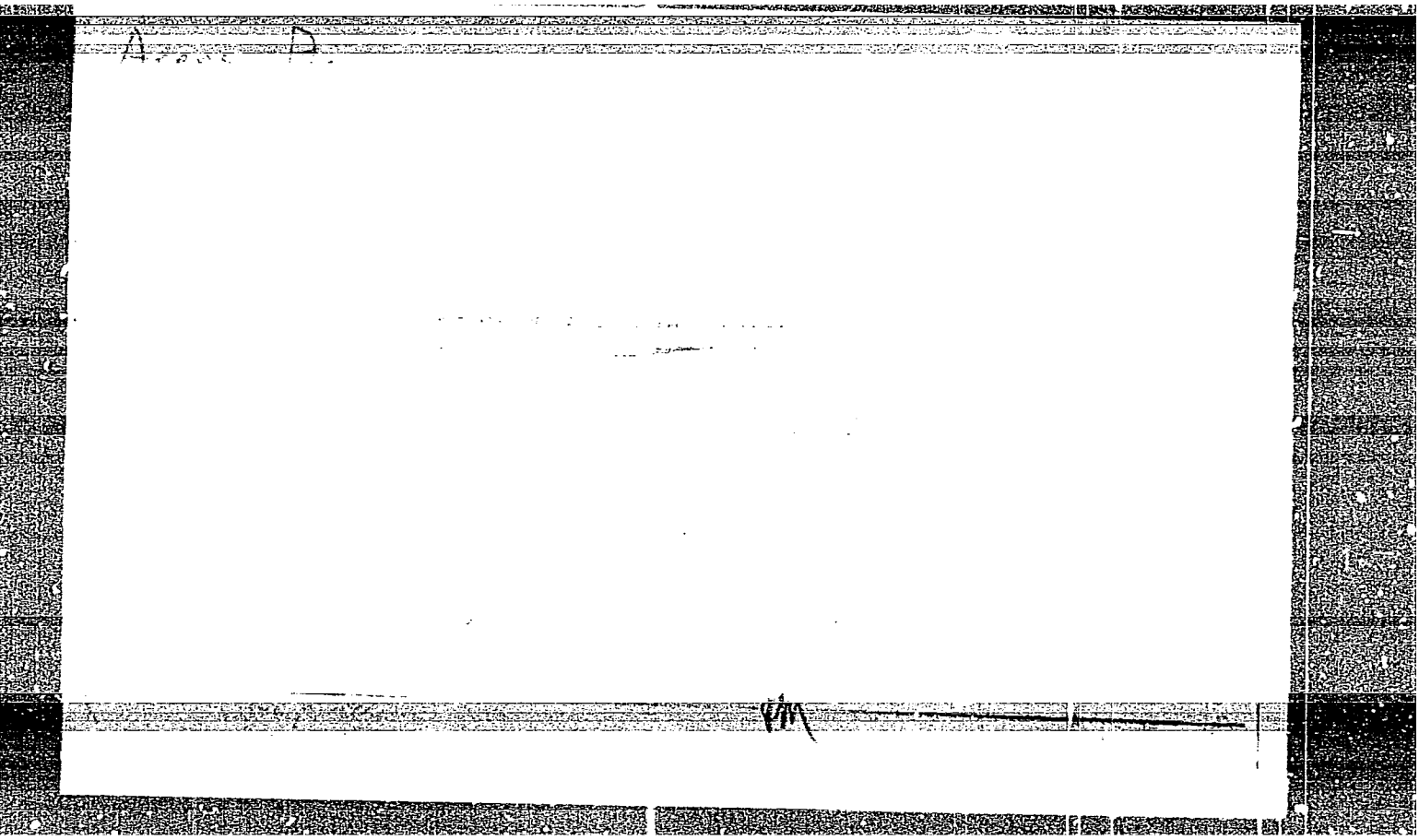


APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201(

ARENS, I.P., , Cand Biol Sci -- (diss) "~~Particularities~~ Peculiarities of the ~~effect~~ of ~~action~~ of nitro-potassium fertilizers upon acidic turfy-podzolic ~~sandy~~ soils." Mos 1958, 18 pp (Min of Higher Education USSR. Mos Order of Lenin and Order of Labor Red Banner State Univ im M.V. Lomonosov) 100 copies (KL, 42-58, 114)

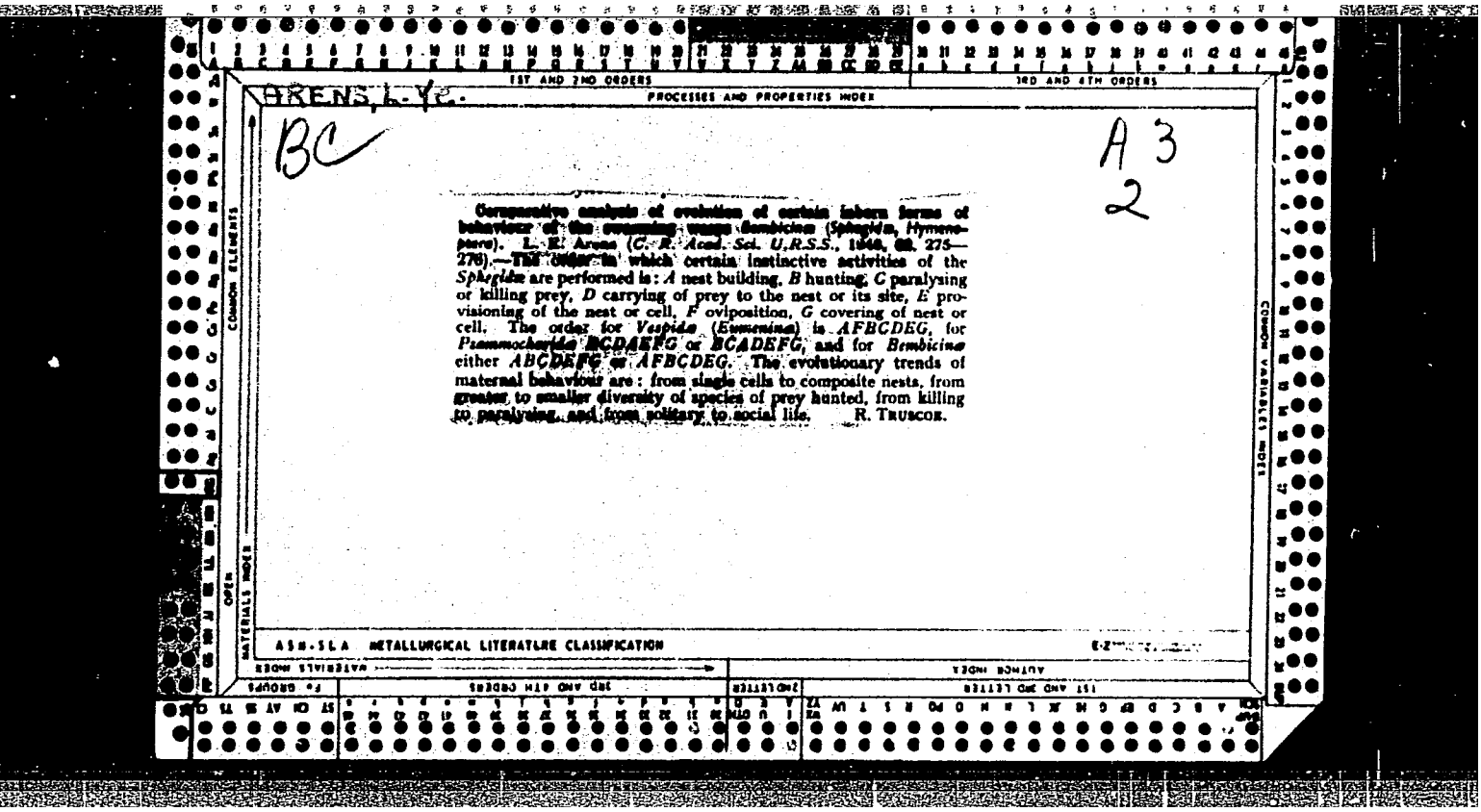
AVDONIN, N.S.; ARENS, I.P.; STEPANOVA, L.N.

Effect of fertilizers on the properties of turf-Podzolic soils.
Pochvovedenie no.9:25-34 S '60. (MIRA 13:9)

1. Moskovskiy gosudarstvennyy universitet.
(Podzol) (Fertilizers and manures)

ARENS, L.Ye.

In memory of Vladimir IUl'evich Fridolin. Izv.Vses.geog.ob-va 88 no.2:198 Mr-Ap '56. (MLRA 9:8)
(Fridolin, Vladimir IUl'evich, d. 1942)



1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

COMMON VARIABLES INDEX

COMMON ELEMENTS

MATERIALS INDEX

OPEN

AUTHOR INDEX

1ST AND 2ND LETTER

3RD AND 4TH ORDERS

2ND LETTER

MATERIALS INDEX

F. GROUPS

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

AKENS, L. Ye.

BC

A 3
2

Comparative analysis of evolution of certain inborn forms of behaviour of the ovipositing wasps *Sembicina* (*Sphegida*, *Hymenoptera*). L. E. Arens (*C. R. Acad. Sci. U.R.S.S.*, 1948, 60, 275–278).—The order in which certain instinctive activities of the *Sphegida* are performed is: *A* nest building, *B* hunting, *C* paralysing or killing prey, *D* carrying of prey to the nest or its site, *E* provisioning of the nest or cell, *F* oviposition, *G* covering of nest or cell. The order for *Vespida* (*Eumenina*) is *AFBCDEG*, for *Psammocharida* *BCDAEFG* or *BCADEFG*, and for *Sembicina* either *ABCDEFG* or *AFBCDEG*. The evolutionary trends of maternal behaviour are: from single cells to composite nests, from greater to smaller diversity of species of prey hunted, from killing to paralysing, and from solitary to social life. R. TRUSCOE.

ARENS, L. E.

PA 37/49T95

USSR/Medicine - Pharmacopoeia
Medicine - Drugs

Feb 49

"Aristolochia Clemalitis L. as a Popular Medicinal Plant," L. E. Arens, 1 p

"Priroda" No 2

Subject plant does not appear in USSR State Pharmacopoeia although it is listed by foreign druggists, e.g., in "Merk's Index". Describes how it was used to heal festering sores in Voronezh Oblast in 1943.

[redacted]

37/49T95

ARENS. L. Ye.

20939 Arens. L. Ye. Dorozhnoye stroitel'stovo i massovaya gibel' pchel. Priroda, 1949, No. 6, s. 62-64.—Bibliogr. 6 nazv.

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949

AREMS, I. Ye.

The Biology and Classification of Nitella Latreille and Other Representatives of the Miscophinae 'Hymenoptera Sphecidae' Dokl. Ak. Nauk SSSR _',68, No. 2, 1949.

Inst. Evol. Phys. and Pathol of Higher Nerve Activity im I. P. Pavlov, Acad. Med. Sci. USSR

ARENS, L. Ye.

"The Behavior of Single Odynerus," Dok. Ak. Nauk SSSR, 70, No. 4, 1950.

I. P. Pavlov Inst. of Evolutionary Physiology and Pathology of the Higher Nerve Activity. USSR Acad. Med. Sci, Koltushi, Leningrad, 1950

ARENS, L.Ye.; ARENS, Ye.L.

Behavior of the wasp Stizoides tridentatus F. (Hymenoptera, Sphecidae). Ent.oboz. 33:190-193 '53. (MLRA 7:5)
(Wasps)

USSR / General and Specialized Zoology. Insects. Physiology and Toxicology. P

Abs Jour : Ref Zhur - Biologiya, No 16, 1958, No. 73569

Author : Arens, L. Ye.
Inst : AS USSR
Title : A Test of the Physiological Analysis of the Behavior Mechanism of Insects (Odynerus) in the Light of the I. P. Pavlov Theory

Orig Pub : Materialy po evolyuts. fiziol., T.2. M.-L., AN SSSR, 1957, 51-59

Abstract : As a result of numerous experiments on and observations of the behavior of the female Odynerus in the period of nest building, it was established that the orienting reactions, which are of primary importance in the life of higher insects, appear (by their external expression) to be exclusively motor and consist of unconditioned and conditioned reflexes (R). In the female groups

Card 1/3

Card 2/3

ARENS, L.Ye.

History of the discovery of wild perennial rye in the Northern Caucasus. Biul. Glav. bot. sada. no.49:115-117 '63. (MIRA 16:8)

1. Gosudarstvennyy zapovednik, Teberda.
(Caucasus, Northern--Rye)

AUTHOR: Arens, V.Zh., Engineer SOV-118-58-10-3/16

TITLE: Hydraulic Coal Mining at the "Polysayevskaya-Severnaya" Mine (Gidrodobycha uglya na shakhte "Polysayevskaya-Severnaya")

PERIODICAL: Mekhanizatsiya trudoyëmkikh i tyazhëlykh rabot, 1958, Nr 10, pp 9 - 12 (USSR)

ABSTRACT: The author describes in detail the method of hydraulic extraction and transportation of coal in the above-mentioned mine, one of the first of its kind in the Union. The coal seam, previously broken up by blasting, is subjected to the action of a powerful water jet. The extracted coal is driven along the gallery by the water flowing from the pipes to the central hydraulic hoisting chamber. After passing through a crusher, the pulp falls into a drainage pit installed in the chamber, and then, is driven by a pulp-sucking pump into a covered settling pit. Through special openings in the walls of this pit, the settled pulp is then released into a receiving pit, and from there is pumped by powerful suction dredge to the dehydrating plant. The

Card 1/2

Hydraulic Coal Mining at the "Polysayevskaya-Severnaya" Mine

average daily production of the mine is 1,000 tons. The cost per ton is much lower than that of coal mined by conventioanl methods. There are 4 diagrams, 1 table and 1 flow chart.

1. Mining--USSR 2. Coal--Production 3. Hydraulic systems--Performance 4. Coal--Handling

Card 2/2

ARENS, V.Zh., inzh.

