,3) the thiosulfonates (Formula I) are formed according to the general schemes (1) and (2):  $RSO_2Cl+K_2S \longrightarrow RSO_2K+KCl+S(1)$ ,  $RSO_2K+S \longrightarrow RSO_2SK$  (2). It was

therefore of interest to the authors to find out whether the earlier mentioned conceptions concerning the formation of thiosulfonates were correct, this the more since just that way, is by

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the reaction of sulfochloride with potassium bisulfide, 20

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206110014-6" 13

Investigations in the Field of Thiosulfo Acids. IV. SOV/79-28-7-47/64 On the Reaction Mechanism of the Formation of Thiosulfonates

salts of various thiosulfo acids had been synthesized already earlier (Refs 5-9). In order to prove the possibility of a binding of thiosulfates according to the reaction (2) the potassium salt of the acetyl thiosulfanilic acid was produced(II). Following the mentioned reaction scheme the authors realized, on the basis of this compound, the synthesis of the thiosulfo salts of halogen anhydrides of the sulfo acids and alkali bisulfides through the intermediata stage of formation of sulfinic acids. Thus it was shown that the synthesis of thiosulfonates from the salts of sulfinic acids and elementary sulfur is possible. There are 12 references, 9 of which are Soviet.

ASSOCIATION:

L'vovskiy politekhnicheskiy institut (L'vov Polytechnical

Institute)

SUBMITTED:

June 5, 1957

Card 2/3

Investigations in the Field of Thiosulfo Acids. IV. SOV, On the Reaction Mechanism of the Formation of Thiosulfonates SOY/79-28-7-47/64

- 1. Thiosulfonates--Synthesis 2. Halogen anhydrides--Chemical reactions
- 3. Potassium sulfide—Chemical reactions

Card 3/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206110014-6"

sov/20-121-5-43/50

AUTHORS: Boldyrev, B. G., Drobot'ko, V. G., Ayzenman, B. Ye.,

Zelepukha, S. I.

TETLE: On the Antimicrobic Activity of Alkyl Esters of Thiosulfuric

Acids (O protivomikrobnoy aktivnosti alkilefirov tio-

sul'fokislot)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 5, pp. 924-927

(USSR)

ABSTRACT: The above mentioned properties of the esters (I) of the thio-

sulfuric acids were only recently properly investigated for the first time. According to the authors the synthesis of these esters and the study of their bactericidal properties is promising (Refs 1, 2). This is supposed to be the way to develop new active medicaments. First of all, alkyl esters (V) of alkane-thiosulfuric acids which correspond best to the natural antibioticum "Allizyl" were synthesized by the first author (Ref 3). The antimicrobic activity was studied on Staphylococcus aureus, B. coli, Mycobacterium B5, and on various species of fungi, also on water infusoria, on the dysentery bac-

Card 1/3 terium, on blight spores, and on others. The activity of the

sov/20-121-5-43/50

On the Antimicrobic Activity of Alkyl Esters of Thiosulfuric Acids

alkyl ester (V), treated in this paper, of the alkane-thiosulfuric acids changes according to their structure within a rather limited range. This applies also for the fungistatic activity: The esters of phenyl-methane-thiosulfuric acid and of the 2-methyl-propane-thiosulfuric acid-1 are the most active of all compounds (V) examined. The accumulation of thio-ester groups does not lead to a positive result. The attachment of a chlorine atom to the p-position with respect to the thio-ester group scarcely modifies the activity, the attachment of the CH\_CONH-group, however, decreases it. The esters of the thiosulfanilic acid exceed most of the alkyl esters (V) in their antibacterial and fungicidal properties. The obtained results prove, that the structure and the size of the molecules of the esters in question are not crucial criteria for the rate of antibacterial activity. Therefore, investigations in this direction are to be carried on. There are 1 table and 4 references, 3 of which are Soviet.

ASSOCIATION:

L'vovskiy politekhnicheskiy institut (Polytechnical Institute L'vov) Institut mikrobiologii im. D. K. Zabolotnogo Akademii nauk USSR (Institute of Microbiology imeni D. K. Zabolotniy,

Card 2/3

SOV/20-121-5-43/50

On the Antimicrobic Activity of Alkyl Esters of Thiosulfuric Acids

Academy of Sciences, Ukrainian SSR)

PRESENTED:

March 20, 1958, by V. N. Shaposhnikov, Member, Academy of

Sciences, USSR

SUBMITTED:

March 20, 1958

Card 3/3

EOLDYREV, B.G.; TROFIMOVA, T.A.

Thiosulfonic acids. Fart 5: Syntheses and antimicrobial properties of some alkyl esters of bensensthiosulfonic acid and its derivatives. Zhur. ob. khim. 30 no.12:3993-3998 D '60. (MIRA 13:12)

1. L'vovskiy politekhnicheskiy institut. (Benzensthiosulfonic acid)

S/020/60/132/02/28/067 B011/B002

AUTHORS:

Boldyrev, B. G., Gar, K. A., Yevteyeva, N. V.

TITLE:

Esters of Thiosulfonic Acids as New Fungicides  $\psi$ 

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 2, pp. 346-348

TEXT: Esters (I) of thiosulfonic acids are effective against microorganisms within a wide range. They also stimulate the development of plants thus increasing harvest. The authors investigated the fungicidal properties of methyl esters of alkanethiosulfonic acids (III), and the trichloromethyl esters (IV) of these acids. The authors do not agree with the American investigators (Ref. 3) as regards the assumption that the fungicidal effects of trichloromethyl esters of different intervals of the radical (Formula IV). This was disproved by the authors (see below). They also tested some aryl esters (V) and (VI) of alkane- and arene-thiosulfonic acids. The fungicidal action of all these esters was tested in the toksikologicheskaya laboratoriya (Toxicological Laboratory) of the Institute imeni Ya. V. Samoylov (see Association) in the following species of fungi: Diplodia zeae, Alternaria radicina, Verticilium dahliae, Fusarium vasinfectum and Fusarium

Card 1/3

Esters of Thiosulfonic Acids as New Fungicides

S/020/60/132/02/28/067 B011/B002

oxysporum. Certain concentrations of these preparations dissolved in acetone, were introduced into agar nutritive media, into which the fungi then were sown. The action of the esters was determined after 5 days. Similar experiments with equal concentrations of Figon, Kaptan, and Tsineb were conducted for comparison. Table 1 shows that trichloromethyl esters of alkanethiosulfonic acids are the most effective among all substances examined (I). During experiments in vitro they had a much better effect than similar esters of arenethiosulfonic acids. This action, however, is not due to the trichloromethyl group; the substitution of chlorine atoms by hydrogen atoms influences the activity of the compounds under consideration. The special effect of the nature of the acid radical R becomes evident during transition into the aryl esters of thiosulfonic acids (V) and (VI). While the aryl esters of methane- and ethanethiosulfonic acids (Table 1, No. 10-13) are still strongly fungicidal and even surpass the trichloromethyl esters of arenethiosulfonic acids (No. 7-9) in their action, aryl esters (VI) are considerably less active than other esters (I). Some of them, however, are not inferior to fungicides as active as Kaptan. The esters discussed here, particularly those of alkanethiosulfonic acids are thus highly active fungicides and are worth further investigation. The action of the fungicides was investigated in the Institut mikrobiologii AN USSR (Institute of

Card 2/3

Esters of Thiosulfonic Acids as New Fungicides

S/020/60/132/02/28/067 B011/B002

Microbiology of the Academy of Sciences, UkrSSR). There are 1 table and 2 Soviet references.

