"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

the ИКС-51 (IKS-51) apparatus. The spectra show a maximum at 525 mμ. For $(Zn,Be)_2SiO_4/Mn$, the fluorescence maximum lies at 531 mμ. The formation of a solid solution was established by X-ray studies. Fig.2 shows the line diagrams of monocrystals of $(Zn,Be)_2SiO_4/Mn$. Beryllium is isomorphously incorporated in the crystal lattice of zinc silicate, and forms a solid solution. There are 2 figures and 2 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova, Kafedra neorganicheskoy khimii (Moscow State University imeni M. V. Lomonosov, Department of Inorganic Chemistry). Institut mineralogii, geokhimii i kristallokhimii redkikh elementov Akademii nauk SSSR (Institute of Mineralogy, Geochemistry, and Crystallochemistry of Rare Elements of the Academy of Sciences USSR)

SUBMITTED: June 10, 1960

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOHLEV, B. P. Sohlev, B. P.

Dissertation defended for the degree of Candidate of Geologo-Mineralogical Sciences at the Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy in 1962:

"Role of Complex Fluoride Compounds in the Transfer and Concentration of Beryllium in High-Temperature Processes."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

BEUS, A.A.; SOBOLEV, B.P.; DIKOW, Yu.P.

Geochemical history of beryllium in the processes of high-temperature postmagmatic mineral formations. Geokhimiia no.3: 297-304 Mr '63. (MIRA 16:9)

1. Institute of Mineralogy, Geochemistry and Crystal Chemistry of Rare Elements, Institute of Cristallography, Academy of Sciences, U.S.S.R., Moscow.
(Beryllium) (Ore deposits) (Geochemistry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, B.P.; PASHUTIN, V.P.

Fluoride transfer of beryllium in supercritical (vapor) solutions. Trudy IMGRE no.18:44-48 '63.

Fluoride transfer of tantalum in supercritical (vapor) solutions. Ibid.:49-52 (MIRA 16:12)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, B.P.; MINEYEV, D.A.; PASHUTIN, V.P.

Low-temperature hexagonal modification of $NaYF_4$ with gagarinite structure. Dokl. AN SSSR 150 no.4:791-794 Je '63.
(MIRA 16:6)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov. Predstavleno akademikom N.V. Belovym.
(Minerals)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

NOVOSELOVA, A.V.; ORLOVA, Yu.V.; SOBOLEV, B.P.; SIDOROV, L.N.

Mechanism of beryllium silicate (Be_2SiO_4) formation. Dokl. AN SSSR 159 no.6:13[illegible] [illegible] '64 (MIRA 18:1)

1. Moskovskiy gosudarstvennyy universitet. 2. Chlen-korrespondent AN SSSR (for Novoselova).

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, B.P.

Stability of the alkali elements of fluoberyllates in hydrothermal solutions. Geol. rud. mestorozh. 6 no.3:16-23 My-Je '64 (MIRA 18:1)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR, Moskva.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

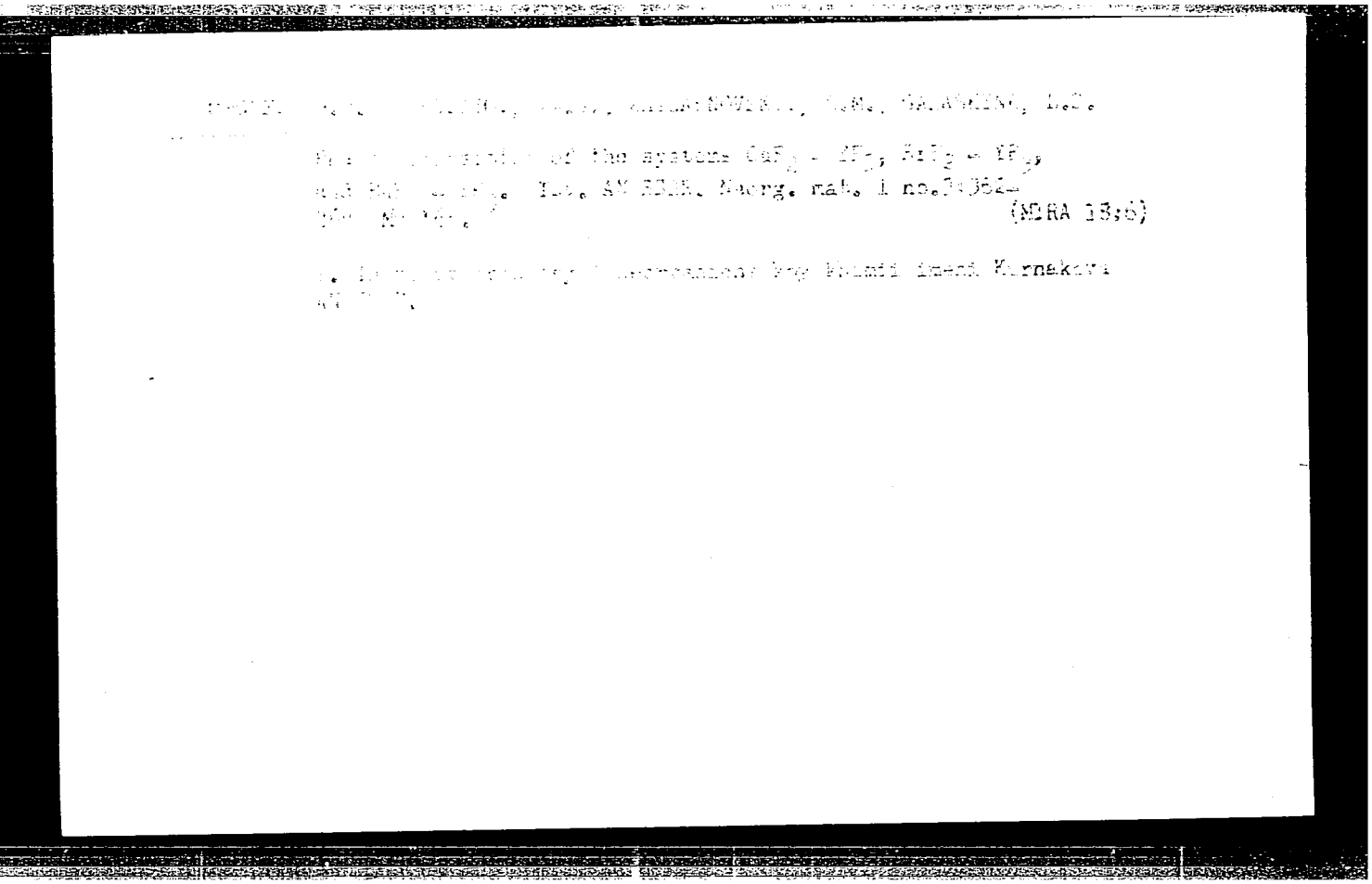
SOBOLEV, B.P.; DIKOV, Yu.P.

Metasomatic formations of beryl on the frontline of the interaction of fluorine-bearing solutions with feldspars according to experimental data. Geol. rud. mestorozh. 6 no.5:72-78 S-O '64. (MIRA 17:12)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR i Institut kristallografii AN SSSR, Moskva.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7



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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

L 36398-66 EWT(1)/EWT(m)/T/EWP(t)/ETI IJP(c) GG/JD

ACC NR: AP6018782 SOURCE CODE: UR/0070/66/011/003/0477/0478

AUTHOR: Novoselova, A. V.; Babin, V. N.; Sobolev, B. P.

ORG: Institute of Crystallography, AN SSSR (Institut kirstallografii AN SSSR)

TITLE: Growing sillimanite crystals in a transport chemical reaction

SOURCE: Kristallografiya, v. 11, no. 3, 1966, 477-478

TOPIC TAGS: crystal growth, fiber crystal, transport process, x ray photography

ABSTRACT: A study was made of the conditions necessary to form sillimanite Al_2SiO_5 crystals in transport chemical reactions with the use of fluorine compounds. The reagents were placed into quartz ampoules (18-20 mm in diameter) which were evacuated to about 10^{-2} mm Hg pressure and heated 5 to 10 hrs in a furnace having a hot zone variation of 1280° to 1150°C and a temperature gradient of 50°C within the zone. Six different charges were made up, all containing Al_2O_3 and SiO_2, but varying in the use of fluorine compounds: Na_3AlF_6, Li_2BeF_4 or AlF_3 were 5% by wt. In some cases, BeO and ZnO were used in the charge. Sillimanite was only obtained in three of the tests and a picture was shown of the results; the crystals were 4 to 5 mm in length. X-ray powder patterns of the sillimanite crystals were compared with those taken from the ASTM literature. The relative merits of various transport agents were discussed and their characteristics in gaseous environments compared. Orig. art. has: 2 figures, 1 table.

SUB CODE: 07/ SUBM DATE: 30May65/ ORIG REF: 004

Card 1/1 UDC: 548.52

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, B. V.

Rare complications in pleural puncture. Probl. tuberk., Moskva No. 3, May-June 50. p. 67.

1. Of the Lung Surgery Division (Head--B. V. Sobolev), Kalinin Municipal Tuberculosis Hospital (Head Physician--K. V. Bogolepov).

CDIL 19, 5, Nov., 1950

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, B. V., Cand Med Sci (diss) -- "Extrapleural pneumothorax and oleothorax under conditions of a regional antituberculosis dispensary". Moscow, 1957. 16 pp (Acad Med Sci), 200 copies (KL, No 13, 1960, 122)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, B.V. (Kalinin)

Case of extensive resection in partial obstruction of the small intestine resulting from cicatrization of tuberculous ulcers. Probl.tub. 35 no.1:97-99 '57. (MLRA 10:6)

1. Oblastnoy protivotuberkuleznyy dispanser.
(TUBERCULOSIS, GASTROINTESTINAL, surg.
extensive resection of small intestine in cicatrization of tuberc. ulcer (Rus))

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, B. YA.