Characteristics of movement of pieces of ore in open flows in hydraulic conveying. Nauch. soob. IGD 15:145-155 '62.
(MIRA 17:2)

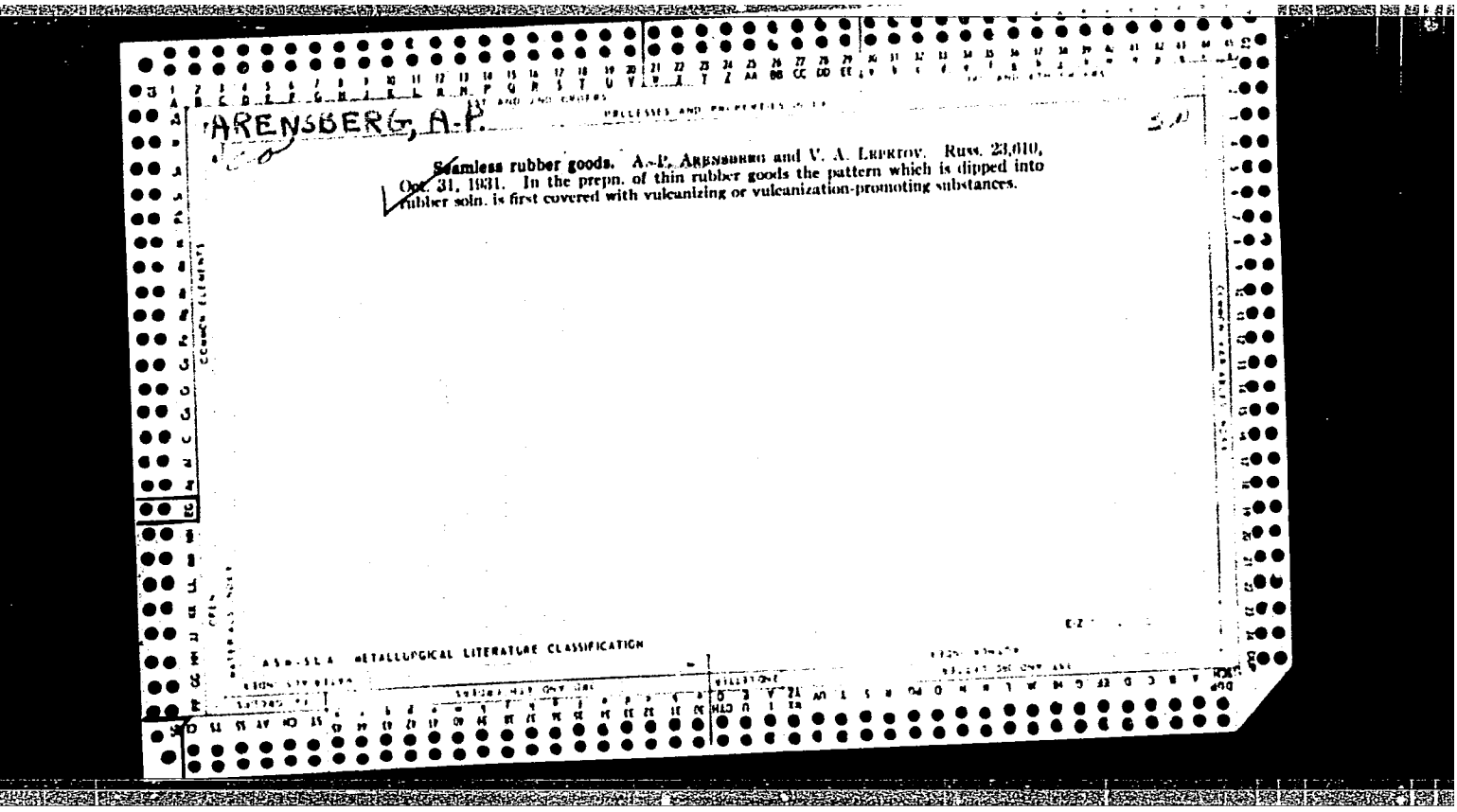
ARENS, L.Ye.; ARENS, Ye.L.

Behavior of the wasp Stizoides tridentatus F. (Hymenoptera, Sphecidae). Ent.obozr. 33:190-193 '53. (MLRA 7:5)
(Wasps)

ZARKHIN, V.A.

KONYUKHOVA, Lidiya Ignat'yevna; ZARKHIN, V.A., retsenzent, kandidat ekonomicheskikh nauk; ARENS, Ye.N., nauchnyy redaktor; TORMOZOVA, L.I., redaktor; DMITRIYEVA, N.I., tekhnicheskiy redaktor

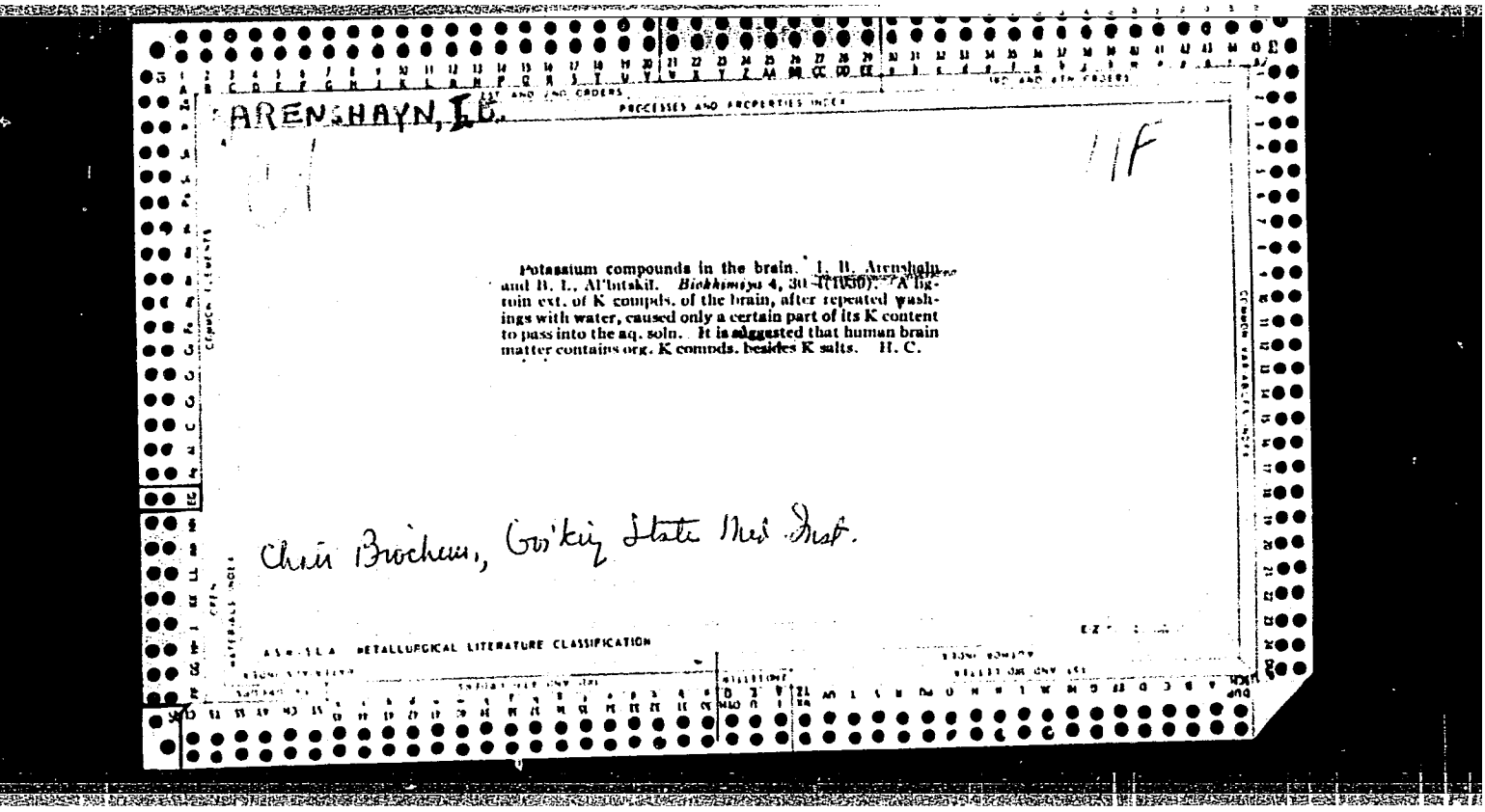
[The economical use of cloth in the production of knitted underwear] Ekonomnoe ispol'zovanie polotna v proizvodstve trikotazhnogo bel'ia. Moskva, Gos. nauchno-tekhn. izd-vo M-va legkoi promyshl. SSSR, 1957. 77 p. (MLRA 10:4)
(Underwear) (Knit goods)



ARENSBERG, A.-P.

Seamless rubber goods. A.-P. Arensberg and V. A. Lepkrov. Russ. 23,010, Oct. 31, 1931. In the prepn. of thin rubber goods the pattern which is dipped into rubber soln. is first covered with vulcanizing or vulcanization-promoting substances.

A.S.M.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION



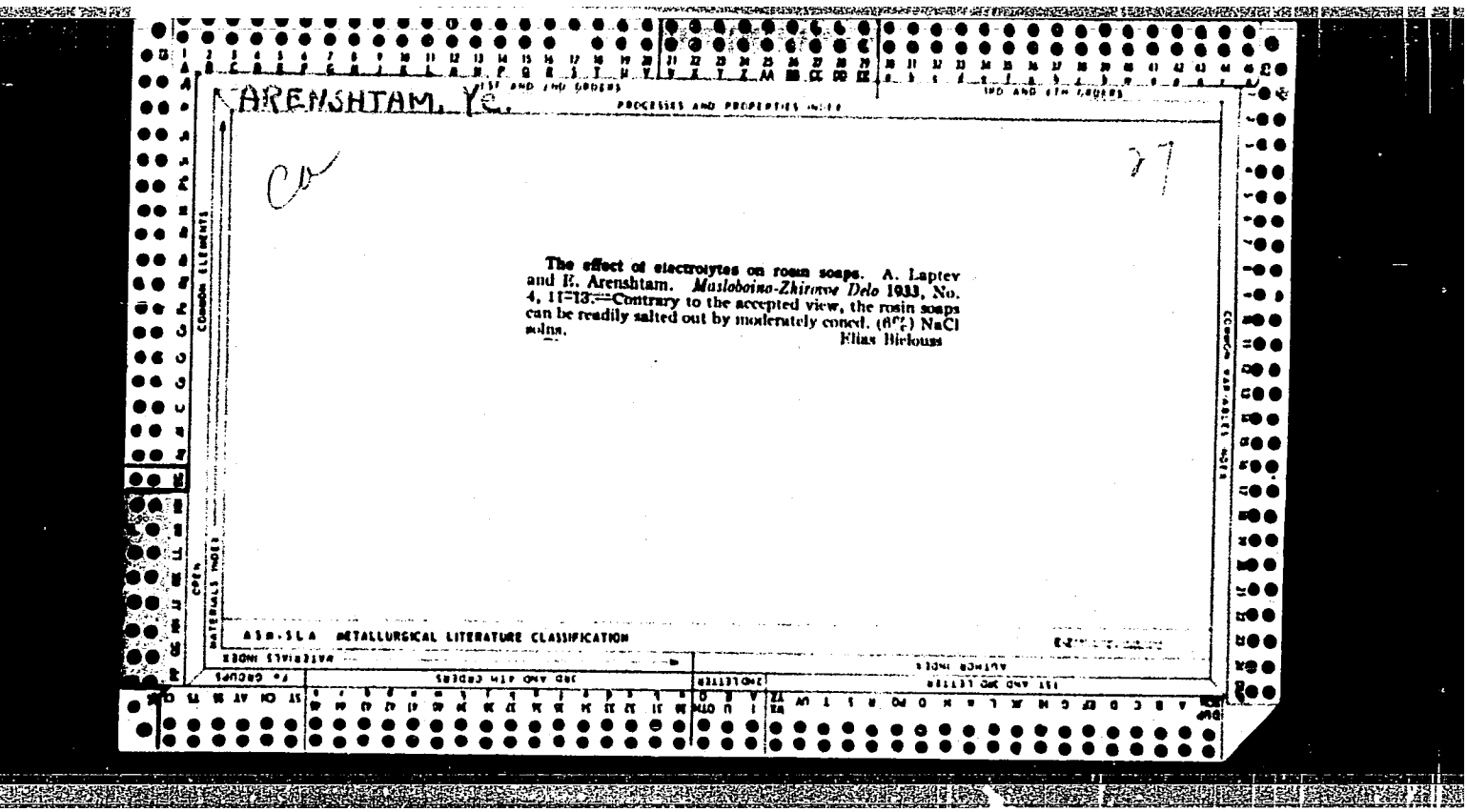
ARENSHAYN, I.B.

11F

Potassium compounds in the brain. I. B. Arenshayn and B. L. Al'butskil. *Biokhimiya* 4, 30-4(1939). A digestion ext. of K compds. of the brain, after repeated washings with water, caused only a certain part of its K content to pass into the aq. soln. It is suggested that human brain matter contains org. K compds. besides K salts. H. C.

Chair Biochem, Gor'kiy State Med Inst.

ASTIA METALLURGICAL LITERATURE CLASSIFICATION



ARENSHTAM, Ye.

CA

27

The effect of electrolytes on rosin soaps. A. Laptev and E. Arenshtam. *Maslobolno-Zhirovoe Delo* 1933, No. 4, 11–13.—Contrary to the accepted view, the rosin soaps can be readily salted out by moderately concd. (6%) NaCl soln.

Elias Bielouss

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

ARENSHTEYN, A.M.

Methods for a quantitative calculation of the micropopulation of potable water and an evaluation of the quality of the water on the basis of biological indexes. Trudy probl.i tem.sov.no.1:116-120 '51.(Fresh-water biology) (Water--Analysis) (MLRA 9:7)

CA ARENSHTEYN, A.M.

Control of quality of drinking water by means of biological indexes. A. M. Arenshtein. *Gigiena i Sanit.* 1951, No. 6, 12-14.—Microscopic examination of drinking water and estn. of the no. of microorganisms in it constitute a satisfactory method for detn. of quality of the water. The method is particularly useful for estn. of the relative efficiencies of various methods of water purification.

G. M. Kosolapoff

ARENSHTEYN,A.M.; LAZAREVA,M.F.

Overgrowth on the heat exchange apparatus of electric power stations as related to impurities in the source of water supply. Vod. i san. tekh. no.4:18-20 Jl'55. (MLRA 8:12)
(Electric power plants)

ARENSHTEYN, A. M

USSR / Chemical Technology. Chemical Products and Their Application

I-14

Water treatment. Sewage water.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31741

Author : Arenshteyn A. M.

Title : Concerning the Nature of the Smell of Water

Orig Pub: Gigiyena i sanitariya, 1956, No 3, 45-46

Abstract: Plankton organisms are capable of producing, while alive, substances (of undetermined chemical nature), which cause the specific odors of water and which luminesce in ultraviolet light. On conventional purification of water the concentration of these substances is decreased but they are not completely removed.

