KOZLOV, S.Ya., inzh.; SHAPIRO, A.M., inzh.

Automation and mechanization of technological processes at the enterprises of the building materials industry in Moscow. Stroi.mat. 6 no.1:10-13 Ja '60. (MIRA 13:5)
(Moscow--Building materials industry--Equipment and supplies)
(Automation)

SHAPIRO, A.M., inzh.

Some problems in automating the production processes at building materials plants. Stroi. mat. 6 no.6:6-9 Je '60. (MIRA 13:6)
(Automatic control) (Building materials)

SHAPIRO, A.M., inzh.

Computer for automatic calculation of the charge of a cupola.
Mekh.i avtom.proizv. 14 no.5:18-21 My '60. (MIRA 14:2)
(Electronic digital computers)

MARIYENBAKH, L. M., doktor tekhn. nauk, prof.; SHAPIRO, A. M., inzh.

Control computer for overall automation of cupola processes.
Vest. mashinostr. 42 no.10:64-70 O '62.
(MIRA 15:10)

(Electronic calculating machines)
(Cupola furnaces)

SHAPIRO, A.P., Cand Phys-Math Sci --(diss)" Characteristic polynomials of symmetrical matrices." Len, 1958. 6 pp (Len Order of Lenin State U im A.A.Zhdanov), 150 copies, Bibliography at end of text (10 titles)

KL, 43-58, 114)

AUTHOR: Shapiro, A.P. 20-119-5-13/59

TITLE: On Characteristic Polynomials of Rational Symmetric Matrices of Third Order (O kharakteristicheskikh polinomakh ratsional'nykh simmetrichnykh matrits tret'yego poryadka)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol 119, Nr 5, pp 890-892 (USSR)

ABSTRACT: The author proves the following theorem: In order that the irreducible polynomial $f(x)$ of third degree with rational coefficients is the characteristic polynomial of a rational symmetric matrix, it is necessary and sufficient that all zeros of the polynomial are real. The proof is given with the aid of p-adic numbers and uses essentially the following assumption: Let $R(\vartheta)$ be an algebraic field generated by a root ϑ of $f(x) = 0$; let $\omega_1, \omega_2, \omega_3$ be its base. Let there exist a number λ such that the discriminant of $Sp\,\lambda(x\,\omega_1+y\,\omega_2+z\,\omega_3)^2$ is the square of a rational number
There are 5 references, 3 of which are Soviet, 2 German.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova (Leningrad State University im. A.A. Zhdanov)

PRESENTED: November 30, 1957, by A.N. Kolmogorov, Academician
SUBMITTED: September 5, 1957

Card 1/1

S/155/59/000/02/022/036

AUTHOR: Shapiro, A.P.

TITLE: The Best Distribution of Pins Fixing a Round Plate

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1959, No. 2, pp.120-123

TEXT: A cylinder, basal surfaces of which consist of round plane thin plates which are fixed along their boundary, is assumed to be under internal pressure. In order to consolidate the cylinder the two basal planes are connected with each other by rigid bolts. It is asked how to distribute the bolts in order that a high increase of stability will take place, and how large this increase can be made. The problem is solved according to a method of N.I. Mukhelishvili (Ref. 1). A bolt in the center of the plate gives a four times higher strength. Three symmetrically distributed bolts give a strength more than ten times higher. Two bolts have to be attached symmetrically in the distant a = 0.274 r from the center, three bolts symmetrically in the distant a = 0.359 r from the center (r is the radius of the basal plane). There are 3 references: 2 Soviet and 1 English.

ASSOCIATION: Yakutskiy gosudarstvennyy universitet (Yakutiya State University)

SUBMITTED: March 23, 1959

Card 1/1

FADDEYEV, Dmitriy Konstantinovich; PETROVSKIY, I.G., akademik, otv.red.
Prinimali uchastiye: SHAPIRO, A.P., student; TUSHKINA, T.A., studentka; BOROVSKIY, Yu.Ye., student; SMIRNOV, G.P. [deceased], student; KUTIKOV, L.B., student; IVANOV, F.A.; NIKOL'SKIY, S.M., prof., zamestitel' otv.rd.; SKOPIN, A.I., kand.fiz.-mat.nauk, red.izdaniya; BARKOVSKIY, I.V., red.izd-va; BOCHEVER, V.T., tekhn.red.

[Tables of the fundamental unitary representations of Fedorov groups] Tablitsy osnovnykh unitarnykh predstavlenii fedorovskikh grupp. Moskva, Izv-vo Akad.nauk SSSR, 1961. 173 p. (Akademiia nauk SSSR. Matematicheskii institut. Trudy , vol.56) (MIRA 14:4)

1. Leningradskiy gosudarstvennyy universitet, matematiko-mekhanicheskiy fakul'tet (for Shapiro, Tushkina, Borovskiy, Smirnov, Kutikov).
2. Leningradskoye otdeleniye Matematicheskogo instituta im. V.A. Steklova (for Ivanov).
(Crystallography--Tables, etc.) (Groups, Theory of)

SOV/137-58-10-20400

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 7 (USSR)

AUTHORS: Nedogovorov, D. I., Shapiro, A. P.

TITLE: An Experiment in the Flotation of Ilmenite-rutile-zircon Placers of Maritime Origin (Opyt flotatsii il'menito-rutilo-tsirkonovykh rossypey morskogo proiskhozhdeniya)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 17, pp 9-14

ABSTRACT: An experiment is made with a specimen consisting of fine granular sand, the granulometric composition of which is typical of placers of maritime coastal origin. The useful materials are Zr, TiO_2, and leucoxenized ilmenite. The useful components may be recovered satisfactorily in bulk concentrate (on condition of prior desliming of the starting material) by flotation with oxidized petrolatum in a neutral or weakly alkaline medium at 22°, the pulp being heavy (solid-to-liquid ratio 1:2). The conditions of flotation were determined and a flowsheet worked out on the basis of pilot-plant tests. The resulting bulk concentrate contains 93.83% heavy fraction consisting of flotation-responsive minerals. The concentrate consists 50% of a magnetic fraction, which is susceptible to

Card 1/2

An Experiment in the Flotation (cont.)

magnetic separation. In addition to TiO_2, the minerals of the nonmagnetic fraction are separated by concentration on the table. Flotation separation of stavrolite from ilmenite is based on the differences in their flotation behavior in caustic mediums. After electrostatic separation, the Zr concentrate contains 3% TiO_2. To reduce the TiO_2 in the concentrate to 1%, it is subjected to flotation with oleic acid and Na_2SiF_6 as a Zr depressor.

1. Ores--Processing 2. Minerals--Flotation 3. Flotation--Analysis L. S.

137-58-4-6372

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 6 (USSR)

AUTHORS: Klimenko, N. G., Shapiro, A. P., Shcherbakova, S N.

TITLE: Technical Aid to the Dzhidinskiy Kombinat in Organizing an Experimental Hydrocyclone Dressing Mill (Okazaniye tekhnicheskoy pomoshchi Dzhidinskomu kombinatu po organizatsii opytnoy ustanovki dlya obogashcheniya v gidrotsiklone)

PERIODICAL: Tr. N.-i. gornorazved. in-ta "Nigrizoloto" 1957 Nr 22, pp 144-148

ABSTRACT: The results of a study in a pilot plant of the possibility of employing a hydrocyclone to beneficiate granular tailings of the Dzhidinskaya Tungsten Plant in heavy suspensions is described. The layout of a succession of equipments for the pilot plant is presented and described.

A. Sh.

1. Ores--Processes 2. Hydrocyclones--Applications

Card 1/1

SHAPIRO, A.P.

Best distribution of bolts fastening a round plate. Nauch. dokl.vys.shkoly; fiz.-mat.nauki no.2:120-123 '59. (MIRA 13:3)

1. Yakutskiy gosudarstvennyy universitet.
(Pressure vessels)

TODES, O.M.; SHAPIRO, A.P.

Diffusion kinetics for a nonuniformly accessible surface. Kin. i kat. 1 no.2:324-332 Jl-Ag '60. (MIRA 13:8)

1. Yakutskiy gosudarstvennyy universitet.
(Diffusion)

ZELENOV, V.I.; SHAPIRO, A.P.

