conducted in a device schematically shown in Fig.1. Fig.2 shows the ammonia yield as dependent on the volume rate at different contact temperatures on the iron catalyst, while Fig.3 illustrates the ammonia yield as dependent on temperature at different volume rates on the iron catalyst. At equal conditions, the reaction rate of ammonia synthesis is higher on the iron catalyst with uranium promoter than on an ordinary catalyst; this is confirmed by the rate constants (Table) calculated from the equation by M. I. Temkin and V. M. Pyzhev (Refs. 4-6)

$k = P^{0.5}.V_z(1+z).I_{(z)}$, where z is the molar fraction of ammonia, P the pressure in the system, V_z the volume rate at the outlet, and

$$I_{(z)} = \int_0^z \left[z(1-z)^{1.5}.dz\right] / \left\{(1+z)^3\left[L^2(1-z)^4 z^2\right]\right\} ; \quad L = z_{eq}/(1 - z_{eq})^2.$$

Fig. 4 shows X-ray pictures of samples of various catalysts. The data given show that a uranium addition to the industrial iron catalyst for ammonia synthesis in relatively small quantity (5% referred to UO_3) effects a completer reduction of iron oxides to the catalytically most

Kinetics of Ammonia Synthesis on an Iron Catalyst With Addition of Uranium

S/153/60/003/004/026/040/XX
B020/B054

efficient form, namely α-Fe, and increases its activity. There are 4 figures, 1 table, and 6 references: 4 Soviet, 1 US, and 1 German.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut im. V. I. Lenina, kafedra tekhnologii neorganicheskikh veshchestv (Khar'kov Polytechnic Institute imeni V. I. Lenin, Department for the Technology of Inorganic Substances)

SUBMITTED: October 31, 1958

√

Card 3/3

ATROSHCHENKO, V.I.; ZHIDKOV, B.A.; ZASORIN, A.P.

Small-scale experimental process of carbon monoxide conversion by water vapor. Kin.i kat. 3 no.4:605-609 Jl-Ag '62. (MIRA 15:8)

1. Khar'kovskiy politekhnicheskiy institut imeni V.I.Lenina.
(Carbon monoxide) (Water vapor) (Chemical models)

ATROSHCHENKO, V.I.; ZASORIN, A.P.; MINIOVICH, M.A.

Prospects for the use of oxygen in the production of nitrous acid. Khim. prom. 41 no.10:743-745 O '65. (MIRA 18:11)

L 29895-66 EWT(m)/EWP(t)/ETI IJP(c) WW/JW/JD

ACC NR: AP6006464 SOURCE CODE: UR/0064/65/000/010/0743/0745

AUTHOR: Atroshchenko, V. I.; Zasorin, A. P.; Miniovich, M. A. 39 B

ORG: none

TITLE: Prospects for using oxygen in the production of nitric acid

SOURCE: Khimicheskaya promyshlennost', no. 10, 1965, 743-745

TOPIC TAGS: nitric acid, nitric oxide, nitrogen compound, oxygen, air

ABSTRACT: The article discusses the advantages of using oxygen in the production of nitric acid and discusses several flow schemes using pure oxygen instead of air. It is the expressed opinion of the authors that completely replacing air with oxygen in the production of nitric acid is full of promise. They point out that as a consequence of the fact that the cost of electrical energy is continually dropping and that the technology of separating air into its components is continually improving ensures the continued drop in the cost of oxygen. It is noted that the cost of stainless steel materials used in nitric acid production and the extent of capital investments required for

Card 1/2

L 29895-66
ACC NR: AP6006464 O

producing nitric acid by conventional methods are decreasing to a considerably lesser extent. By using oxygen the rate of oxidation of nitric oxide can be increased 200 times. The authors have made a detailed study of the oxidation process of ammonia by oxygen in which the temperature of the original reaction mixture is reduced from 2,300-2,400°C to the optimum temperature of 850 - 900°C by mixing it with water vapor which they consider the most advantageous of the two methods discussed. It is concluded that the investigation, design and construction of experimental plants for the contact oxidation of ammonia with oxygen deserve serious consideration. Orig. art. has 1 figure and 2 tables.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 007/

CARD 2/2

ATROSHCHENKO, Vasiliy Ivanovich; ALEKSEYEV, Arkadiy Mefodiyevich; ZASORIN, Anatoliy Petrovich; KIRILLOV, Ivan Petrovich; KONVISAR, Viktor Ivanovich; YASTREBENETSKIY, Anisim Rudol'fovich; VVEDENSKIY, P.I., prof., retsenzent; VARLAMOV, M.L., prof., retsenzent; BAZILYANSKAYA, I.L., red.; TROFIMENKO, A.S., tekhn. red.

[Technology of combined nitrogen] Tekhnologiia sviazannogo azota [By] V.I.Atroshchenko i dr. Khar'kov, Izd-vo Khar'kovskogo univ. 1962. 322 p. (MIRA 17:1)

ZASORIN, I.A.

Technical training of workers in shoe factories. Leg.prom. 7 no.8:15-17 Ag '47. (MLRA 6:11)
(Shoe industry)

ZASORIN, N.; STEPANOV, Yu.

Subduing metal. Znan.sila 31 no.4:12-15 Ap '56. (MLRA 9:7)
(Steel--Metallurgy)

USKOV, A.A.; MIKHAYLOV, O.A.; KRASIVSKIY, S.P.; KMETIK, P.I.; KUDINOV, N.A.; ZASORIN, N.M.; MAKSAREV, Yu.Ye., red.; MAKSIMOV, I.S., red.; GERASIMOVA, Ye.S., tekhn.red.

[Technological progress in the U.S.S.R., 1959-1965] Tekhnicheskii progress v SSSR, 1959-1965. Moskva, Gosplanizdat, 1960. 258 p. (MIRA 13:12)

(Technology)

MAKSAREV, Yuriy Yevgen'yevich. Prinimal uchastiye: ZASORIN, N.M., inzh. ISLANKINA, T.F., red.; ATROSHCHENKO, L.Ye., tekhn.red.

[Technical progress in Soviet industry during 1959-1965] Tekhnicheskii progress promyshlennosti SSSR v 1959-1965 godakh. Moskva, Izd-vo "Znanie," 1959. 44 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.4. Nauka i tekhnika, no.13) (MIRA 12:6)

1. Predsedatel' Gosudarstvennogo nauchno-tekhnicheskogo komiteta Soveta Ministrov SSSR (for Maksarev).
(Russia--Economic policy)

S. Zasorin. and PERTSOVSKII L. M.

Avtomatika v elektrifikatsii zheleznykh dorog. [Automatic devices in railroad electrification] (Zhel-dor. transport, 1947, no. 4, p. 68-72).

DLC: HE735

SO: Soviet Transportation and Communications, Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

ZASORIN, S.N., kandidat tekhnicheskikh nauk

Combined receiver for excess recuperative power. Trudy MIIT no.90/13:223-231 '56. (MLRA 10:4)
(Electric railroads--Brakes)

GRUBER, Leonid Osipovich, inzh.; ZASORIN, Sergey Nikolayevich, kand. tekhn. nauk, dots.; PERTSOVSKIY, Lazar' Moiseyevich, inzh.; AYBASHEVA, T.V., red.

[Electric power plants and traction substations] Elektricheskie stantsii i tiagovye podstantsii. Moskva, Transport, 1964. 423 p. (MIRA 17:12)

PHASE I BOOK EXPLOITATION SOV/5754

Zasorin, Sergey Nikolayevich, Nikolay Arsen'yevich Karsh, Kalinik Georgiyevich Kuchma, Candidates of Technical Sciences, and Mikhail Aleksandrovich Chernyshev, Doctor of Technical Sciences

Ionnyye i elektronnyye preobrazovateli (Gas-Filled and Vacuum-Tube Rectifiers) Moscow, Transzheldorizdat, 1961. 306 p. 8,000 copies printed.

Ed. (Title page): M. A. Chernyshev; Tech. Ed.: Ye. N. Bobrova; Managing Ed. for Literature on Railroad Electrification and Power Engineering: V. K. Kalinin, Engineer.

PURPOSE: This book has been approved by the Main Administration of Schools of the Ministry of Railroads as a textbook for students specializing in railroad electrification in railroad transportation schools of higher education.