Lowering the thermal stability of phenyldiazoamino compounds. B. Ya. Sobolev, L. M. Valitskaya, and S. P. Pokrovskaya. U.S.S.R. 104,460, Dec. 25, 1956. This is achieved by mixing the phenyldiazoamino compds. with 5–30% by wt. of N_2H_4 hydrochloride. M. Hosch

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, B.Ya., red.

[Instructions 205-56 for checking 36-I microwave dielectric-measuring devices] Instruktsiia 205-56 po poverke izmeritelei dielektrikov 3-santimetrovogo diapazona tipa 36-I. Izd. ofitsial'noe. Moskva, 1957. 7 p. (MIRA 14:5)

1. Russia(1923- U.S.S.R) Komitet standartov, mer i izmeritel'nykh priborov.
(Dielectrics) (Microwave measurements)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, B. Ya.

Increasing the thermal stability of phenyldiazoamino compounds. B. Ya. Sobolev, S. P. Pokrovskaya, and L. M. Valilskaya. U.S.S.R. 105,129, Apr. 25, 1957. The thermal stability of compds. having the general formula PhN:NNHR, where R is a monovalent radical, is raised by addn. to the diazo compd. of 5-50% urotropine. M. Hosch

4

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, D.

Machine for making reed panels. Sel'.strei. 11 no.8:20-21 Ag '56.
(MLRA 9:10)

1.Nachal'nik otdela organizatsii proizvodstva streimaterialov Glavkolkhozstroya Ministerstva gorodskogo i sel'skogo stroitel'stva. Kirgizskoy SSR.
(Machine tools) (Rush work)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

KONDRAT'YEV, Afanasiy Borisovich, kand.tekhn.nauk; YERSHOVA, Galina Nikolayevna, inzh.; MEN'SHIKOV, Ivan Alekseyevich, prof., doktor tekhn.nauk; MOSKOVSKIY, Mikhail Ivanovich, kand.tekhn.nauk; SOBOLEV, David Iosifovich, kand.tekhn.nauk; SMIL'GEVICH, Petr Kazimirovich, inzh.; SHIROKOV, Boris Ivanovich, kand.sel'skokhoz.nauk. Prinimali uchastiye: TREBIN, Boris Nikolayevich, inzh.; OSOBOV, Vadim Izrailevich, inzh. BRIK, P.A., prepodavatel', retsenzent; IVANOV, V.A., prepodavatel', retsenzent; KOGANOV, A., prepodavatel', retsenzent; KONONOV, B.V., prepodavatel', retsenzent; MARKOV, G.Ya., prepodavatel', retsenzent; OSIPOV, G.P., prepodavatel', retsenzent; RYABOV, P.I., prepodavatel', retsenzent; SOLOV'YEV, K.Ya., prepodavatel', retsenzent; SOROKIN, V.Ya., prepodavatel', retsenzent; BANNIKOV, P., red.; VORONKOVA, Ye., tekhn.red.

[Manual for collective farm machinery operators] Spravochnik mekhanizatora sel'skogo khoziaistva. Penza. Penzenskoe knizhnoe izd-vo, 1959. 610 p. (MIRA 14:2)

1. Saratovskiy institut mekhanizatsii sel'skogo khozyaystve imeni M.I.Kalinina (for Brik, Ivanov, Koganov, Kononov, Markov, Osipov, Ryabov, Solov'yev, Sorokin).
(Agricultural machinery) (Farm mechanization)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, D.N., aspirant

Applying the variational method in calculating nonrectangular rigid plates. Nauch.dokl.vys.shkoly; stroi. no.2:37-42 '58. (MIRA 12:1)

(Elastic plates and shells)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, D. N. Cand Tech Sci -- (diss) "Application of the V, Z. Vlasov variation method to the design of ~~slanting~~ and trapezoidal plates." Mos, 1959. 7 pp (Min of Higher and Secondary Specialized Education RSFSR. Mos Order of Labor Red Banner Construction Engineering Inst im V. V. Kuybyshev), 130 copies (KL, 45-59, 147)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, D.N.

Using Professor V.Z.Vlasov's variational method in calculating thin trapezoidal plates. Nauch.dokl.vys.shkoly; stroi. no.1: 19-26 '59. (MIRA 12:10)

1. Rekomendovana kafedroy stroitel'noy mekhaniki Moskovskogo inzhenerno-stroitel'nogo instituta im. V.V.Kuybysheva.
(Elastic plates and shells)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

S/535/60/000/130/006/007
E081/E335

25831

24.4200

AUTHOR: Sobolev, D.N., Candidate of Technical Sciences

TITLE: Transverse Bending of Oblique Plates with Two Clamped and Two Elastically Supported Edges

PERIODICAL: Moscow. Aviatsionnyy institut. Trudy. No. 130, 1960. Prochnost' aviatsionnykh konstruktsiy, pp. 133 - 148

TEXT: The paper is a continuation of previous work of the author (Ref. 3 - Nauchnyye doklady vysshey shkoly, Stroitel'stvo, 1958, No. 2; Ref. 4 - Izvestiya vysshikh uchebnykh zavedeniy, Stroitel'stvo i arkhitektura, 1958, No. 6). The plate is shown in the figure; the sides AB, CD are clamped and the plate is subjected to a uniformly distributed load q. The deflection w of the plate is governed by the equation

$$\nabla^4 w = \frac{q}{D}, \text{ where } D = \frac{Eh^3}{12(1-\nu^2)} \quad (1)$$

Card 1/5

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S/535/60/000/130/006/007
E081/E335

25831

Transverse Bending ...

and is represented by the series:

$$w(x, y) = \sum_{i=1}^{n} \varphi_i(x, y) X_i(x) \quad (2)$$

To satisfy the conditions at the clamped edges, a two-term approximation to Eq. (2) is taken:

$$\varphi_1(x,y) = [(y+kx)^2 - b^2]^2; \quad \varphi_2(x,y) = [(y+kx)^2 - b^2]^2 (y + kx) \quad (4)$$

This leads to an eighth-order differential equation with constant coefficients and the roots of the relevant characteristic equation are tabulated for angles of inclination

Card 2/5

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Transverse Bending ....

γ of the plate of 0, 15, 30, 35, 40, 45 and 60°. The functions X_1 and X_2 (Eq. 2) are expressed in terms of the solution of the differential equation. The case of a plate with $\gamma = 45°$, $b = \ell$ and Poisson's ratio $\nu = 0.3$ is considered in detail for the following conditions along the edges AD, BC: 1) clamped; 2) hinged support; 3) elastic support; 4) free. The deflection at the centre of the plate $[w(0, 0)]$, the moments at the centre $[M_x(0,0); M_y(0,0)]$ and the moments at the point $0,b[(M_x(0,b); M_y(0,b)]$ are calculated and tabulated (Table 3) in terms of 10^{-5} qb^4/D for the deflections and 10^{-5} qb^2 for the moments:

Card 3/5

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

Transverse Bending 25831

S/535/60/000/130/006/007
E081/E335

Method of Fixing Edges AD and Bc	w(0,0)	$M_x(0,0)$	$M_y(0,0)$	$M_x(0,b)$	$M_y(0,b)$
Rigidly clamped	842.614	5413.44	4691.15	-8763.19	-8763.19
Hinged support	900.285	5431.02	4906.344	-9362.96	-9362.96
Elastic support	900.460	5436.54	4908.64	-9364.78	-9364.78
Edges AD and BC free	1079.793	5168.79	5481.08	-11229.85	-11229.85

There are 3 figures, 3 tables and 4 Soviet references.

Card 4/5

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

LEONT'YEV, N.N., kand.tekhn.nauk; SOBOLEV, D.N., kand.tekhn.nauk

Approximate calculation of an arch dam for the effect of longitudinal seismic loading. Gidr.stroi. 32 no.7:30-34 Jl '62. (MIRA 15:7)
(Dams) (Earthquakes and building)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

[illegible], V. . (Moscow)

"The application of the theory of random functions to the solution of some contact problems"

Report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow 29 Jan - 5 Feb 64.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, D.P., kandidat tekhnicheskikh nauk; CHEKAN, O.V., inzhener.

High-frequency radio-relay equipment for television transmission. Vest.sviazi 16 no.5:7-8 My '56. (MLRA 9:8)
(Television broadcasting) (Radio relay systems)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, D.S.

"Concerning the Physicochemical Basis for Selective Flotation of Copper, Lead, Zinc, and Iron Sulfides With the Use of Sodium Sulfide." Sub 2 Apr 51, Moscow Inst of Nonferrous Metals and Gold imeni M. I. Kalinin

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

Sobolev, David Semenovich

PHASE I BOOK EXPLOITATION

220

Fishman, Mikhail Aleksandrovich and Sobolev, David Semenovich

Praktika obogashcheniya rud tsvetnykh i redkikh metallov;

I. Obogashcheniye polimetallicheskikh rud (Ore Concentration Techniques for Non-ferrous and Rare Metals; I. Concentration of Polymetallic Ores)

Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo literatury po chernoy i tsvetnoy metallurgii, Moscow, 1957, 595 p., 4200 copies

Ed.: Troitskiy, A. V., Fishman, M. A.; Ed. of Publishing House: Yezdokova, M. L.; Tech. Ed.: Evenson, I. M.

PURPOSE: This book is intended for engineers and technicians engaged in ore concentration and for students specializing in the concentration of ores.

Card ~~1/13~~

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, David Semenovich; FISHMAN, Mikhail Aleksandrovich; TROITSKIY, A.V., otv.red.; YEZDAKOVA, M.L., red.izd-va; SHKLYAR, S.Ya., tekhn.red.; BOLDYREVA, Z.A., tekhn.red.