ASSOCIATION: L'vovskiy politekhnicheskiy institut (L'vov Polytechnical Institute).

Nauchnyy institut po udobreniyam i insektofungitsidam im. Ya. V.

Samoylova (Scientific Institute of Fertilizers and Insecto-fungicides imeni Ya. V. Samoylov)

PRESENTED: January 13, 1960, by S. I. Vol'fkovich, Academician

SUBMITTED: January 3, 1960

Card 3/3

BOLDYRSV, B.G.; GORELOVA, S.A.; DVORKO, A.T.

Thiosulfonic acids. Part 6: Syntheses and antimicrobic properties of trichloromethyl and methyl esters of some thisulfonic acids.

Zhur.ob.khim. 31 no.7:2402-2406 Jl '61. (MIRA 14:7)

1. L'vovskiy politekhnicheskiy institut. (Sulfonic acids)

Thiosulfonic acids. Part 7: Aryl esters of benzenethicsulfonic acid and its derivatives. Zhur. ob. khim. 31 no. 11:3729-3734 N '61.

(MIRA 14:11)

1. L'vovskiy politekhnicheskiy institut.
(Benzenesulfonic acid)

BOLDYREV, B.G.; YUSHKEVICH, L.N.

Thiosulfonic acids. Part 8: Alkyl esters of thiosulfonic acids, derivatives of naphthalene and phenanthrene. Zhur.ob.khim. 33 no.3:969-973 Mr '63. (MIRA 16:3)

1. L'vovskiy politekhnicheskiy institut.
(Naphthalenesulfonic acid) (Phenanthrenesulfonic acid)

BOLDYREV, B.G.; KOLMAKOVA, L.Ye.; BILOZOR, T.K.

Thiosulfonic acids. Part 9; Diesters of thiosulfonic acids.
Zhur.ob.khim. 33 no.6:1980-1983 Je '63. (MIRA 16:7)

1. L'vovskiy politekhnicheskiy institut.

(Sulfonic acids)

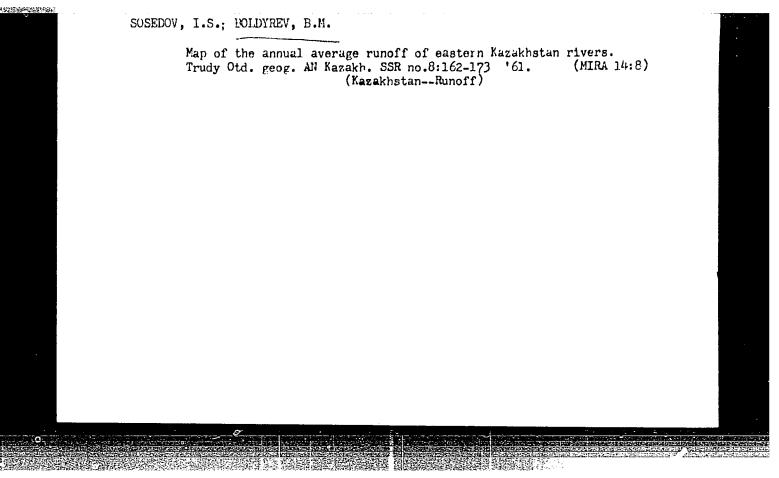
BOLDYREV, B.G.; KOVBUZ, M.A.; TROFIMOVA, T.A.

Thiosulfonic acids. Part 10: Reduction of thiosulfonic acid esters on a mercury dropping electrode. Zhur. ob. khim. 35 no.1:22-27 Ja '65. (MJRA 18:2)

1. L'vovskiy politekhnicheskiy institut.

Reactions of thiosulfonic acid esters with amines. Thur. . h. khim. 35 no.1:198-199 Ja '65. (MINA 18:2)

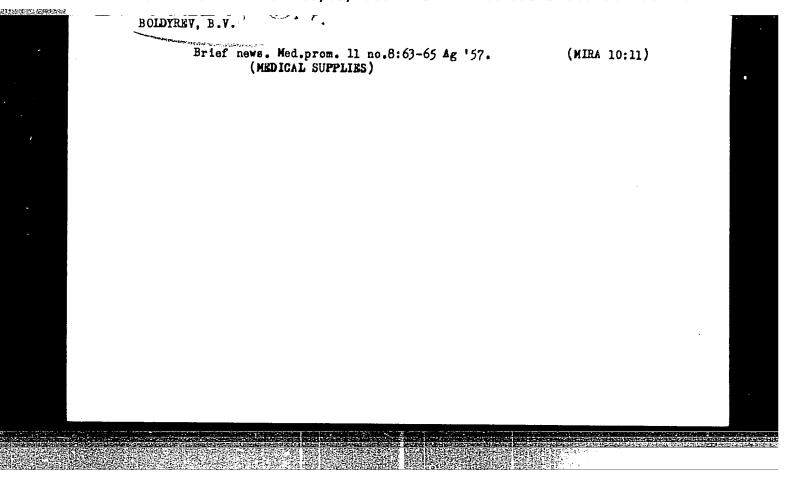
1. L'vovskiy politekhnicheskiy institut.

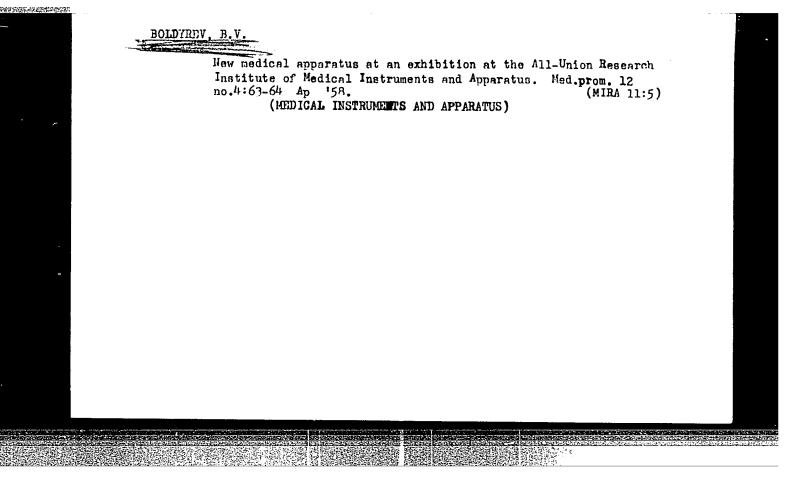


| BOLDYREV, B., glavnyy metodist pavil'ona; DVORDICHERKO, I., red.