COVERAGE: The textbook presents the physical principles of mercury-arc rectifier operation, the theory and circuits of a-c

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rectification by uncontrolled electric rectifiers, and the theory of controlled rectifier operation. Designs of mercury-arc rectifiers for a-c electric power supply and electrically driven rolling stock of electrified railroads are described. Current inversion, vacuum-tube rectifiers, solid-cathode gas-filled rectifiers and semiconductor rectifiers are examined. Chs. III and VIII were written by S. N. Zasorin; Chs. II and VI, by N. A. Karsh; the Introduction and Chs. IV and VII, by K. G. Kuchma; and Chs. I and V, by M. A. Chernyshev. The authors thank P. N. Ramlau, head of the Radio Engineering Department of LIIZhT (Leningrad Institute of Railroad Transportation Engineers) for his advice. There are 34 references: 29 Soviet (including 1 translation), 3 English, and 2 German.

TABLE OF CONTENTS:

Introduction 5

ZASORIN, S. N.

Zasorin, S. N. "Investigation of a new system of a combined receptacle for surplus energy recuperation." Min Railways USSR. Moscow Order of Lenin and Order of Labor Red Banner Inst of Railroad Transport Engineers imeni I. V. Stalin. Moscow, 1956. (Dissertations for the Degree of Candidate in Technical Science)

So: Knizhnaya letopis', No. 27, 1956. Moscow. Pages 94-109; 111.

BRUSHEVICH, I.I., kandidat tekhnicheskikh nauk; BOGIN, N.N., kandidat tekhnicheskikh nauk; BYKOV, Ye.I., inzhener; VLASOV, I.I., kandidat tekhnicheskikh nauk; GRITSEVSKIY, M.Ye., inzhener; GRUBER, L.O., inzhener; GURVICH, V.G., inzhener; DAVYDOV, V.N., inzhener; YERSHOV, I.M., kandidat tekhnicheskikh nauk; ZASORIN, S.N., kandidat tekhnicheskikh nauk; IVANOV, I.I., kandidat tekhnicheskikh nauk; KRAUKLIS, A.A., inzhener; KROTOV, L.B., inzhener; LAPIN, V.B., inzhener; LASTOVSKIY, V.P., dotsent; LATUNIN, N.I., inzhener; MARKVARDT, K.G., professor, doktor tekhnicheskikh nauk; MAKHAYLOV, M.I., professor, doktor tekhnicheskikh nauk; NIKANOROV, V.A., inzhener; OSKOLKOV, K.N., inzhener; OKHOSHIN, L.I., inzhener; PARFENOV, K.A., dotsent, kandidat tekhnicheskikh nauk; PERTSOVSKIY, L.M., inzhener; POPOV, I.P., inzhener; PORSHNEV, B.G., inzhener; RATNER, M.P., inzhener; ROSSIYANSKIY, G.I., dotsent, kandidat tekhnicheskikh nauk; RYKOV, I.I., kandidat tekhnicheskikh nauk; RYSHKOVSKIY, I.Ya., dotsent, kandidat tekhnicheskikh nauk; RYABKOV, A.Ya., professor [deceased]; TAGER, S.A., kandidat tekhnicheskikh nauk; KHAZEN, M.M., professor, doktor tekhnicheskikh nauk; CHERNYSHEV, M.A., doktor tekhnicheskikh nauk; EDIN, L.Ye., professor, doktor tekhnicheskikh nauk; YURGENEV, B.N., dotsent; AKSENOV, I.Ya., dotsent, kandidat tekhnicheskikh nauk; ARKHANGEL'SKIY, A.S., inzhener; BARTENEV, P.V., professor, doktor tekhnicheskikh nauk; BARNGARD, K.A., kandidat tekhnicheskikh nauk; BOROVOY, N.Ye., dotsent, kandidat tekhnicheskikh nauk; BOGDANOV, I.A., inzhener; BOGDANOV, N.K., kandidat tekhnicheskikh nauk; VINNICHENKO, N.G., dotsent, kandidat ekonomicheskikh nauk;

(Continued on next card)

VASIL'YEV, V.F.; GONCHAROV, N.G., inzhener; DERIBAS, A.T., inzhener; DOBROSEL'SKIY, K.M., dotsent, kandidat tekhnicheskikh nauk; DLUGACH, B.A., kandidat tekhnicheskikh nauk; YEFIMOV, G.P., kandidat tekhnicheskikh nauk; ZEMBLINOV, S.V., professor, doktor tekhnicheskikh nauk; ZABELLO, M.L., kandidat tekhnicheskikh nauk; IL'IN, K.P., kandidat tekhnicheskikh nauk; KARETNIKOV, A.D., kandidat tekhnicheskikh nauk; KAPLUN, F.Sh., inzhener; KANSHIN, M.D.; KOCHNEV, P.P., professor, doktor tekhnicheskikh nauk; KOGAN, L.A., kandidat tekhnicheskikh nauk; KUGHURIN, S.F., inzhener; LEVASHOV, A.D., inzhener; MAKSIMOVICH, B.M., dotsent, kandidat tekhnicheskikh nauk; MARTYNOV, M.S., inzhener; MEDEL', O.M., inzhener; NIKITIN, V.D., professor, kandidat tekhnicheskikh nauk; PADNYA, V.A., inzhener; PANTELEYEV, P.I., kandidat tekhnicheskikh nauk; PETROV, A.P., professor, doktor tekhnicheskikh nauk; POVOROZHENKO, V.V., professor, doktor tekhnicheskikh nauk; PISKAREV, I.I., dotsent, kandidat tekhnicheskikh nauk; SERGEYEV, Ye.S., kandidat tekhnicheskikh nauk; SIMONOV, K.S., kandidat tekhnicheskikh nauk; SIMANOVSKIY, M.A., inzhener; SUYAZOV, I.G., inzhener; TAILAYEV, F.Ya., inzhener; TIKHONOV, K.K., kandidat tekhnicheskikh nauk; USHAKOV, N.Ya., inzhenr; USPENSKIY, V.K., inzhener; FEL'DMAN, E.D., kandidat tekhnicheskikh nauk; FERAPONTOV, G.V., inzhener; KHOKHLOV, L.P., inzhenr; CHERNOKORDIK, G.I., professor, doktor tekhnicheskikh nauk; SHAMAYEV, M.F., inzhener; SHAVIRKIN, B.I., inzhener; YAKUSHIN, S.I., inzhener; ORANOVSKIY, P.G., redaktor; TISHCHENKO, A.I., redaktor; ISAYEV, I.P., dotsent, kandidat tekhnicheskikh nauk, redaktor; KLIMOV, V.F., dotsent kandidat tekhnicheskikh

(Continued on next card)

BENESHEVICH, I.I.--- (continued) Card 3.
nauk, redaktor; MARKOV, N.V., inzhener, redaktor; KALIUIN, V.K., inzhener, redaktor; STEPANOV, V.N., professor, redaktor; SIDOROV, N.I., inzhener, redaktor; GERONIMUS, B.Ye., kandidat tekhnicheskikh nauk, redaktor; ROBEL', R.I., otvetstvennyy redaktor

[Technical reference manual for railroad engineers] Tekhnicheskii spravochnik zheleznodorozhnika. Moskva, Gos. transp.zhel-dor. izd-vo. Vol.10. [Electric power supply for railroads] Energosnabzhenie zheleznykh dorog. Otv.red. toma K.G.Markvardt. 1956. 1080 p. Vol.13. [Operation of railroads] Ekspluatatsiia zheleznykh dorog. Otv. red. toma R.I.Robel'. 1956. 739 p. (MLRA 10:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Petrov)
(Electric railroads) (Railroads--Management)

ZASORIN, S.N., dotsent, kand.tekhn.nauk; KASATKIN, G.S., inzh.

Mutator using regulated silicon diodes. Trudy MIIT no.199:139-145 '65. (MIRA 18:8)

ZASORIN, S.N.

123-1-1021-D

Translation from: Referativnyy Zhurnal, Mashinostroyeniye, 1957, Nr 1, p. 153 (USSR)

AUTHOR: Zasorin, S. N.

TITLE: Study of New Design of Combination Receiver for Excessive Regenerated Energy (Issledovaniye novoy skhemy kombinirovannogo priyemnika izbytochnoy energii rekuperatsii)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the Moscow Institute of Railroad Engineering (Mosk.in-t inzh. zh.-d. transp.), Moscow, 1956

ASSOCIATION: Moscow Institute of Railroad Engineering (Mosk. in-t inzh. zh.-d. transp.)