[Nonferrous and rare metal ore dressing practices] Praktika obogashcheniia rud tsvetnykh i redkikh metallov. Pod red. A.V. Troitskogo. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu. Vol.2. [Dressing of copper ores] Obogashchenie mednykh rud. 1960. 588 p. (MIRA 14:1)
(Ore dressing) (Copper ores)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

FISHMAN, Mikhail Aleksandrovich; SOBOLEV, David Semenovich; STRIGIN, I.A., retsenzent; TROITSKIY, A.V., red.; MAKRUSHINA, Ye.A., red.izd-va; SHKLYAR, S.Ya., tekhn. red.; MINSKER, A.I., tekhn. red.

[Practices in nonferrous and rare metal ore dressing] Praktika obogashcheniia rud tsvetnykh i redkikh metallov. Pod red. A.V.Troitskogo. Moskva, Gosgortekhizdat. Vol.4.[Rare metal ore dressing] Obogashchenie rud redkikh metallov. 1963. 712 p. (MIRA 16:8)
(Ore dressing) (Metals, Rare and minor)
(Rare-earth metals)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

KOGAN, A.M.; SOBOLEV, D.Ya.

Resistance to wear of mine conveyers and cars made of plastics.
Plast.massy no.3:37-47 '60. (MIRA 13:6)
(Mining engineering--Equipment and supplies)
(Plastics--Testing)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

S/032/60/026/012/024/036
B020/B056

AUTHORS: Perlin, S. M. and Sobolev, D. Ya.

TITLE: Device for Determining the Coefficient of Sliding Friction

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 12, pp. 1406-1408

TEXT: The device suggested permits determination of the coefficient of friction in the wearability test of plastic and other materials in the case of dry friction, with water, with lubricants, and in the presence of abrasive material. The coefficient of friction is determined by ascertaining the friction torque produced in the pair of specimens tested, one of which rotates with motor drive, whereas the other is firmly fastened to the axis which is connected with the measuring part of the device. The device consists of three main parts, viz., the operating, measuring, and damping devices. By means of this device, the coefficients of sliding friction of several pairs were determined. The friction losses in the device itself are determined by the losses in the ball bearings during rotation of the indicator and the blocks. Taring of the device is described. There are

Card 1/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

Device for Determining the Coefficient of Sliding Friction

S/032/60/026/012/024/036
B020/B056

1 figure and 1 table.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-tekhnologicheskiy institut ugol'nogo mashinostroyeniya
(All-Union Scientific Research, Design, and Planning Technological Institute of Coal Machinery)

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

S/653/61/000/000/023/051
I007/I242

AUTHORS: Kogan, A.M., and Sobolev, D.Ya.

TITLE: Some methods and results of evaluation of wear resistance of plastics in mining conveyors and cars

SOURCE: Plastmassy v mashinostroyenii i priborostroyenii. Pervaya resp. nauch.-tekh. konfer. po vopr. prim. plastmass v mashinostr. i priborostr., Kiev, 1959. Kiev, Gostekhizdat, 1961, 263-279

TEXT: In order to ensure optimum design data for the construction of plastic mining chutes and car bodies, investigations were carried out on the wear resistance of plastics to the abrasive action of coal particles. The tests were carried out on trapezoidal specimens on a special test stand designed so as to ensure, apart from the free movement of abrasive particles, their wedging between the scraper and the

Card 1/2

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S/653/61/000/000/023/051
I007/I242

Some methods and results of evaluation...

test specimen to bring about shearing of the surface layers by abrasive particles. Polyamide-based plastics have a greater wear resistance. Test results are tabulated and a formula for wear resistance of plastics is derived. Polyurethane rubber, grain-oriented glass-reinforced plastics, 68-type polyamide resin and plycaprone have greatest wear resistance. The above materials are more resistant to wet-abrasion than grade 3 structural steel. Prestressed NSP-1 glass-reinforced plastics showed greater wear-resistance than grade 3 steel. For mining conveyors transporting wet materials, the substitution of plastics for grade 3 steel is desirable. Abrasion resistance of plastics is not directly proportional to hardness; it depends, to a large extent on a factor called "shear-initiation probability" which is determined by the elasticity of the plastic material used. There are 9 figures and 7 tables.

Card 2/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

ACCESSION NR: AP4039948 S/0191/64/000/006/0041/0044

AUTHOR: Vinogradov, V. N.; Shreyber, G. K.; Sobolev, D. Ya.

TITLE: Wear of fiberglass upon grinding with unmounted abrasive

SOURCE: Plasticheskiye massy*, no. 6, 1964, 41-44

TOPIC TAGS: fiberglass, wear resistance, polyester binder, phenolic binder, unfilled resin, glass mat, glass cloth, oriented glass fiber, filler affect, abrasion resistance

ABSTRACT: The wear resistance of fiberglass containing glass of different structures and polyester and phenol binders, when ground with unmounted abrasive, was compared. The test stand was arranged so that the abrasive particles falling between two surfaces moving with respect to each other, were wedged therebetween and caused microabrasions. Fiberglass made of BF-4 binder was more wearresistant than fiberglass of analgous structure prepared from polyester resin PN-1. The unfilled resins had the least wear resistance. Of the glassfilled materials the fiberglass made of glass cloth was the least wear-resistant, followed closely by glass mat in which the wear was very uneven. Oriented glass fibers offered the

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ACCESSION NR: AP4039948

greatest resistance, especially when the fiber was oriented in the direction of the motion of the abrasive. Photographs of the different ground surfaces are given. Orig. art. has: 5 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00

SUB CODE: MT NO REF SOV: 002 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, Dmitriy Zakharovich; PLICHE, V.O., red.; NAZAROVA, A.S., tekhn. red.

[In the land of legends] V kraiu legend. Moskva, Izd-vo "Znanie," 1961. 79 p. (MIRA 15:2)

1. Sekretar' Taymyrskogo okruzhnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza (for Sobolev).
(Taymyr peninsula—Economic conditions)
(Taymyr Peninsula—Nationalities)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, Dmitriy Zakharovich; KATUNA, V.I., red.

[Putting Lenin's plan for the electrification of the country into practice] Osushchestvlenie leninskogo plana elektrifikatsii strany. Moskva, Mysl', 1965. 77 p.
(MIRA 18:8)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E. A.

23366 Vliyaniye Mercerizatsii Na Fiziko-Mekhanicheskiye Pokazateli Pryazhi
Legkaya Prom-st', 1949, No. 7, c. 15-17

SO: LETOPIS NO. 31, 1949

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E.A.

SOBOLEV, E.A., redaktor; MOGILEVSKIY, I.Ya., retsenzent; SHTEYNER, L.M., retsenzent. ABRAMOV, S.A., retsenzent; BELYAYEVA, Z.F., redaktor; MOLODOV, I.V., redaktor; VILLENEVA, A.V., tekhnicheskiy redaktor

[The knit goods industry abroad; collection of articles translated from foreign periodicals] Trikotazhnaia promyshlennost' za rubezhom; sbornik perevodov statei iz inostrannoi periodicheskoi literatury. Moskva, Izd-vo inostrannoi lit-ry, 1954. 179 p. (MLRA 8:4)
(Knit goods industry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

IVANOV,V.A., inzhener; SOBOLEV,E.A., inzhener

More efficient utilization of raw materials in the knit goods industry. Leg. prom 15 no.4:17-21 Ap '55. (MLRA 8:7)
(Knit goods industry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

IVANOV, V.A.; SOBOLEV, E.A.

For further technological progress in the knit goods industry.
Leg.prom.15 no.10:4-7 O '55. (MLRA 9:1)
(Knit goods industry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E., uchenyy sekretar' sektsii.

In the Technical Council. Leg.prom. 16 no.4:44 Ap '56.(MLRA 9:8)
(Knit goods industry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

GUSEV, M.N.; SOBOLEV, E.A.

Knit good industry during the sixth five-year plan. Leg.prom. 16 no.10:4-6 O '56. (MIRA 10:12)

(Knit goods industry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E.A.

Further specialization in the knit goods industries. Leg.prom. 16 no.12:4-6 D '56. (MLRA 10:2)
(Knit goods industry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E.A.; MOGILEVSKIY, I.Ya.

[Knit goods industry during the years of the Soviet regime] Trikotazhnaia promyshlennost' za gody sovetskoi vlasti. Moskva, Biuro tekhnicheskoi informatsii legkoi promyshlennosti, 1957. 46 p. (MIRA 12:6)
(Knit goods industry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

ABRAMOV, Sergey Aleksandrovich; MELIKHOV, S.A., dotsent, retsenzent; SOBOLEV, E.A., inzhener, retsenzent; GUSEV, V.P., inzhener, retsenzent; PLEMYANNIKOV, M.N., redaktor; KOGAN, V.V., tekhnicheskiy redaktor

[Finishing of knit goods] Otdelka trikotazhnykh izdelii. Moskva, Gos.nauchno-tekhn.izd-vo M-va legkoi promyshl. SSSR, 1957. 370 p. (Knit goods) (MLRA 10:10)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E.A.

Soviet knit goods industry. Leg.prom. 17 no.11:44-50 N '57. (MIRA 10:12)

(Knit goods industry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E.

In the Scientific and Technical Society of the Light Industry.
Leg. prom. 18 no.9:10-11 S '58. (MIRA 11:10)

1. Nauchnyy rukovoditel' sektsii trikotazhnoy promyshlennosti tsentral'nogo pravleniya Nauchno-tekhnicheskogo obshchestva legkoy promyshlennosti.
(Knit good industry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E.A., inzh.

Scientific and technical conference of workers in the sewing and knitting industries. Tekst.prom. 19 no.2:75 F '59. (MIRA 12:5)

(Clothing industry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E.A.