["Medical equipment industry" pavilion] Pavil'on "Meditsinskais promyshlennost""; putevoditel". Moskve, Medgir, 1957. 31 p. (MIRA 11:3)

1. Moscow. Veesoyuzuaya promyshlennaya vystevka, 1956(MOSCOW--MEDICAL SUPPLIES--EXHIBITIONS)



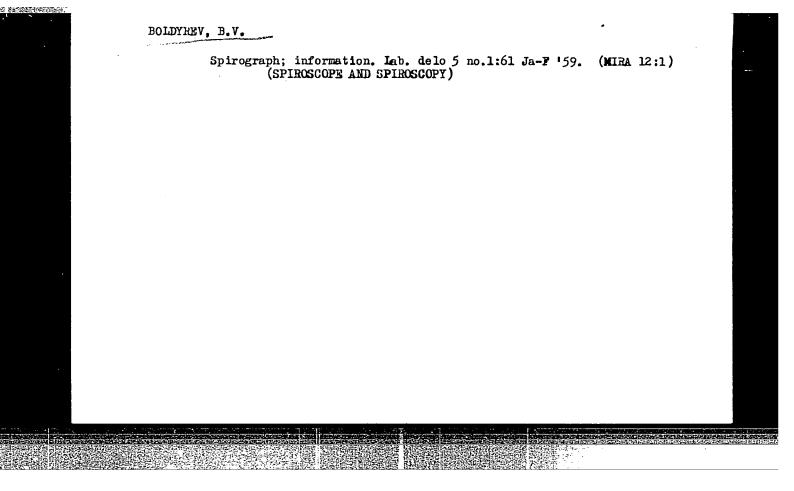


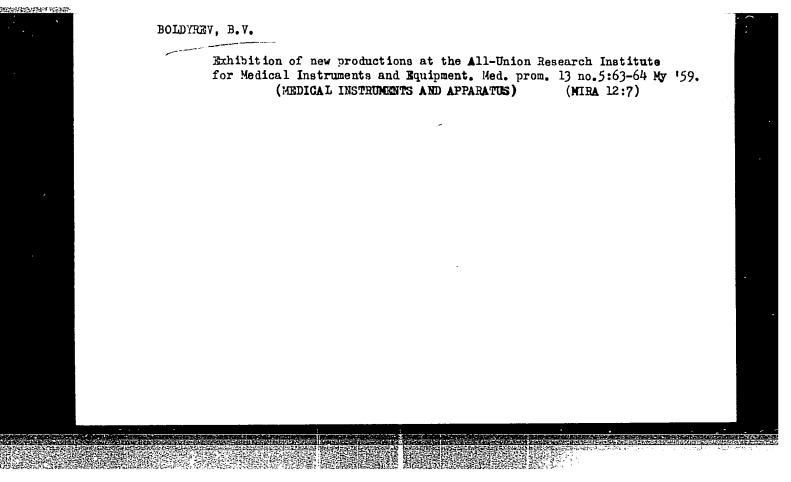
FEDURKIN, V.V.; NESTERENKO, A.T.; KOVSHAROVA, L.A.; RAZUMOVSKAYA, Ye.I.;
OSIPOVA, Ye.V.; VASIL'YEVA, G.S.; PEKARSKIY, M.D., otv.red.;
ZVOROHO, B.P., zamestitel' otv.red.; BOLDYREV, B.V., red.; VOLODIN,
Ye.A., red.; DANIL'CHENKO, Ye.P., red.; ORSKIY, I.N., red.; MISHIN,
L.N., red.; FREYDIN, G.S., red.; TSEPELEV, Yu.A., red.

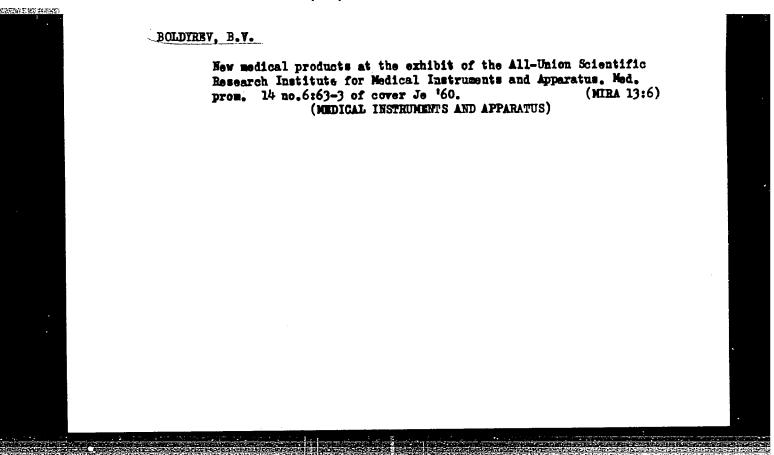
[Technological instruction material; aluminum and aluminum alloys for medical articles] Rukovodiashchie tekhnicheskie materialy; aliuminii i aliuminievye splavy dlia meditsinskikh izdelii. Moskva, M-vo zdravookhraneniia, 1959. 70 p. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo instrumentariya i oborudovaniya.

(MEDICAL INSTRUMENTS AND APPARATUS) (ALUMINUM)







BOLDYREV, B.V.

The national enterprise, "Prema." Med. prom. 14 no.7:59-61 Je '60.

(MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovateliskiy institut meditsinskikh
instrumentov i oborudovaniya.

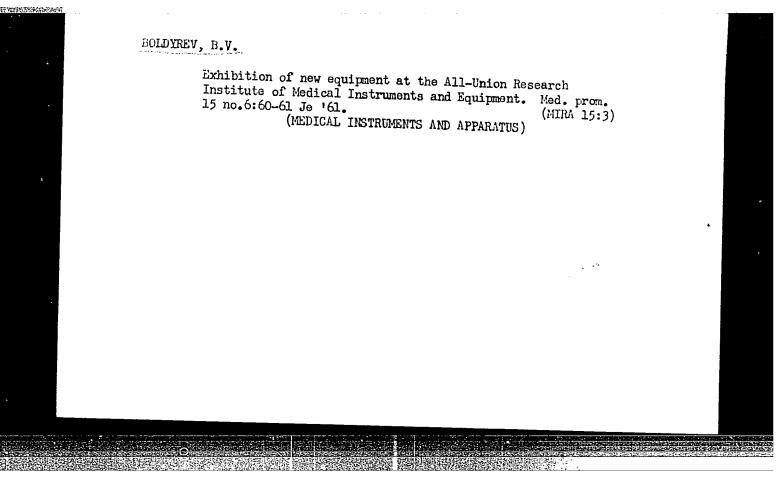
(CZECHOSLOVAKIA--MEDICAL INSTRUMENTS AND APPARATUS)

BOLDYREV, B. V.