Card 1/1

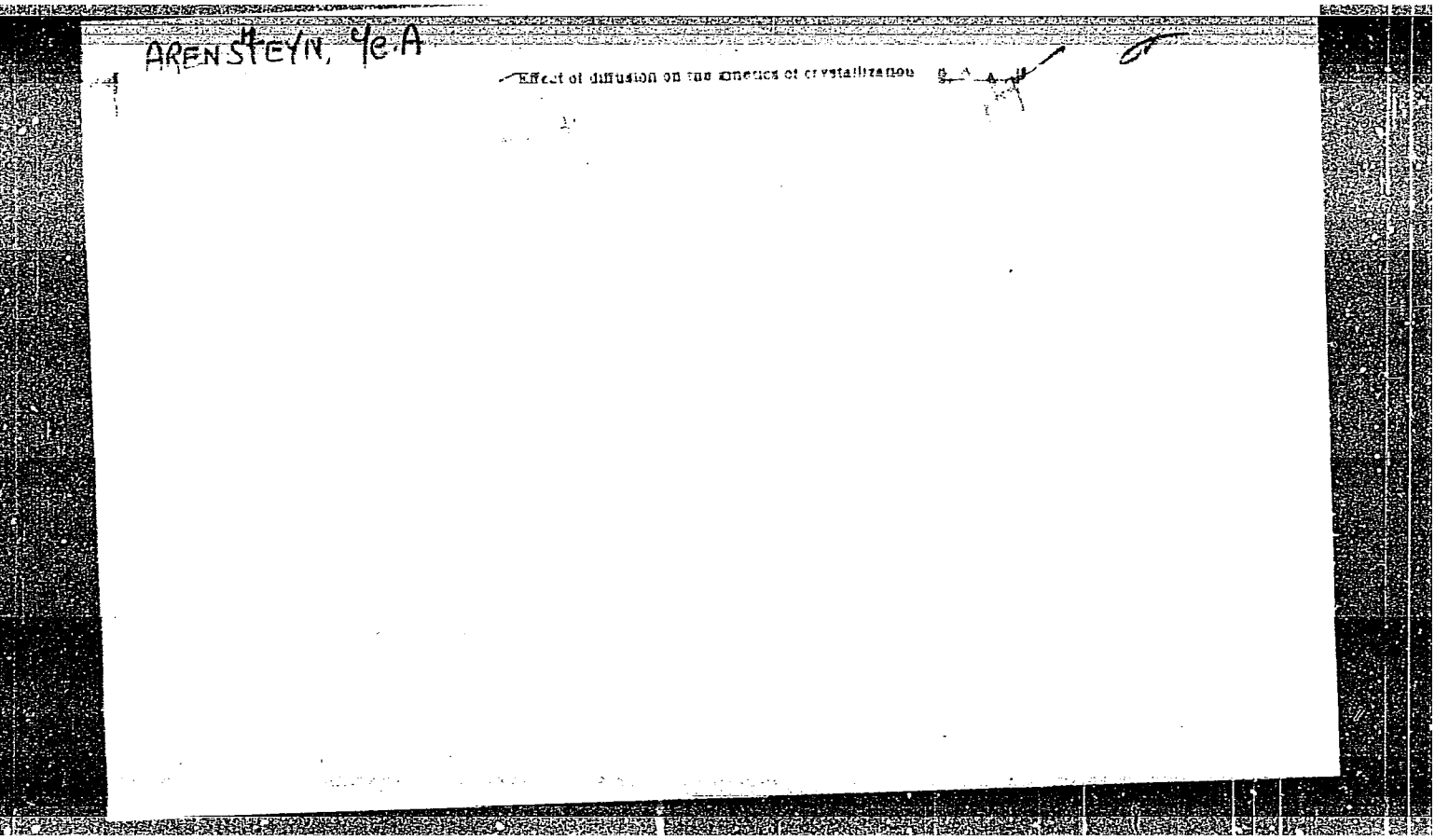
ARENSHTEYN, A.M.; ANTIPOVA, P.S.

Growth of micro-organisms in waste waters containing hexogen. (MIRA 11:7)
Vod. i san. tekh. no. 7:15-16 Jl '58.
(Hexogen)
(Sewage--Bacteriology)

ARENSHTEYN, A.M.

Role of Azotobacter in the biological purification of petroleum waste. Mikrobiologiia 30 no.2:304-307 Mr-Ap '61. (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya, kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrogeologii.
(PETROLEUM WASTE) (AZOTOBACTER)



ARENSON, I.M.; FILATENKOV, V.F.

Use of wood-laminated plastic in a corrosive medium.
Bum.prom. 35 no.6:20 Je '60. (MIRA 13:7)
(Leningrad--Paper industry--Equipment and supplies)
(Plastics)

ARENSON, R.I.

ALIYEV, Teymur Movsum Ogly; MIRZOYAN, Sergey Semenovich; ARENSON, R.I., retsenzent, redaktor; LAVRUSHKO, P.N., retsenzent; KORNEV, M.I., redaktor; PETROVA, Ye.A., vedushchiy redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor

[Machines and mechanical devices for petroleum production] Mashiny i mekhanizmy dlia dobychi nefti. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1957. 461 p. (MIRA 10:4)
(Petroleum industry--Equipment and supplies)

ARENSON, R.I., inzhener.

The AD-25 device used for screwing and unscrewing pump compressor pipes. Bezop.truda v prom. 1 no.6:28-30 Je '57. (MLRA 10:7)

(Oil fields--Equipment and supplies) (Pipe fitting)

ARENSON R.I.

LAVRUSHKO, Petr Nesterovich; ARENSON, Rafail Illich; GOR'KOVA, A.A., vedushchiy red.; FEDOTOVA, I.G., tekhn.red.

[Maintenance of equipment for extracting petroleum] Tekushchii remont oborudovaniia dlia dobychi nefti. Moskva, Gos. nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1958. 227 p. (MIRA 11:5)

(Petroleum industry--Equipment and supplies--Maintenance and repair)

ABRAMOV, M.A.; ALIVERDIZADE, K.S.; AMIROV, Ye.M.; ARENSON, R.I.; ARSEN'YEV, S.I.; BAGDASAROV, R.M.; BAGDASAROV, G.A.; BADAMYANTS, A.A.; DANIYELYAN, G.N.; DZHAFAROV, A.A.; KAZAK, A.S.; KERCHENSKIY, M.M.; KONYUKHOV, S.I.; KRASNOBAYEV, A.V.; KURKOVSKIY, A.I.; LALAZAROV, G.S.; LARIONOV, Ye.P.; LISTENGARTEN, M.Ye.; LIVSHITS, B.L.; LISIKYAN, K.A.; LOGINOVSKIY, V.I.; LYSENKOVSKIY, P.S.; MOLCHANOV, G.V.; MAYDEL'MAN, N.M.; OKHON'KO, S.K.; ROMANIKHIN, V.A.; ROSIN, I.I.; RUSTAMOV, E.M.; SARKISOV, R.T.; SKRYPNIK, P.I.; SOBOLEV, N.A.; TARATUTA, R.N.; TVOROGOVA, L.M.; TER-GRIGORYAN, A.I.; USACHEV, V.I.; FAYN, B.P.; CHICHEROV, L.G.; SHAPIRO, Z.L.; SHEVCHUK, Yu.I.; TSUDIK, A.A.; ABUGOV, P.M., red.; MARTYNOVA, M.P., vedushchiy red.; DANIYELYAN, A.A.; TROFIMOV, A.V., tekhn.red.

[Oil field equipment; in six volumes] Neftianoe oborudovanie; v shesti tomakh. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Vol.3. [Petroleum production equipment] Oborudovanie i instrument dlia dobychi nefti. 1960. 183 p. (MIRA 13:4)

(Oil fields--Equipment and supplies)

ARENSON, Rafail Il'ich. Prinimal uchastiye SOKOLOVSKIY, S.M.; MOLOSTOV, V.S., inzh., retsenzent; MURAV'YEV, V.M., inzh., retsenzent; SAVINA, Z.A., ved. red.; POLOSINA, A.S., tekhn. red.

[Oil-field machinery and mechanisms] Neftepromyslovye mashiny i mekhanizmy. Moskva, Gostoptekhizdat, 1963. 436 p. (MIRA 16:11)

1. Prepodavatel' Groznenskogo neftyanogo tekhnikuma (for Molostov).

(Petroleum production—Equipment and supplies)

ARENT, Yuriy Gustavovich [Arent, J.]; TSALITIS, A.A.[Calitis, A.], aspirant; ZAPIVAKHIN, A.I., red.; SOKOLOVA, N.N., tekhn. red.

[School of progressive practice] Shkola peredovogo opyta. Moskva, Sel'khozizdat, 1962. 150 p. (MIRA 15:6)

1. Direktor oporno-pokazatel'nogo khozyaystva "Vetsautse" Dobel'skogo rayona Latviyskoy SSR (for Arent). 2. Latviyskaya sel'khozyaystvennaya akademiya (for TSalitis).
(Dobele District--Agricultural experiment stations)

ARENTS, J.; Prinimal uchastiye CALITIS, A.; NEILANDE, A.[translator]; LIELPETERE, M.[translator]; DIMDINS, J., red.; SPORANE, V., tekhn. red.

[School for leading workers] Pirmrindnieku pieredzes skola. Riga, Latvijas valsts izd-ba, 1962. 137 p. (MIRA 17:1)

1. Direktor pokazatel'nogo khozyaystva "Vecauce" Dobel'skogo rayona Latviyskoy SSR (for Arents).

VARABICHEVA, Z.I.; AREN'YEV, L.I., glavnyy inzhener

Centenary of the linen factory called "October Revolution".
Tekst. prom. 19 no.6:65-67 Je '59. (MIRA 12:9)

1.Direktor l'no fabriki imeni Oktyabr'skoy revolyutsii (for Varabicheva).
(Kostroma--Textile factories)

ACCESSION NR: AP4010253 S/0138/63/000/012/0014/0021

AUTHORS: Sakhnovskiy, N. L.; Yevstratov, V. F.; Aranson, N. M.; Reznikovskiy, M. M.; Grigorovskaya, V. A.

TITLE: Some peculiar properties of protective rubbers from stereoregular butadiene rubber SKD

SOURCE: Kauchuk i rezina, no. 12, 1963, 14-21

TOPIC TAGS: rubber, stereoregular rubber, butadiene rubber, polymer, SKD rubber, plasticity, physicochemical properties, BSK rubber, wear, fatigue, abrasive wear, thermo oxidative resistance, deformation

ABSTRACT: Protective rubbers from 100% SKD, vulcanized for 50 minutes at 143C, were rated below natural rubber and BSK rubber, but possessed satisfactory heat resistance. Combinations with other rubbers, especially with isoprene rubbers in a 1:1 ratio, result in superior strength, but lower the heat resistance. At room temperature SKD rubbers surpass natural rubber in elasticity, but at 100C the trend is reversed. While being listed below natural rubber in resistance to expansion of cracks, the SKD rubber showed in road tests a high resistance to crack formation. Unfilled SKD protective rubbers proved superior to natural rubber and BSK

Card 1/2

ACCESSION NR: AP4010253

(europrene) rubber in resistance to wear, which is to a large extent attributed to a low coefficient of surface friction. It was found that SKD rubbers possessed a high degree of resistance to thermo-oxidative processes associated with abrasion, as well as with thermal aging. The destruction of the surface layer of SKD rubber sets in after a far greater number of deformation cycles as compared with natural rubber. It is concluded that under severe test conditions protective vulcanizates from SKD rubber would offer great advantages over compounds on the base of natural and BSK rubbers. Orig. art. has: 6 tables, 2 charts, and 2 pictures.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promy*shlennosti (Scientific Research Institute of the Tire Industry)

SUBMITTED: 00 DATE ACQ: 03Feb64 ENCL: 00

SUB CODE: CH NO REF SOV: 005 OTHER: 006

Card 2/2

SAKHNOVSKIY, N.L.; YEVSTRATOV, V.F.; ARENZON, N.M.; REZNIKOVSKIY, M.M.; GRIGOROVSKAYA, V.A.

Some characteristics of the properties of tread rubber prepared from synthetic stereoregular butadiene rubber. Kauch. i rez. 22 no.12:14-21 D '63. (MIRA 17:9)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

SHVARTS, A.G.; FROLIKOVA, V.G.; ARENZON, N.M.; TYURINA, V.S.

Basic requirements for rubber for the membranes of forming and vulcanizing units. Kauch. i rez. 23 no.1:24-27 Ja '64. (MIRA 17:2)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

A L 11777-66 EWT(m)/EWP(j) RM

ACC NR: AP6001090 SOURCE CODE: UR/0138/65/000/012/0002/0005

AUTHOR: Yevstratov, V. F.; Buyko, G. N.; Arenzon, N. M.; Sakhnovskiy, N. L.; Karmanova, A. I.

ORG: Scientific Research Institute of the Tire Industry (Nauchno-issledovatel'skiy institut shinnoy promyshlennosti)

TITLE: Effect of the degree of filling with carbon black and softener on the properties of tread rubber from stereoregular butadiene rubbers

SOURCE: Kauchuk i rezina, no. 12, 1965, 2-5

TOPIC TAGS: butadiene styrene rubber, nitrile rubber, carbon, synthetic rubber, vehicle component, wear resistance

ABSTRACT: The effect of the degree of filling with carbon black and softener on the properties of vulcanizates and wear resistance of truck and passenger-car tires under various conditions of service was studied. Three groups of mixtures were studied: 100% SKD; SKD + NK (70:30), and SKD + BSK (europrene 1712) (1:1). KhAF carbon black and PN-6 (petroleum oil) softener were employed. The workability of the mixtures improved substantially with the degree of filling; this was particularly apparent in the case of 100% SKD. A satisfactory extrudability is achieved at a carbon black content of about 80 pts. by wt. and about 30—40 pts. by wt. of PN-6 softener. Good properties of SKD + NK and SKD + BSK mixtures were obtained at 60 pts. by wt. of carbon black and 15—18 pts. by wt. of the softener. On the basis of the results, tread rubber compositions were developed for truck and passenger-car

Card 1/2 UDC: 678.762.2.063.004.12

L 11777-66

ACC NR: AP6001090

tires. Orig. art. has: 3 figures and 3 tables.

SUB CODE: 11 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 008

H.W

Card 2/2

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201(

PINSKAYA, R.M.; BASHTA, A.S., EPSHTEYN, P.D.; ROSLIK, S.M.; ARENZON, P.Ya.; KORSUNSKYA, R.M.; VASINA, I.N.; CHEKRYGINA, N.I.; VISHNEVSKAYA, Z.Ya.; KUL'CHITSKAYA, I.Ya.

Treatment of patients with tuberculous meningitis without subarachnoid administration of antibacterial preparations. Probl.tub. 38 no.1:60-67 '60. (MIRA 13:10)
(MENINGES—TUBERCULOSIS)

SOV/110-58-11-13/28

AUTHORS: Arenzon, S.I. (Engineer), and Dobrer, Ye.K. (Engineer).

TITLE: The Impulse Strength of Impregnated Paper Insulation (Impul'snaya prochnost' propitannoy bumazhnoy izolyatsii).