Card 1/1

RYSHKOVSKIY, Isaak Yakovlevich, kand.tekhn.nauk, dotsent; ZASORIN, Sergey Nikolayevich, kand.tekhn.nauk, dotsent; ZAGITOV, N.A., kand.tekhn.nauk, dotsent, retsenzent; MEGERMAN, S.M., kand. tekhn.nauk, dotsent, retsenzent; SIDOROV, N.I., inzh., red.; VERINA, G.P., tekhn.red.

[Electric stations and traction substations] Elektricheskie stantsii i tiagovye podstantsii. Moskva, Gos.transp.zhel-dor. izd-vo, 1959. 343 p. (MIRA 12:12)
(Electric power plants) (Electric substations)

ZASORIN, S.N., inzhener; KUZ'MIN, B.V., inzhener.

Automatic direct current feeders with step-type selectors.
Trudy MEMIIT no.63:117-130 '53. (MLRA 7:12)
(Electric railroads--Substations)

ZASORIN, Sergey Nikolayevich, kand. tekhn. nauk; KARSH, Nikolay Arsen'yevich, kand. tekhn. nauk; KUCHMA, Kalinik Georgiyevich, kand. tekhn. nauk; CHERNYSHEV, Mikhail Aleksandrovich, doktor tekhn. nauk; BOBROVA, Ye.N., tekhn. red.

[Ionic and electronic current converters] Ionnye i elektronnye preobrazovateli. Pod obshchei red. M.A.Chernyshova. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 306 p. (MIRA 14:7)

(Electric current converters)
(Electric railroads--Current supply)

ETIN, Yuriy Benitsianovich; ZASORIN, V.I., red.

[Experience in the organization of work in using electronic computers] Opyt organizatsii raboty na elektronnykh vychislitel'nykh mashinakh. Leningrad, 1965. 15 p.
(MIRA 18:7)

MUSIYENKO, S.Z. [Musiienko, S.Z.]; ZASORIN, V.K.

Introduction of automation in the Berdiansk glass fiber factory.
Leh.prom. no.3:71-73 Je - Ag '62. (MIRA 16:2)
(Berdiansk—Glass fiber industry)

RAMBIDI, N.G.; AKISHIN, P.A.; ZASORIN, Ye.Z.

Electron diffraction study of the structure of uranium tetrabromide molecule in the vapor phase. Zhur. fiz. khim. 35 no.5: 1171 My '61. (MIRA 16:7)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
(Uranium bromide)
(Electron diffraction examination)

ZASORIN, Ye. Z.; RAMBIDI, N. G.; AKISHIN, P. A.

"Electron-diffraction study of gaseous molybdenum trioxide."

report submitted for 6th Gen Assembly, Intl Union of Crystallography, Rome, 9 Sep 63.

Chemical Dept, Moscow State Univ.

ZASORIN, Yo.Z.; RAMBIDI, N.G.; AKISHIN, P.A.

Electron diffraction study of the structure of molecules of iron (III) chloride in vapors. Zhur.strukt.khim. 4 no.6:910-912 N-D '63. (MIRA 17:4)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

RAMBIDI, N.G.; ZASORIN, Ye.Z.

Use of superheated steam in a double effusion chamber in studying the structure of monomer molecules of aluminum and iron chlorides. Teplofiz. vys. temp. 2 no.5:705-709 S-O '64.

(MIRA 17:11)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

VILKOV, L. V.; ZASORIN, Ye.Z.; RAMBIDI, N. G.; SPIRIDONOV, V. P.

"Electron Diffraction Investigation of the Molecular structure of Some Gaseous Oxides"

SUMMARY: There exists very little data in the literature on the structure and geometrical parameters of gaseous oxides of various elements. However, the Diffraction Laboratory of the Department of Chemistry of Moscow University carried out systematic electron-diffraction investigations of the geometry of various oxides in the vapor state, and in this paper the authors give us the results of the electron-diffraction study of the following gaseous oxides:

Li_2O, B_2O_3, P_4O_{10}, Sb_4O_6, and Cl_2O_7

Report to be submitted at the International Conference on Magnetism and Crystallography, Kyoto, Japan, 25-30 Sept 1961

Moscow State University

RAMBIDI, N.G.; ZASORIN, Ye.Z.; SHCHEDRIN, B.M.

Separation of the molecular component of the intensity of scattering in gaseous electron diffraction. Part 1: General correlations. Zhur. strukt. khim. 5 no.4:503-509 Ag '64. (MIRA 18:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

AUTHORS: Akishin, P.A., Rambidi, N.G. and Zasorin, Yc.Z. SOV/70-4-3-12/32

TITLE: An Electronographic Investigation of the Structure of Phosphorus Pentoxide

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 3, pp 360-364 (USSR)

ABSTRACT: The structure of the well-known P_4O_{10} molecule (with tetrahedral symmetry) has been refined giving P-O distances of 1.60 ± 0.01 Å (between P atoms) and 1.40 ± 0.03 Å (at corner P atoms) with POP angles of $124^\circ 30' \pm 1^\circ$. These compare with 1.62 ± 0.02, 1.39 ± 0.02 and $123^\circ 30' \pm 1^\circ$ found by Hampson and Stosick (Ref 3). Electronograms were made of the phosphorus pentoxide vapour with the Moscow University apparatus. Vapour was evaporated from a Mo ampule at a pressure (in the ampule) of 5-10 mm Hg. Electronograms were taken with the superposition of two-bladed s^- and s^3 sectors to even out the backgrounds. The patterns were microphotometered and the intensity distributors were inverted to radial density distributions after Karle (Ref 10). Successive approximation methods of matching the scattering curve were

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also applied for the last refinements. The Strela machine of the university computing centre was used for all calculations. Wavelengths used were 0.0443 to 0.0605 Å. Hampson and Stosick's measurements were based on visual estimations of intensities and the present experimental data should be considerably better than theirs. A table of the final calculated and observed values of the positions of the intensity maxima and minima shows a very satisfactory agreement and gives a mean value for s(theoretical) / s (experimental) of 1.000 ± 0.007 for 17 points. There are 3 figures, 3 tables and 12 references, of which 2 are Soviet, 5 English, 1 Japanese, 1 international, 2 French and 1 German.

An Electronographic Investigation of the Structure of Phosphorus Pentoxide SOV/70-4-3-12/32

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

SUBMITTED: July 19, 1958

Card 3/3

AUTHORS: Akishin, P.A., Rambidi, N.G. and Zasorin, E.Z. SOV/70-4-2-7/36

TITLE: The Electronographic Study of the Structures of Molecules of the Aluminium Halides (Elektronograficheskoye issledovaniye stroyeniya molekul galogenidov alyuminiya)

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 2, pp 186-193 (USSR)

ABSTRACT: Electron-deficient molecules such as the Al_2X_6 aluminium halides are of current interest. The existence of dimers has been confirmed by spectra of combination scattering in melts, vapour pressure, X-ray structure analysis, I.R. absorption, etc. Electronographic studies were made at a vapour pressure of about 10 mm Hg at 40, 60 and 80 kV. For each material 15-25 series of exposures were made. Precautions were taken against hydrolysis. After photometry, radial distribution curves were calculated from:

$$D(r) = \int_0^{s_{max}} sI(s) \cdot \exp(-as^2) \sin sr \cdot ds$$

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after Karle and Karle (Ref 14). The theoretical curves for refinement of parameters were calculated on the Strela machine from:

$$I(s) = \sum_{ij} Z_i Z_j \cdot \exp\left(\frac{l_{ij}^2}{2} s^2\right) \frac{\sin sr}{sr} .$$

Numerical data on the scattering curves are given. The results found were: fluoride - plane AlF_3 triangle with Al - F = 1.63 ± 0.01 Å, F - F = 2.82 ± 0.02 Å, F - Al - F = 120°; chloride - bridge model of Al_2Cl_6 with symmetry D_{2h} and Al - Cl = 2.04 ± 0.02 Å ($r_{1,3}$), Al - Cl = 2.24 ± 0.02 Å ($r_{1,8}$), α = 122° ± 3, Card2/4 β = 87 ± 3 : bromide - bridge model Al_2Br_6 with symmetry

V_h and Al - Br = 2.22 ± 0.02 Å ($r_{1,3}$), Al - Br = = 2.38 ± 0.02 Å ($r_{1,8}$) $\alpha = 118^\circ \pm 3$, $\beta = 82^\circ \pm 3$; iodide - plane AlI_3 triangle, Al - I = 2.44 ± 0.02 Å, I - Al - I = 120° (assumed). The dimer was also present in the iodide vapour.