Exhibit of new developments of the All Union Scientific Research Institute of Medical Instruments and Equipment. Nov. med. tekh. no.2:88-91 [6]. (MIRA 14:12)

(MEDICAL INSTRUMENTS AND APPARATUS)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206110014-6"



SMIRNOV, I.P., kand. tekhn.nauk, otv. red.; PEKARSKIY, M.D., kand. tekhn. nauk, zam. otv. red.; BOLLYREV, B.V., red.; VOLODIN, Ye.A., red.; GAYSINSKIY, B.Ye., red.; DANIL'CHENKO, Ye.P., red.; KABATOV, Yu.F., red.; KALANTAROV, K.D., red.; MISHIN, L.N., red.; ORSKIY, I.N., red.; FEDURKIN, V.V., red.; TSEPELEV, Yu.A., red.

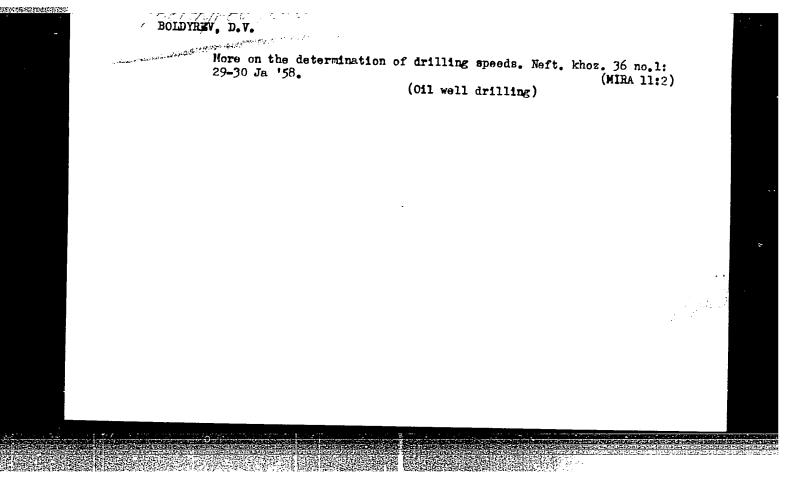
**以到现在的现在分** 

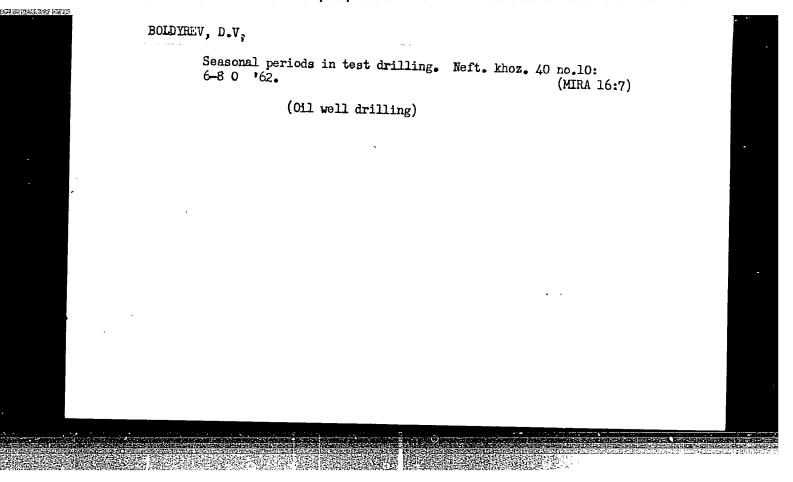
[Materials of the scientific session devoted to the 25th anniversary of the All-Union Scientific Research Institute for Medical Instruments and Equipment] Materialy nauchnoi sessii, posviashchennoi 25-letiiu VNIIMIO. Moskva, 1962. 65 p. (MIRA 17:2)

l. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo instrumentariya i oborudovaniya. 2. Zame-stitel' direktora Vsesoyuznogo nauchno-issledovatel'skogo instituta meditsinskogo instrumentariya i oborudovaniya (for Pekarskiy). 2. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta meditsinskogo instrumentariya i oborudovaniya (for Smirnov).

BOLDTREY, D. [Boldyrau, D.]

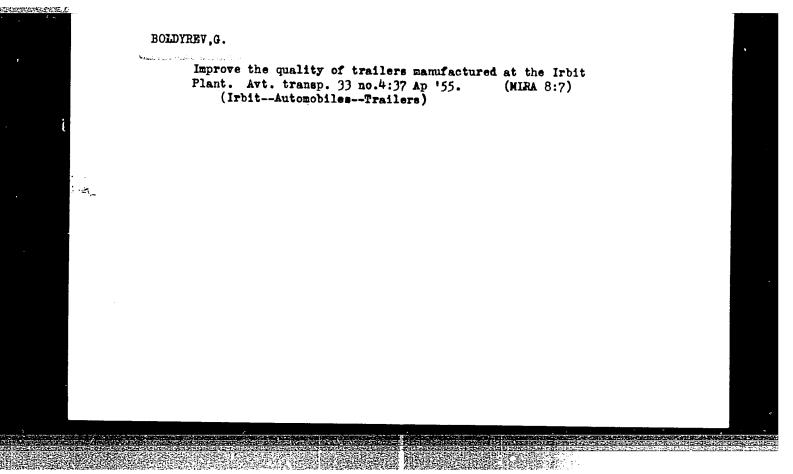
You grow young again if you work with children. Hab. i sial
36 no. 7:20 Jl '60. (MIRA 13:10)
(Mogilev-Physical education for children)





Achievements of the chauffeur and innovator Sitnikov. Avt. transp. 32 no.9:23 S '54. (MLRA 7:11)

1. Glavnyy inzhener Zimovnikovskoy avtoroty "Soyuzzagottrans." (Sitnikov, IA.M.)



BOLDYREV	0.	No.			·
	Experience of 35 no.5:13 My	operations of the 2 157.	imovniki automotive	unit. Avt. transp. (MIRA 10:6)	
	1. Glavnyy inzhener Zimovnikovskoy avtomobil'noy roty Rostovskog oblavtotresta.				
		(ZimovnikiTransportation, Automotive)			
					٠ د
		•			West district
					2657.63 67 Feb.

ALEKSEYEV, A.Ye.; BAYKO, V.F., kand.tekhn.nauk; BOLDYREV, G.L., insh.

NORNEVSKIY, B.I., kand.tekhn.nauk, dots.; MUSIB, Ye.I., insh.

Comparing the static and dynamic characteristics of two and threestage longitudinal field rotary amplifiers. Elektrichestvo no.12:
24-26 D '57. (MIRA 10:12)

1. Leningradskiy elektrotekhnicheskiy institut im. Ul'yanova
(Lenina). 2. Chlen-korrespondent AN SSSR (for Alekseyev).

(Electric generators)

ALEKSEYEV, A.Ye., prof.; BAYKO, V.F., kand.tekhn.nauk; BOLDYREV, G.L., inzh.;

NORNEVSKIY, B.I., kand.tekhn.nauk, dots.; ROSIH, Ye.I., inzh.;

CHUPYATOV, I.N., kand.tekhn.nauk, dots.