Flotation of tetradymite. TSvet. met. 33 no.6:14-17 Je '60.
(MIRA 14:4)

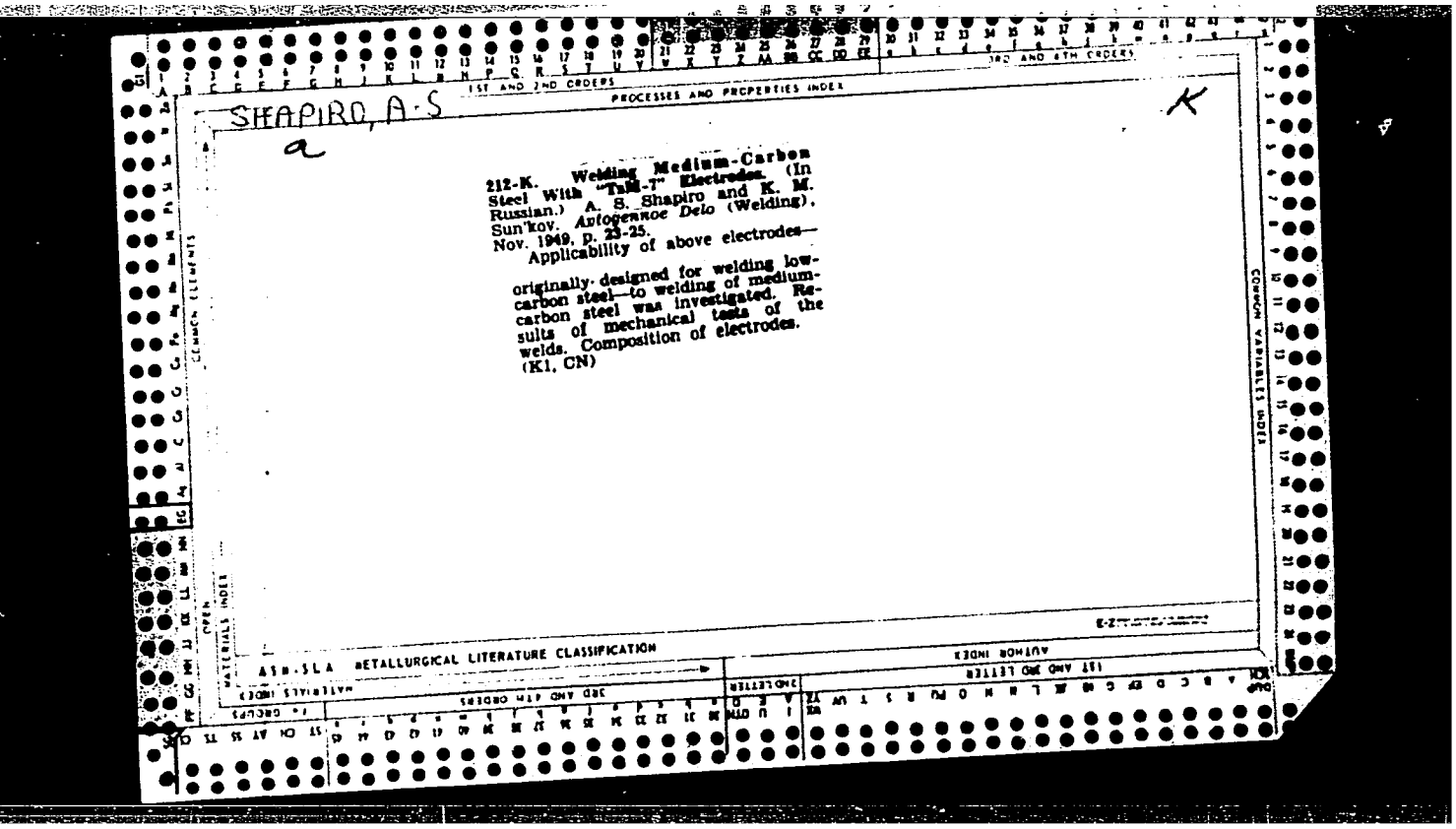
1. TSentral'nyy nauchno-issledovatel'skiy gorno-razvedochnyy institut tsvetnykh, redkikh i blagorodnykh metallov.
(Flotation) (Tetradymite)

SHAPIRO, A.P.; BERMAN, S.D., dotsent

Classes of conjugate elements of cyclic extensions of finite groups. Dokl. i soob. UzhGU. Ser. fiz.-mat. i ist. nauk no.5:76 '62. (MIRA 17:9)

SHAPIRO, A.P.

Characteristic polynomials of symmetric matrices. Sib.mat.zhur. 3 no.2:280-291 Mr-Ap '62. (MIRA 15:4)
(Matrices) (Polynomials)



SHAPIRO, A.S

a

K

212-K. Welding Medium-Carbon Steel With "TsM-7" Electrodes. (In Russian.) A. S. Shapiro and K. M. Sun'kov. *Avtogennoe Delo* (Welding), Nov. 1949, p. 23-25.

Applicability of above electrodes—originally designed for welding low-carbon steel—to welding of medium-carbon steel was investigated. Results of mechanical tests of the welds. Composition of electrodes. (K1, CN)

PROCESSES AND PROPERTIES INDEX

METALLURGICAL LITERATURE CLASSIFICATION

AUTHOR INDEX

AUTHOR: Shapiro, A.S. 68-58-2-14/21

TITLE: On the Problem of the Removal of Sulphur from Coke Oven Gas (K voprosu ob ekonomike izvlecheniya sery iz koksovogo gaza)

PERIODICAL: Koks i Khimiya, 1958, Nr 2, pp 54 - 55 (USSR)

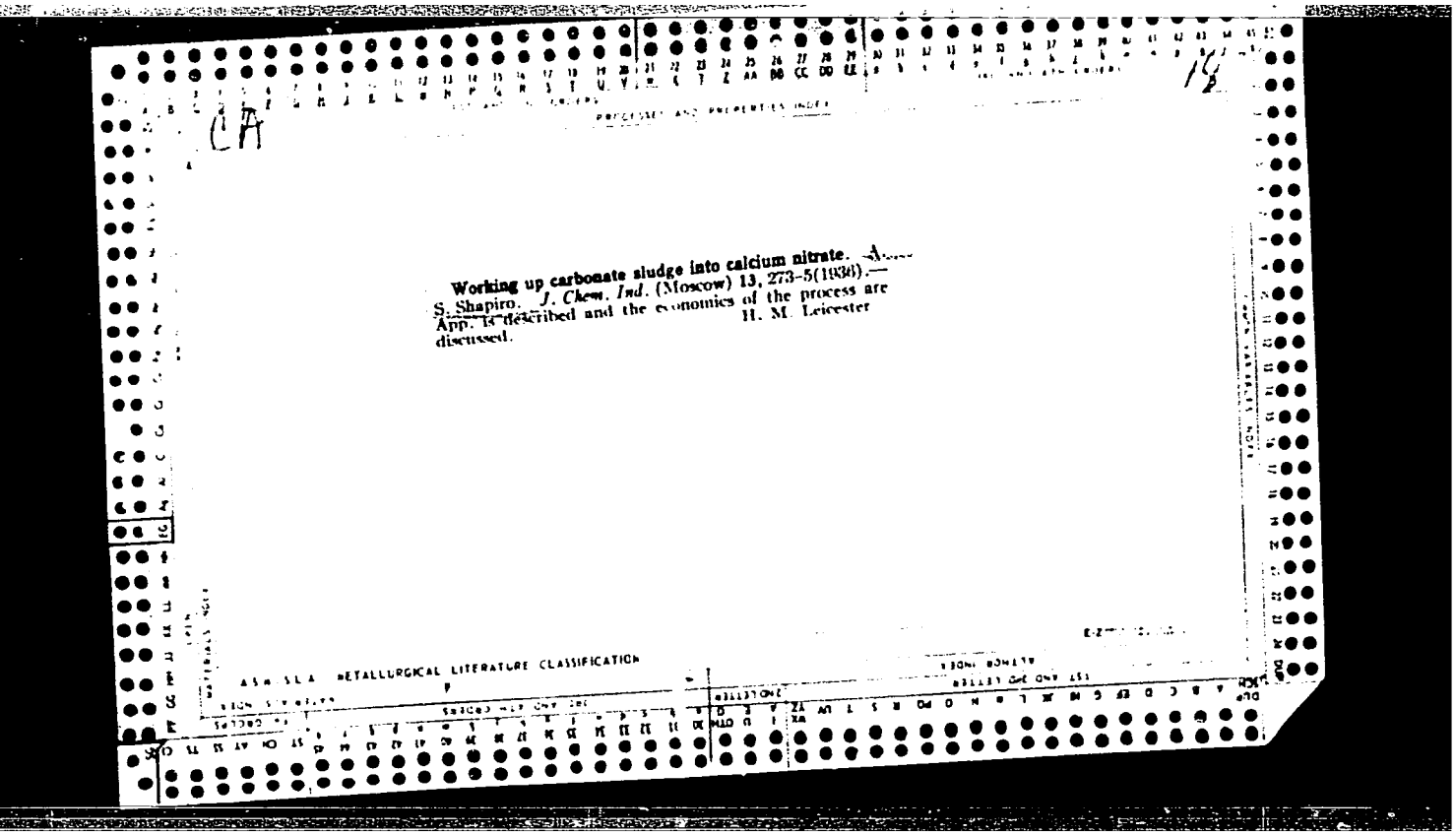
ABSTRACT: This is a contribution to the discussion on the problem on the pages of this journal (1957, Nr 5, pp 47 - 50 and Nr 6, pp 48-51). The present author points out that in the choice of the method of processing hydrogen sulphide, it is imprudent to base it only on prices which often are only conventional, but that the whole regional economy should be taken into consideration. The author discusses the problem of utilisation of recovered H_2S and comes to the conclusion that it should be utilised for the production of sulphuric acid.