AlF_3 has not been hitherto examined. The results for the Al_2X_6 molecules agree best with Hamilton's calculations of the structure of diborane by the self-consistent molecular orbital method. He described the valency state by an sp^2 hydrid wave function giving a bond angle of 120°. The angle of ≈90° is explained by supplementary hybridisation of sp^2 - and p-orbitals perpendicular to the plane of the sp^2 function. (in accordance with the work of Hamilton (Ref 21)). Acknowledgments are made to K.N. Semenenko and B.M. Shchedrin.

The Electronographic Study of the Structures of Molecules of the Aluminium Halides SOV/70-4-2-7/36

There are 4 figures, 3 tables and 21 references, 2 of which are Soviet, 3 German, 2 French and 14 English.

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

SUBMITTED: July 15, 1958

Card 4/4

ZASORINA, L. N.

28(2) PHASE I BOOK EXPLOITATION SOV/2146

Leningrad. Universitet

Materialy po mashinnomu perevodu; sbornik 1 (Materials on Machine Translation; A Collection of Articles No 1) Leningrad, Ind-vo Leningr. un-ta., 1958. 228 p. 1,000 copies printed.

No contributors mentioned.

PURPOSE: The book is for students, scientists, and engineers interested in machine translation.

COVERAGE: This collection of 15 articles is published as volume I of the Materials on Machine Translation. It represents the work of 25 Soviet scientists at the Leningrad University Experimental Laboratory for Machine Translation which was created in March 1958 to continue research on translating with the aid of electronic machines. Although the present volume deals with both the theoretical and the practical aspect of machine translating, the emphasis is on the compilation of algorithms for a number of languages, many of them Asiatic. There are no references.

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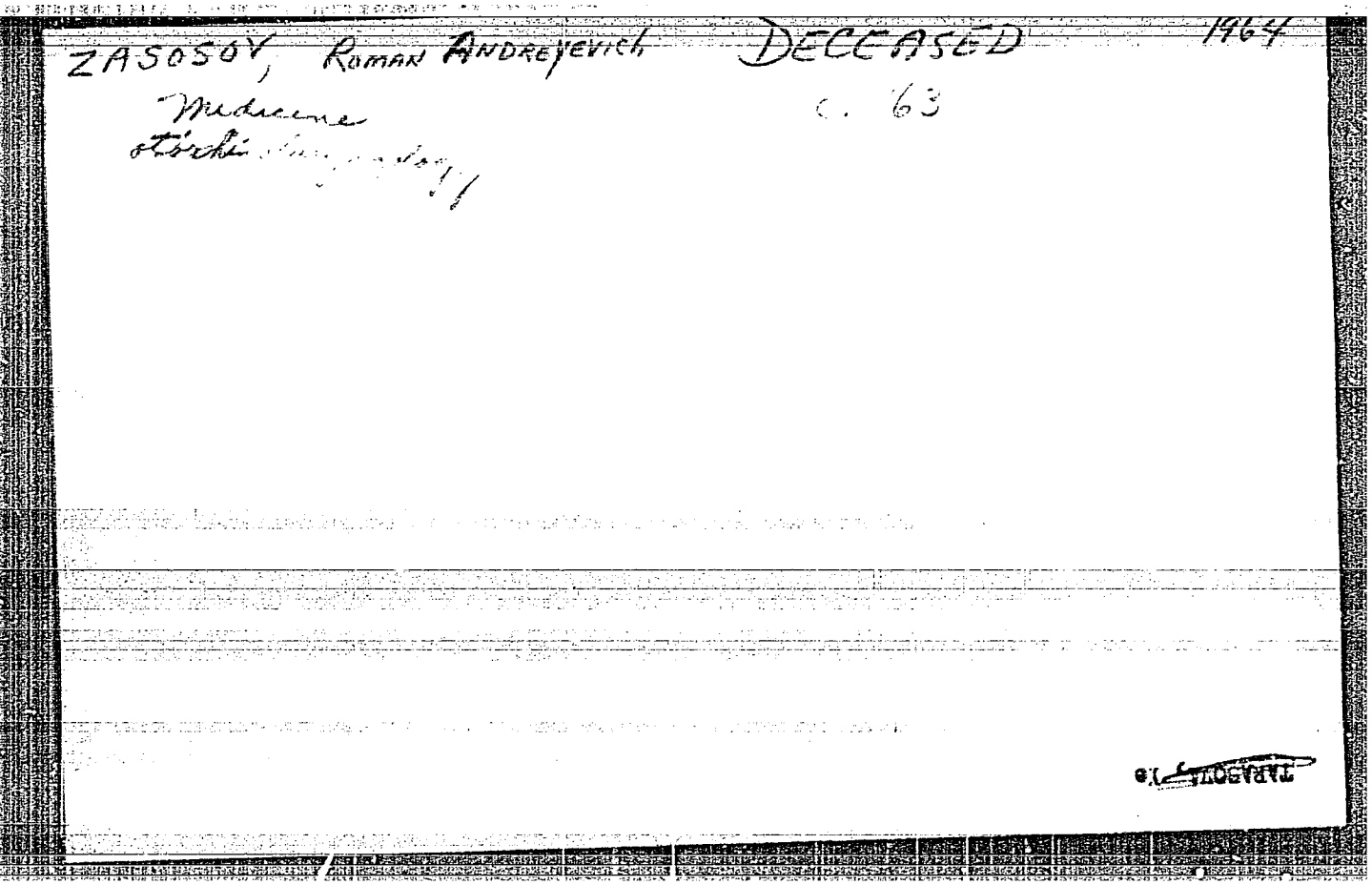
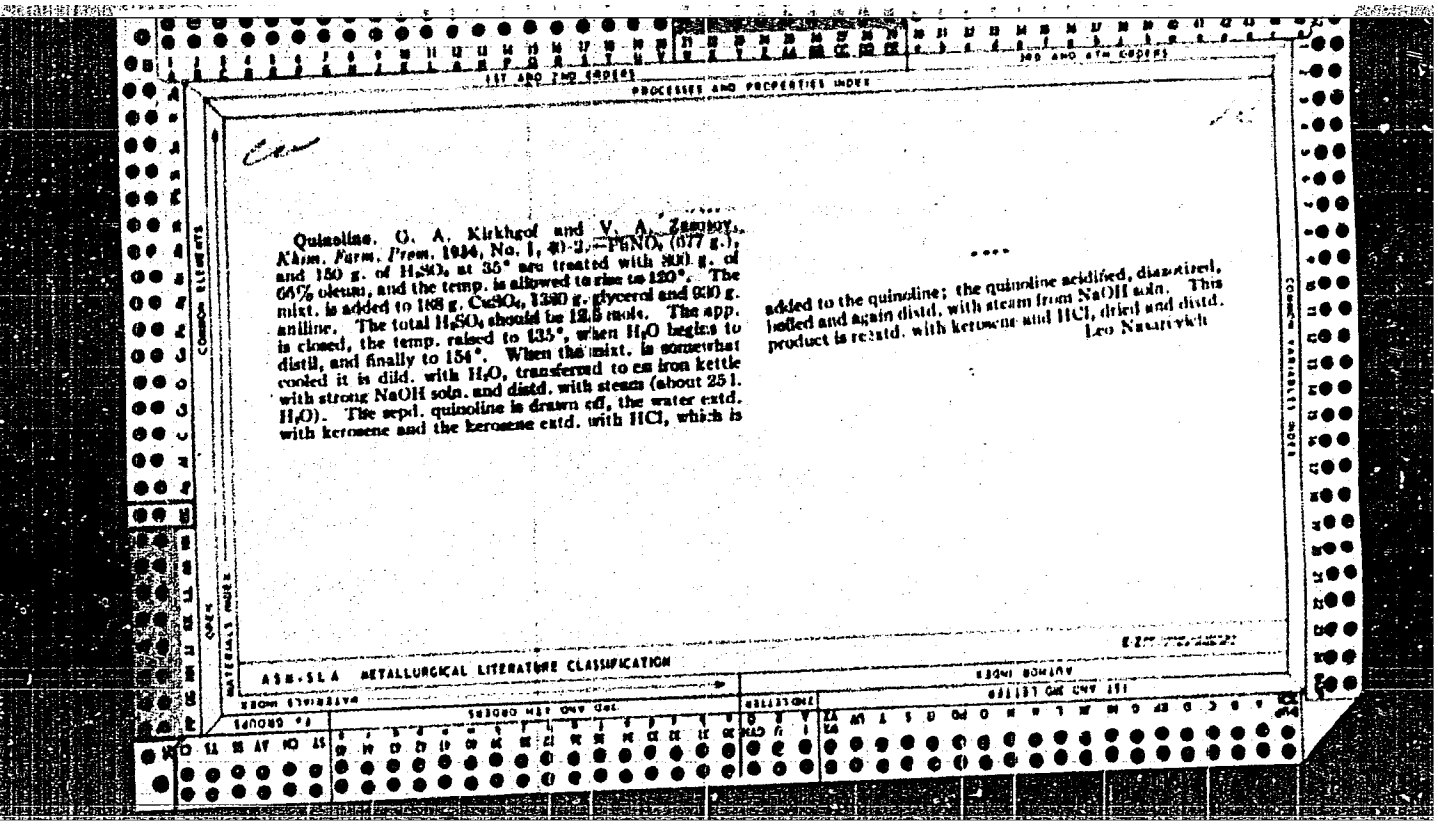
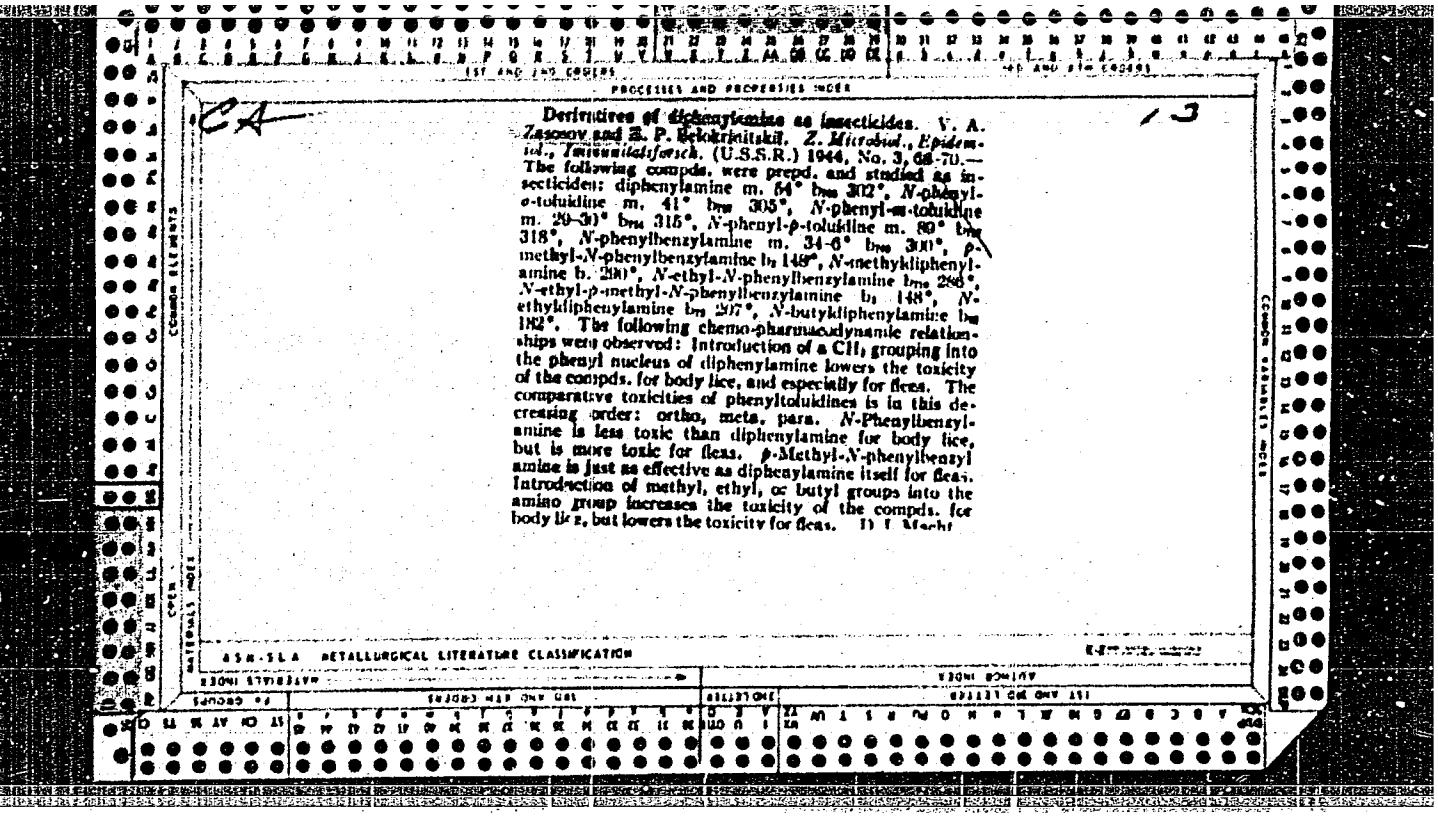
Combining the oxidation and regeneration of the oxidant in the production of oxalic acid. Trudy VNIITP no.18:213-220 '61. (MIRA 17:1)