Inspection of new knitted goods. Tekst.prom. 19 no.10:93-94 O '59. (MIRA 13:1)

1. Nauchnyy rukovoditel' sektsii trikotazhnoy promyshlennosti TSentralnogo pravleniya Nauchno-tekhnicheskogo obshchestva legkoy promyshlennosti.
(Knit goods)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

RABINOVICH, Zelik Yefimovich, inzh.; Prinyali uchastiye: BUTOVICH, V.M., inzh.; LUPANDIN, K.K., inzh.-ekonom.; FEDOROV, V.I., inzh.; CHETYRKINA, Ye.N., prepodavatel'nitsa; SOBOLEV, E.A., nauchn.red.; KRASNOBORODSKAYA, L.L., red.; BOGATOVA, V.N., red.-leksikograf; YURCHENKO, D.I., red.-leksikograf; BRUDNO, K.F., tekhn. red.

[English-russian textile dictionary] Anglo-russkii tekstil'nyi slovar'. Izd.2., perer. i dop. Pod red. K.K.Lupandina. Moskva, Glav. red. inostr. nauchno-tekhn. slovarei Fizmatgiza, 1961. 640 p. (MIRA 14:8)

1. Moskovskiy tekstil'nyy institut (for Chetyrkina).
(Textile industry--Dictionaries)
(English language--Dictionaries--Russian)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E.A.; POGOSOV, V.M.

Seminar on the exchange of advanced practices by knit goods enterprises. Tekst.prom. 21 no.11:94-95 N '61. (MIRA 14:11)

1. Nauchnyy rukovoditel' sektsii trikotazhnoy promyshlennosti TSentral'nogo pravleniya nauchno-tekhnicheskogo obshchestva legkoy promyshlennosti (for Sobolev). 2. Direktor TSentral'nogo instituta nauchno-tekhnicheskoy informatsii legkoy promyshlennosti (TSINTIlegproma) (for Pogosov).
(Knit goods industry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E.A.

Efficient utilization of raw materials in the knit goods industry.
Tekst.prom. no.2:25-28 F '63. (MIRA 16:4)

1. Nauchnyy rukovoditel' sektsii trikotazhnoy promyshlennosti TSentral'nogo pravleniya Nauchno-tekhnicheskogo obshchestva legkoy promyshlennosti.
(Knit goods industry)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E. A.

Seminar for the exchange of practices for the improvement of the quality and expansion of the assortment of knit goods. Tekst. prom. 23 no.3:55-57 Mr '63. (MIRA 16:4)

1. Nauchnyy rukovoditel' sektsii trikotazhnoy promyshlennosti TSentral'nogo pravleniya Nauchno-tekhnicheskogo obshchestva legkoy promyshlennosti.

(Knit goods industry)

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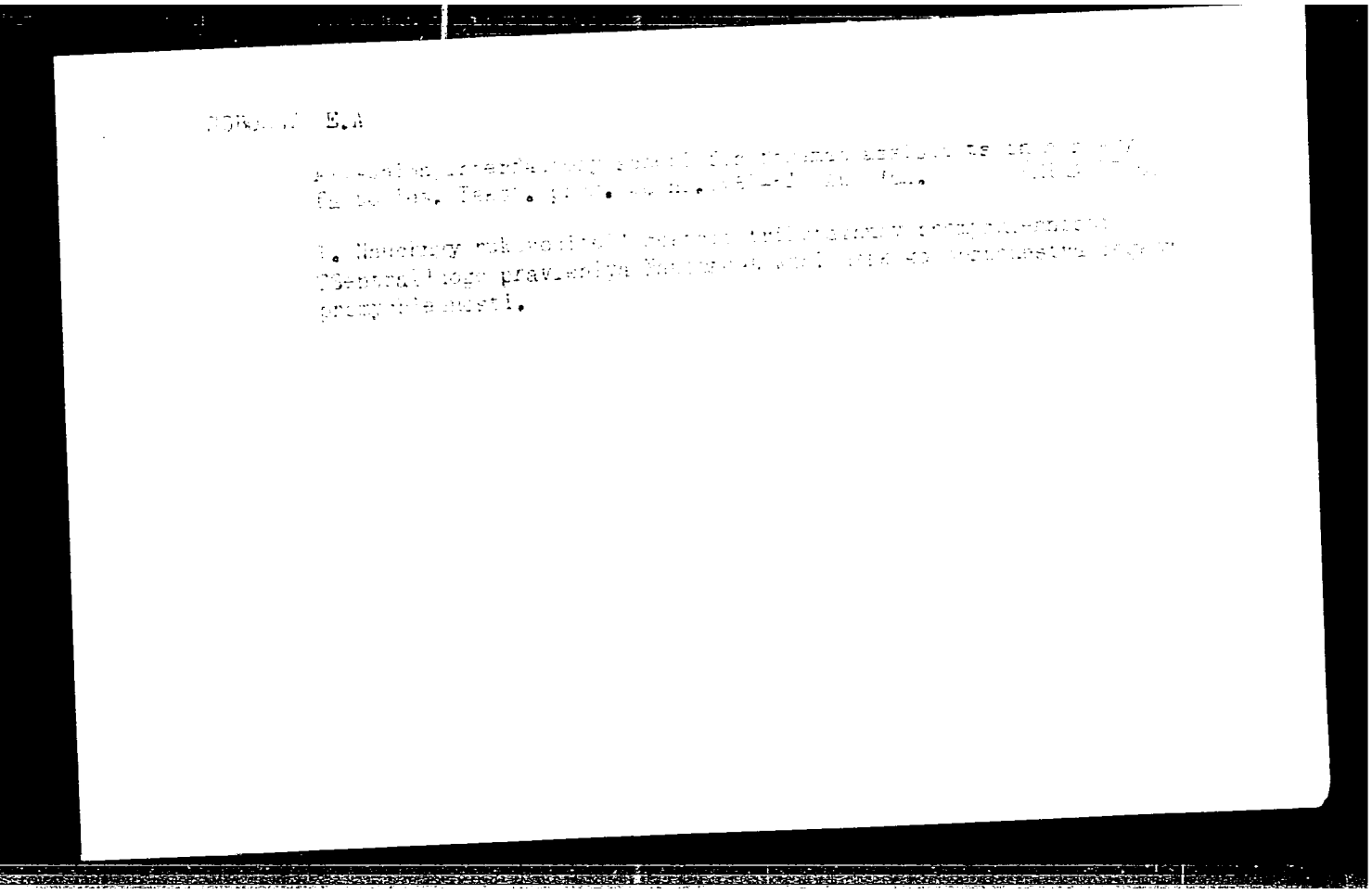

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E.A.

All-Union scientific and technical seminar on the exchange of practices for an efficient utilization of raw materials in the manufacture of knit underwear. Tekst. prom. 25 no.4:38-39 Ap '65. (MIRA 18:5)

1. Nauchnyy rukovoditel' sektsii trikotazhnoy promyshlennosti TSentral'nogo pravleniya Nauchno-issledovatel'skogo obshchestva legkoy promyshlennosti.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, E.M.

Investigating trolley frames of traveling cranes. Trudy LPI no 254:68-80 '65. (MIRA 19:1)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

ACC NR: AP7000371 (N) SOURCE CODE: UR/0413/66/000/022/0158/0158

INVENTOR: Varenov, P. G.; Sobolev, F. P.; Sidorova, I. V.

ORG: None

TITLE: Nozzle for a ship's screw. Class 65, No. 188856

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 158

TOPIC TAGS: nozzle design, marine engineering, SHIP COMPONENT

ABSTRACT: This Author's Certificate introduces a nozzle for a ship's screw. The unit includes external and internal surfaces interconnected by reinforcing ribs. To reduce disturbing forces transmitted from the screw to the hull, the internal surface of the nozzle is mounted on shock absorbers in the region of the screw disc.

Card 1/2 UDC: 629.1.037.23

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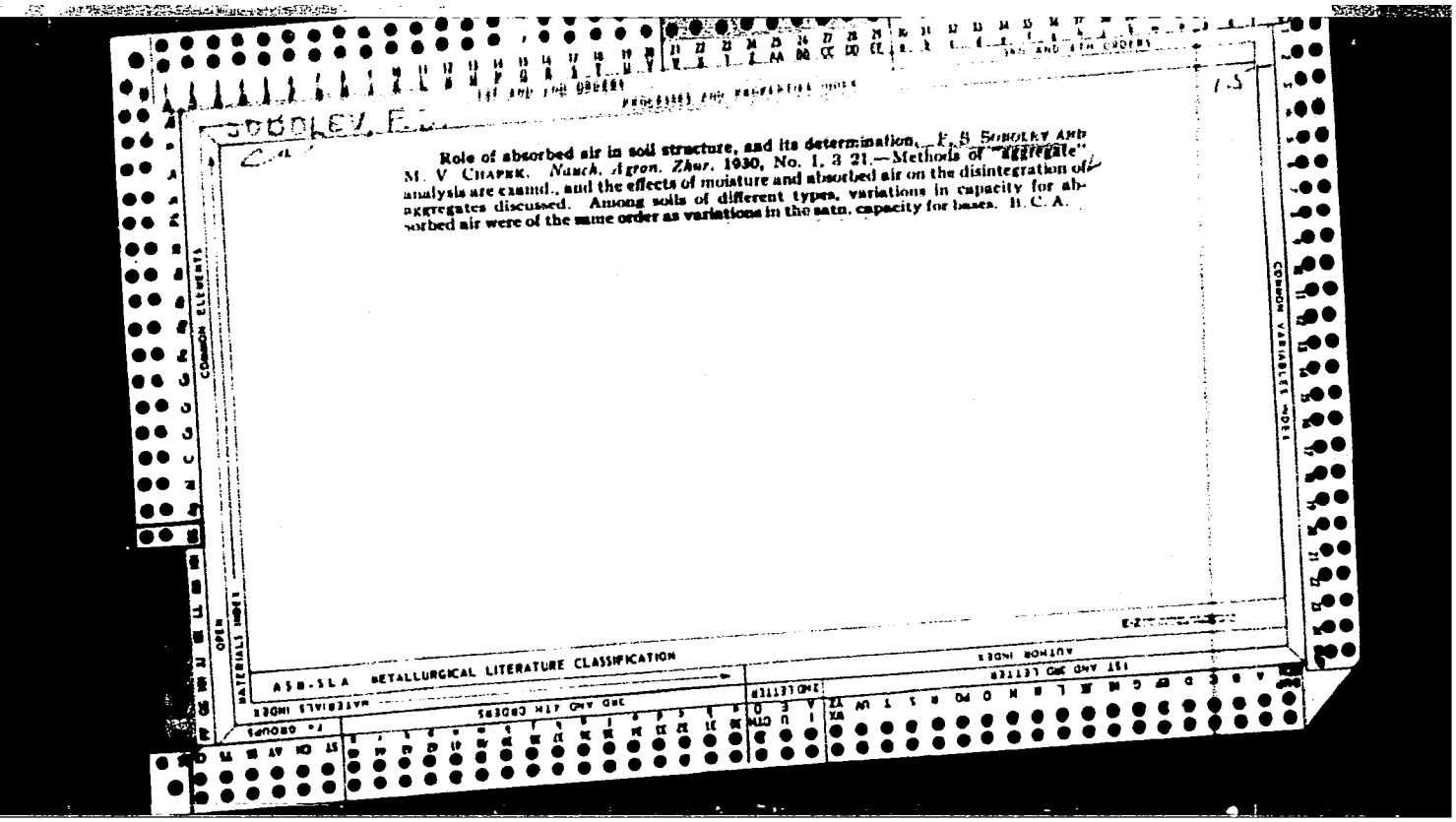