PERIODICAL: Vestnik Elektropromyshlennosti, Nr.11, 1958, pp.44-47. (USSR)

ABSTRACT: This article reviews available published data on the impulse strength of impregnated paper insulation. It is largely based on foreign works. The thickness of the paper has an important influence on the impulse strength of insulation. Fig.1 gives values of the impulse strength of cables of the mass-impregnated, oil-filledand gas-filled types, showing that a decrease in paper thickness from 0.1 to 0.02 mm increases the impulse stress from 100 to 150 kV/mm. (Peak values are quoted throughout). The relationship between the impulse breakdown voltage of oil-paper insulation and the size and number of oil channels formed by the gaps between neighbouring turns of paper, was determined during tests on specimens with an insulation thickness of about 1 mm. The relationship is plotted

Card 1/4

The Impulse Strength of Impregnated Paper Insulation.

in Fig.2. The influence on the impulse strength of transformer oil of the oil layer thickness and of the wave-shape is shown by tabulated data. Not much work has been done on the effect of the impregnating compound on the impulse strength of oil-paper insulation. The method of applying the paper tapes, thewidth of gaps between tapes, the impregnation technique, and other manufacturing factors are discussed, in relation to the impulse strength of these cables. The impulse breakdown strength of oil-paper insulation is little affected by the voltage wave-shape, but the use of chopped waves reduces the impulse strength by about 10%. The above data shows that the maximum impulse strength of oil-paper insulation lies in the range 90 - 150 kV/mm. These results were mostly obtained on laboratory samples and it was of interest to compare them with results obtained on production cables. An examination was therefore made of the results of tests on 110- and 220-kV high- and low-pressure oil-filled cables. The main design features and the number of test specimens are charted in Figs.

The Impulse Strength of Impregnated Paper Insulation.

3A and 3B. The construction of the cables and the test procedure are described. The highest impulse strength was possessed by a 220-kV high-pressure cable wound with paper 0.02 mm thick of density 1.2 g/cc; for this cable the mean breakdown stress was 76 kV/mm and the maximum breakdown stress at the conductor was 120 kV/mm. The influences of the internal pressure and the viscosity of the oil may be followed from test results on 110-kV cables. It was found that the density and thickness of the paper and the quality of manufacture had important influences on the impulse breakdown strength. From the data given it is possible to evaluate the impulse breakdown stress in products manufactured under ordinary factory conditions. The impulse breakdown strength of oil-filled cables for 110- and 220-kV, of both high- and low-pressure types, is in the range 60 - 75 kV/mm for mean breakdown stress, and 90-120 kV/mm for maximum breakdown stress. These figures are similar to those published elsewhere, for example in the U.S.A. Further

 increase in the impulse strength of cables with oil-

The Impulse Strength of Impregnated Paper Insulation.

paper insulation can be achieved by more careful manufacture and by the use of thinner and denser paper for the internal layers of insulation; also by reducing the dimensions of oil channels in the insulation to a minimum. There are 4 figures, 1 table and 5 English references.

SUBMITTED: February 11, 1958.

1. Insulation (Electric)--Dielectric properties 2. Insulation (Electric) --Materials 3. Insulation (Electric)--Test methods 4. Impregnites --Effectiveness

ARENZON, S.I., inzh.; MALKIN, Kh.R., kand.tekhn.nauk

High-pressure cable lines in steel pipes with 110 and 220 kilovolt rating. Elek.sta. 31 no.4:65-69 Ap '60. (MIRA 13:7)
(Electric cables)

AREP'YEV, A.M.

Corn in the Moscow Province. Nauka i zhizn' 22 no.5:32-34 My '55 (MLRA 8:6)

1. Predsedatel' kolkhoza "Put' novoy zhizni," Kuntsevskogo rayona, Moskovskoy oblasti.
(Moscow Province -- Corn(Maize))

AREP'YEV, Aleksandr Moiseyevich

[Possibilities for increasing the output of livestock products] Rezervy povysheniia produktivnosti zhivotnovodstva. Moskva, Znaniie, 1956. 23 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Seriia 5, no.36)
(MIRA 12:1)

(Stock and stockbreeding)

AREP'YEV, A.M.

Cooperating with scientists. Nauka i zhizn' 23 no.4:30-32 Ap '56.
(MLRA 9:7)

1.Predsedatel' kolkhoza "Put' novoy zhizni" Kuntsevskogo rayona, Moskovskoy oblasti.
(Dairying)

MOISEYEV, P.; AREP'YEVA, N.I., red.; CHIZHOV, N.N., red.

[Turkey] Turtsiia. Scale 1:2000000. Moskva, Gos.izd-vo geogr. lit-ry, 1959. [___ Turkey] ___Turtsiia. 29 p. (MIRA 13:3)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i kartografii.
(Turkey---Maps)

ARESENIE, G.; BARBACARU, A.

Construction of a reinforced-concrete hangar with thin shells of double curvature, with a span of 61.10 m. p.438.

REVISTA CONSTRUCTIILOR SI A MATERIALELOR DE CONSTRUCTII. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Rominia si Ministerul Constructiilor si al Materialelor de Constructii)
Bucuresti, Rumania
Vol. 11, no. 9, Sept. 1959.

Monthly list of Eastern European Accession Index (EEAI) LC vol. 8, No. 11
November 1959
Uncl.

YUGOSLAVIA/Cosmochemistry. Geochemistry. Hydrochemistry. D

Abs Jour: Ref. Zhur-Khimiya, No 5, 1958, 14098

Author : Ristich, Aresenievich, Milyutinovich
Inst :
Title : Spectrochemical Method of Rb and Cs Determination in Nishka Ban'i Mineral Waters.
Orig Pub: Glasnik Khem. drusht., 1956, 21, No 5, 283-291 (serbo-khorv.; res. angl.)

Abstract: The physico-chemical properties of Nishka Ban'i (Serbia) mineral waters were explored. Measurements were taken of the temperature, density, refraction coefficient, electrical conductivity, dry residue, qualitative and quantitative spectral analyses of the dry residue were made. As a result, the presence of following alkaline metals (in %) was discovered: Li 1 1 . 10^{-3}; Rb- 1.10^{-4} to 1.10^{-5}; Cs- 1.10^{-3} to 1.10^{-4}. Neither U nor Tr were found in the dry residue by means chemical and spectral analyses. Only by the way of chromatographical con-

Card : 1/2 -69-

YUGOSLAVIA/Cosmochemistry. Geochemistry. Hydrochemistry. D

Abs Jour: Ref. Zhur-Khimiya, No 5, 1958, 14098.

centration on the cellulose column fluorometrically was U detected at a concentration of 4.10^{-7} g/l, which is quite in accordance with the average U content in rock subjected to erosion.

Card : 2/2 -70-

L 44280-66 EWT(1)/EWT(m)/T WW/DJ

ACC NR: AP6005392 (N) SOURCE CODE: UR/0413/66/000/001/0141/0141

INVENTOR: Belikov, Ye. M.; Bukin, V. A.; Areshchenko, A. N. 33 B

ORG: none

TITLE: Multistage centrifugal pump. Class 59, No. 177777

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 141

TOPIC TAGS: pump, centrifugal pump

ABSTRACT: This Author Certificate introduces a multistage centrifugal pump with a labyrinth shaft seal and gradual pressure reduction on the seal. To rid the labyrinth of mechanical inclusions when operating with a polluted fluid, the pump is made with bypass pipes connecting the circular grooves of the labyrinth bushings with the respective pressure stages of the pump (see Fig. 1). Orig. art. has: 1 figure.

Card 1/2 UDC: 621.67

L 44280-66

ACC NR: AP6005392

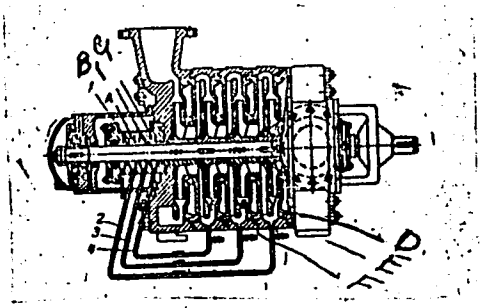


Fig. 1 Multistage centrifugal pump. 1— labyrinth bushing; 2 to 4— bypass pipes; A,B, and C— circula grooves; D,E, and F— cavities with pressure stages

[LD]

SUB CODE: 13/ SUBM DATE: 26Dec63

Card 2/2 mjs

ARESHCHENKO, V. D., Cand Agr Sci -- (diss) "Progress of the growth and marketability of aspens of the BSSR." Minsk, 1958. 21 pp (Min of Higher Education USSR, Belorussian Forest Engineering Inst im S. M. Kirov), 120 copies (KL, 17-58, 110)

MAKAROV, Grigoriy Yefimovich; ARESHCHENKO, Vladimir Denisovich; BARKAN, V.A., red.; YERMILOV, V.M., tekhn. red.

[Organization of work in forest enterprises] Organizatsiia truda na predpriiatiiakh lesnogo khoziaistva. Minsk, Gos.izd-vo sel'-khoz.lit-ry BSSR, 1961. 105 p. (MIRA 15:1)
(Lumbering) (Forest)

ARKSHEV, G.Ya.

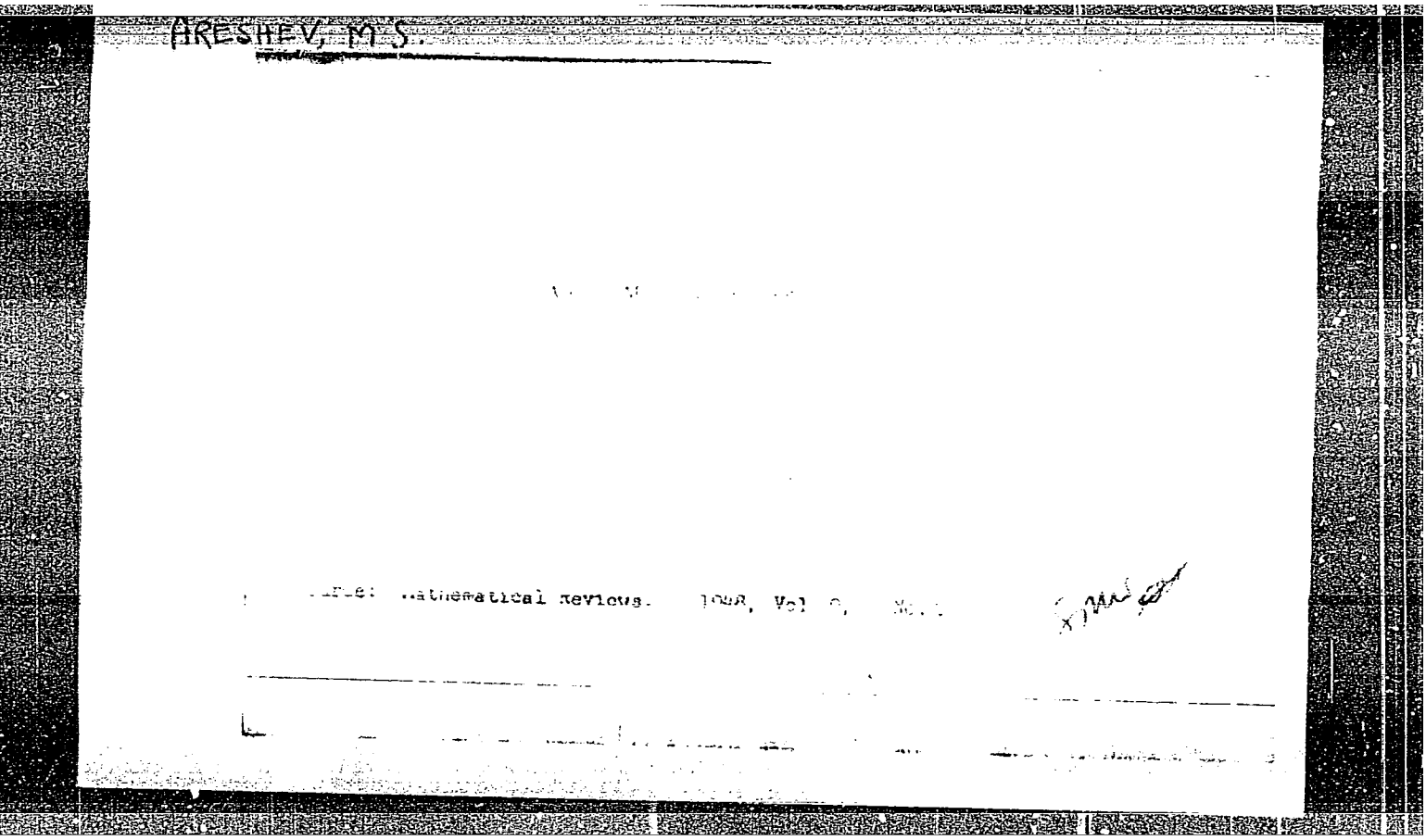
Therapy of atonic hemorrhages. Akush. gin., Moskva no.6:55 Nov-Dec 1951. (CLML 21:2)

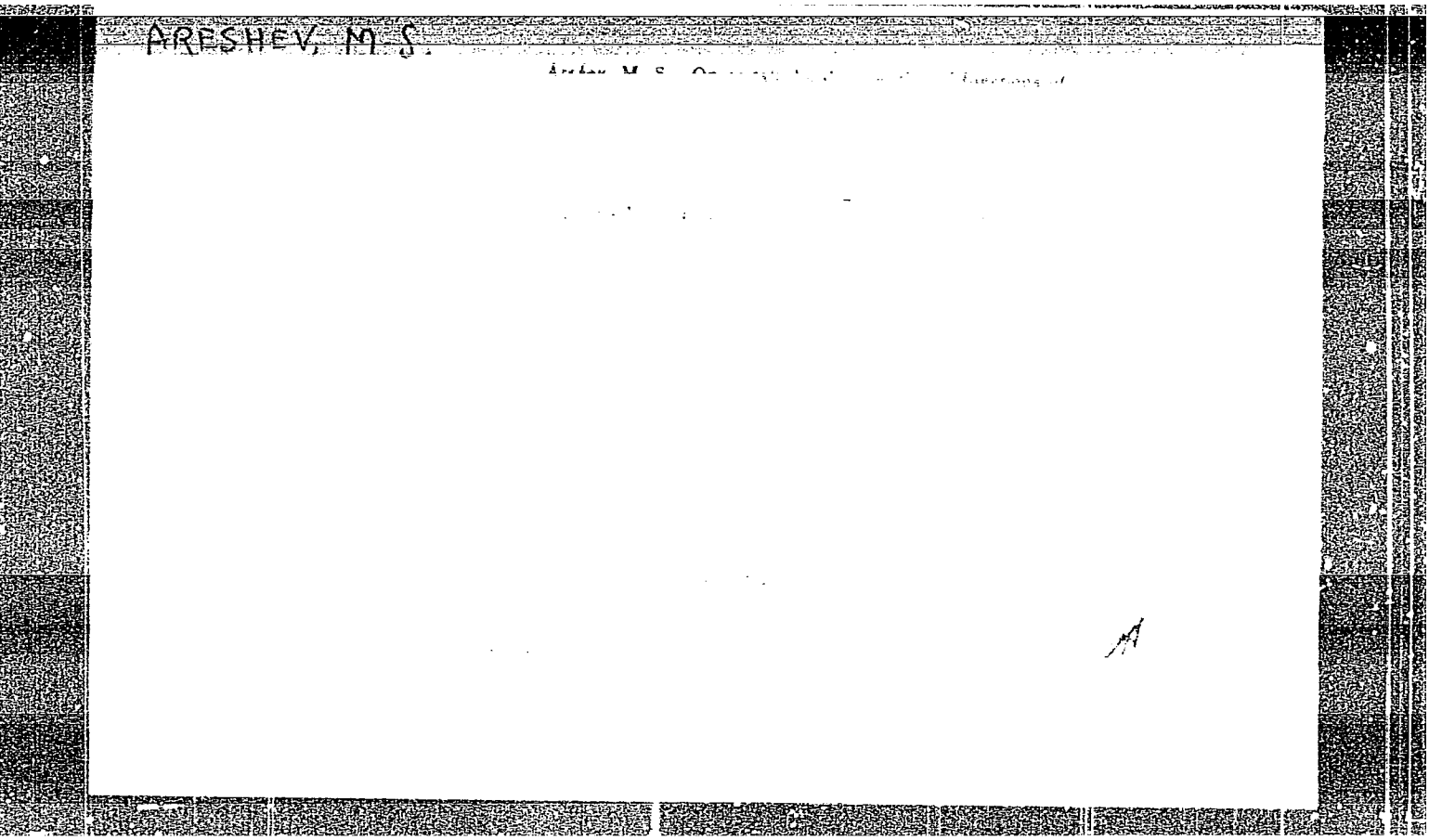
1. Professor. 2. Yerevan.