Quinoline. O. A. Kirkhgof and V. A. Zagorny, *Khim. Farm. Prom.* 1934, No. 1, 40-2.—$PhNO_2$ (677 g.), and 150 g. of H_2SO_4 at 35° are treated with 300 g. of 66% oleum, and the temp. is allowed to rise to 120°. The mixt. is added to 188 g. $CuSO_4$, 1380 g. glycerol and 930 g. aniline. The total H_2SO_4 should be 12.5 mols. The app. is closed, the temp. raised to 135°, when H_2O begins to distil, and finally to 154°. When the mixt. is somewhat cooled it is dild. with H_2O, transferred to an iron kettle with strong NaOH soln. and distd. with steam (about 25 l. H_2O). The sepd. quinoline is drawn off, the water extd. with kerosene and the kerosene extd. with HCl, which is added to the quinoline; the quinoline acidified, diazotized, boiled and again distd. with steam from NaOH soln. This product is rectd. with kerosene and HCl, dried and distd.

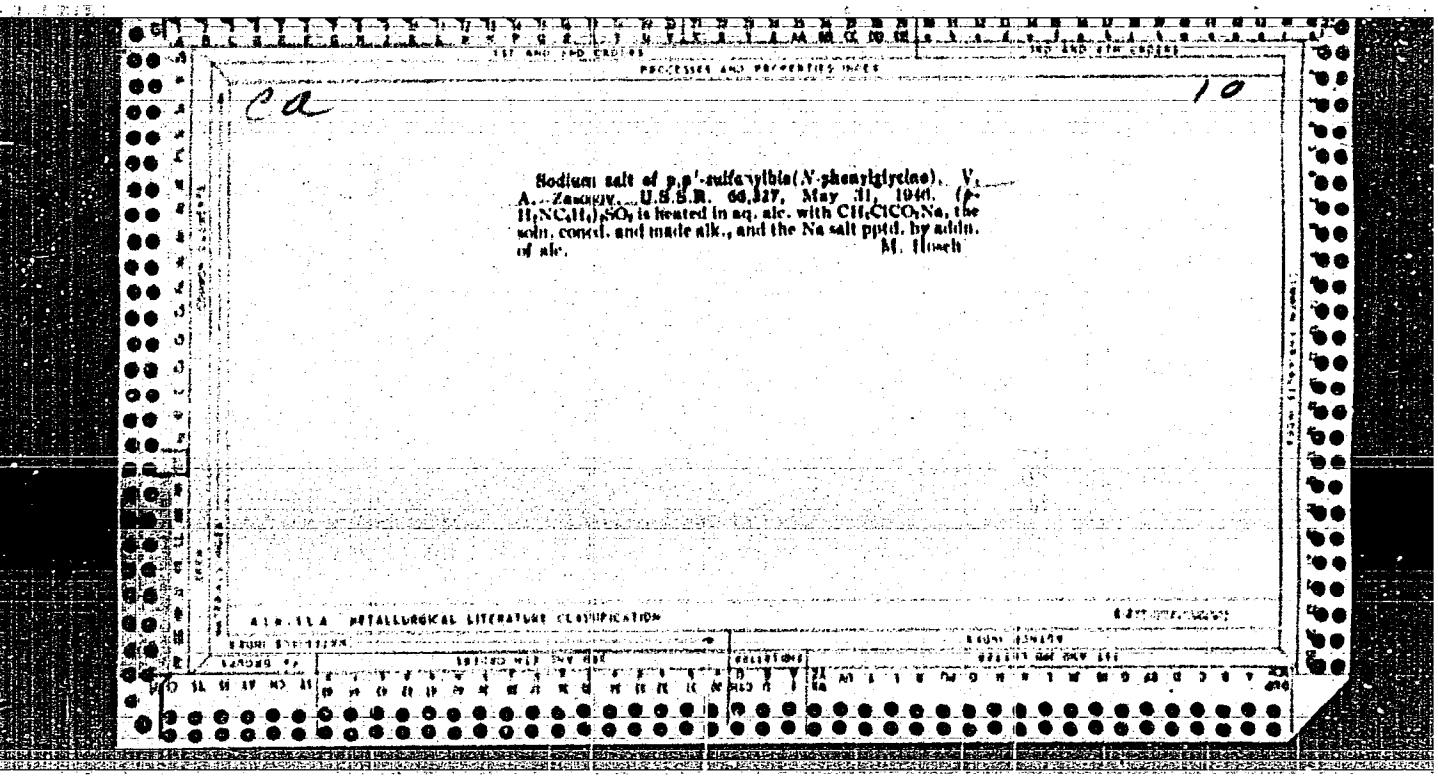
Leo Nasarychin



CA

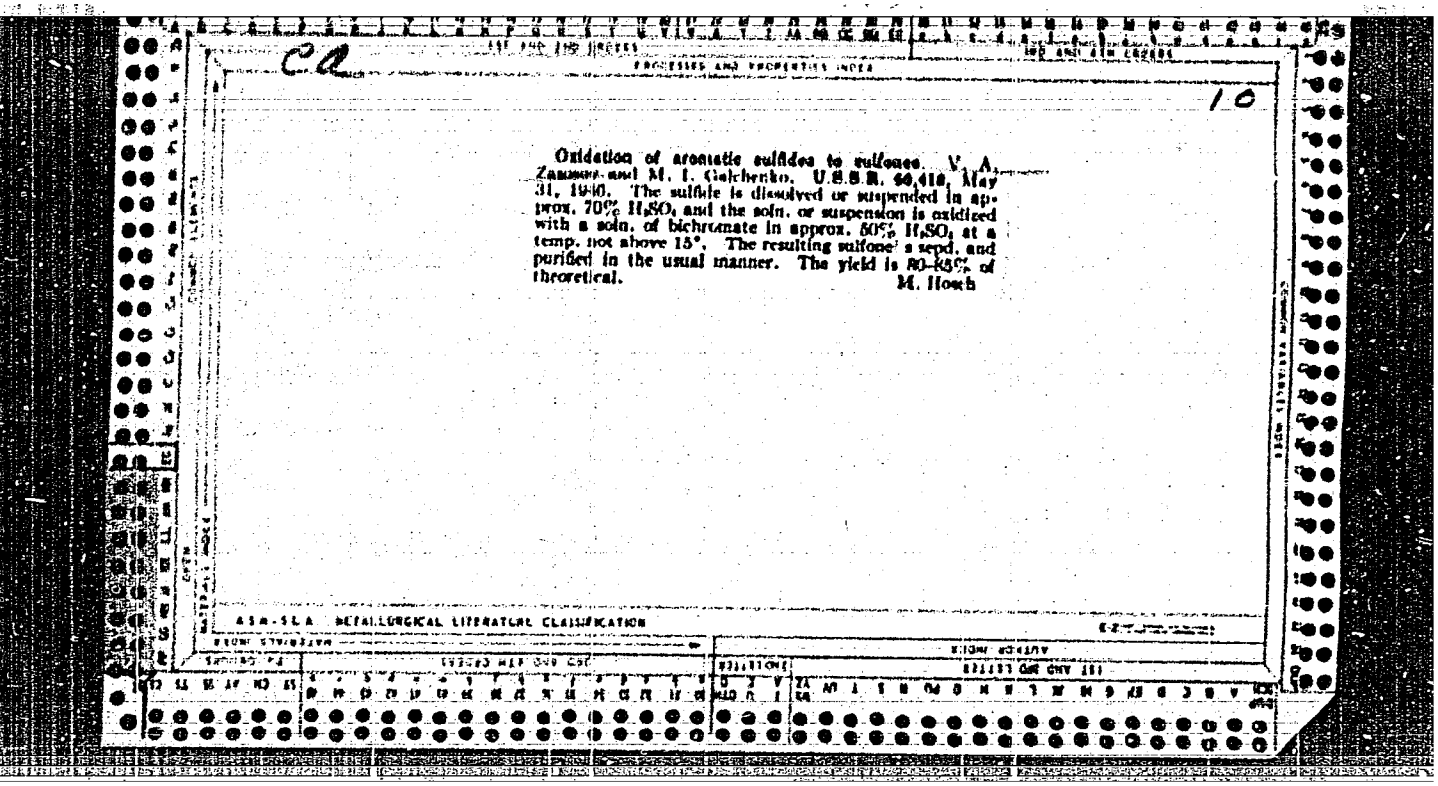
13

Derivatives of diphenylamine as insecticides. V. A. Zasosov and Z. P. Sokolnikitskii. *Z. Mikrobiol., Epidemiol., Immunobiologiich.* (U.S.S.R.) 1946, No. 3, 68-70.—The following compds. were prepd. and studied as insecticides: diphenylamine m. 54° b_{760} 302°, *N*-phenyl-*o*-toluidine m. 41° b_{760} 305°, *N*-phenyl-*m*-toluidine m. 29–30° b_{760} 315°, *N*-phenyl-*p*-toluidine m. 89° b_{760} 318°, *N*-phenylbenzylamine m. 34–6° b_{760} 301°, *p*-methyl-*N*-phenylbenzylamine b_{5} 148°, *N*-methyldiphenylamine b. 280°, *N*-ethyl-*N*-phenylbenzylamine b_{760} 296°, *N*-ethyl-*p*-methyl-*N*-phenylbenzylamine b_{5} 148°, *N*-ethyldiphenylamine b_{20} 207°, *N*-butyldiphenylamine b_{20} 192°. The following chemo-pharmacodynamic relationships were observed: Introduction of a CH_3 grouping into the phenyl nucleus of diphenylamine lowers the toxicity of the compds. for body lice, and especially for fleas. The comparative toxicities of phenyltoluidines is in this decreasing order: ortho, meta, para. *N*-Phenylbenzylamine is less toxic than diphenylamine for body lice, but is more toxic for fleas. *p*-Methyl-*N*-phenylbenzylamine is just as effective as diphenylamine itself for fleas. Introduction of methyl, ethyl, or butyl groups into the amino group increases the toxicity of the compds. for body lice, but lowers the toxicity for fleas. D. F. Kasch