ASSOCIATION: GIPROKhIM

AVAILABLE: Library of Congress

Card 1/1

1. Coal gas - Purification 2. Sulfuric acid - Sources 3. Gases - Purification



Working up carbonate sludge into calcium nitrate. —
S. Shapiro. *J. Chem. Ind.* (Moscow) 13, 273–5(1936).—
App. is described and the economics of the process are
discussed. H. M. Leicester

SHAPIRO, A. S. PA 58T17

USSR/Chemistry - Chemical Industry Apr 1947
Chemistry - Planning

"For Complete Fulfillment of the 1947 Plan," A. S. Shapiro, Engr, Ministry Chem Industries USSR, 2 pp

"Khim Prom" No 4

In 1946 production exceeded production for 1945 by 11.4%. Plans for 1947 call for even greater production in all lines of chemical industry. On basis of 1946 production, percentage increase for 1947 must reach: 55% for phosphorous fertilizers, 17% for nitrogen fertilizers, 30.2% for synthetic dyes, — 26.3% for agricultural poisons, and 11% for paints and varnishes. This will cost about 302 million rubles, or some 10.8% more than in 1946.

58T17

SHAPIRO, A. S. FA 34T18

USSR/Chemical Industry Nov 1947

"Socialist Competition and Personnel of the Chemical Industry," A. S. Shapiro, Deputy Chief of the Department of Personnel, Labor and Wages, Ministry of Chemical Industries, USSR, 4 pp

"Khimicheskaya Promyshlennost'" No 11

Long list of accomplishments of personnel in the chemical industries and the medals awarded them for consistently fulfilling their norms in socialist competition.

COM 34T18

BASHUK, M.B.; SHAPIRO, A.S.

Determining the economic effectiveness of capital investments in industrial construction. Khim.prom. no.2:70-75 Mr '54. (MLRA 7:6)

1. Giprokhim. (Chemical plants--Cost of construction)

SHAPIRO, A.S.

Cases of defects in the accelerating relay of electric locomotive units. Elek.i tepl.tiaga 6 no.4:26 Ap '62. (MIRA 15:5)

1. Starshiy master tsekha tekushchego remonta depo Leningrad-Finlyandskiy Oktyabr'skoy dorogi.
(Electric locomotives--Maintenance and repair)

KOBRIN, V.U.; PEREVOZCHIKOV, S.N.; SHAPIRO, A.S., starshiy master

Noncontact back current relay for multiple-unit rail cars.
Elek. i tepl. tiaga no.6:21 Je '62. (MIRA 15:7)

1. Rukovoditeli grupp nauchno-issledovatel'skogo otdela Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta (for Kobrin, Perevozchikov). 2. TSekh tekushchego remonta depo Leningrad-Finlyandskiy (for Shapiro).
(Railroad motorcars)
(Railroads--Electric equipment)
(Electric relays)

SHAPIRO, A.S., inzh.

Locating of insulation breakdown in the power circuit of the ƒ multiple-unit rail car. Elek. i tepl. tiaga no.5:28-30 My '63. (MIRA 16:8)
(Electric railroads—Maintenance and repair)

KASHARSKIY, E.G., kand.tekhn.nauk; MACHIN, Ya.A., inzh.; SOROKINA, A.A., inzh.; SHAPIRO, A.S., inzh.

Switching-in of a 200 Mw. trubogenerator into a network using a self-synchronization method. Elek. sta. 36 no.2:33-34 F '65.

SMIRNOV, A. Sh.

"Case of a Wound of the Bony Labyrinth with Hemorrhage, Requiring Ligature of the Carotid," Vest. Oto-rino-laringol., No. 3, 1948. Otor., Otorhinolaryngological Clinic, Chelyabinsk Med. Inst., -c1948-.

SHAPIRO, A.Sh. (Chelyabinsk)

Effectiveness of some measures taken at a plant for preventing the incidence of tonsillitis. Vest.oto-rin. 19 no.6:94 N-D '57 (MIRA 11:3)
(TONSILS--DISEASES) (INFLUENZA--PREVENTIVE INOCULATION)

SHAPIRO, A.Sh.

Some problems in the evaluation of temporary disability in angina. Zdrav. Ros. Feder. 4 no.12:7-11 D '60. (MIRA 13:12)

1. Iz kliniki kafedry bolezney ukha, gorla i nosa (zav. - prof. A.Kh. Min'kovskiy) Chelyabinskogo meditsinskogo instituta i bol'nitsy "Stroysem'" (glavnyy vrach A.Sh.Shapiro).
(DISABILITY EVALUATION) (RESPIRATORY ORGANS--DISEASES)

SHAPIRO, A.Sh.

Some problems in dispensary service for working patients with chronic tonsillitis. Vest.otorin. 23 no.2:60-64 F '61.
(MIRA 14:4)

1. Iz otorinolaringologicheskoy kafedry (zav. - prof. A.Kh. Min'kovskiy) Chelyabinskogo meditsinskogo instituta.
(TONSILS--DISEASES)

SHAPIRO, A.Sh.

Incidence of tonsillitis in adults. Vest.otorin. no.6:21-26 '61. (MIRA 15:1)

1. Iz otorinolaringologicheskoy kafedry meditsinskogo instituta (zav. - prof. A.Kh. Min'kovskiy), Chelyabinsk.
(TONSILS--DISEASES)

SHAPIRO, A.S.

Phlegmon of the jejunum. Khirurgiia no.12:107 '61.
(MIRA 15:11)

1. Iz khirurgicheskogo otdeleniya (zav. A.S. Shapiro) V.-Volotskoy gorodskoy bol'nitsy No.2 (glavnyy vrach T.S. Uvarova).
(JEJUNUM—DISEASES) (PHLEGMON)

GEYNOVA, L.A.; MATOVSKIY, I.M.; ODINTSOVA, K.P.; SHAPIRO, A.Sh.
(Chelyabinsk)

Prophylaxis for angina incidence at industrial enterprises in Chelyabinsk. Zdrav. Ros. Feder. 7 no.8:30-32 Ag'63.
(MIRA 16:10)

(CHELYABINSK — TONSILS — DISEASES)
(CHELYABINSK — INDUSTRIAL HYGIENE)

Shapiro, A. Sh.

86-58-4-10/27

AUTHOR: Voloshenko, G. F., Major Gen of the Air Force, and Shapiro, A. Sh., Engr-Col

TITLE: Attacking a Target from Below by the Zoom Method (Ataka tseli snizu metodom gorki)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 4, pp 33-34 (USSR)

ABSTRACT: The author states that at altitudes close to service ceiling a better use of combat capabilities of a fighter airplane can be made, if the attack against an aerial target is carried out from below by zooming at it. At altitudes close to service ceiling, the piloting of a aircraft is complicated and the maneuverability is limited. The last 1000 meters of altitude is gained with difficulty. On the other hand, at altitudes 1000 - 1500 m. lower than the service ceiling, the maneuverability of a fighter plane is much better. For that reason the author suggests that the aerial targets, which fly at altitudes close to service ceiling of a fighter plane, should be approached at an altitude 1500 - 2000 m. lower than the service ceiling and then attacked by zooming at them from below. According to the author, this method of attack was often practiced in his unit and the last 1000 - 1500 m. of altitude were gained 5 - 6 times faster than by the coventional method.

AVAILABLE: Library of Congress

Card 1/1 1. Aerial warfare - USSR 2. Aerial targets - Interception

LYAKH, A.A., inzh.; SHAPIRO, A.V., inzh.

Reaping attachment to the SK-3 combine for harvesting low-growing grain crops. Trakt. i sel'khozmash. 30 no.9:38-39 S '60. (MIRA 13:9)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro po samokhodnym kombaynam.

(Combines (Agricultural machinery))

IZAKSON, Kh.I.; SHUMAKOV, V.G.; SHAPIRO, A.V., inzhener-ispytatel'

Main trend of the chief designer. Nauka i zhizn' 29 no.11: 20-26 N '62. (MIRA 16:1)

1. Glavnyy konstruktor Gosudarstvennogo spetsial'nogo konstruktorskogo byuro po samokhodnym kombaynam i samokhodnym shassi (for Izakson).
2. Nachal'nik laboratorii Gosudarstvennogo spetsial'nogo konstruktorskogo byuro po samokhodnym kombaynam i samokhodnym shassi (for Shumakov).