Role of absorbed air in soil structure, and its determination. F. B. Sokolov and M. V. Chapek. *Nauch. Agron. Zhur.* 1930, No. 1, 3-21.—Methods of "aggregate" analysis are examd., and the effects of moisture and absorbed air on the disintegration of aggregates discussed. Among soils of different types, variations in capacity for absorbed air were of the same order as variations in the satn. capacity for bases. B. C. A.

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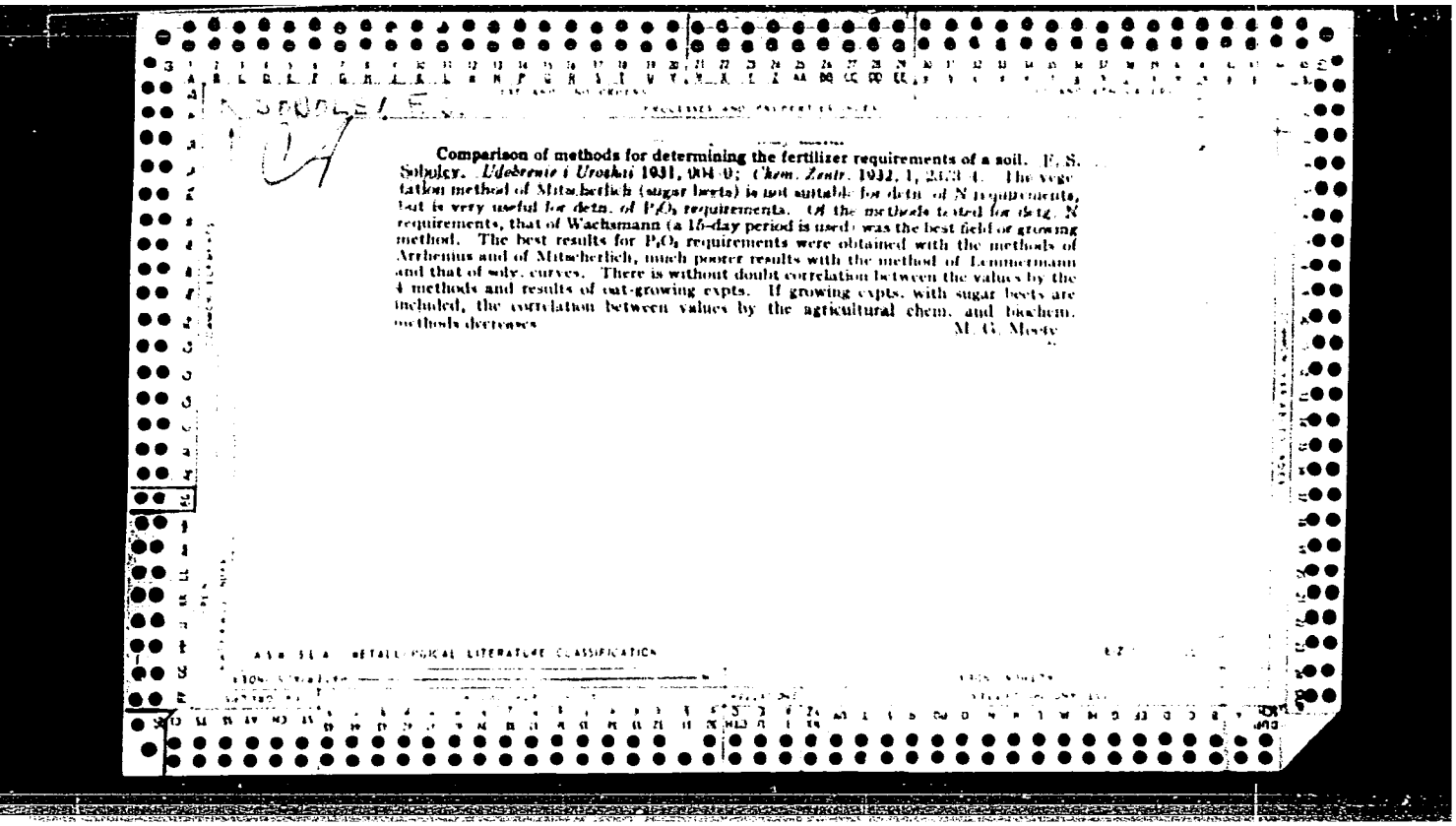

Comparison of methods for determining the fertilizer requirements of a soil. P. S. Sobolev. *Udobrenie i Urozhai* **1931**, 004-9; *Chem. Zentr.* **1932**, I, 2453-4. The vegetation method of Mitscherlich (sugar beets) is not suitable for detn. of N requirements, but is very useful for detn. of P_2O_5 requirements. Of the methods tested for detg. N requirements, that of Wachsmann (a 16-day period is used) was the best field of growing method. The best results for P_2O_5 requirements were obtained with the methods of Arrhenius and of Mitscherlich, much poorer results with the method of Lemmermann and that of solv. curves. There is without doubt correlation between the values by the 4 methods and results of cut-growing expts. If growing expts. with sugar beets are included, the correlation between values by the agricultural chem. and biochem. methods decreases.

M. G. Mosty

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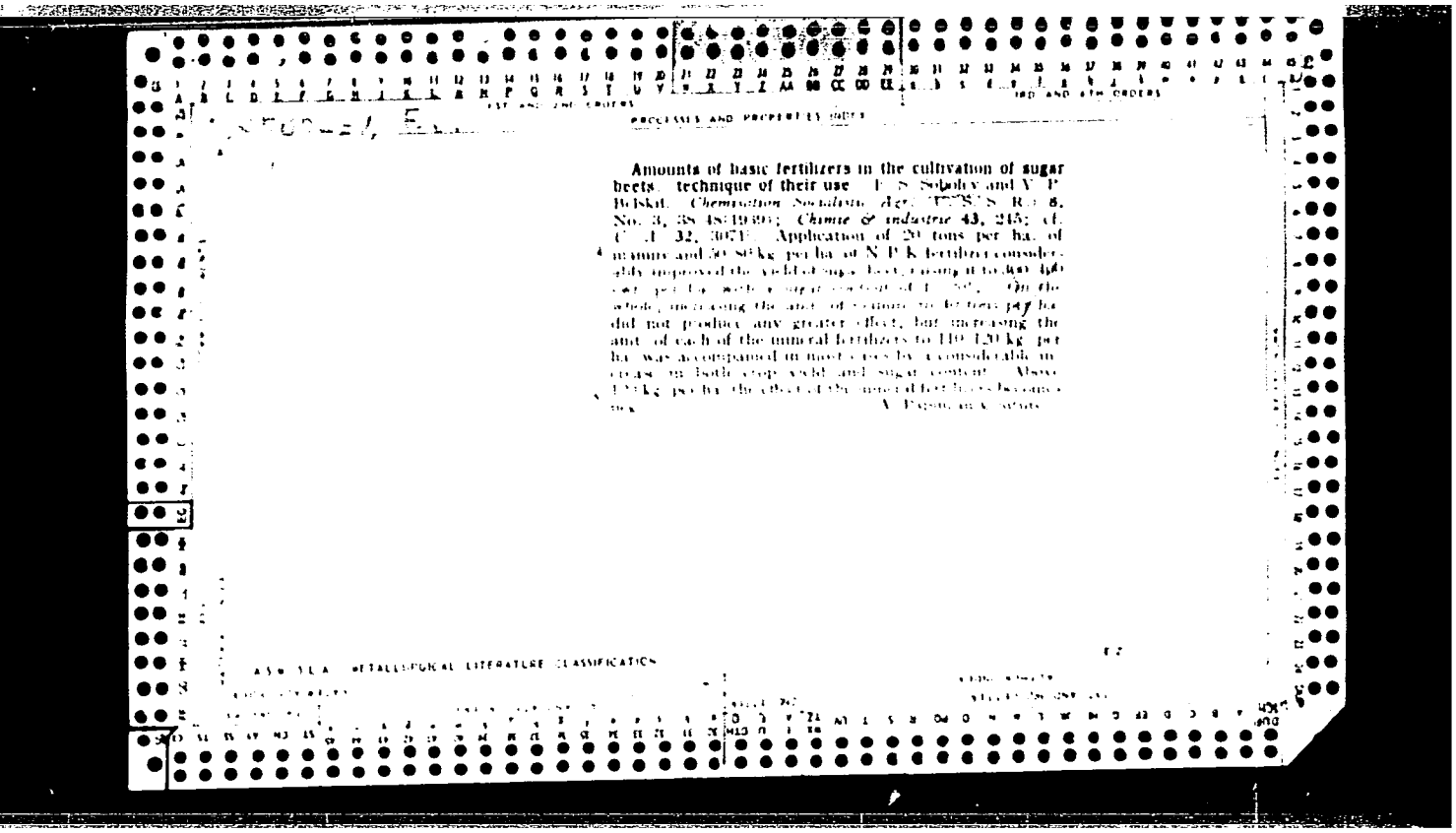
1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX