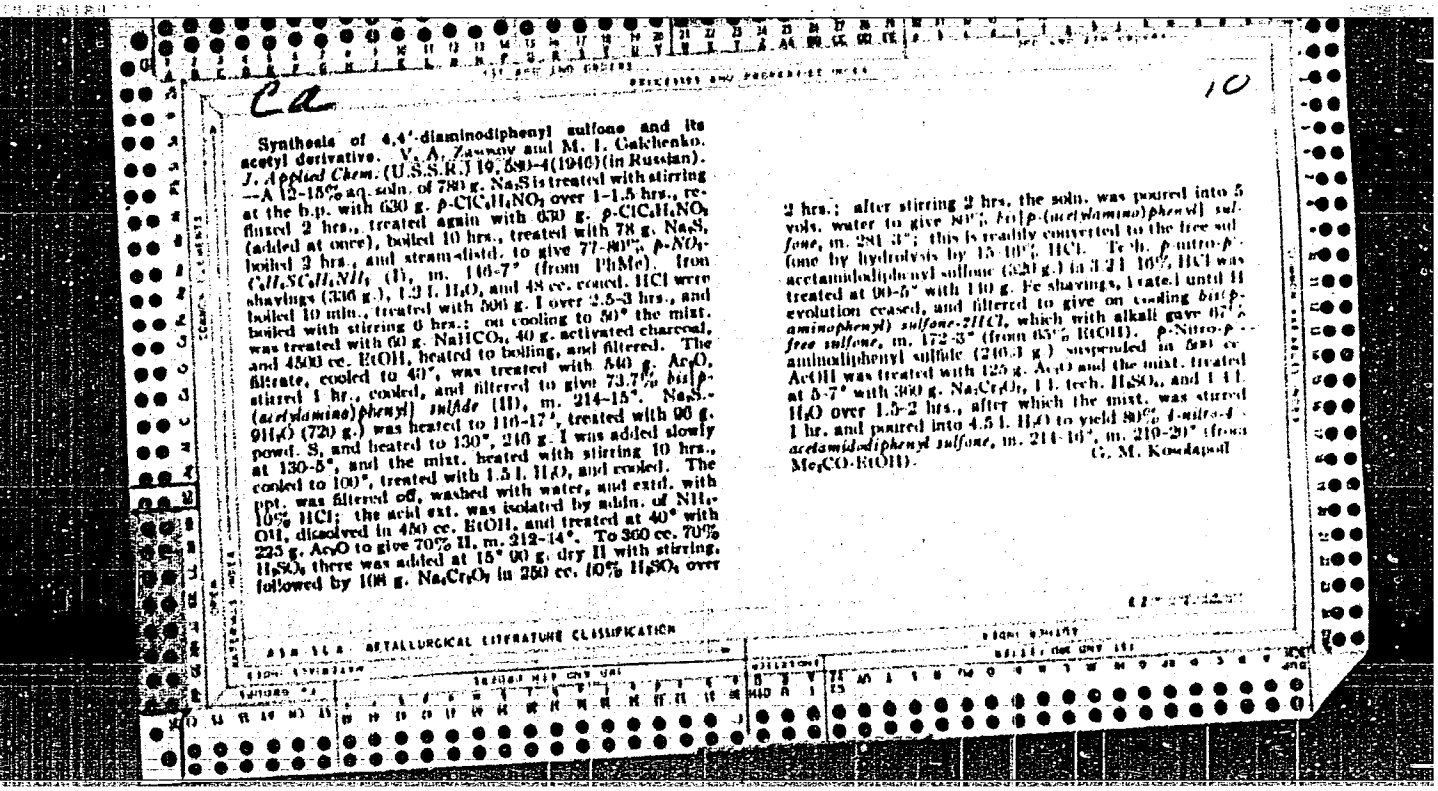


Ca 10

Sodium salt of p,p'-sulfonylbis(*N*-phenylglycine). V. A. Zaugolnyi. U.S.S.R. 66,327, May 31, 1946. (*p*-$H_2NC_6H_4)_2SO_2$ is heated in aq. alc. with ClH_2CCO_2Na, the soln. concd. and made alk., and the Na salt ppted. by addn. of alc. M. Hoch



Oxidation of aromatic sulfides to sulfones. V. A. Zamaraev and M. I. Gelcherkin. U.S.S.R. 60,418, May 31, 1940. The sulfide is dissolved or suspended in approx. 70% H_2SO_4 and the soln. or suspension is oxidized with a soln. of bichromate in approx. 50% H_2SO_4 at a temp. not above 15°. The resulting sulfone is sepd. and purified in the usual manner. The yield is 80–85% of theoretical.
M. Hoch



Ca 10

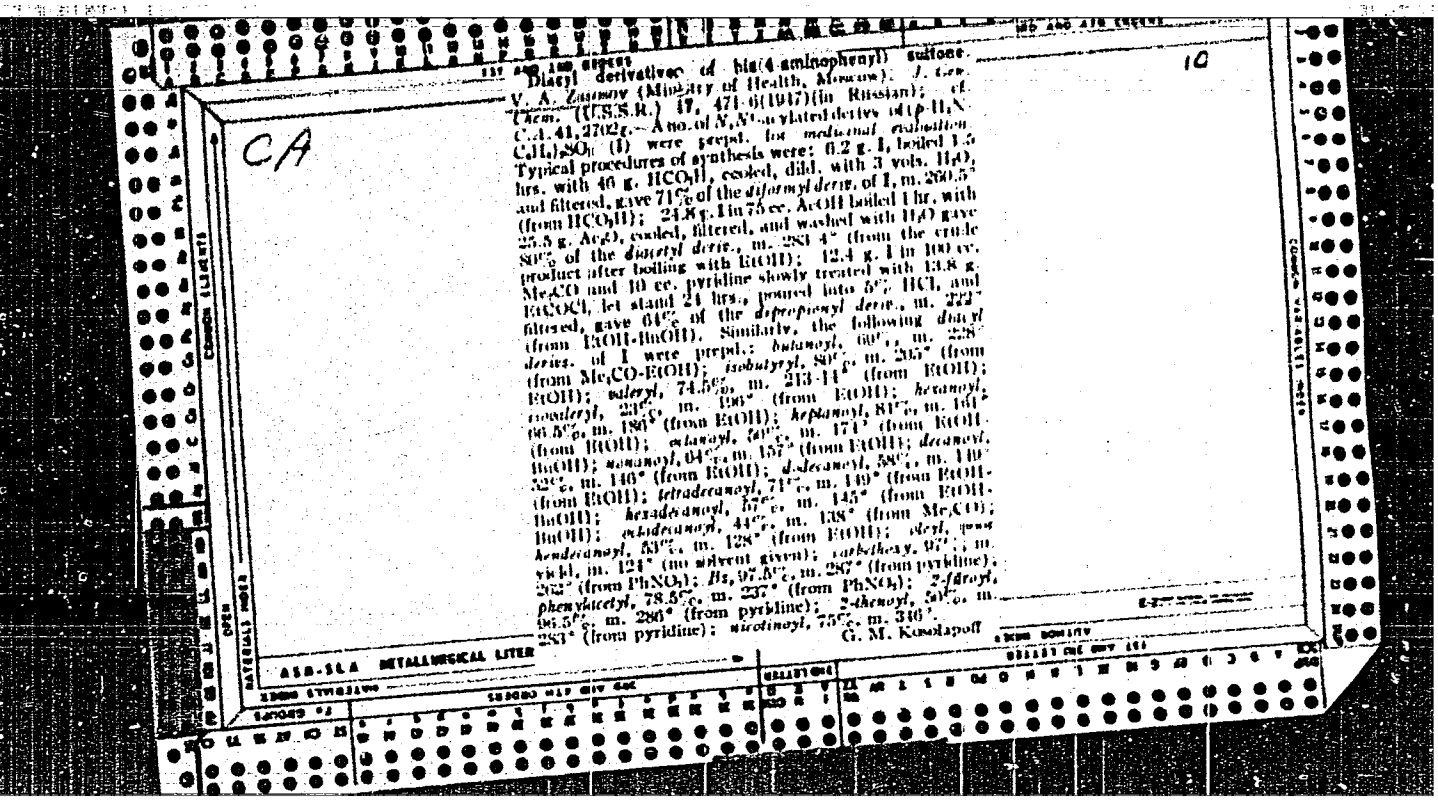
Synthesis of 4,4'-diaminodiphenyl sulfone and its acetyl derivative. V. A. Zaeuov and M. I. Gaichenko. *J. Applied Chem.* (U.S.S.R.) 19, 589–4(1946)(in Russian). —A 12–15% aq. soln. of 780 g. Na_2S is treated with stirring over 1–1.5 hrs., refluxed 2 hrs., treated again with 630 g. *p*-$ClC_6H_4NO_2$ (added at once), boiled 10 hrs., treated with 78 g. Na_2S, boiled 2 hrs., and steam-distd. to give 77–80% *p*-$NO_2C_6H_4SC_6H_4NH_2$ (I), m. 146–7° (from PhMe). Iron shavings (336 g.), 1.2 l. H_2O, and 48 cc. concd. HCl were boiled 10 min., treated with 500 g. I over 2.5–3 hrs., and boiled with stirring 6 hrs.; on cooling to 50° the mixt. was treated with 60 g. $NaHCO_3$, 40 g. activated charcoal, and 4500 cc. EtOH, heated to boiling, and filtered. The filtrate, cooled to 40°, was treated with 540 g. Ac_2O, stirred 1 hr., cooled, and filtered to give 73.7% *bis*[*p*-(*acetylamino*)*phenyl*] *sulfide* (II), m. 214–15°. $Na_2S \cdot 9H_2O$ (720 g.) was heated to 110–17°, treated with 90 g. powd. S, and heated to 130°, 240 g. I was added slowly at 130–5°, and the mixt. heated with stirring 10 hrs., cooled to 100°, treated with 1.5 l. H_2O, and cooled. The ppt. was filtered off, washed with water, and extd. with 10% HCl; the acid ext. was isolated by addn. of NH_4OH, dissolved in 480 cc. EtOH, and treated at 40° with 225 g. Ac_2O to give 70% II, m. 212–14°. To 360 cc. 70% H_2SO_4 there was added at 15° 90 g. dry II with stirring, followed by 108 g. $Na_2Cr_2O_7$ in 250 cc. 40% H_2SO_4 over 2 hrs.; after stirring 2 hrs. the soln. was poured into 5 vols. water to give 80% *bis*[*p*-(*acetylamino*)*phenyl*] *sulfone*, m. 281–3°; this is readily converted to the free sulfone by hydrolysis by 15–10% HCl. To 4 l. *p*-nitro-*p*'-acetamidodiphenyl sulfone (620 g.) in 3.2 l. 10% HCl was treated at 90–5° with 140 g. Fe shavings, 1 cate.] until H evolution ceased, and filtered to give on cooling *bis*(*p*-*aminophenyl*) *sulfone*·2HCl, which with alkali gave 67% *free sulfone*, m. 172–3° (from 65% EtOH). *p*-Nitro-*p*'-anilinodiphenyl sulfide (240.3 g.) suspended in 800 cc. AcOH was treated with 125 g. Ac_2O and the mixt. treated at 5–7° with 300 g. $Na_2Cr_2O_7$, 1 l. tech. H_2SO_4, and 1 l. H_2O over 1.5–2 hrs., after which the mixt. was stirred 1 hr. and poured into 4.5 l. H_2O to yield 80% *4-nitro-4'*-