(Agricultural machinery--Design)

PAVILAYNEN, V.Ya., inzh., SHAPIRO, A.V., inzh.

Shallow precast reinforced concrete shells of positive curvature. Bet. i zhel.-bet. 9 no.11:509-512 N '63. (MIRA 17:1)

SHAPIRO, A. YA.

SHAPIRO, A. YA. (Lt. Col. Veterinary Service). The achievements of militaro-veterinary surgery in the years of the Patriotic War.

So: Veterinariya; 23; 2-3; February/March 1946; Uncl.
TABCON

FRANZBURG, A. Yu.; SHAPIRO, A. Ya.

"Bolezni Loshadey, Sbornik Rabot," (Equine Diseases, Collection of Work), Ogiz-Sel'khozgiz, 1947
Compiled by A. Yu. Franzburg and A. Ya. SHAPIRO, under editorship of A. M. Laktionova, State Press for Agric. Literature.

The book is a collection of works on epizootiology, surgery, therapy, and laboratory and clinical practice in the treatment of equine diseases. These works, in the majority of cases, were previously published in the journal "Veterinariya" or in one of the manuals issued by the Vet. Admin. of the Armed Forces USSR.

m

W-9922, 1 May 1950 p 1

SHAPIRO, A. YA.:

"How to guard animals from diseases." Under the editorship of professor YE. F. Liskun. Riga, 1948. 144 pages with illustrations; price 3 rubles, 60 kopeks, 5,000 copies. In Latvian.
SO: Veterinariya; 26(3). March 1949

SHAPIRO, Aleksandr Yakovlevich.

Taking care of the army horse; manual for soldiers and sergeants Moskva, Voen. izd-vo, 1948. (Mic 53-555)
Collation of the original: 83 p.

Microfilm T-13

1. Russia (1923- U.S.S.R.) Kavaleriia - Handbooks, manuals, etc. I. Velikanov, V. D., jt. au.

SHAPIRO, A.B. co-author with F. BORISEVICH, A. VOROVICH, and A. GLUMAKOV of "Veterinary Medicine in the USSR"

So. SELSKO Khozyaystvennaya Entsiklopediya. Vol. 1, Ed. 3, pp 241-274. Moskva. 1949

Ime

SHAFIRO, L. Ya.

Compiled and edited by-

Veterinarnyy entsiklopedicheskiy slovar' (Veterinary Encyclopedic Dictionary). Chief editor, K. I. Skryabin. Moscow. Sel'khozgiz. 1950. Vol 1 (A-M). 640 pages with illustrations.

W-5235

SKRYABIN, K.I., SHAPIRO, A.Ya.

"Veterinary Encyclopedic Dictionary". K.I. Skryabin, Chief Editor. A. Ya. SHAPIRO, Compiler and Editor. Second Volume. Moscow, Sel'khozgiz, 1951. 696 pages with illustrations. Price 40 rubles, bound. 50,000 copies.
SO:Veterinariya, May 1952 uncl de g
Trans. # 155 by L.Lulich

DILANYAN, Zaven Khristoforovich, doktor tekhnicheskikh nauk, professor; SHAPIRO, A.Ya., redaktor; PAVLOVA, M.M., tekhnicheskiy redaktor

[Technology of the diary industry] Tekhnologiia moloka i molochnykh produktov (s osnovami molokovedeniia). Moskva, Gos.izd-vo sel'khoz. lit-ry, 1957. 517 p. (MLRA 10:10)

1. Yerevanskiy zootekhnicheskо-veterinarnyy institut (for Dilanyan)
(Dairy industry)

GINZBURG, Amipadav Gesselevich; IVANOV, Anatoliy Dmitriyevich; GOLOSHAPOV, Yu.N., red.; SHAPIRO, A.Ya., red.; VESKOVA, Ye.I., tekhn.red.; BALLOD, A.I., tekhn.red.

[Organization of veterinary medicine in the U.S.S.R.] Organizatsiia veterinarnogo dela v SSSR. Pod red. IU.N.Goloshapova. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 527 p. (MIRA 11:5)
(Veterinary medicine)

SHAPIRO, A.Ya.

The role of economics in veterinary service. Veterinariia 35 no.3:10-12 Mr '58. (MIRA 11:3)

1. Gosudarstvennyy nauchnyy kontrol'nyy institut po vetpreparatam, starshiy nauchnyy sotrudnik laboratorii ekonomiki veterinarii.
(Veterinary medicine)

SHAPIRO, A.Ya.; EPSHTEYN, N.Ya.

The RTM thermostat. Avtom.i prib. no.3:51-53 Jl-S '62.
(MIRA 16:2)

1. Kiyevskiy zavod kontrol'no-izmeritel'nykh priborov.
(Thermostat)

EPSHTEYN, N.Ya.; SHAPIRO, A.Ya.

The RAS automatic optical electronic refractometer. Avtom.i prib. no.4:54-57 O-D '62. (MIRA 16:1)

1. Kiyevskiy zavod kontrol'no-izmeritel'nykh priborov.
(Refractometer)

ACC NR: AP7004655 SOURCE CODE: UR/0432/66/000/001/0028/0029

AUTHOR: Shapiro, A. Ya.; Epshteyn, N. Ya.

ORG: none

TITLE: AR-3-V general-purpose automatic refractometer

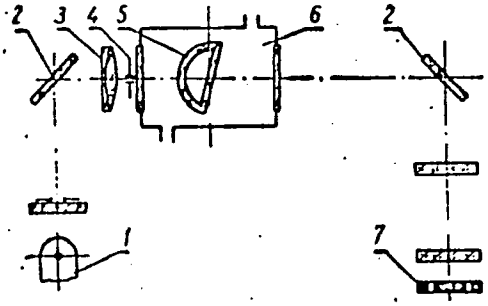
SOURCE: Mekhanizatsiya i avtomatizatsiya upravleniya, no. 1, 1966, 28-29

TOPIC TAGS: laboratory optic instrument, refractometer / AR-3-V refractometer

ABSTRACT: The Kiev Plant of Measuring Instruments is coming up with (a batch production of) a new AR-3-V automatic refractometer which was designed by the Tbilisi Special Design Bureau of Instruments and Automation Means. The refractometer includes an optical system, a power pack, a secondary instrument, and a transformer. Light beam from source 1 (see figure) is reflected by mirror 2 and through objective 3 and rectangular diaphragm 4 goes into test cell 6

Card 1/2 UDC: 535.324

ACC NR: AP7004655



Optical system of the AR-3-V refractometer

and reference cell 5. Thence, the beam is directed onto photoresistor 7 whose halves form the arms of a balanced bridge. Technical characteristics of the refractometer are: measurement range, 0.002 — ∞ n_D units for AR-3-V-1 (with semicylindrical reference cell) and 0.0005 — ∞ n_D units for AR-3-V-2 (with trihedral-prism cell); basic error, 2.5--5%; sensitivity, 1%; linear scale, 0--100; temperature in the test cell, 25--70C. Orig. art. has: 2 figures and 1 table.

SUB CODE: 09, 20 / SUBM DATE: none

Card 2/2

POPLAVSKIY, Yulian Viktorovich, kand. tekhn. nauk; NADEINSKAYA, Ye.P., doktor tekhn. nauk, prof., retsenzent; SHAPIRO, A.Ya., inzh., retsenzent; RYZHOVA, L.P., inzh., red.izd-va; SOKOLOVA, T.F., tekhn. red.

[Technology of the construction of chemical apparatus] Tekhnologiia khimicheskogo apparatostroeniia. Moskva, Mashgiz, 1961. 286 p. (MIRA 15:3)
(Chemical engineering--Equipment and supplies)

EPSHTEYN, N.Ya.; SHAPIRO, A.Ya.

The AKN-57 device for automatic determination of the color of petroleum products in a production flow. Biul.tekh.-ekon.inform. no.8:16-18 '61. (MIRA 14:8)

(Colorimeters)

EPSHTEYN, M.Ya.; SHAPIRO, A.Ya.

Device for automatic determination of the color of petroleum products in a flow. Avtom.i prib. no.1:48-51 Ja-Mr '62. (MIRA 15:3)

1. Kiyevskiy zavod kontrol'no-izmeritel'nykh priborov.
(Petroleum products--Testing) (Colorimeters)

KOZULIN, N.A., prof.; SHAPIRO, A.Ya.; GAVURINA, R.K.; GRIVA, Z.I., red.; LEVIN, S.S., tekhn. red.; ERLIKH, Ye.Ya., tekhn. red.