ARESHEV, L. Ya.

Areshev, L. Ya.: "The problem of subcutaneous rupture of the intestines due to external coercion," (Report) Trudy III Zakavkazsk. s"yezda khirurgov, Yerevan, 1948 (on cover: 1949), p. 696-704

SO: U-5240, 17 Dec. 53, (Letopis 'zhurnal 'nykh Statey, No. 25, 1949).





ARGSHEV, M.S., dotsent, kandidat fiziko-matematicheskikh nauk.

Smooth partial sulutions for a nonuniform finite differences equation of the form: $a F(x+h) + b F(x) = f(x)$. Biul.SAGU no.30: 5-13 '48. (MLRA 9:5)

(Difference equations)

ARESHEV, M.S., kandidat fiziko-matematicheskikh nauk.

One class of linear integral equations. Trudy Inst.mat.i mekh. AN Uz.SSR no.5:3-10 '49. (MLRA 6:12)
(Integral equations)

ARESHEV, M.S., kandidat fiziko-matematicheskikh nauk.

An equation in finite differences. Trudy Inst.mat.i mekh. AN Uz.SSR no.5:11-19 '49. (MLRA 6:12)
(Difference equations)

ARESHEV, M.S.

Certain local properties of functions of two independent variables.
Trudy SAGU 17:3-31 '50. (MLRA 9:5)
(Functions of several variables)

ARESHEV, M.S.

Smooth partial solutions of finite difference equation of the form: $\sum_{K=0}^{M} a_K F(x+Kh) = f(x)$. Trudy SAGU 17:33-36 '50. (MLRA 9:5)

(Difference equations)

USSR/Mathematics - Integro-Differential Equations 1952

"A Linear Integro-Differential Equation," M. S. Areshev

Tr Ins Mat i Mekh, Ak Nauk Uzbek SSR, No 9, pp 3-14

This report, abstracted in Byulleten' Sredneaziatskogo Gos Universiteta, (Bull of Central-Asiatic State Univ), No 23, (1945), considers a still more general eq than that of A. I. Nekrasov ("A Class of Linear Integro-Differential Equations," Trudy Tsentral'nogo Aero-gidrodinamicheskogo Instituta imeni Prof

248T92

N. Ye. Zhukovskogo, No 190, 1934), who in turn had generalized the eq of V. I. Romanovskiy ("A Certain Integro-Differential Equation," Trudy Sredneaziaticheskogo Gosudarstvennogo Universiteta, Series U, No 12, 1934) which is important in investigating problems connected with earthquake-proof constructions; namely, $y'' + k^2 y = f(x) + \lambda \int_x^L [y(z) - y(x)] dz$.

248T92

ARESHEV, M.S.

Continuous dependence of solutions of systems of linear partial differential equations on the initial data and connection of dirichlet's and Neumann problems with Cauchy's problem. Trudy Inst. mat. i mekh. AN Uz. SSR no.13:129-134 '54. (MIRA 11:6)
(Differential equations, Partial)

Cand Med Sci

ARESHEV, P. G.

Dissertation: "Forensic - Medical Qualifications of the Eye Injuries and Loss of Eyesight."
12/6/50

First Moscow Order of Lenin Medical Inst.

SO Vecheryaya Moskva
Sum 71

ARESHEV, P.G.

Characteristics of sudden death from cerebral apoplexy in elderly and senile persons. Trudy Kish.gos.med.inst. 12:137-143 '60. (MIRA 16:4)

1. Kafedra sudebnoy meditsiny Kishinevskogo gosudarstvennogo meditsinskogo instituta.
(GERIATRICS) (APOPLEXY)

ARESHEV, P.G.

Medicolegal characteristics of traumatic subarachnoidal hemorrhage.
Zdravookhranenie 2 no.6:33-36 N-D '59. (MIRA 13:6)

1. Iz kafedry sudebnoy meditsiny (zav. dotsent P.G. Areshev)
Kishinevskogo meditsinskogo instituta.
(BRAIN--HEMORRHAGE)

ARESHEV, P.G.

Medicolegal characteristics of traumatic (without skull injury) cerebral apoplexy. Sud.-med.ekspert. 3 no.1:9-12 Ja-Mr '60. (MIRA 13:5)

1. Kafedra sudebnoy meditsiny (zav. - dotsent P.G. Areshev) Kishinevskogo meditsinskogo instituta.
(MEDICAL JURISPRUDENCE) (APOPLEXY)

SHARAPOV, B.I.; ARESHEV, P.G.

"Comatose states" by N.K. Bogolepov. Reviewed by B.I. Sharapov, P.G. Areshev. Zhur. nevr. i psikh. 64 no.2:311 '64. (MIRA 17:5)

L 04265-67

ACC NR: AP6026393 (A,N) SOURCE CODE: UR/0399/66/000/007/0131/0134

AUTHOR: Tadzhibayev, T. T.; Areshev, V. I.

28
B

ORG: Chair of Skin Diseases, Andizhan State Medical Institute (Kafedra kozhnykh bolezney Andizhanskogo gosudarstvennogo meditsinskogo instituta)

TITLE: The use of ultrasound 22 in the treatment of certain skin diseases

SOURCE: Sovetskaya meditsina, no. 7, 1966, 131-134

TOPIC TAGS: disease therapeutics, ultrasound therapeutics, skin disease, therapeutics, ultrasonic irradiation, tissue disease

ABSTRACT: In the present study, 119 people (78 men and 41 women) suffering from a variety of skin diseases were variously grouped and given ultrasound treatments. Clinical investigations of the blood and stomach juices as well as an estimation of the degree of recovery were made for each group. Sound applications were of two types: directly applied to a localized area or indirectly applied to the individual as a whole, with each person receiving from 10 to 20 treatments, usually on a daily basis. The sound ranged in frequency from 1000 to 3000 kc at an intensity of from 0.8 w/cm^2 to 1.2 w/cm^2 for 5-10 minutes. Depending on the type and severity of the disease, from 20 to 30% of the group recovered completely and from 75 to 95% of the group showed at least some improvement. Follow-up studies were made up to one year. A historical review of the first use of ultrasound in the treatment of neuromuscular diseas-

Card 1/2 UDC: 616.5-085.837

L 04265-67

ACC NR: AP6026393

es and diseases of the joints by Pohlman in 1938 and the first use of ultrasound in the USSR in 1955 is given. Ultrasound has proved effective in many skin diseases including chronic relapsing nettle rash, neuralgic dermatitis, sclerderma, itchy skin, and in some forms of eczema and boils. The explanation of the remedial effect of ultrasound is given as the intensification of oxidation processes, the secretion of biologically active substances, and the reaction of nerve endings in the skin and the C.N.S. In chronic skin diseases, ultrasound aids hyperemia, improves nutrition and causes the disappearance of subjective perception. Two conclusions were reached: 1) treating itching skin with ultrasound caused the rapid disappearance of subjective sensation but resulted in slowly regressing cutaneous changes; and 2) combined ultrasound treatments (indirect and localized) were more effective than either indirect and localized treatments applied individually.

SUB CODE: 06/20 SUBM DATE: none/ ORIG REF: 004/ OTH REF: 004

Card 2/2 fv

ARESHEVA,Z.S.

Compound reflex regulation of nitrogen metabolism. Opyt izuch. reg.fiziol.funk. no.3:11-22 '54. (MLRA 8:12)

1. Laboratoriy fiziologii gazoobmena Otdela obshchey fiziologii Instituta eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR.

(NITROGEN--ASSIMILATION AND EXCRETION) (REFLEXES)

ARESHEVA, Z.S.; SHCHEGLOVA, A.I.

Unconditioned salivary food reflexes in greater gerbils and brown rats. Opyt izuch. reg. fiziol. funk. 6:91-98 '63 (MIRA 17:3)

Effect of fluid moisture on the water content of the organism in some rodents. Ibid.:98-106

1. Laboratoriya ekologicheskoy fiziologii (zav. - prof. A.D. Slonim) Instituta fiziologii imeni Pavlova AN SSSR.

ARESHEVA, Z.S.

Reflex changes in the respiration of frogs as related to diving. Opyt. izuch. reg. fiziol. funk. 6:84-90'63 (MIRA 17:3)

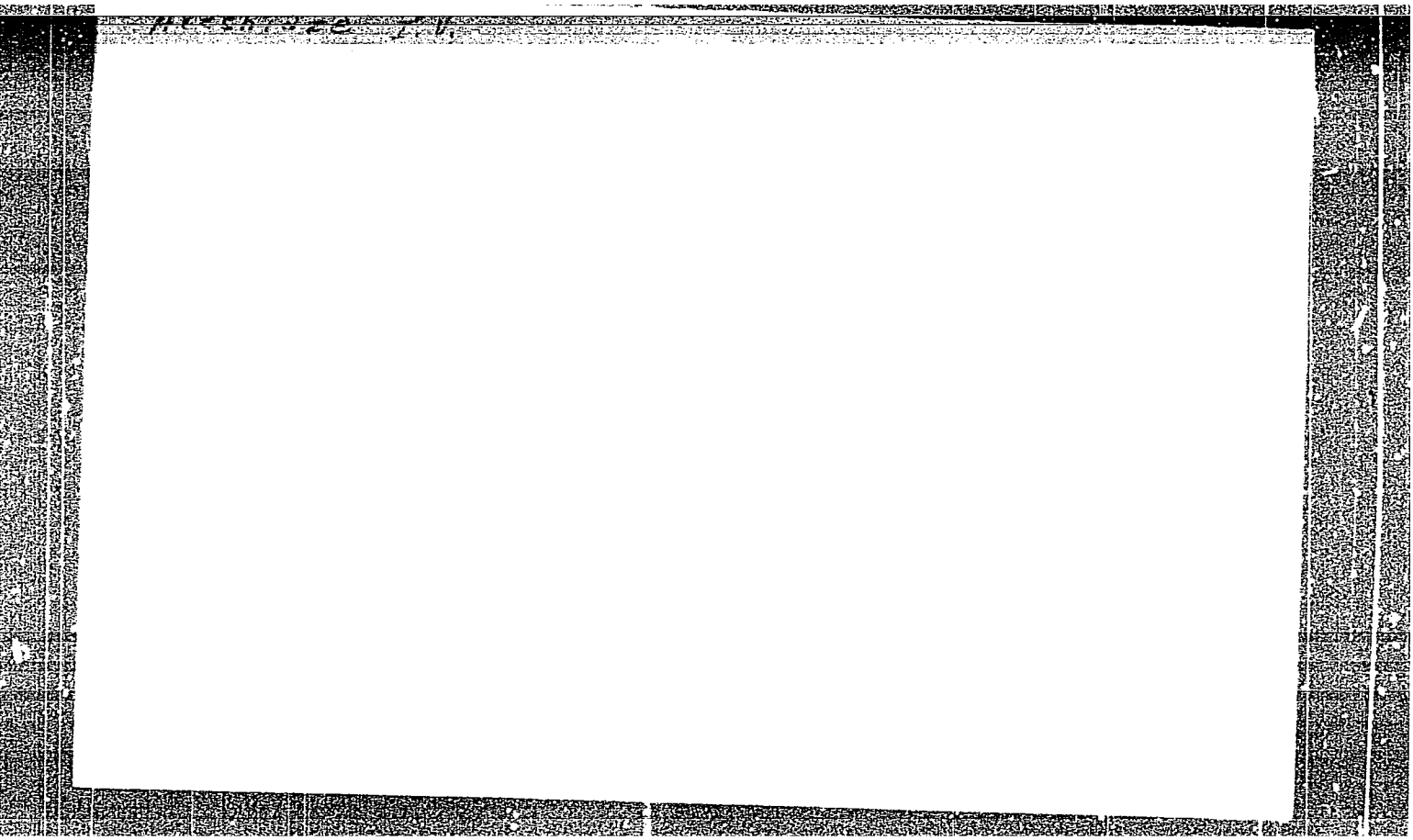
1. Laboratoriya ekologicheskoy fiziologii (zav. - prof. A.D. Slonim)Instituta fiziologii imeni Pavlova AN SSSR.

ARESHIDZE, G.M.