Internal feedbacks in multistage amplifiers with various numbers of terminal pairs. Sbor.LIIZHT no.159:232-235 '58.

(MIRA 12:2)

1. Chlen-korrespondent AN SSSR (for Alekseyev).

(Rotating amplifiers)

5/196/62/000/004/022/023 E194/E155

AUTHOR:

Boldyrev, G.L.

TITLE:

Some methods of improving amplidyne characteristics when used in electrical transmission circuits of

diesel locomotives

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.4, 1962, 7, abstract 4 L27. (Sb. tr. Leningr. in-t inzh. zh.-d. transp., no.175, 1961, 42-52).

TEXT: Automatic control systems for diesel-electric locomotives require further improvement, particularly in the power circuit where an important part is played by amplidynes which are used to excite the main generator of the locomotive. In 1957, the Khar'kovskiy zavod teplovoznogo elektricheskogo oborudovaniya (Khar'kov Diesel Electric Locomotive Equipment Works) together with LIIZhT, installed two prototype three-stage amplidynes on a diesel-electric locomotive type T93-028 (TE3-028); they gave generally satisfactory test results though they had certain defects. Since 1958 LIIZhT has been working on Card 1/4

Some methods of improving amplidyne... S/196/62/000/004/022/023 E194/E155

improvement of the amplidynes and investigated the following problems: selection of best number of amplification cascades in the amplidyne; frame construction; location of field windings; and selection of winding parameters. In order to select the optimum number of amplification cascades, tests were made on a particular 45 kW machine connected both as a two- and as a threestage amplifier. It was found that the power amplification factor of a three-stage amplifier is four times greater than that of a two-stage. The maximum rate of voltage increase on the terminals of a three-stage amplifier is five times, and the average rate is three times greater than on a two-stage. Moreover, the circuit of a three-stage amplifier is considerably simpler. The tests showed that the use of a solid frame in a three-stage amplifier almost halved its speed as compared with a laminated frame so that the solid frame is disadvantageous even though it is somewhat smaller. Two variants of amplidyne field winding arrangement were examined and it was found that the second variant, in which the amplifier and self-excitation windings are mounted only on two poles, is better than the first Card 2/4

Some methods of improving amplidyne.  $\frac{S}{196}/62/000/004/022/023$ 

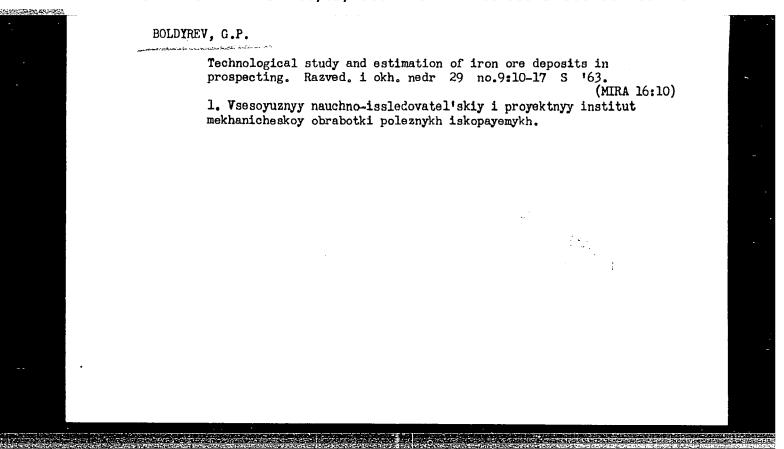
variant in which they are located on all four main poles, because this gives a smaller machine and the inter-turn connections are much simpler. However, when the amplifying windings are located only on two poles, the magnetic flux under the interpoles is distorted (the output voltage on the amplidyne terminals is reduced by 8-10% compared with the first variant) and this must be allowed for in designing the windings. In determining the optimum field winding parameters, the main requirements are high amplification factor and maximum speed for a given control power. Investigations to this end were based on the position of the static and transient conditions of a three-stage amplidyne with constant input signal applied to the control winding. Moreover, tests were made with variable control signals and constant amplifier output voltage. The dynamic properties of the amplifier cascades were assessed from oscillograms of voltage increase, both separately from the second cascade and using the complete amplidyne circuit. As a result it was found that the speed of the second cascade is much reduced on introducing premagnetising windings, and this naturally reduces the cutput Card 3/4

Some methods of improving amplidyne...5/196/62/000/004/022/023

speed of the amplifier. Consequently, it is inadvisable to use premagnetisation in the second cascade of a three-stage amplidyne. A series of oscillograms was worked out to determine the relationship between the maximum rate of voltage increase on the amplifier output and the variable parameters of the amplifier winding, and from these it was possible to determine the best parameters (number of turns) of the amplifier winding of this amplidyne. All these results were used in designing a new amplidyne which will be used to excite the main generator of a diesel electric locomotive. The circuit, dimensions, load characteristics and voltage oscillograms are given for the amplidyne with two variants of winding arrangement. Relationships are expressed for the maximum rate of voltage increase of the second cascade and the number of turns of the premagnetising winding and also for the maximum rate of voltage rise on the amplidyne output and the number of turns in the amplifier winding.

? figures, 1 literature reference.

Card 4/4 [Abstractor's note: Complete translation.]



BOLDYREV, G. T

POSPELOV, G.L., starshiy nauchnyy sotrudnik; LAPIN, S.S.; BELOUS, N.Kh.;

KLYAROVSKIY, V.M.; KINE, O.G.; VAKHRUSHEV, V.A.; SHAPIRO, I.S.,

starshiy nauchnyy sotrudnik; KALUGIN, A.S.; MUKHIN, A.S.; GARNETS,

N.A.; SPEYT, Yu.A.; SELIVESTROVA, M.I.; RUTKEVICH, V.G.; BYKOV, G.P.;

NIKONOV, N.I.; SAKOVICH, K.G.; MEDVEDKOV. V.I.; ALADYSHKIN, A.S.;

PAN, F.Ya.; RUSANOV, M.G.; YAZBUTIS, E.A.; ROZHDESTVENSKIY, Yu.V.;

SAVITSKIY, G.Ye.; PRODANCHUK, A.D.; LYSENKO, P.A.; LEBEDEV, T.I.;

KAMENSKAYA, T.Ya.; MASLENNIKOV, A.I.; PIPAR, R.; DODIN, A.L.;

MITROPOL'SKIY, A.S.; LUKIN, V.A.; ZIMIN, S.S.; KOREL', V.G.;

DEHBIKOV, I.V.; BARDIN, I.P., akademik, nauchnyy red.; GORBACHEV,

T.F., nauchnyy red.; YEROFEYEV, N.A., nauchnyy red.; NEKRASOV, N.N.,

nauchnyy red.; SKOBNIKOV, M.L., nauchnyy red.; SMIRNOV-VERIN, S.S.,

nauchnyy red. [deceased]; STHUMILIN, S.G., akademik, nauchnyy red.;

KHLEBNIKOV, V.B., nauchnyy red.; CHINAKAL, N.A., nauchnyy red.;

SLEDZYUK, P.Ye., red.toms; SOKOLOV, G.A., red.toms; BOLDYRKY, G.P.,

red.; VOGMAN, D.A., red.; KASATKIN, P.F., red.; KUDASHEVA, I.G.,

red.izd-va; KUZ'MIN, I.F., tekhn.red.