[Equipment for the production and manufacture of plastic articles] Oborudovanie dlia proizvodstva i pererabotki plasticheskikh mass. Leningrad, Goskhimizdat, 1963. 792 p. (MIRA 17:1)

MIRZOYEV, R.G., kand. tekhn. nauk; SHAPIRO, A.Ya., dots., retsenzent

[Plastic parts for machines and devices; their design, construction and manufacture] Plastmassovye detali mashin i priborov; raschet, konstruirovanie i izgotovlenie. Moskva, Mashinostroenie, 1965. 354 p.
(MIRA 18:2)

L 20715-65 EWT(m)/EWP(b)/EWA(d)/EWP(t) JD/WB

ACCESSION NR: AR3010288 S/0081/63/000/012/0415/0416

SOURCE: RZh. Khimiya, Abs. 12K79

AUTHOR: Shapiro, A. Ya.

B

TITLE: Facing equipment with steel having special properties

CITED SOURCE: Vestn. tekhn. i ekon. inform. N.-i in-t tekhn.-ekon. issled. Gos. kom-ta Sov. Min. SSSR, po khimii, no. 12, 1962, 31-36

TOPIC TAGS: steel corrosion, corrosion protection, metal facing, nickel facing, copper facing, steel facing, chrome steel

TRANSLATION: In the absence of the necessary brands and varieties of clad metal, the consumption of high-alloy steel can be reduced by facing the framework of equipment with sheets of steel having special properties. Successful work with faced equipment (with respect to strength and durability) can be guaranteed by a correct design of the equipment, the selection of a rational structure for the facing, and its proper installation. The best solution is the use of a perforated frame, faced with strips having the calculated dimensions. When the strips are joined by degasation channels, the number of openings in the frame can be reduced a minimum. Thermal phenomena, leading to tensile stress (in faced perforated

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frames) or additional pressure in the space under the facing (in faced hermetically sealed frames), are produced by differences in the coefficients of linear expansion ($a_{fr} \neq a_{fa}$) and temperatures ($t_{fr} \neq t_{fa}$) of the frame and facing. In the case of chrome steel facings, a_{fa} is close to a_{fr} and the reason for the tensile stress is the inequality in temperature. In the case of facing with chrome-nickel steels, both factors are of significance. Only butt welding should be used to fasten the elements of the facing together and to the frame. During tests of faced equipment, pressure should be introduced into the space between the frame and the facing by means of the degasation channels or special holes in the frame. The magnitude of the test pressure is calculated by considering either the pressure during thermal stress (in the case of perforated frames) or the pressure in the gap at the working temperature (for hermetically sealed frames). This approach to the design of facings can also be used during the facing of apparatus, with non-ferrous metals and alloys (Cu, Ni, Monel metal). Author's summary

SUB CODE: MM ENCL: 00

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SHAPIRO, A. YA.

KATSMAN, I. A., Inzh. i LUPAKOV, I. A. inzh., SHAPIRO, A. Ya., Inzh.

Inzhenery Vsesoyuznaya Kontora Tipovogo Proyektirovaniya i Tekhnicheskikh Issledovany (KTIS) Mintyazhstroya.

Otopleniye i Ventilyatsiya Koksovogo Bloka Koksokhimicheskikh Zavodov (instruktsiya Proyektirovaniyu) Page 54

SO: Collection of Annotations of Scientific Research Work on Construction, completed in 1950. Moscow, 1951

SHAPIRO, A.Ya., inzhener; MAKEYEV, M.A.

"High-pressure hydraulic pumps and pump storage stations."
V.A. Mikheev. Reviewed by A.IA. Shapiro and M.A. Makheev.
Vest. mash. 36 no.6:89-91 Je '56. (MLRA 9:10)

(Pumping machinery) (Mikheev, V.A.)

LITVAK, V.I.; SHAPIRO, A.Ya.

Proportional controlling unit. Spirt.prom. 23 no.8:20-22 '57.
(MIRA 11:1)

(Automatic control)

14(7); 5(1) PHASE I BOOK EXPLOITATION SOV/1355

Shapiro, Aleksandr Yakovlevich

Teknologiya remonta oborudovaniya khimicheskikh zavodov (Maintenance of Chemical Plant Equipment (Leningrad, Goskhimizdat, 1958. 367 p. 8,000 copies printed.

Ed.: Chernyavskiy, V.A.; Tech. Ed.: Fomkina, T.A.

PURPOSE: This book is intended as a manual for persons engaged in the chemical, metallurgical, paper, food, and pharmaceutical industries, and may be used as a textbook for students of mechanics in technological vuzes and tekhnikums.

COVERAGE: The author discusses the basic problems of machine and chemical plants. He describes extensively techniques for rebuilding worn parts and assembling and checking methods in repairing such machinery as compressors, pumps, centrifuges, filters,

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mills, crushers, drum-type furnaces, rolls, calenders, mixers, and hydraulic presses. Repair and testing of containers and tubular chemical equipment are dealt with separately. The author thanks Professor N.A. Kozulin, Docents N.M. Ivanov, V.I. Gostev, and N.I. Taganov, Engineers P.G. Udyma, V.A. Chernyavskiy, M.F. Barsukov, M.F. Mikhalev, N.V. Ogarev, and N.I. Kapustin for helpful comments made in reviewing the manuscript. The bibliography contains 118 references, of which 114 are Soviet and 4 English.

TABLE OF CONTENTS:

ZAIKA, A.A.; LITVAK, V.I.; SHAPIRO, A.Ya.

The RU-type induction liquid-level regulator used in vessels.
Biul.tekh.-ekon.inform. no.12:47-48 '58. (MIRA 11:12)
(Liquid level indicators)

LITVAK, V.I.; SHAPIRO, A.Ya.

New electrical controlling unit with proportioanl action. Sakh. prom. 32 no.2:41-44 F '58. (MIRA 11:3)

1. TSentral'noye konstruktorskoye byuro Ukrglavprodmashdetal'.
(Electric controllers)

ZAIKA, A.A.; LITVAK, V.I.; SHAPIRO, A.Ya.

Induction regulator of liquid level in the apparatus. Kons.i ov.prom. 14 no.2:25-26 F '59. (MIRA 12:3)

1. Kiyevskiy zavod radiopriborov (for Zaika). 2. Kiyevskiy zavod kontrol'no-izmeritel'nykh priborov (for Litvak, Shapiro).
(Liquid level indicators)

LITVAK, V.I.; SHAPIRO, A.Ya.; EPSHTEYN, N.Ya.

Automatic photoelectric refractometer. Kons. i ov. prom. 14 no.3:10-15 Mr '59. (MIRA 12:3)

1.Kiyevskiy zavod kontrol'no-izmeritel'nykh priborov.
(Refractometer)

LITVAK, V.I.; SHAPIRO, A.Ya. (Kiyev)

New electric actuating mechanisms with proportional action. Avtom.i telem. 20 no.2:253-256 F '59. (MIRA 12:3)
(Electric driving)

N.KITIN, Yu.V.; S[illegible]OV, V.N.; KOZULIN, N.A.; SHAPIRO, A.Ya.

Infrared heating of sheet thermoplastic. Zhur. prikl. khim. 38 no.4:864-870 Ap '65. (MIRA 18:6)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

KOZULIN, N.A., doktor tekhn.nauk, prof.; LOPACHENOK, B.Ye., inzh.; SHAPIRO, A.Ya., dotsent

Investigating the effect of sliding speed on the coefficient of friction for plastics. Vest.mashinostr. 45 no.3:50-52 Mr '65. (MIRA 18:4)

SHAPIRO, A. Ye.

Certain affections of the hamopoietic system in specific treatment of syphilis. Vest. vener., Moskva no.4:31-32 July-Aug 1951. (CIML 21:1)

1. Of the Department of Syphilology (Head -- Prof. B. B. Geft), Ukrainian Scientific-Research Skin-Venereological Institute (Director --Prof. A. M. Krichevskiy).

SHAPIRO, A.Ye.