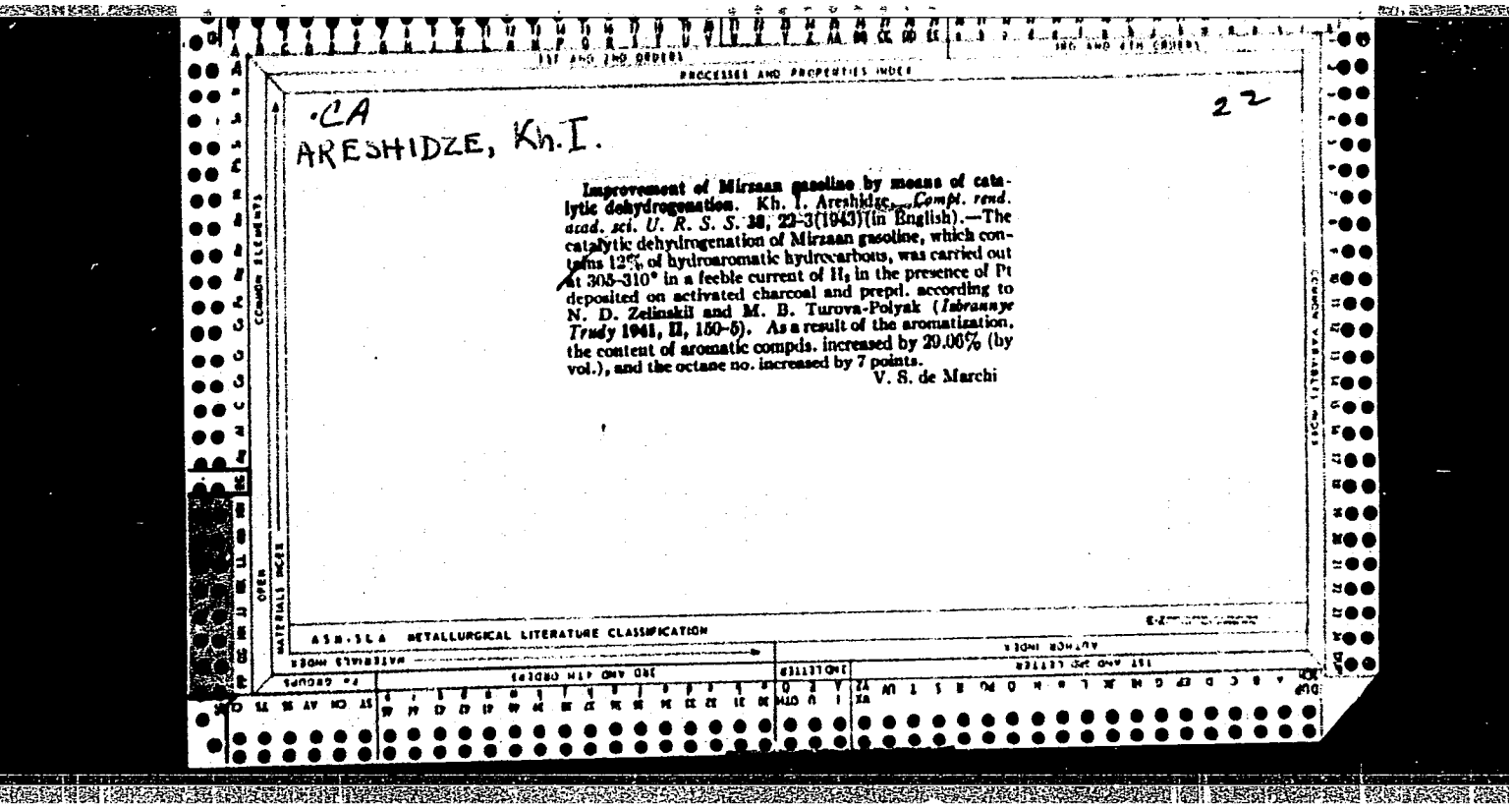
Regional engineering geological classificiation of landslides in the southern part of the Dzirula massif. Soob.AN Gruz.SSR 28 no.1:47-52 Ja '62. (MIRA 15:4)

1. Ordena Trudovogo Krasnogo Znameni Gruzinskiy politekhnicheskiy institut imeni Lenina, Tbilisi. Predstavleno akademikom A.N.Dzhavakhishvili.

(Dzirula Valley--Landslides)



APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00010201(



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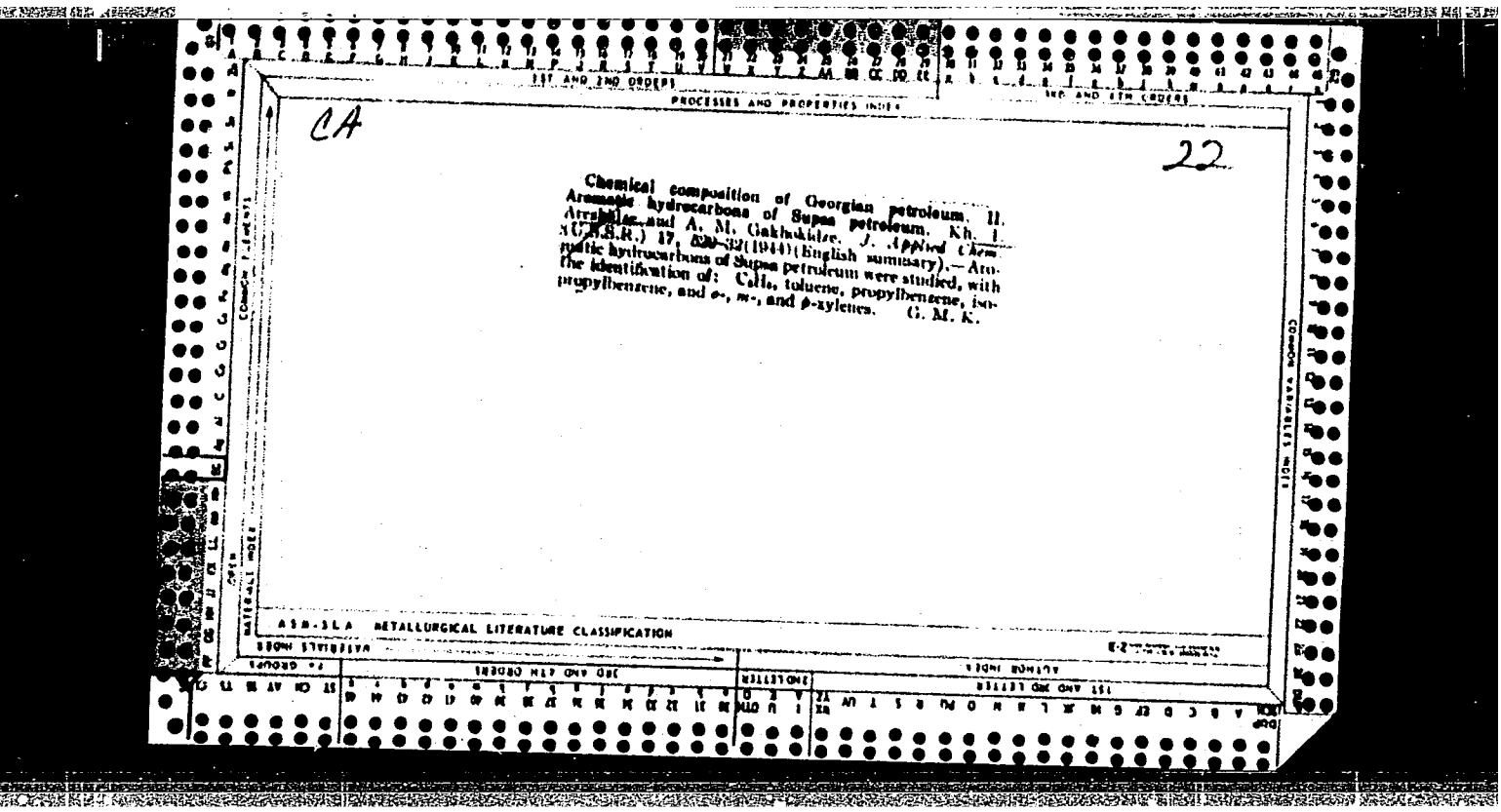
ARESHIDZE, Kh. I.

22

Improvement of Mirzaan gasoline by means of catalytic dehydrogenation. Kh. I. Areshidze. *Compt. rend. acad. sci. U. R. S. S.* **38**, 23-3(1943)(in English).—The catalytic dehydrogenation of Mirzaan gasoline, which contains 12% of hydroaromatic hydrocarbons, was carried out at 305-310° in a feeble current of H_2 in the presence of Pt deposited on activated charcoal and prepd. according to N. D. Zelinskii and M. B. Turova-Polyak (*Ibrannye Trudy* **1941**, II, 150-6). As a result of the aromatization, the content of aromatic compds. increased by 20.06% (by vol.), and the octane no. increased by 7 points.

V. S. de Marchi

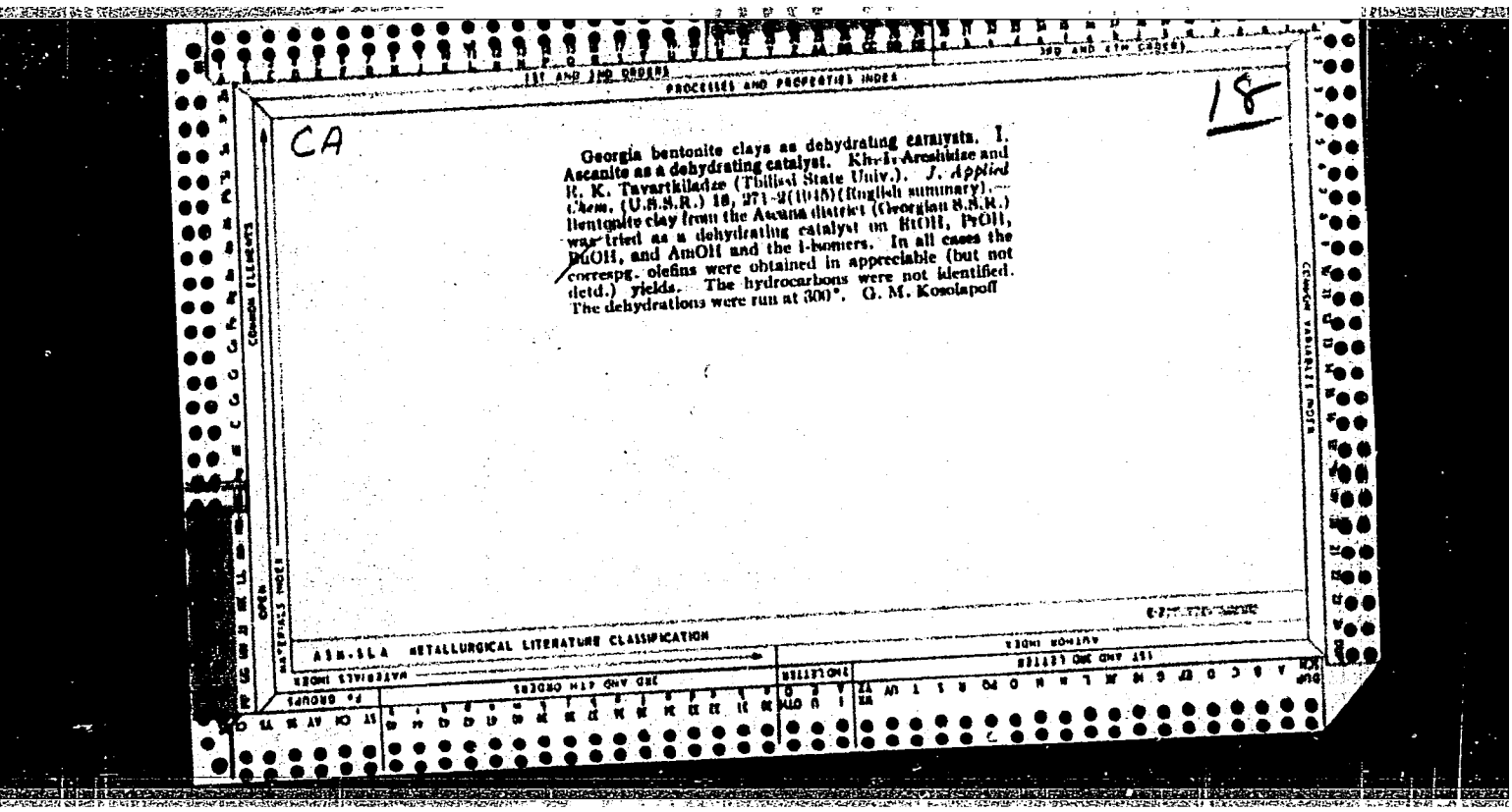


CA

22

Chemical composition of Georgian petroleum. II. Aromatic hydrocarbons of Supsa petroleum. Kh. I. Arabidze and A. M. Gakhokidze. *J. Applied Chem. (U.S.S.R.)* 17, 320–32(1944)(English summary).—Aromatic hydrocarbons of Supsa petroleum were studied, with the identification of: CaHe, toluene, propylbenzene, isopropylbenzene, and *o*-, *m*-, and *p*-xylenes. G. M. K.