Amounts of basic fertilizers in the cultivation of sugar beets: technique of their use. F. S. Sobolev and V. P. Belskii. *Chemisation Socialistic Agr.* (U.S.S.R.) 8, No. 3, 38-48(1939); *Chimie & industrie* 43, 245; cf. C. A. 32, 3071. Application of 20 tons per ha. of manure and 50-80 kg. per ha. of N-P-K fertilizer considerably improved the yield of sugar beet, raising it to 300-400 cwt. per ha. with a sugar content of [illegible]. On the whole, increasing the amt. of manure to 40 tons per ha. did not produce any greater effect, but increasing the amt. of each of the mineral fertilizers to 110-120 kg. per ha. was accompanied in most cases by a considerable increase in both crop yield and sugar content. Above [illegible] kg. per ha. the effect of the mineral fertilizers becomes [illegible]. A. Papin, in V. Sutton.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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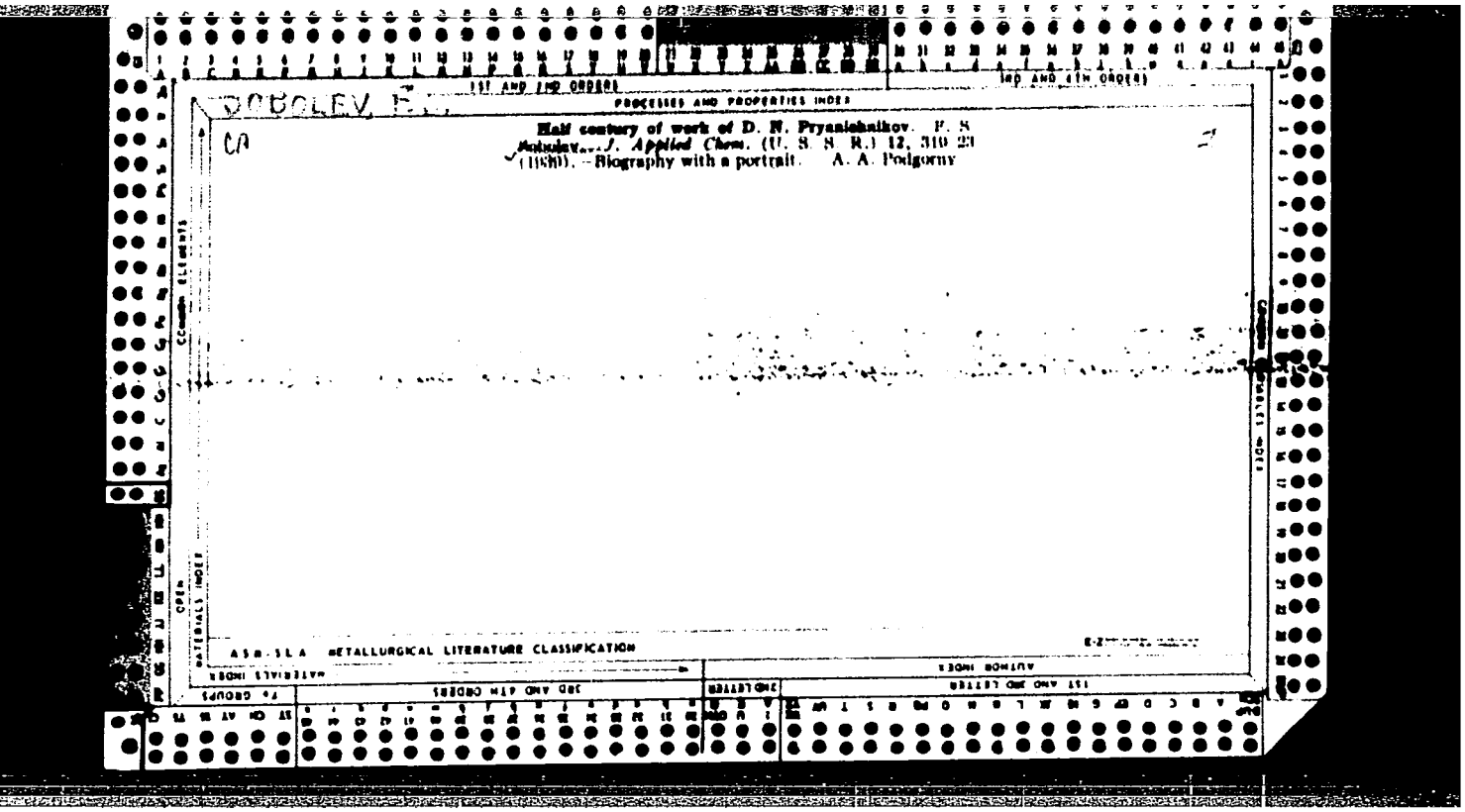

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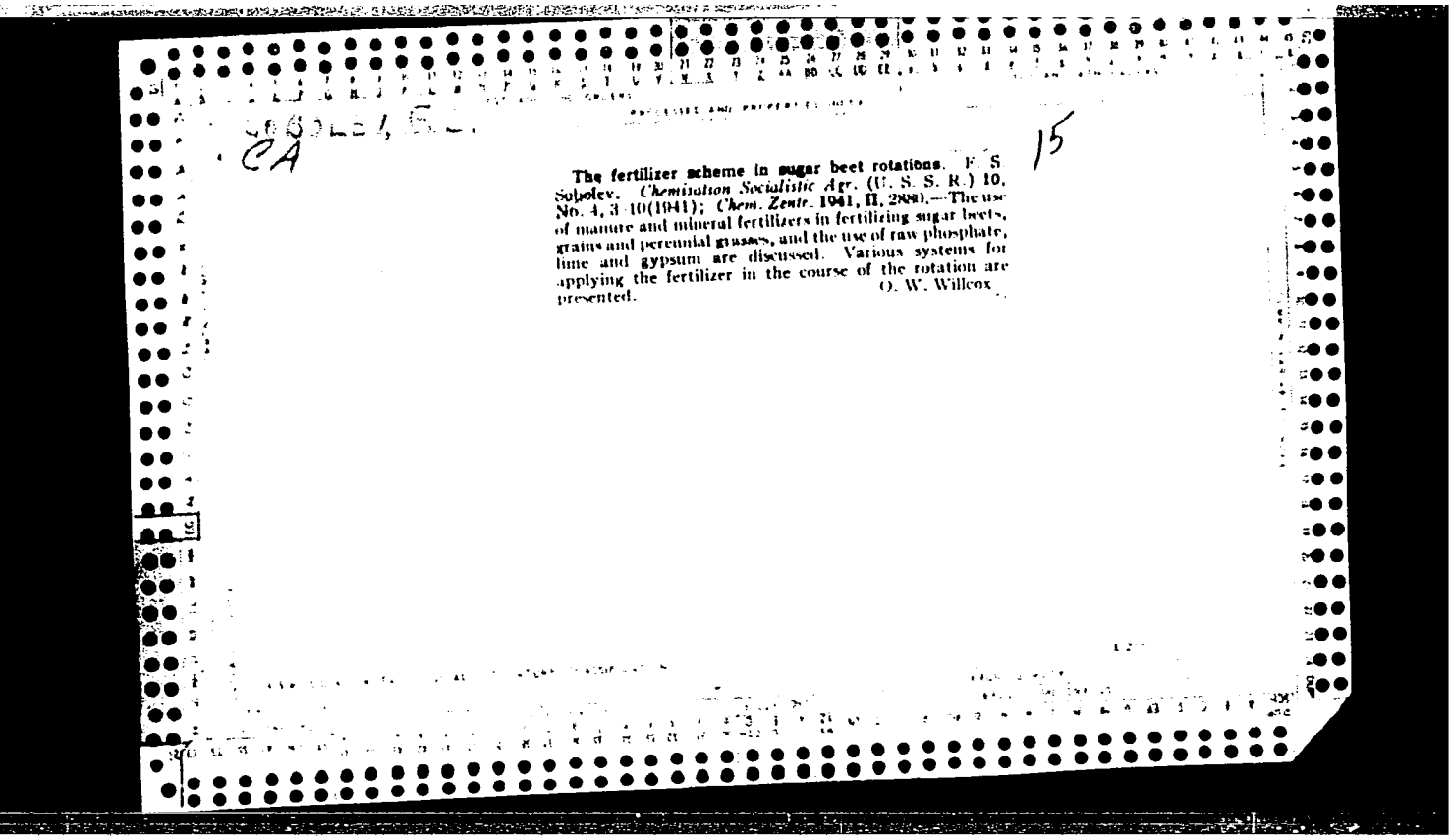

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The fertilizer scheme in sugar beet rotations. F. S. Sobolev. *Chemisation Socialistic Agr.* (U. S. S. R.) 10, No. 4, 3-10(1941); *Chem. Zentr.* 1941, II, 2881.—The use of manure and mineral fertilizers in fertilizing sugar beets, grains and perennial grasses, and the use of raw phosphate, lime and gypsum are discussed. Various systems for applying the fertilizer in the course of the rotation are presented. O. W. Willcox

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, F. S.

Sobolev, F. S. - "Fertilization in the system of drought-control measures," Vestnik Mosk. un-ta, 1949, No. 11, p. 165-75 --- Bibliog: p. 174-75

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

VOL'FKOVICH, S. I., AGRIEV, P. S.