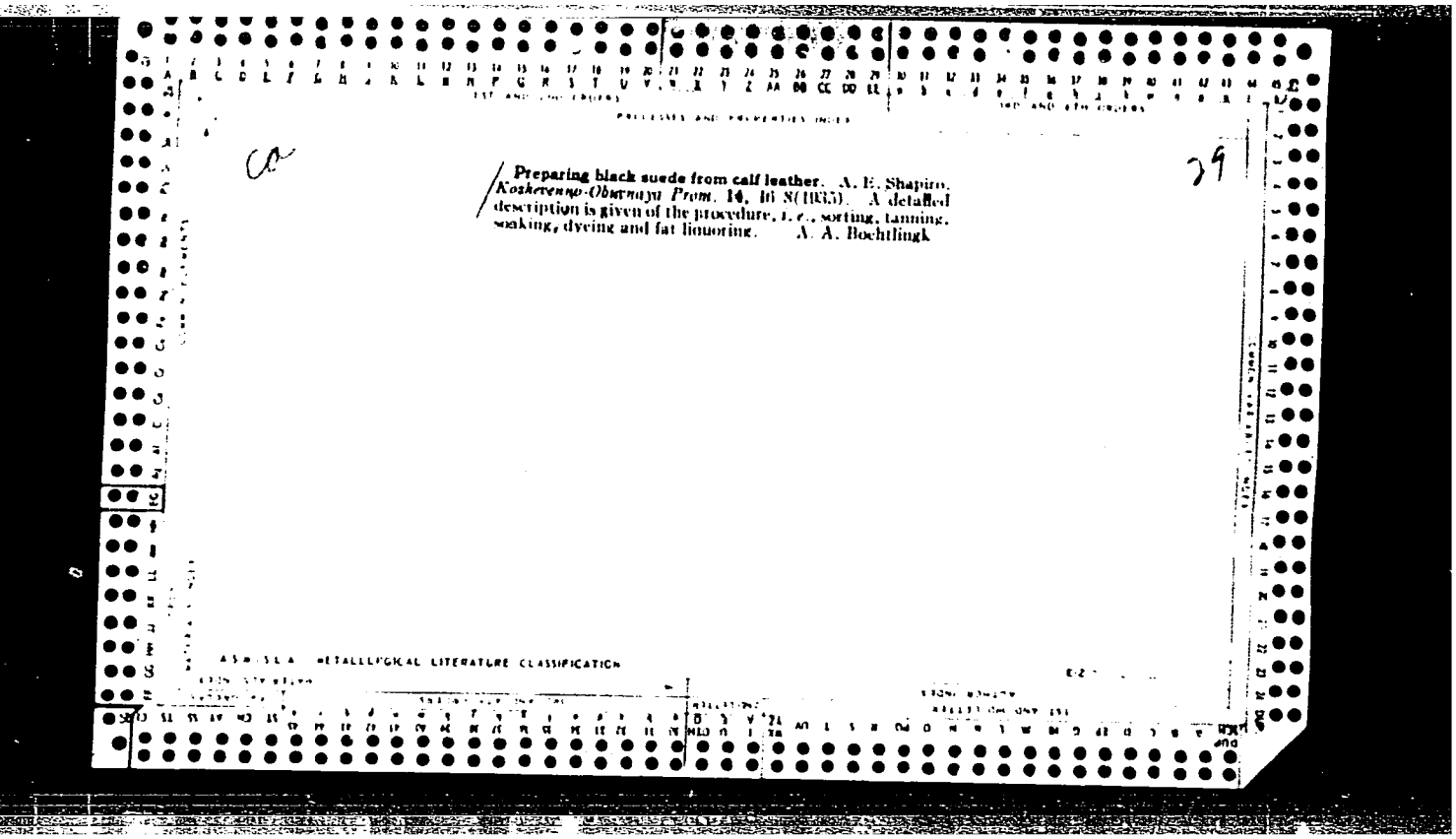
I. F. Zelenev;90th anniversary of birth of the outstanding clinician organizer of the control of venereal diseases. Vest. vener., Moskva no. 4:48-51 July-Aug 1952. (CIML 23:3)

1. Of the Ukrainian Scientific-Research Skin-Venereological Institute (Director -- Prof. A. M. Krichevskiy).

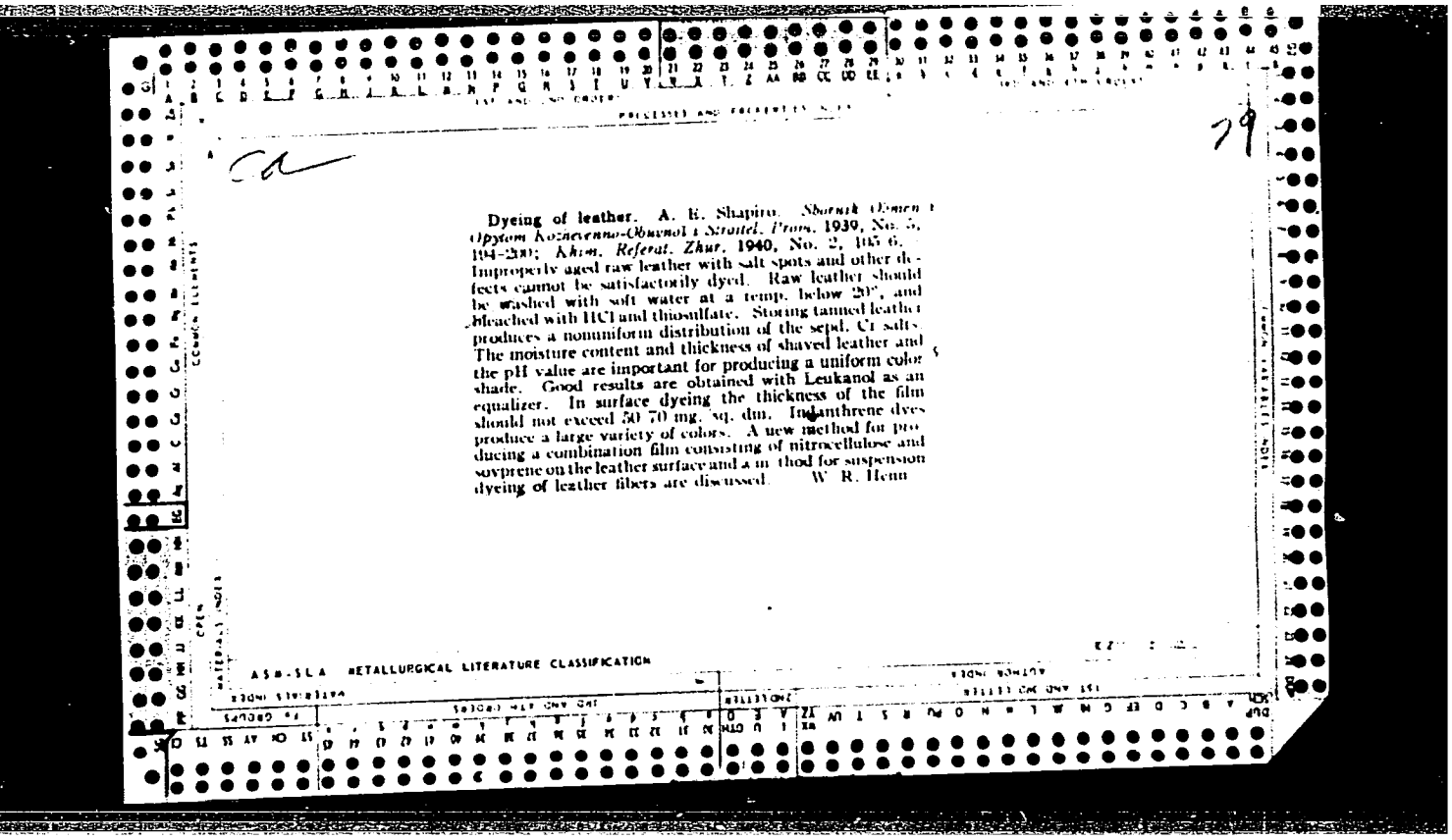
SHAPIRO, A.Ye.

Experience in the treatment of some dermatoses with the ASD preparation. Sovet. med. 26 no.5:138-141 My'63 (MIRA 17:1)