[Iron-ore deposits of the Altai-Sayan region] Zhelezorudnye mestorozhdeniia Altae-Saianskoi gornoi oblasti. Vol.1. Book 1. [Geology] (Continued on next card)

POSPELOV, G.L.---(Continued) Card 2.

Geologiia. Otvetstvennyi red. I.P. Bardin. Moskva. 1958. 330 p.

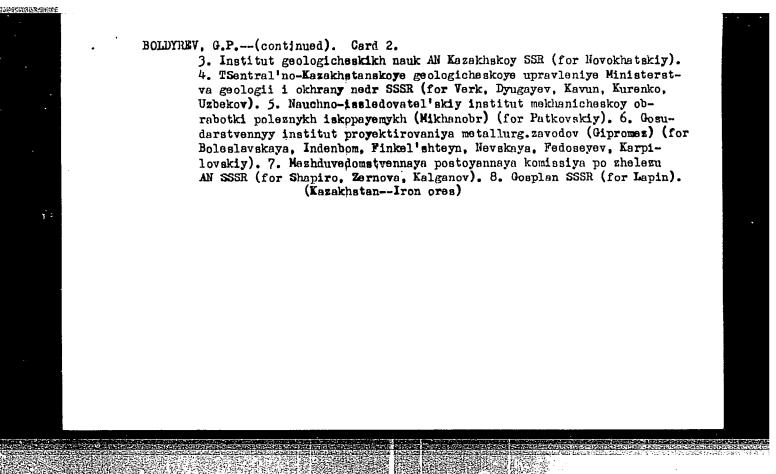
(MIRA 12:2)

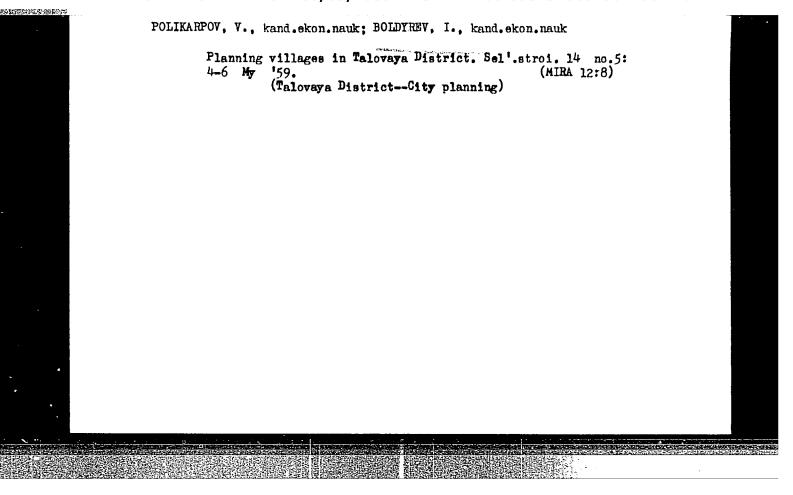
1. Akademiya nauk SSSR. Mezhduvedomstvennaya postoyannaya komissiya po zhelezu. 2. Postoyannaya mezhduvedomstvennaya komissiya po zhelezu Akademii nauk SSSR (for Pospelov, Shapiro, Sokolov). 3. Zapadno-Sibirskiy filial Akademii nauk SSSR (for Vakhrushev, Pospelov.) 4. Zapadno-Sibirskoye geologicheskoye upravleniye (for Sakovich). 5. Krasnoyarskoye geologicheskoye upravleniye (for Pan). 6. Zapadno-Sibirskiy geologo-razvedochnyy trest Chermetrazvedka (for Prodanchuk). 7. Sibirskiy geofizicheskiy trest (for Pipar). 8. Vsesoyuznyy geologicheskiy nauchno-issledovatel'skiy institut (for Dodin). 9. Gornaya ekspeditsiya (for Mitropol'skiy). 10. Gornoye upravleniye Kuznetskogo metallurg.kombinata (for Lukin). 11. Tomskiy politekhnicheskiy institut (for Zimin). 12. Sibirskiy metallurg.institut (for Korel'). 13. Trest Sibneftegeofizika (for Derbikov). (Altai Mountains-Iron ores) (Sayan Mountains-Iron ores)

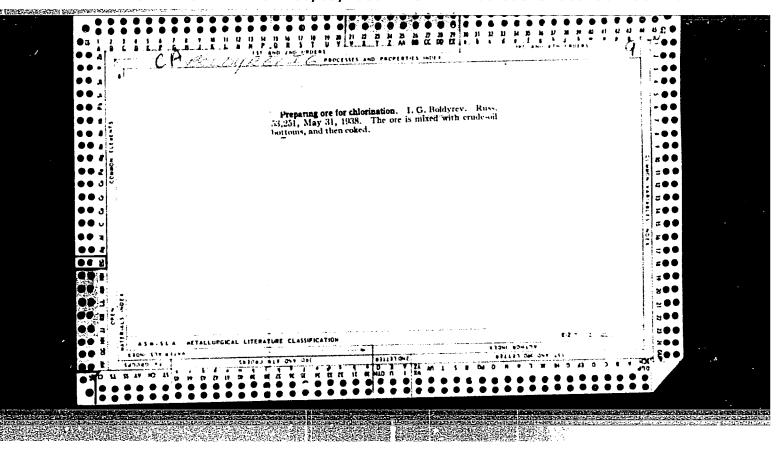
BOLDYREV, G.P.; VOGMAN, D.A.; NOVOKHATSKIY, I.P.; VERK, D.L.; DYUGAYEV, I.V.; KAVUN, V.M.; KURENKO, A.A.; UZBEKOV, M.R.; ARSEN'YEV, S.Ya.; YEGORKIN, A.N.; KORSAKOV, P.F.; KUZ'MIN, V.N.; STREETS, B.A.; PATKOVSKIY, A.B.; BOLESLAVSKAYA, B.M.; INDENBOM, D.B.; FINKEL'SHTEIN, A.S.; SHAPIRO, I.S.; LAPIN, L.Yu. Prinimali uchastiye: NEVSKAYA, G.I.; FEDOSEYEV, V.A.; KASPILOVSKIY, Ya.B., ZERNOVA, K.V., BARDIN, I.P., akademik, otv.red.; SATPAYEV, K.I., akademik, nauchnyy red.; STRUMILIN, akademik, nauchnyy red.; ANTIPOV, M.I., nauchnyy red.; BELYANCHIKOV, K.P., nauchnyy red.; YEROFEYEV, B.N., nauchnyy red.; KALGANOV, M.I., nauchnyy red.; SAMARIN, A.M., nauchnyy red.; SIRDZYUK, P.Ye., nauchnyy red.; KHLEBNIKOV, V.B., nauchnyy red.; STREYS, N.A., nauchnyy red.; BANKVITSER, A.L., red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Iron ore deposits in central Kazakhstan and ways for their utilization] Zhelezorudnye mestorozhdeniia TSentral'nogo Kazakhstana i puti ikh ispol'zovaniia. Otvetstvennyi red. I.P.Bardin. Moskva, 1960. 556 p. (MIRA 13:4)