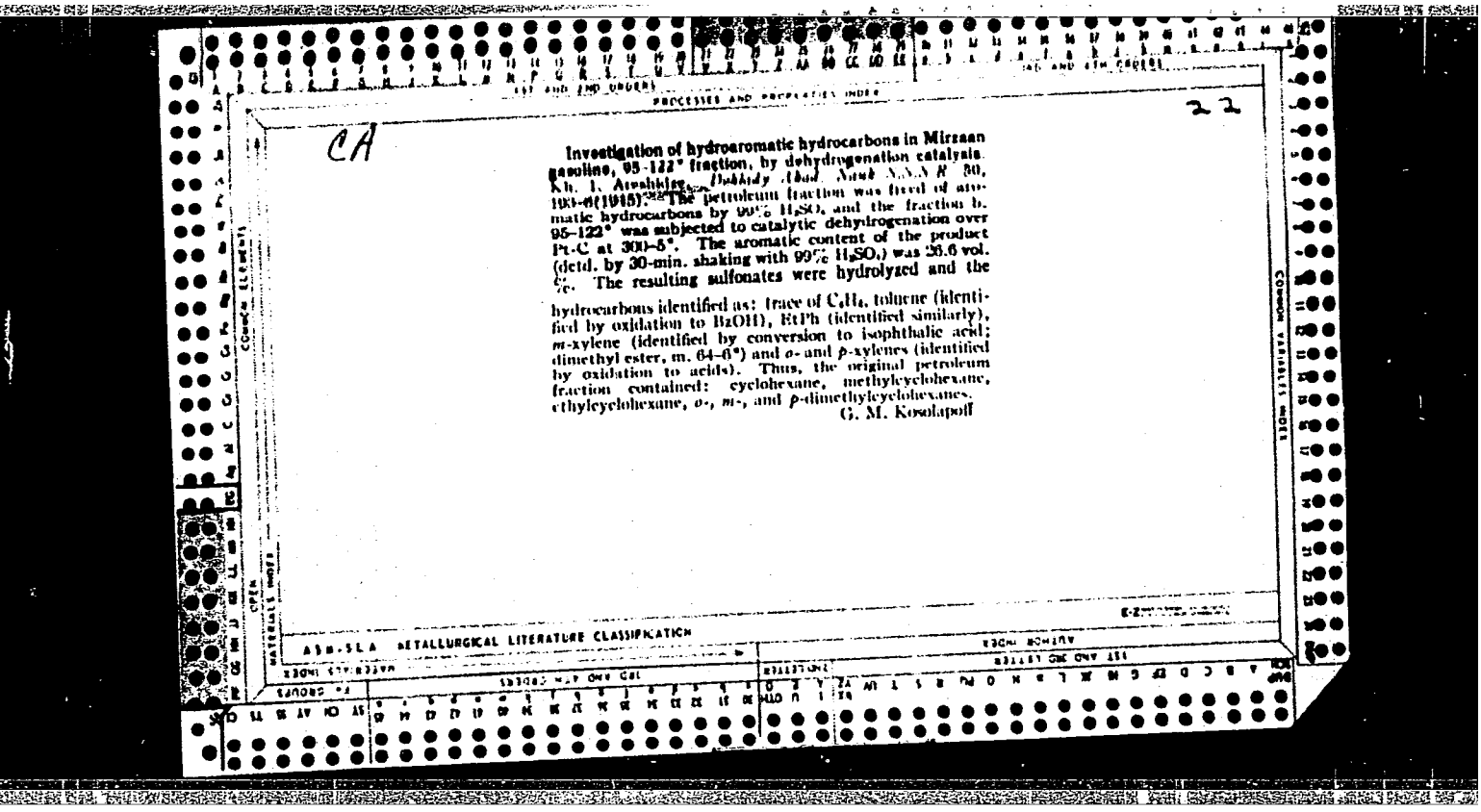
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



CA

18

Georgia bentonite clays as dehydrating catalysts. I. Ascanite as a dehydrating catalyst. Kheit. Areshidze and R. K. Tavartkiladze (Tbilisi State Univ.). *J. Applied Chem.* (U.S.S.R.) 18, 271-2(1945)(English summary).—Ascanite clay from the Ascana district (Georgian S.S.R.) was tried as a dehydrating catalyst on EtOH, PrOH, BuOH, and AmOH and the i-isomers. In all cases the corresp. olefins were obtained in appreciable (but not detd.) yields. The hydrocarbons were not identified. The dehydrations were run at 300°. G. M. Kosolapoff



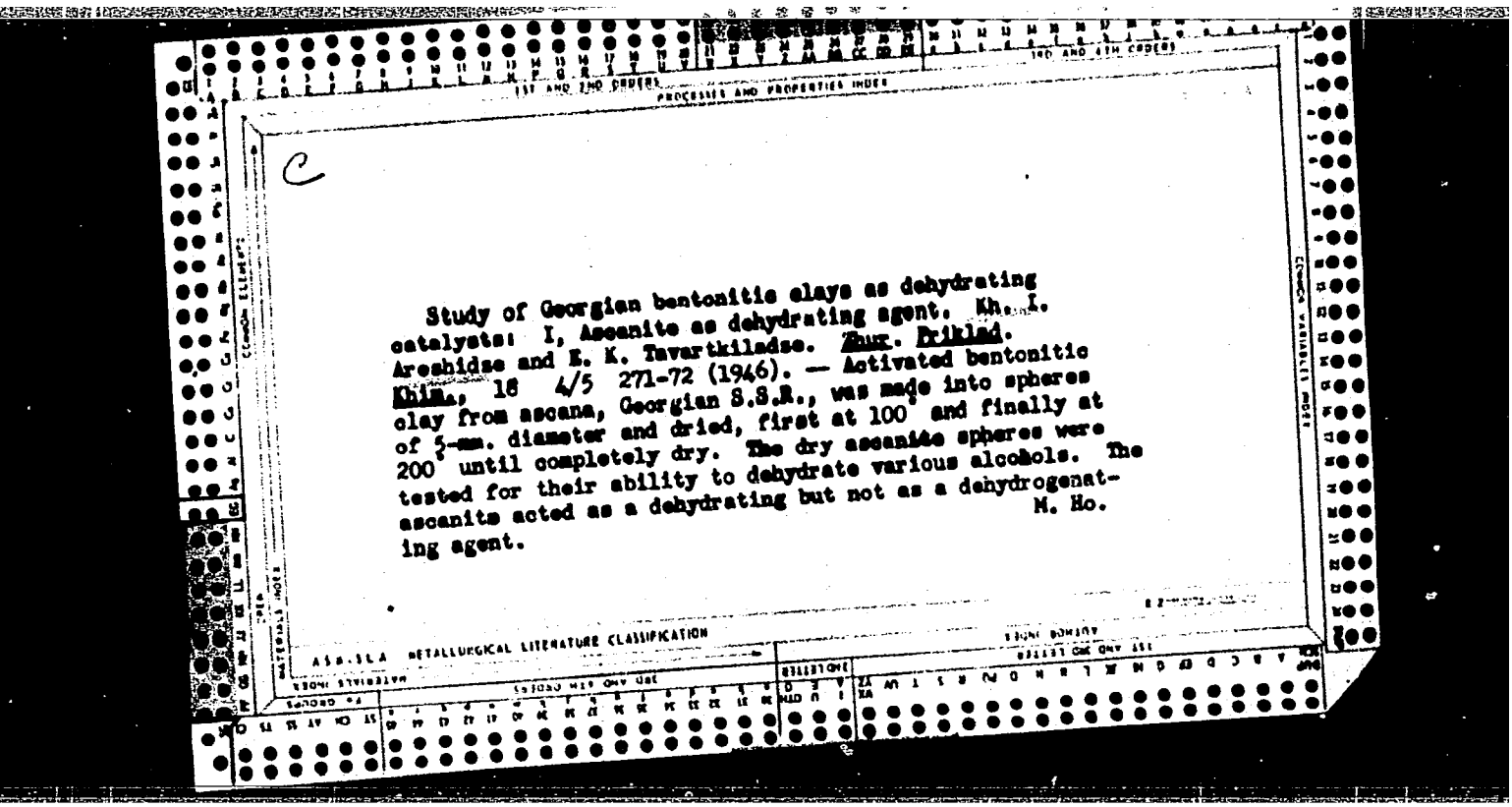
CA

22

Investigation of hydroaromatic hydrocarbons in Mirzaan gasoline, 95–122° fraction, by dehydrogenation catalysis. Kh. I. Arabskiĭ. *Doklady Akad. Nauk S.S.S.R.* 30, 103–6 (1915). The petroleum fraction was freed of aromatic hydrocarbons by 99% H_2SO_4, and the fraction b. 95–122° was subjected to catalytic dehydrogenation over Pt-C at 300–5°. The aromatic content of the product (detd. by 30-min. shaking with 99% H_2SO_4) was 36.6 vol. %. The resulting sulfonates were hydrolyzed and the hydrocarbons identified as: trace of C_6H_6, toluene (identified by oxidation to BzOH), EtPh (identified similarly), *m*-xylene (identified by conversion to isophthalic acid; dimethyl ester, m. 64–6°) and *o*- and *p*-xylenes (identified by oxidation to acids). Thus, the original petroleum fraction contained: cyclohexane, methylcyclohexane, ethylcyclohexane, *o*-, *m*-, and *p*-dimethylcyclohexanes.

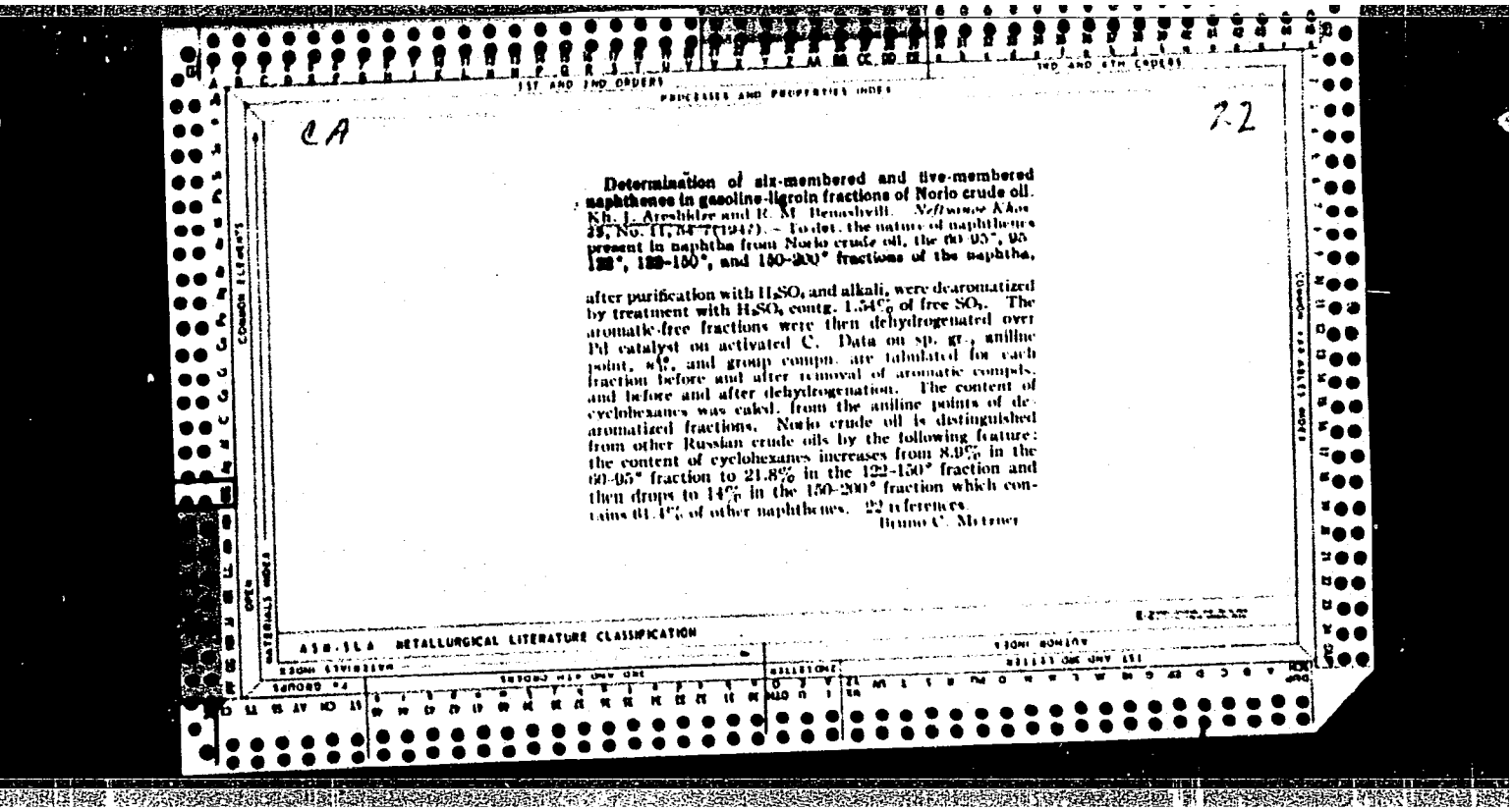
G. M. Kosolapoff

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



C

Study of Georgian bentonitic clays as dehydrating catalysts: I, Ascanite as dehydrating agent. Kh. I. Areshidze and E. K. Tavartkiladze. Zhur. Prikład. Khim., 18 4/5 271-72 (1946). — Activated bentonitic clay from ascana, Georgian S.S.R., was made into spheres of 5-mm. diameter and dried, first at 100° and finally at 200° until completely dry. The dry ascanite spheres were tested for their ability to dehydrate various alcohols. The ascanite acted as a dehydrating but not as a dehydrogenating agent. M. Ho.



CA

22

Determination of six-membered and five-membered naphthenes in gasoline-ligroin fractions of Norio crude oil. Kh. I. Areshidze and R. M. Benashvili. *Neftyanoe Khoz.* 25, No. 11, 84–7 (1947). — To det. the nature of naphthenes present in naphtha from Norio crude oil, the 60–95°, 95–122°, 122–150°, and 150–200° fractions of the naphtha, after purification with H_2SO_4 and alkali, were dearomatized by treatment with H_2SO_4 contg. 1.54% of free SO_3. The aromatic-free fractions were then dehydrogenated over Pd catalyst on activated C. Data on sp. gr., aniline point, n^{20}D, and group compn. are tabulated for each fraction before and after removal of aromatic compds. and before and after dehydrogenation. The content of cyclohexanes was calcd. from the aniline points of de-aromatized fractions. Norio crude oil is distinguished from other Russian crude oils by the following feature: the content of cyclohexanes increases from 8.0% in the 60–95° fraction to 21.8% in the 122–150° fraction and then drops to 14% in the 150–200° fraction which contains 61.4% of other naphthenes. 22 references.

Bruno C. Metzner

A58-11A METALLURGICAL LITERATURE CLASSIFICATION

ARESHIDZE, Kh. I.

Areshidze, Kh. I. "Investigation of the aromatic hydrocarbons of the xylene fractions of Mirzaani gasoline. On the problem of studying the chemical composition of Georgian oils", Doklady (Akad. nauk Azerbaydzh. SSR), 1948, No. 12, p. 525-28, (Resume in Azerbaijani), - Bibliog: 9 items.

So: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

ARESHIDZE, KH. I.

USSR/Chemistry - 1- Butene, Isomerization of
Chemistry - Gumbrin

Mar 1948

"Investigation of Gumbrin and Askanite as Dehydrating and Isomerizing Contacts: II. Contact Isomerization of 1-Butene," Kh. I. Areshidze, ye. K. Tavarmkiladze, Lab of Org Chem imeni Prof P. G. Milikishvili, Tbilisi, State U imeni Stalin, 3 pp

"Zhur Prik Khim" Vol XXI, No 3 -ЖПХ-21-3

Performed experiments to investigate changes undergone by the unsaturated hydrocarbon, 1-butene, in contact with gumbrin. Established that 1-butene is isomerized into 2 -butene and isobutylene. Submitted 27 May 1947

PA 70T10

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

CA

10

Dehydration of cyclohexanol on gumbrin Kh. I. Areshidze and E. K. Tavartkiladze. *Zhur. Priklad. Khim.* (J. Applied Chem.) 22, 119-21(1949). Products, identified by Raman spectra, were cyclohexene, 1-methylcyclopentene, 3-methylcyclopentene, and C_6H_6. In a run at 300°, 0.90 l./hr./l. catalyst, on gumbrin clay balls dried at 100-10°, then at 350-400°, the fractional compn. of the product (yields in wt. %), n_D^{20}, d_4^{20}, and Br no. of the fractions were: b_{760} 72-74.5° (60%), 1.4305, 0.7760, 153; 84-86° (16.6%), 1.4530, 0.8000, 148; 210-220° (20%), 1.5050, 0.8973, 23.6; residue and losses (3.4%). The amts. of unsatd. hydrocarbons in the 1st 2 fractions were 78.4 and 75.8%. N. Thon

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

CA

Isomerization of olefins and cycloölefins on gumbrin
Kh. I. Areshidze (Chem. Inst., Acad. Sci., Tiflis, Georgia, U.S.S.R.). *Trudy Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1950, 178–84.—In the dehydration of BuOH, passed over gumbrin at the rate of 0.081./hr. l. catalyst at 150°, analysis of the products (by bromination and gas absorption) shows, in addn. to 1-butene, 2-butene and $Me_2C:CH_2$, consequently, the primary product, 1-butene, undergoes isomerization both through shift of the double bond and rearrangement of the C skeleton. Similarly, in the dehydration of cyclohexanol at 350–400°, space velocity 0.09 l. hr.$^{-1}$ l. catalyst, the products include (by Raman analysis) cyclohexene, 1-methylcyclopentane, 3-methylcyclopentene, and CaH_6. The latter may be formed either through disproportionation of cyclohexene to cyclohexane and CaH_6, or through dehydrogenation of cyclohexene. The presence of methylcyclopentane in the fraction b. 0.72–1.5°, and of cyclohexane in the fraction b. 81.6°, was established. N. Thon

ARESHIDZE, Kh.I.; KIKVIDZE, A.V.