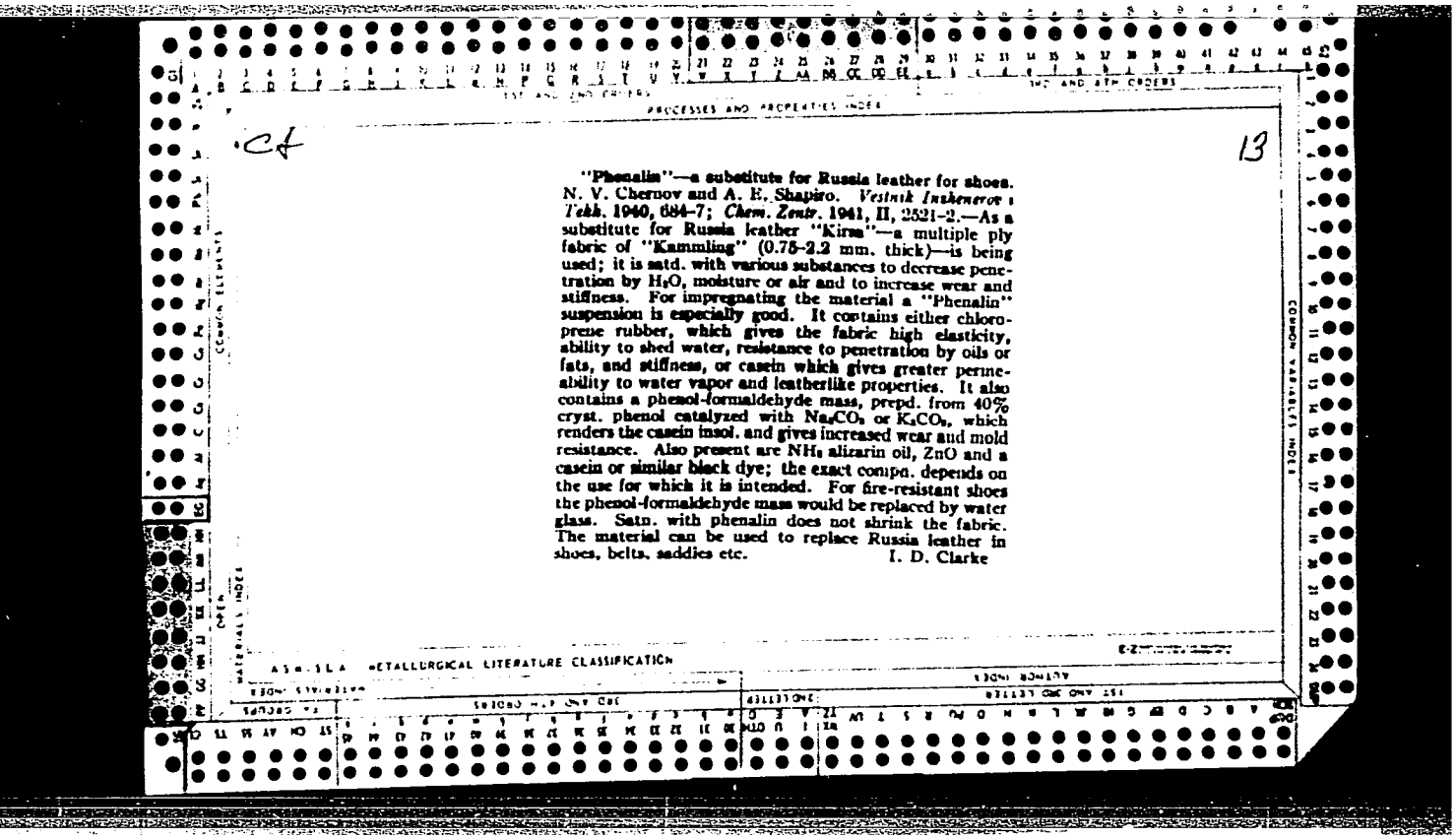
1. Iz kozhno-venerologicheskogo otdeleniya (zav. M.N.Rudayev) 2-y Gorodskoy klinicheskoy bol'nitsy Khar'kova (glavnyy vrach G.A. Mukhina).



Preparing black suede from calf leather. A. E. Shapiro. *Kozhevenno-Obuvnaya Prom.* 14, No 8(1935). A detailed description is given of the procedure, i. e., sorting, tanning, soaking, dyeing and fat liquoring. A. A. Bochtlingk



Dyeing of leather. A. E. Shapiro. *Sbornik Otmen i Opytom Kozevenno-Obuvnoi i Sraitel. Prom.* 1939, No. 5, 194–200; *Khim. Referat. Zhur.* 1940, No. 2, 105–6. Improperly aged raw leather with salt spots and other defects cannot be satisfactorily dyed. Raw leather should be washed with soft water at a temp. below 20°, and bleached with HCl and thiosulfate. Storing tanned leather produces a nonuniform distribution of the sepd. Cr salts. The moisture content and thickness of shaved leather and the pH value are important for producing a uniform color shade. Good results are obtained with Leukanol as an equalizer. In surface dyeing the thickness of the film should not exceed 50–70 mg. sq. dm. Indanthrene dyes produce a large variety of colors. A new method for producing a combination film consisting of nitrocellulose and soyprene on the leather surface and a method for suspension dyeing of leather fibers are discussed. W. R. Henn



PROCESSES AND PROPERTIES INDEX

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"Phenalin"—a substitute for Russia leather for shoes. N. V. Chernov and A. E. Shapiro. *Vestnik Inzhenerov i Tekh.* 1940, 684–7; *Chem. Zentr.* 1941, II, 2521–2.—As a substitute for Russia leather "Kirza"—a multiple ply fabric of "Kammling" (0.75–2.2 mm. thick)—is being used; it is satd. with various substances to decrease penetration by H_2O, moisture or air and to increase wear and stiffness. For impregnating the material a "Phenalin" suspension is especially good. It contains either chloroprene rubber, which gives the fabric high elasticity, ability to shed water, resistance to penetration by oils or fats, and stiffness, or casein which gives greater permeability to water vapor and leatherlike properties. It also contains a phenol-formaldehyde mass, prepd. from 40% cryst. phenol catalyzed with Na_2CO_3 or K_2CO_3, which renders the casein insol. and gives increased wear and mold resistance. Also present are NH_3 alizarin oil, ZnO and a casein or similar black dye; the exact compn. depends on the use for which it is intended. For fire-resistant shoes the phenol-formaldehyde mass would be replaced by water glass. Satn. with phenalin does not shrink the fabric. The material can be used to replace Russia leather in shoes, belts, saddles etc.

I. D. Clarke

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1. SHAPIRO, A. YE.

2. USSR (600)

4. Dyes and Dyeing--Leather

7. Ways of improving the quality of dyeing chrome leather for shoe uppers. Leg. prom. 12. No. 10. 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

1. M'[illegible]EVICH, I. Ya: SHAPIRO, A. Ye

2. [illegible] (600)

4. Russia - Manufactures

7. Guarantee of over-all introduction of advanced methods of operation and repair of equipment. Leg. prom. 12. no. 11. 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

VOL'PERT, G.R.; SHAPIRO, A.Ye.

Scientific substantiation of the methods of liming skins for manufacturing upper chrome leather. Leg.prom. 18 no.10:22-25 O '58. (MIRA 11:11)
(Tanning)

SHAPIRO, A.Ye., kand.tekhn.nauk; PROSHKIN, G.N.

Production of colored calfskin velour. Kozh.-obuv.prom. no.1:35-38 Ja '59. (MIRA 12:6)
(Dyes and dyeing--Leather)

SHAPIRO, A.Ye.

Synthetic products as fat substitutes. Kozh.-obuv.prom. no.10:15-17 O '59. (MIRA 13:2)
(Leather) (Oils and fats)

SHAPIRO, Anatoliy Yefimovich, kand. tekhn. nauk; POLTEROVICH, Meyer Leybovich, kand. ekonom. nauk; MURONETS, I.I., red.; BRUDNO, K.F., tekhn. red.

[German-Russian dictionary for leather and shoe industry] Nemetsko-russkii slovar' po kozhevennoi i obuvnoi promyshlennosti. Moskva, Glav. red. inostr. nauchno-tekhn. slovarei Fizmatgiza, 1960. 405 p. (MIRA 14:5)
(Leather industry--Dictionaries) (Shoe manufacture--Dictionaries)
(German language--Dictionaries--Russian)

SHAPIRO, A.Ye., kand.tekhn.nauk; ULANOV, S.A., inzh.

Depilation without painting in the manufacture of chrome leather from hides. Kozh.-obuv.prom. 4 no.3:29-32 Mr '62. (MIRA 15:5)

(Leather)

SHAPIRO, Anatoliy Yefimovich, kand. tekhn. nauk; KHRENNIKOV, Nikolay Sergeyevich; MOKRETSOV, A.M., red.; PYATNITSKIY, V.N., tekhn. red.