1. Akademiya nauk SSSR. Mezhduvedomstvennaya postoyannaya komissiya po zhelezu. 2. Gosudarstvennyy institut po proyektirovaniyu gornykh predpriyatiy zhelezorudnoy i margantsevoy promyshlennosti i promyshlennosti nemetallicheskikh iskopayemykh (Giproruda) (for Boldyrev, Vogman, Arsen'yev, Yegorkin, Korsakov, Kuz'min, Streleta, (Continued on next card)







SOV/68-58-11-9/25

Boldyrev I.K., Gutman L.M. and Khurin S.M. AUTHORS:

TITLE:

Experience in Replacing Gas-Air Valves and Increasing the Travel of the Reversing Equipment (Opyt zameny gazovozdushnykh klapanov i udlineniya khoda kantovki)

PERIODICAL: Koks i Khimiya, 1958, Nr 11, pp 24-26 (USSR)

ABSTRACT: The method adopted for exchanging gas and air valves of an old design for new ones of a standard design and

increasing the pitch of reversing equipment is described and illustrated.

There are 4 figures.

ASSOCIATION: Stalinskiy Koksokhimicheskiy zavod (Stalino Coke By-Product Plant)

Card 1/1

Gas pipeline at the bottom of the sea. Stroi.truboprov. 9 no.2:
21 F '64. (MIRA 17:3)

LYSETHOV, N.V.; BOLDYREV, I.V.; ERYUCHROVA, V.G.

Aliphatic - aromatic enters of curbonic acid. Ukr. kbim. zhur.
30 no.12:1330-1332 '64 (NIRA 18:2)

1. Institut organicheskoy khimii AN UkrSSR.

BOLDYREV, Konstantin Matveevich. BOLDYREV, Konstantin Matveevich. Navigation fishing vessels; approved as a textbook for higher technical schools of the fishing industry. Moskva, Pishchepromizdat,

1946. 255 p. (50-26897) VK555. B72

STEFANOV, V.Ye.; BOLDYREV, L.I.

Improving the fittings of large section and rail rolling mills.

Metallurg no.8:26-28 Ag '56. (MLRA 9:10)

1.Kalibrovshchik krupnosortnogo tsekha zavoda "Azovstal'" (for Stefanov). 2.Starshiy master stana zavoda "Azovstal'" (for Boldyrev).

(Rolling mills)

TTHORS:

Boldyrev, L.I. (Senior foreman of the large section shop) and Gudovshikov, K.S. (Research Engineer, Central Works Laboratory).

Organization of roll changing on a 650-mill. (Organizatsiya

TITLE:

perevalok na stane 650.)

PERIODICAL:

"Metallurg" (Metallurgist), 1957, No.3, pp.31-33. (U.S.S.R.).

BSTRACT:

The finishing line of the 650-mill at the Azovstal' Works consists of two three-high stands and one two-high stand arranged in one line, the maximal diameter of the working rolls being 680 mm. The mill rolls two types of rail, I-section girders, channels, squares, large angles and other sections. The senior mill foreman, P.D. Krishtofovich has organized his roll-changing team so effectively that the roll-changing time has been reduced by 7 minutes. Details of the organization are given in this article. Krishtofovich pays great attention to the preliminary preparation of stands and rolls, the correct positioning of roll-men and mill operators, the rational utilization of cranes and maintenance of the sequence of operations. It is considered that the adoption by other teams of these organizational methods would enable mill productivity to be increased by 2 - 3%.

Card L/L

There are two diagrams and one photograph.

SSOCIATION: "Azovstal'" Works (Zavod "Azovstal'").

VAILABLE:

CIA-RDP86-00513R000206110014-6" APPROVED FOR RELEASE: 06/09/2000

PROTASOV, N.F.; KHLEBNIKOV, V.P.; SIKORSKIY, A.I.; GONCHAR, V.V.; BOLDYREV, L.I.; STEFANOV, V.Te.

Developing shapes for mine supports. Metallurg 3 no.12:27-29 D '58. (MIRA 11:12)

1.Zavod "Azovstal'."

(Rolling (Metalwork))

SOV/133-58-8-29/30 AUTHORS:

Turchenkova, Ye.K., Sikorskiy, A.I., Yegnus, R.M., Boldyrev, L.I., Raznotina, Ye.T., Engineers, Bol'shakov, L.A., Candidate of Technical Sciences, and Gavrikov, V.Z.,

Engineer

TITLE: Performance of the Coupling Sleeves Made From Nodular Iron at the Mill 650 (Rabota soyedinitel'nykh muft iz chuguna

s sharovidnym grafitom na stane 650)

PERIODICAL: Stal', 1958, Nr 8, pp 763 - 766 (USSR)

ABSTRACT: As the durability of the coupling sleeves of the mill 650 made from grey iron decreased with increased degree of reduction per pass introduced in the rolling practice, the use of sleeves made from nodular iron was investigated. Four series of experimental smelting of magnesium-inoculated

iron were carried out. Sleeves from the first series were tested as cast and of the remaining series after various heat treatments. The chemical composition, mechanical, and conditions of thermal treatment are given in Table 1. The microstructure of heat-treated metal - Figures 1-3, the mould for casting of sleeves - Figure 4, the results of service life of sleeves made from nodular

iron, grey iron and steel - Table 2. On the basis of the

results obtained, it is concluded that the service life Card1/2

Performance of the Coupling Sleeves Made from Nodular Iron at the Mill 650

of sleeves from nodular iron is 4-6 times ligher than that of sleeves made from grey iron. The optimum heat treatment is normalisation with subsequent annealing at 580 °C. Sleeves should be cast with the consumption of metal for shrinkage head not less than 20% of the weight of casting. When coupling sleeves are not heat-treated, then the sum of C + Si in nodular iron should be maintained in a range of 5.5-6.0%. There are 5 figures and 2 tables.

ASSOCIATIONS:

Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute) and Zavod "Azovstal'"

("Azovstal'" Works)

Card 2/2

1. Couplings--Materials 2. Couplings--Test results

3. Iron--Applications 4. Steel--Applications

SOV/130-58-10-9/18

Protasov, N.F., Khlebnikov, V.P., Sikorskiy, A.I., AUTHORS:

Gonchar, V.V., Stefanov, V.Ye and Boldyrev, L.I.

Improving Accessories on the Reducing Mill of a Heavy-TITLE:

Section Mill (Usovershenstvovaniye armatury obzhimnogo

stana krupnosortnogo tsekha).