Studying gumbrin and askanite as dehydration, isomerization and alkylation agents. Part 6. Obtaining ethyl ether from ethyl alcohol in the presence of gumbrin [in Georgian with summary in Russian]. Trudy Inst. khim. AN Gruz.SSR 11:37-43 '53. (MLRA 10:2)

(Gumbrin) (Ethyl ether) (Alkylation)

KIKVIDZE, A.V.; ARESHIDZE, Kh.I.

Studying gumbrin and askanite a s dehydration, isomerization and alkylation agents. Part 5. Alkylation os aniline with methyl alcohol in the presence of gumbrin [in Georgian with summary in Russian]. Trudy Inst. khim. AN Gruz.SSR 11:45-49 '53. (MLRA 10:2)

(Gumbrin) (Alkylation) (Aniline)

ARESHIDZE, Kh. I.

Gumbrin and askanite as dehydration, isomerization, and alkylation catalysts. V. Alkylation of aniline with methyl alcohol in the presence of gumbrin. A. V. Kikvidze and Kh. I. Areshidze. *Zhur. Obshchei Khim.* 23, 596–7(1953); cf. *C.A.* 42, 6331g; 43, 6153a.—Gumbrin formed into pellets (2–3 mm.) was used as the catalyst in a reaction tube heated to 350–450° through which a 4:1 mixt. of MeOH-PhNH$_2$ was passed. At 350° with 0.075 space velocity of the mixt. 37.9% PhNHMe and 5.9% mixed toluidines were formed. At 400° 40% of the former and 10.4% of the latter are obtained, while at 450° the yields are 28.9% and 14.05%, resp. No PhNMe$_2$ was formed.

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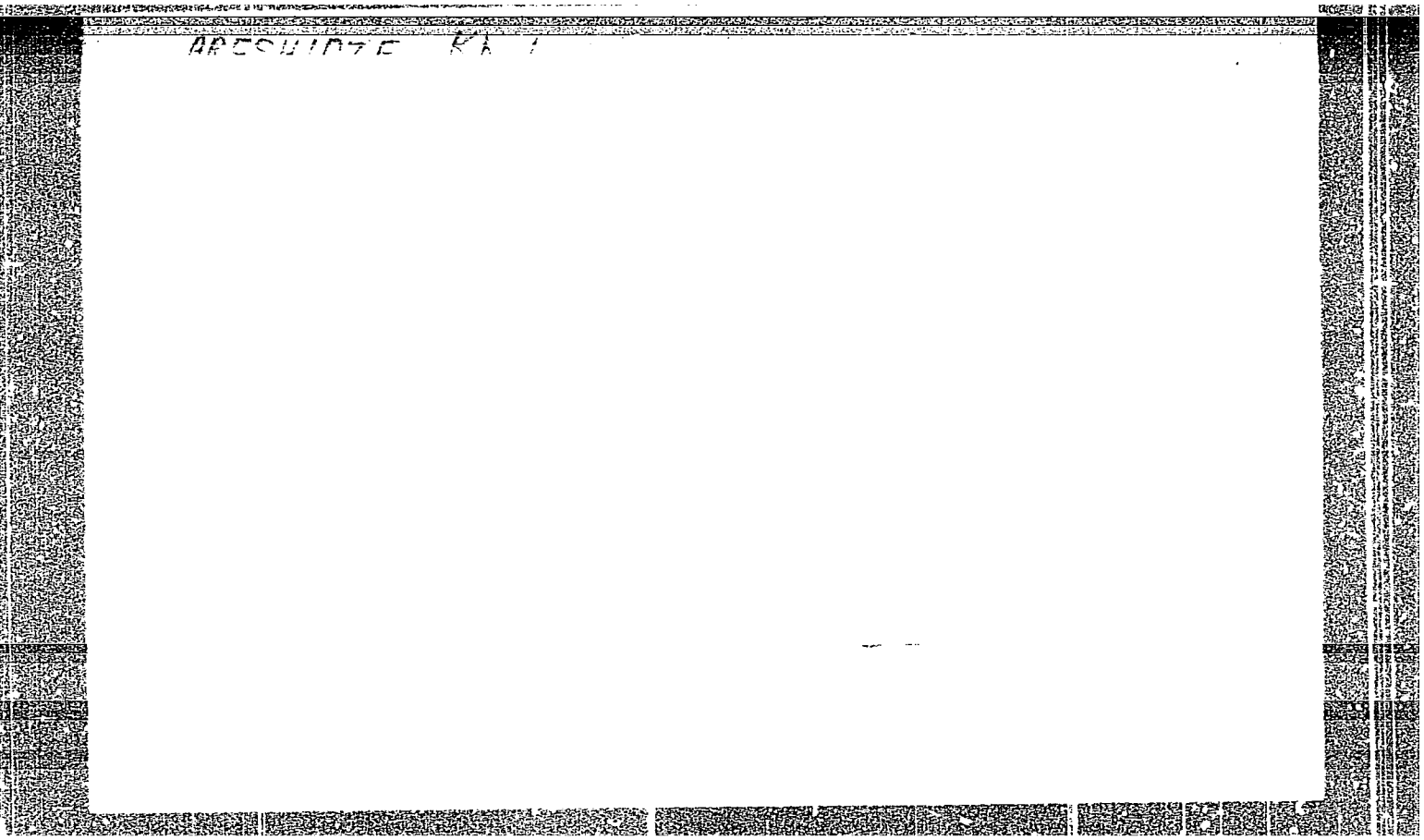
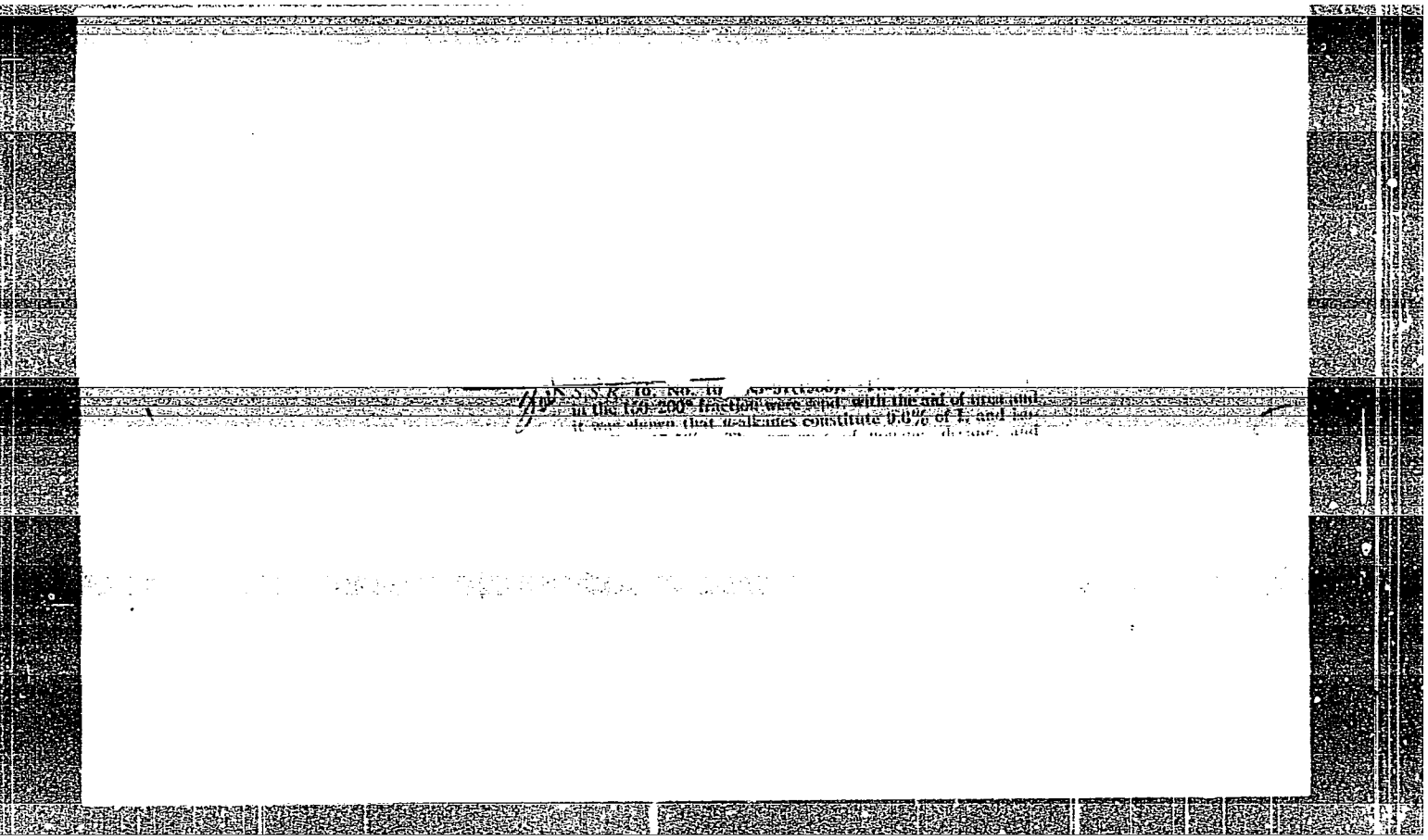
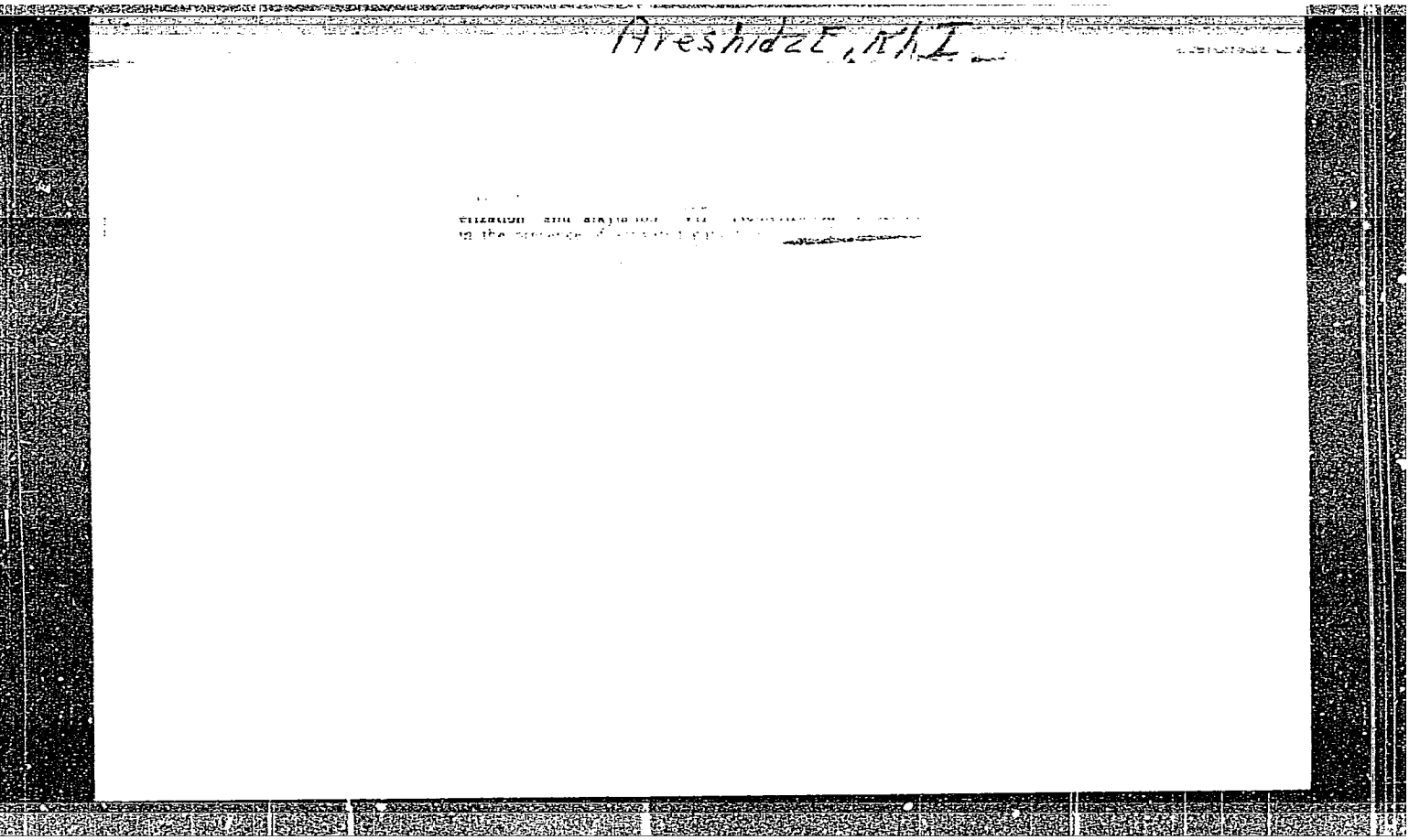
✓Gumbrin and askanite as dehydration, isomerization and alkylation catalysts. V. Alkylation of aniline with methyl alcohol in the presence of gumbrin. A. V. Kikyidze and Kh. I. Areshidze. *J. Gen. Chem. U.S.S.R.* 23, 819-20 (1953; English translation).—See *C.A.* 48, 6979c.

H. L. H.







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Treatment of natural gases and petroleum. Motor fuels. Lubricants.

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Inst : Academy of Sciences USSR

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Abstract: An investigation was made of the 200-250° fraction of Noriyskaya petroleum, isolated by fractionation at a residual pressure of 200 mm Hg.

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