[Safety measures in leather manufacture] Tekhnika bezopasnosti v kozhevennom proizvodstve. Moskva, Gizlegprom, 1963. 291 p. (MIRA 17:2)

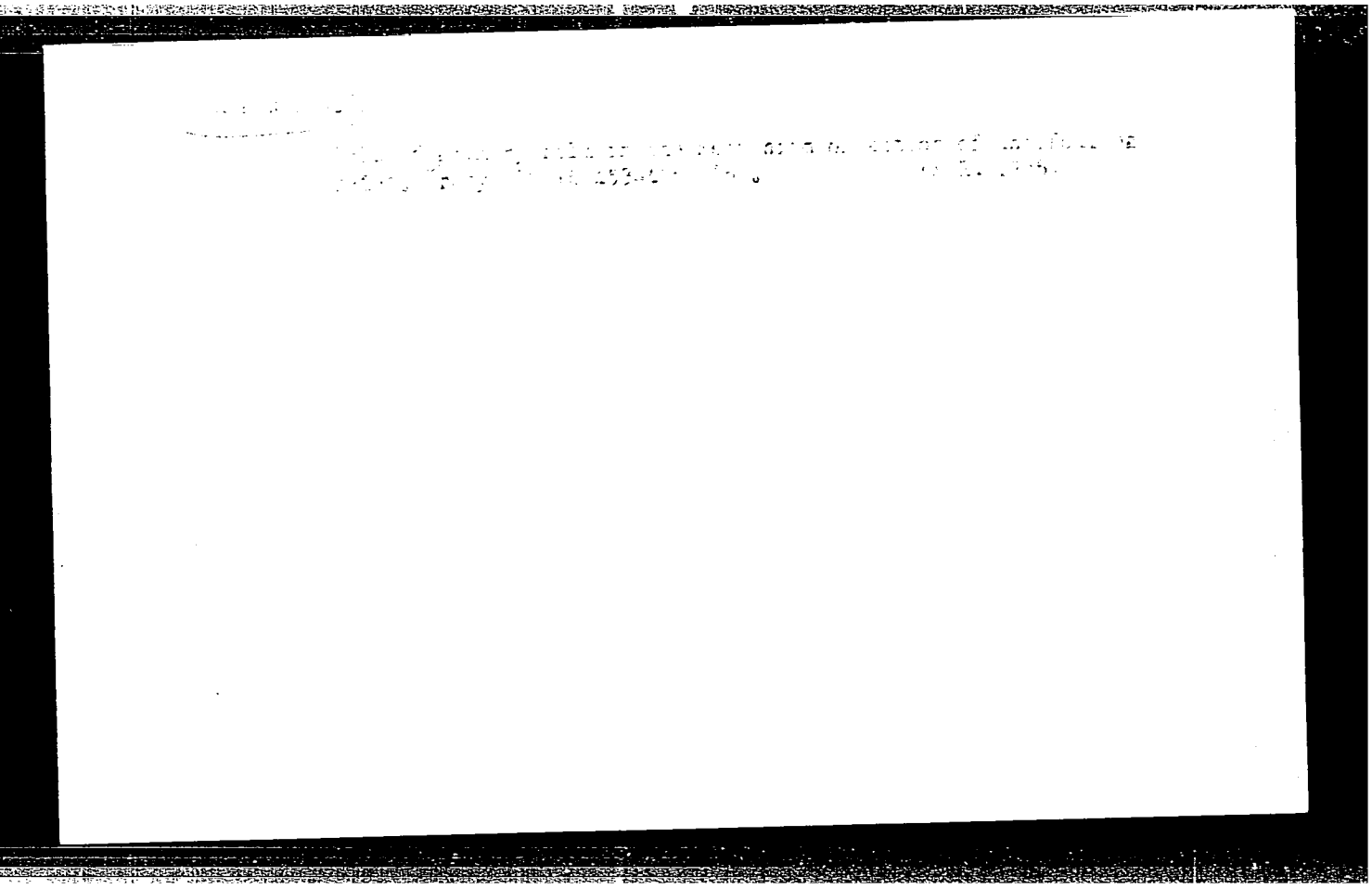
SHAPIRO, A. Ye., kand. tekhn. nauk; SHIFRIN, I. G., inzh.; KOVTUNOVICH, S. D., starshiy nauchn. sotrudnik

"New technological processes in leather manufacture" by P. I. Levenko, M. A. Khelemskii. Reviewed by A. E. Shapiro, I. G. Shifrin, S. D. Kovtunovich Kozh. obuv. prom. 5 no. 12:31-33 D '63. (MIRA 17:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut kozhevenno-obuvnoy promyshlennosti (for Kovtunovich).

DOLGOPOL'SKAYA, M.A.; SHAPIRO, A.Z.; GORBENKO, Yu.A.

Destruction of the film-forming matrix of antifouling paints by marine organisms. Trudy SBS 14:303-308 '61. (MIRA 15:4)
(Marine fouling) (Protective coatings)



SHAPIRO, A.Z.

Effect of some inorganic poisons on respiration in Myrilus galloprovincialis L. Trudy SBS 17:334-341 '64.

(MIRA 18:6)

SHAPIRO, B.

Control over the financial operations of consumers' cooperatives must be strengthened. Fin. SSSR 19 no.2:64-66 F '58. (MIRA 11:3)

1.Starshiy ekonomist Ministerstva finansov Litovskoy SSR.
(Lithuania--Cooperative Societies--Finance)

SHAPIRO, B., inzhener.

Heat treatment of compressor valve plates. Khol. tekh. 33 no.2:62-63 Ap-Je '56. (Odessa--Compressors) (MLRA 9:9)

ZEYNALLY, M.I.; SHAPIRO, B.A.

Flooding the Sub-Kirmaki series in the southern wing of the Mashtagi-Buzovny field. Trudy AzNII DN no.3:148-168 '56. (MIRA 11:6)
(Apsheron Peninsula--Oil field flooding)

DADAYEVA, E.A.; SHAPIRO, B.A.

Some problems in the engineering geological modeling of one of the horizons of the Kirmaki series. Izv.AN Azerb.SSR no.7:27-31 Jl '56. (MLRA 9:10)
(Apsheron Peninsula--Secondary recovery of oil)

ZEYNALLY, M.I.; SHAPIRO, B.A.; BABAYEVA, V.A.; KUZINA, V.V.; KUZNETSOVA, V.G.

Some results of flooding the Kirmaki 11 horizon in the southern depressed section of the Buzovny oil fields. Azerb.neft.khoz. 35 no.10:13-16 O '56. (MLRA 10:1)
(Buzovny--Oil filed flooding)

MIRZADZHANZADE, A.Kh.; BABICH, Yu.A.; SHAPIRO, B.A.

Effect of silt accumulation in filters on the production of wells.
Azerb. neft.khoz. 36 no.9:17-20 S '57. (MIRA 11:2)
(Silt) (Oil wells)

SHAPIRO, B. A., Cand of Geol-Min Sci — (diss) "Rational Working Out of the Trans Kirmakinskiy Formation of the Buzovninskiy Site by Flooding," Baku, 1959, 23 pp (Institute of Geology im I. M. Gubkin, Acad Sci Azerbaydzhan SSR) (KL, 5-60, 124)

SOV/152-59-2-13/32

14(5)

AUTHORS: Musayev, I. M., Shapiro, B. A., Smol'nikov, N. V.

TITLE: Fighting Foreign Waters in the Course of the Exploitation of a Petroleum Deposit (Bor'ba s postoronnimi vodami v protsesse razrabotki neftyanogo mestorozhdeniya). Experiences of the Plant of Kyurovdag NPU "Shirvanneft'" (Iz praktiki promysla Kyurovdag NPU "Shirvanneft'")

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, 1959, Nr 2, pp 53 - 57 (USSR)

ABSTRACT: The main level of extraction in the southwestern branch of the Kyurovdag fold is the level I, which is situated in the upper part of the productive matter. In lithological respects it represents a sequence of sands and clay. Under the petrolific part of the cross section layers of water were discovered, which after the decrease of ohm resistance are marked in the core sampling diagrams. During the investigation of level I water broke through that mainly gathered in the bottom of the level and in lower lying layers. The water possibly broke through because of the connection along the drill shaft between petrolific and water-containing layers. The casting of petroleum cement is an

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Fighting Foreign Waters in the Course of the Exploitation of a Petroleum Deposit. Experiences of the Plant of Kyurovdag NPU "Shirvanneft'"

effective measure to abtain anhydrous petroleum from watery drillings and to lower the percentage of water in the final product. For the casting of the petroleum cement under the conditions prevailing in Kyurovdag no lowering or elevating work has to be done which permits work without elevators and derricks.
There are 2 figures and 1 table.

ASSOCIATION: Azerbaydzhanskiy industrial'nyy institut im. M.Azizbekova (Azerbaydzhan Industrial Institute imeni M.Azizbekov) and NPU "Shirvanneft'"

SHAPIRO, B.A.

Calculating the factor of oil recovery from artifically flooded areas and the change in phase relation in an oil pool of the Sub-Kirmaki main sector in the Buzovny-Mashtagi field. Azerb. neft.khoz. 38 no.11:25-28 N '59. (MIRA 13:5)
(Azerbaijan--Oil reservoir engineering)

GADZHIYEV, G.A.; SHAPIRO, B.A.

Hydrogeological and hydrochemical characteristics of the horizon 1 of the producing formation in the Mishovdag field. Azerb. neft. khoz. 41 no.6:4-7 Je '62. (MIRA 16:1)
(Mishovdag region—Petroleum geology)

GADZHIYEV, G.A.; GUSEYNOV, A.N.; SHAPIRO, B.A.

Role of underground waters in the partial collapse of the pool in horizon 1 of the productive formation of the Kyurovdag oil field. Dokl. AN Azerb. SSR 19:35-40 '63. (MIRA 16:4)

1. Institut geologii AN AzSSR. Predstavleno akademikom AN AzSSR M.V.Abramovichem.

(Kyurovdag region—Oil field brines)