PERIODICAL: Metallurg, 1958, Nr.10, pp.25-29 (USSR)

It was found that when rolling low-number girders, ABSTRACT:

especially Nr.20 in the reducing stand of a railstructural mill the metal often displaced the guides, The authors give details of guide leading to stoppages. construction and attachment (Fig.1) and also of special devices provided before each pass (Fig.2) to support the beam from below. This is advantageous for rolling large girders (Nr.30-55) but unreliable for smaller (Nr.18-16) sizes. For rolling these latter when the closed passes are in the bottom roll two variants of guide arrangements have been proposed. In the first special movable vertical supports are provided for the

guides, fixed on trapezoidal projections. Card 1/2

SOV/130-58-10-9/18 Improving Accessories on the Reducing Mill of a Heavy-Section Mill.

second a trapezoidal-section bar is fixed to the housing (similar to the guide bars on the finishing line) (Fig. 4) which supports one end of the specially shaped guide, the other being held in the pass with the aid of a load. The authors favour the second variant and mention its applicabilities. Its adoption has enabled the load on the finishing line to be reduced by 20-25%. The new roll-pass designs used since March 1957 have led to better roll life, higher productivity and other improvements. The new accessories are especially useful for thin-walled sections, and during the year for which they have been in use no cases of guide displacement have occurred. There are 4 figures.

ASSOCIATION: Zavod "Azovstal!" ("Azovstal!" works).

Card 2/2

S0Y/130-58-12-12/21

Protasov, N.F., Khlebnikov, V.P., Sikorskiy, A.I., AUTHORS:

Gonchar, V.V., Boldyrev, L.I. and Stefanov, V.Ye.

Experience of the Adoption of Profiles for Mine Supports TITLE:

(Opyt osvoyeniya profiley dlya shakhtnogo krepleniya)

Metallurg, 1958, Nr 12, pp 27 - 29 (USSR) PERIODICAL:

ABSTRACT: The "Azovstal" works is one of the main suppliers of the

more important sections for mine construction and operation. The authors illustrate (Fig 1) sections for props types 18A-18B and 28A-28B and show how the first two fit each other (Fig 2). These sections are rolled from 230 x 285 and 245 x 280 mm blooms in four stands arranged in two lines and the authors outline the pass design and deformations at the various stages. They deal with the production of inclined props to GOST-5157-53. The authors

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Experience of the Adoption of Profiles for Mine Supports

state that the pass designs for pit props developed at the works have improved quality as well as increasing production.
There are 4 figures

ASSOCIATION: "Azovstal" works

Card 2/2

AUTHORS: Boldyrev, L.V., Krasnosel'skiy, M.V., Rudnev, M.F. 131-3-2/16

TITLE: The Increase of the Efficiency of Shaft Furnaces With Gas Heating

(Povysheniye proizvoditel'nosti shakhtnykh pechey na gazovom

otoplenii)

L . I

PERIODICAL: Ogneupory, 1958, Vol 23, Nr 3, pp 101-105 (USSR)

ABSTRACT: At the Semiluki Plant for Refractories it was possible, by im-

proving the construction of furnaces and of the burning process, to increase the daily output from 25-40 t to 65-70 t.

I.A. Savkevich assisted in this work. The authors further describe the construction of the furnaces as well as the working process in detail. The revolving grate is shown in the illustration and its useful cross section is given by table 1. At present the burning

process takes place as follows: 1.) The preparation of clay for burning. The clay is crushed by means of a machine and is formed in-

to briquettes of 1 kg weight and shaped like flattened balls (\$\textit{\nu}\$ 120 and 90 mm). The quality of the clay and of the briquettes is

continually controlled. 2.) Charging and discharging of the furnace.

Every furnace is discharged in the course of each working shift according to the temperature of burning, of the material with which the furnace is filled, and the moisture content of the briquettes.

Card 1/2

The Increase of the Efficiency of Shaft Furnaces With Gas Heating

131-3-2/16

In accordance with the work to be performed the control apparatus KIT-3 are adjusted, by means of which the charging drums are controlled (table 2). They are blocked by means of an electron millivolt meter which continuously controls the exhaust gases and which switches the control apparatus on or out according to necessity. Discharging of the furnace takes place in dependence of charging the furnace in order that a constant level of material be maintained. 3.) Gas- and air supply is determined according to consumption per hour, regulation being carried out according to burners. 4.) Control of furnace work. In the shaft furnaces of the Semiluksk works the following measurements are continuously carried out: Gas consumption, temperature of exhaust gases, temperature of the material in the furnace, furnace pressure and the level of material in the furnace. Besides, the temperature of the discharging fireclay bricks and their quality is continuously controlled. Table 3 contains the working data of shaft furnaces for the years 1950-1957. There are 3 tables, 1 figure, and 4 Soviet references

ASSOCIATION: Semiluki Plant for Refractories (Semilukskiy ogneupornyy zavod)

2. Furnaces-USSR 3. Refractory 1. Gas burning furnaces-Operation materials-Processing 4. Refractory materials-Production

Card 2/2

ACCESSION NR: AP5013269	UR/0114/65/000/005/0018/0021 8 621.436.001.6
AUTHOR: Roningon, L. S. (Candida	ate of technical sciences); Boldyrev, I. V. B
(Engineer)	
TITLE: Improving the indicator par	rameters of low-excess-aix jet-fuel-mixing
diesels by swirling the working fluid	
SOURCE: Energomashinostroyeniye	발표 이번 젊으로 하는 일이다. 그 그는 말이 그리고 그렇다.
TOPIC TROST disser engine, meses	
ABSTRACT: Improving the operation	on of high-speed diesel engines having an air-
fuel ratio of 1.1-1.2 was felt to be	important as many such engines with a
Hesselman's combustion chamber w	vere in operation. The "awirling gas lischanenko (Trans. of the Odessa Marine-
Compressor developed by 4. 4. Financial taken (	off a part of the working mixture, during the
compression stroke in the diesel on	gine, and later returns it to the cylinder is

#### L 63031-65

#### ACCESSION NR: AP5013269

described. A transparent model geometrically similar to the combustion chamber and working with carbon-dioxide (jet) and nitrogen (filler) was used for investigating the swirling process. These experiments permitted selecting the design and control parameters of the swirler. The effect of gas swirling was studied on a few (three?) high-speed swirler-equipped engines under various cylinder-heat-release conditions. Also, the exhaust-gas turbidity was measured. It was found that, under low air-fuel-ratio conditions, the gas swirling results in a considerable increase (3-8%) in the engine indicated power and in a lesser turbidity of the exhaust gas. In all cases, the effect of swirling essentially increased with the load (i.e., with the decreasing air-fuel ratio). [Abstracter's note: The Russian original is not clear as to whether the Pischanenko or some other type of swirler was used in the diesel-engine tests.] Orig. art. has: 7 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: PR

NO REF SOV: 003

OTHER! 000

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