Agricultural Chemistry

Thoughts and works of D. I. Mendeleev on agriculture and the application of chemistry to it. Vest. Mosk. un. no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1953, Uncl.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

Sobolev, F. S.

FD-1698

USSR/Miscellaneous

Card 1/1 : Pub. 129-23/25

Author : Sobolev, F. S., Docent

Title : Experience gained in the cinefication of lecture courses

Periodical : Vest. Mosk. un., Ser. fizikomat. i yest. nauk, Vol. 10, 186-187, Feb 1955

Abstract : The Chair of Agronomy in Moscow University was the first in the present shcool year to present lecture courses on film. Demonstrated on film were a course of lectures on crop raising, a special course entitled "Cultivation of Crops" (occurrence, geography and systematics of cultivated plants), and the course "General Farming". Director of the Chair of Agronomy is Prof. V. T. Makarov. In parts of the courses there are no special film demonstrations.

Institution :

Submitted :

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, F.S.

I. A. Stebuta's works ("Selected works in two volumes; vol. 1." by I.A. Stebuta. Reviewed by F. S. Sobolev). Zemledelie 4 no.10: 125-127 O '56. (MLRA 9:11)
(Stebut, Ivan Aleksandrovich, 1833-1923)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, G.

SOBOLEV, G.

Repair of the pile support of a coal-loading crane. Mor. i rech.flot 14 no.6:30-31 Je '54. (MIRA 7:7)
(Piling (Civil engineering))

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, G.

Constructing a "dead" anchor from a metalsheet pile. Mor.i rech. flot 14 no.9 S '54. (MLRA 7:10)
(Anchors)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, G.

New construction of piles and of mooring structures. Mor. i rech. flot 14 no.11:30-31 N '54. (MLRA 7:11)

1. Glavnyy inzhener Leningradskogo morskogo porta.
(Piling (Civil engineering))

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ANDREYEV, Georgiy Borisovich, inzh.; VOLOBUYEV, Viktor Mikhaylovich, inzh.; GORYUNOV, Boris Fedorovich, doktor tekhn.nauk, prof.; SMIRNOV, Nikolay Andreyevich, kand.tekhn.nauk; SOBOLEV, Georgiy Aleksandrovich, inzh.; Prinimali uchastiye: ANNENKOV, Ye.N., inzh.; ZLATOVERKHNIKOV, L.F., kand.tekhn.nauk; KORCHAGINA, A.Ya., inzh.; KRIVITSKIY, S.I., inzh.; RUMYANTSEV, A.N., inzh.; LAPINA, Z.D., red.; MOSHAROVA, T.P., red.; TIKHONOVA, Ye.A., tekhn. red.

[Technical operation of hydraulic engineering structures in harbors]Tekhnicheskaia ekspluatatsiia portovykh gidrotekhnicheskikh sooruzhenii. [By] G.B.Andreev i dr. Moskva, Izd-vo "Morskoi transport," 1962. 375 p. (MIRA 15:8)
(Hydraulic structures) (Harbors)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, I. A.

Technology

Working principles, installation, repair, and adjustment of machines for the flax-spinning industry. Moskva. Gos. nauchno-tekin. izd-vo legkoi promyshl., 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1952 1953, Uncl.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, G.A.; TARASOV, S.V., retsenzent.

[Working principles, assembly, repair, and adjustment of flax-spinning machines for wet spinning] Ustroistvo, montazh, remont i naladka l'no-priadil'nykh mashin sistemy mokrogo priadeniia. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1953. 170 p. (MLRA 7:6)
(Spinning machinery)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, Gleb Alekseyevich; TARASOV, S.V., retsenzent; GUSEVA, Ye.M., redaktor; MEDVEDEVA, L.A., tekhnicheskiy redaktor

[Structure and servicing of carding machines in linen manufacturing] Ustroistvo i obsluzhivanie chesal'nykh mashin l'nianoi promyshlennosti. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva legkoi promyshl. SSSR, 1956. 136 p. (MLRA 9:11)
(Carding machines)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, G.A.

Conference of workers in the flax carding industry. Tekst.prom. 16 no.5:68 My '56. (MLRA 9:8)

(Flax)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

GINZBURG, Lev Natanovich, professor, doktor tekhnicheskikh nauk; SAL'MAN, Semen Il'ich, kandidat tekhnicheskikh nauk; TARASOV, Sergey Vladimirovich, kandidat tekhnicheskikh nauk; LAZAREVA, Sof'ya Yefremovna, kandidat tekhnicheskikh nauk; FRIDMAN, Boris Nikolayevich, kandidat tekhnicheskikh nauk; LIFSHITS, Izrail' Yakovlevich, inzhener; SOBOLEV, G.A., retsenzent; SOKOLOVA, V.Ye., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor

[Handbook on flax spinning] Spravochnik po priadeniiu l'na. Pod red. L.N.Ginzburga. Moskva, Gos.nauchno-tekhn.izd-vo M-va legkoi promyshl. SSSR, 1957. 667 p. (MLRA 10:8)

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy institut promyshlennosti lubyanykh volokon.
(Linen) (Spinning)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

MAKHNOVETSKAYA, R.B., starshiy nauchnyy sotrudnik; SOBOLEV, G.A.; TIMOSHOV, V.A.

Using the VAKT-3 apparatus for dyeing "lavsan" polyester fibers. Tekst.prom. 23 no.1:65-68 Ja '63. (MIRA 16:2)

1. TSentral'nogo nauchno-issledovatel'skogo instituta shelkovoy promyshlennosti (TSNIIShelka) (for Makhnovetskaya). 2. Nachal'nik krasil'nogo tsekha kombinata imeni Shcherbakova (for Sobolev). 3. Krasil'nyy tsekh kombinata imeni Shcherbakova (for Timoshov).
(Dyes and dyeing--Apparatus)
(Textile fibers, Synthetic)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

ACCESSION NR: AR4039846 S/0044/64/000/004/B124/B124

SOURCE: Ref. zh. Matematika, Abs. 4B552

AUTHOR: Klokachev, I. V.; Sobolev, G. A.

TITLE: A standard program for the numerical integration of a system of first-order ordinary differential equations by the Runge-Kutta method, with automatic selection of steps, for the BESM-2 computer.

CITED SOURCE: Sb. Resheniye inz. zadach na elektron. vy* chisl, mashinakh, L., 1963, 44-56

TOPIC TAGS: numerical integration, differential equation, ordinary differential equation, first order differential equation, Runge Kutta method, computer

TRANSLATION: The paper presents a program intended for the numerical integration, on a given interval $[x_0, X]$, of a system of ordinary differential equations of the form $y_i = f_i(x,y_1,\ldots,y_n)$ $i = 1,2,\ldots,n$, with initial conditions $y_i(x_0)=y_{i0}$, by the fourth-order Runge-Kutta formulas. The integration is performed with automatic selection of the step, the magnitude of which is modified by the program depending

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ACCESSION NR: AR4039846

on the behavior of the solution obtained, in such a way that at each point of the interval of integration, the step might be maximum for the given allowable error. The constructed program is a standard one: it may be included into any working program, and arbitrary programs may also be included into it. The program allows several schemes of integration and output of the results. The choice of points for which the results are printed out allows one to obtain the solution at the end-point X of the integration interval $[x_0, X]$; at all points at which the integration step is increased; at any points generated according to a rule, which may be arbitrary, specified in advance by the programmer (output at constant intervals, given table of output points, etc...) If desired, the initial data may also be printed out. The program may be used with a compiling and interpreting system. It occupies (0527)8 memory cells, is self-resetting, and has a series of [sub-program] blocks. Bibliography, with 5 titles. I. Shelikhova

DATE ACQ: 15May64 SUB CODE: MA, DP ENCL: 00

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

[illegible], Gleb Alekseyevich; TAKASOV, S.V., kand. tekhn. nauk, retsenzent; VERBITSKAYA, Ye.M., red.

[Arrangement, maintenance, repair and adjustment of spreading, drawing and roving machines in the flax industry] Ustroistvo, obsluzhivanie, remont i naladka ranklauochnykh, tertochnykh i rovnichnykh mashin l'nianoi promyshlennosti. Moskva, Legkaia industriia, 1965. 174 p. (MIRA 18:10)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, G. A.

Distr: 4E4j

7

Electronographic investigation of molecular structure. VII. Strontium halides. ZP. A. Akishin, V. P. Spiridonov, G. A. Sobolev, and V. A. Naumov (M. V. Lomonosov State Univ., Moscow). *Zhur. Fiz. Khim.* 31, 1871-4 (1957); cf. *C.A.* 52, 17e.—The diffraction of fast electrons in a stream of SrF_2, $SrCl_2$, $SrBr_2$, and SrI_2 vapors was measured as previously described. All the halides were linear in structure, and the interat. distances were: Sr-F 2.20; Sr-Cl 2.67; Sr-Br 2.82; and Sr-I 3.03, all ±0.03 A.
W. M. Sternberg

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

76-1-8/32

AUTHORS: Akishin, P. A., Spiridonov, V. P., Sobolev, G. A., Naumov, V. A.

TITLE: Studies of Molecular Structure by Electron Diffraction. VIII. Barium Halides (Elektronograficheskoye issledovaniye stroyeniya molekul. VIII. Galogenidy bariya).

PERIODICAL: Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 1, pp. 58-61 (USSR)

ABSTRACT: For the first time the hitherto in literature lacking data on the configuration and the geometric parameters of the molecules of all vaporous halides of barium are obtained. That is to say of barium fluoride, barium chloride and barium iodide. The taking of electronograms was carried out by means of an apparatus with an evaporator for high temperatures according to the method used by the authors of earlier works (ref. 1 to 6). The evaluation of electronograms was carried out according to two methods: the radial distribution according to the variant of Uolter-Bich and that of consecutive approximations. With the evaluation according to the second method the authors established that the distribution of the intensity of scray electrons of the barium halide vapors, observed experimentally is well represented by the theoretical

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intensity curves I(s) (which had been calculated on the condition of a linear configuration of the barium halide molecules). The asymmetry of the rings on the electronograms of barium halide vapors in less marked than with those of the corresponding halides of calcium and strontium (ref. 5,6). Because of the greater charge value of the barium nucleus compared with the charges of calcium- and strontium nuclei, the valence angle in the molecules of barium halides according to the method of consecutive approximation can be determined only less exact than with the molecules of halides of calcium and strontium.- In the case of all compounds investigated a linear molecular structure was stated and the values of the intermolecular distances were found. The error in the determination of these distances Ba- X is $\pm$1- 1,5 %. The authors stated that the interatomic distance Ba-X in chloride-, bromide- and iodide molecules changes approximatively according to the linear law in dependence on the ordinal number of the halide, while the distance Ba-F deviates strongly from this regularity.

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Studies of Molecular Structure by Electron Diffraction. 76-1-8/32
VIII. Barium Halides

There are 2 figures, 5 tables, and 7 references, 6 of which are Slavic.

ASSOCIATION: Moscow State University imeni M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova).

SUBMITTED: September 13, 1956

AVAILABLE: Library of Congress

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

AUTHORS: Akishin, P. A., Spiridonov, V. P., Sobolev, G. A. 20-118-6-24/43

TITLE: Electron Diffraction Investigation of the Structure of Beryllium Halide Molecules (Elektronograficheskoye issledovaniye stroyeniya molekul galogenidov berilliya)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 6, pp. 1134-1137 (USSR)

ABSTRACT: The present paper investigates the structure of the vaporous beryllium halides - of fluoride, chloride, bromide, and iodide for which no data exist in publications on the geometrical parameters. The production processes for the individual preparations are shortly enumerated. The apparatus and the measuring methods for the detection of electronographs were described already earlier (Ref. 1). For all vaporous beryllium halides investigated here 8 - 10 series of electronographs each were taken. These electronographs had the following intensity distribution: the even (2., 4., 8., and 10.) maxima are intensive and the uneven (3., 5., 7., and 9.) have a lower intensity than the even maxima. The intensity of the even and uneven maxima decreases gradually with increasing scattering angle. The minima lying before

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the even and uneven maxima, respectively, are deep and not deep, respectively. The electronographs were exploited here with the method of the radial distribution and then with the method of successive approximations. The curves of the radial distribution $r^2D(r)$ of the molecules of all beryllium molecules investigated here have two distinctly marked peaks each of which can be interpreted in a natural way as the distances r(Be - X) and r(X - X). Other peaks did not exist. Thus the data obtained by means of the method of radial distribution obviously prove that the electronographs of the vapors of the beryllium halides correspond to the linear triatomic molecules BeX_2. A diagram illustrates the theoretical curves of the intensity of the scattered BeX_2-molecules which well describe all characteristic peculiarities of the electronographs of the vapors of the beryllium halides. The results of the computations are compiled according to the method of successive approximation. The author suggests three types for the structure of the beryllium halides, among them an octahedral type. The two methods used here for the exploitation of the electronographs yield

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Electron Diffraction Investigation of the Structure of Beryllium Halide Molecules 20-118-6-24/43

agreeing results on the configuration (i.e. in favor of the linear structure) and on the geometrical parameters of the molecules of the vaporous beryllium halides. There are 2 figures, 5 tables, and 14 references, 8 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: August 2, 1957, by N. N. Semenov, Member, Academy of Sciences, USSR

SUBMITTED: July 30, 1957

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

3(9) SOV/20-128-3-25/58

AUTHORS: Volarovich, M. P., Parkhomenko, E. I., Sobolev, G. A.

TITLE: Investigation of the Piezoelectric Effect of Quartz-bearing Rocks in the Open Air

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 3, pp 525-528 (USSR)

ABSTRACT: The authors first mention previous articles dealing with the above subject. They investigated bare quartzites and gneisses near the cities of Kyshtym and Karabash, Central Ural, and also granite gneisses of the faulted zone on the Irtysh river, East Kazakhstan. The experiments were made for the purpose of determining the pure piezoelectric effect of the above rocks in massive strata. Electric oscillations resulting from the piezoelectric effect are excited due to the propagation of elastic waves throughout quartzite-bearing rock. The waves were produced by a steam ram. The measuring instruments used by the authors featured several channels and permitted simultaneous recording of electric and elastic oscillations. Each channel was composed of a signal receiver, an amplifier, and a galvanometer. The authors measured the

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Investigation of the Piezoelectric Effect of Quartz-bearing Rocks in the Open Air

potential difference between the movable electrode fastened to the profile and the grounded electrode fastened outside the quartz-bearing massif. The electrodes and seismographs were placed side by side on the rock surface. The seismic and electric oscillations resulting from the shock were simultaneously recorded on one oscillogram. In the investigations carried out in Ural, a piezoelectric effect of quartzites and gneisses was recorded at distances of up to 6 m from the point of the shock. Electric oscillations were recorded at various distances from this point. In measurements on frequencies of 350 cycles, the absolute value of the recorded electric signals was 1,000 μv 1.5 m far from the point of the shock, and $\sim$ 500 μv at a distance of 6 m. At 1,000 cycles, electric oscillations were weaker by one order. Granite gneisses of Kazakhstan permitted observation of piezoelectric oscillations over a distance of 40 m. Electric signals were recorded some time after the shock, e.e. just when the elastic pulse reached the point of reception. Thus, the piezoelectric effect was recorded that had been produced within the electrode range. To gather additional data on the piezoelectric effect

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Investigation of the Piezoelectric Effect of Quartz-bearing Rocks in the Open Air

of the rocks investigated in the open air, the piezoelectric moduli were measured also in a laboratory. The results are similar to those obtained from measurements in the open air. A. G. Ivanov (Ref 4) observed current pulses during mechanical shocks. Theoretical investigations were carried out by A. V. Shubnikov (Ref 1). There are 2 figures and 6 Soviet references.

ASSOCIATION: Institut fiziki Zemli im. O. Yu. Shmidta Akademii nauk SSSR (Institute for Physics of the Earth imeni O. Yu. Shmidt of the Academy of Sciences, USSR)

PRESENTED: May 25, 1959, by A. V. Shubnikov, Academician

SUBMITTED: May 19, 1959

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

VOLAROVICH, M.P.; SOBOLEV, G.A.; PARKHOMENKO, E.I.

Piezoelectric effect of pegmatite and quartz veins. Izv. AN SSSR. Ser. geofiz. no.2:145-152 F '62. (MIRA 15:2)

1. AN SSSR, Institut fiziki Zemli.
(Piezoelectricity)
(Quartz)
(Pegmatites)

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SOBOLEV, G.A.; SHCHERBAKOV, A.M.; AKISHIN, P.A.

Rotational spectrum and dipole moment of the vinylacetylene molecule. Opt. i spektr. 12 no.1:147 Ja '62. (MIRA 15:2)
(Butenyne--Dipole moments)
(Butenyne--Spectra)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, G.A.

Some calculations of fields for the piezoelectric prospecting method. Izv. AN SSSR. Ser. geofiz. no.3:378-385 Mr '64. (MIRA 17:3)

1. Institut fiziki Zemli AN SSSR.

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VOLAROVICH, M.P.; SOBOLEV, D.A.

Use of the piezoelectric effect of rocks for underground studies of piezoelectric bodies. Dokl. AN SSSR 162 no.3:556-558 My '65. (MIRA 18:5)

1. Institut fizik Zemli im. O.Yu. Shmidta AN SSSR. Submitted November 17, 1964.

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SOBOLEV, G.G., inzh.

SR-55 mp filter respirator. Bezop.truda v prom. 6 no.8:34 Ag '62. (MIRA 16:4)

(Respirator)

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BABOKIN, I.A., redaktor; BALBACHAN, Ya.I, redaktor; BARABANOV, F.A., redaktor; BUCHNEV, V.K., redaktor; VLADIMIRSKIY, V.V., redaktor; GRIGOR'YEV, S. Ye., redaktor; DOKUKIN, A.V., redaktor; ZHABO, V.V. redaktor; ZADEMIDKO, A.N., redaktor; ZAITSEV, A.P., redaktor; IL'ICHEV, A.S., redaktor; KAGAN, V.Ya., redaktor; KRASNIKOVSKIY, G.V., redaktor; KRASOZOV, I.P., redaktor; KRIVONOGOV, K.K., redaktor; LALAYANTS, A.M., redaktor; MOGILEVSKIY, N.M., redaktor; ONIKA, D.G., redaktor; OSTROVSKIY, S.B., redaktor; OSTROVSKIY, S.M., redaktor; PEYSAKHOVICH, G.I., redaktor; POCHENKOV, K.I., redaktor; SIRYACHENKO, F.N.;redaktor. SKOCHINSKIY,A.A., redaktor; STUGAREV, A.S., redaktor; SKORKIN, K.I.; SKURAT, V.K., redaktor; SOBOLEV, G.G., redaktor ;TERPITOREV, A.M., redaktor; KHUDOCOVTSEV, N.M., redaktor; TSYPKIN, V.S., redaktor; SHEVYAKOV, L.D., redaktor; SHELKOV, A.A., redaktor;ANDREYEV, G.G., tekhnicheskiy redaktor.

[Safety rules in coal and shale mines] Pravila bezopasnosti v ugol'nykh i slantsevykh shakhtakh. Moskva, Ugletekhizdat, 1951. 207 p. (MLRA 9:1)

1. Russia (1923- U.S.S.R) Ministerstva ugol'noy promyshlennosti. (Coal mines and mining-Safety measures)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7

SOBOLEV, G.G., inzhener.

[Organization of mine rescue work] Organizatsiia gornospasatel'nykh rabot v shakhtakh. Moskva, Ugletekhizdat, 1952. 149 p. (MLRA 6:5)
(Mine rescue work)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651820010-7"