Me₂CO-EtOH). G. M. Kosolapoff

ZASOSOV, V. A. Cand. Chem. Sci.

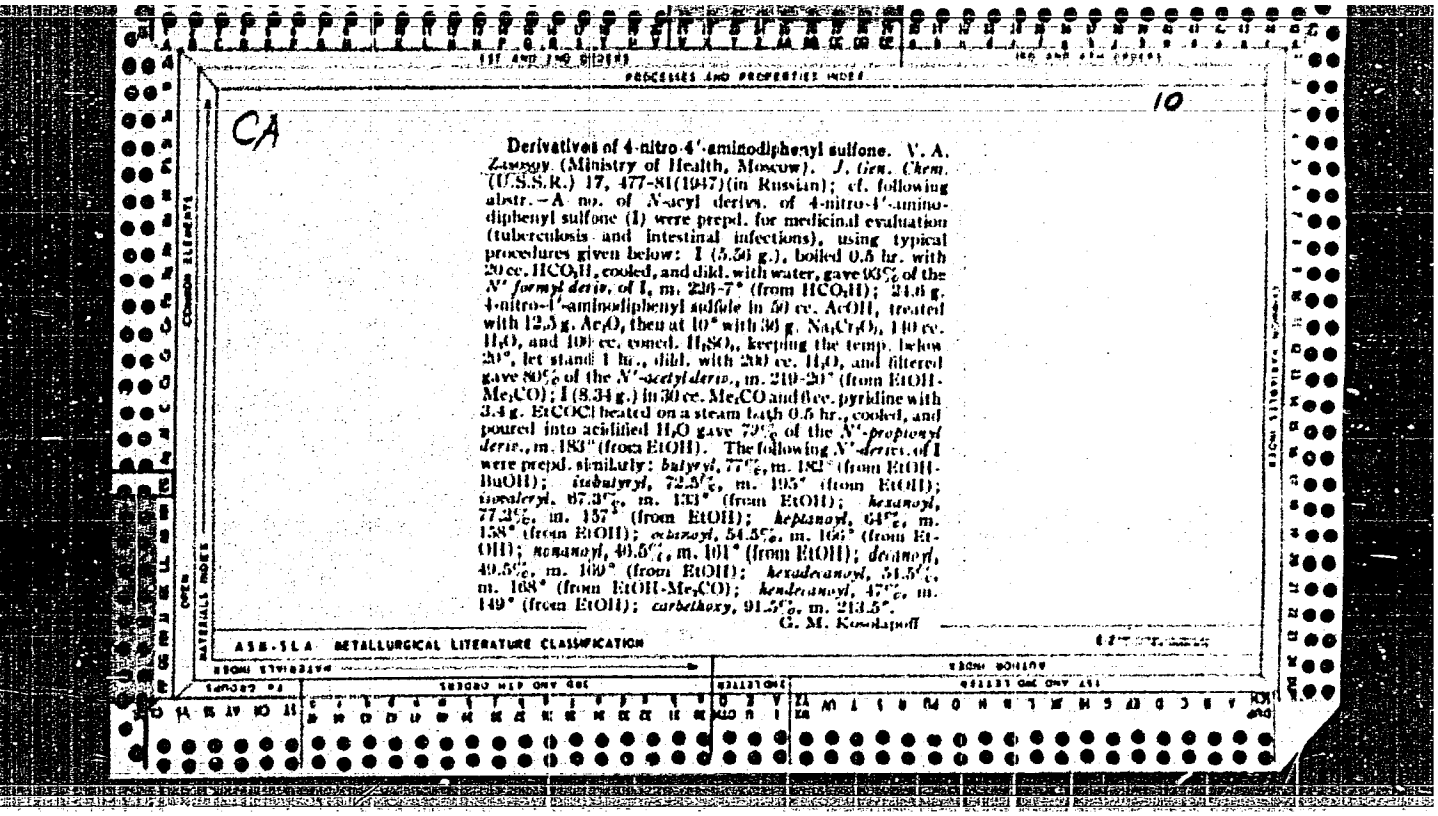
Dissertation: "Research in the Field of Organic Compounds of Group Four Elements." Moscow Order of Lenin State U imeni M. V. Lomonosov, 24 Dec 47.

SO: Vechernyaya Moskva, Dec, 1947 (Project #17836)



Diacyl derivatives of bis(4-aminophenyl) sulfone.
V. A. Zasosov (Ministry of Health, Moscow). *J. Gen. Chem.* (U.S.S.R.) 17, 471-6(1947)(in Russian); cf. *C.A.* 41, 2702g.—A no. of *N,N'*-acylated derivs. of $C_{12}H_{12}N_2SO_2$ (I) were prepd. for *medicinal evaluation*. Typical procedures of synthesis were: 0.2 g. I, boiled 1.5 hrs. with 40 g. HCO_2H, cooled, dild. with 3 vols. H_2O, and filtered, gave 71% of the *diformyl deriv.* of I, m. 260.5° (from HCO_2H); 24.8 g. I in 75 cc. AcOH boiled 1 hr. with 25.5 g. Ac_2O, cooled, filtered, and washed with H_2O gave 80% of the *diacetyl deriv.*, m. 283.4° (from the crude product after boiling with EtOH); 12.4 g. I in 100 cc. Me_2CO and 10 cc. pyridine slowly treated with 13.8 g. EtCOCl, let stand 24 hrs., poured into 5% HCl, and filtered, gave 64% of the *dipropionyl deriv.*, m. 222° (from EtOH-BuOH). Similarly, the following *diacyl derivs.* of I were prepd.: *butanoyl*, 60%, m. 228° (from Me_2CO-EtOH); *isobutyryl*, 80%, m. 265° (from EtOH); *valeryl*, 74.5%, m. 213-14° (from EtOH); *isovaleryl*, 23%, m. 190° (from EtOH); *hexanoyl*, 96.5%, m. 186° (from EtOH); *heptanoyl*, 81%, m. 161° (from EtOH); *octanoyl*, 94%, m. 157° (from EtOH); *decanoyl*, 52%, m. 146° (from EtOH); *undecanoyl*, 58%, m. 140° (from EtOH); *tetradecanoyl*, 71%, m. 149° (from EtOH-BuOH); *hexadecanoyl*, 57%, m. 145° (from EtOH-BuOH); *octadecanoyl*, 44%, m. 138° (from EtOH); *oleyl*, *undecanoyl*, 53%, m. 128° (from EtOH); *oleyl*, yield, m. 124° (no solvent given); *carbethoxy*, 97%, m. 262° (from $PhNO_2$); *Bz*, 97.5%, m. 287° (from pyridine), 262° (from $PhNO_2$); *3-furoyl*, 78.5%, m. 237° (from $PhNO_2$); *phenylacetyl*, 96.5%, m. 286° (from pyridine); *2-thenoyl*, 50%, m. 283° (from pyridine); *nicotinoyl*, 75%, m. 316°.

G. M. Kosolapoff



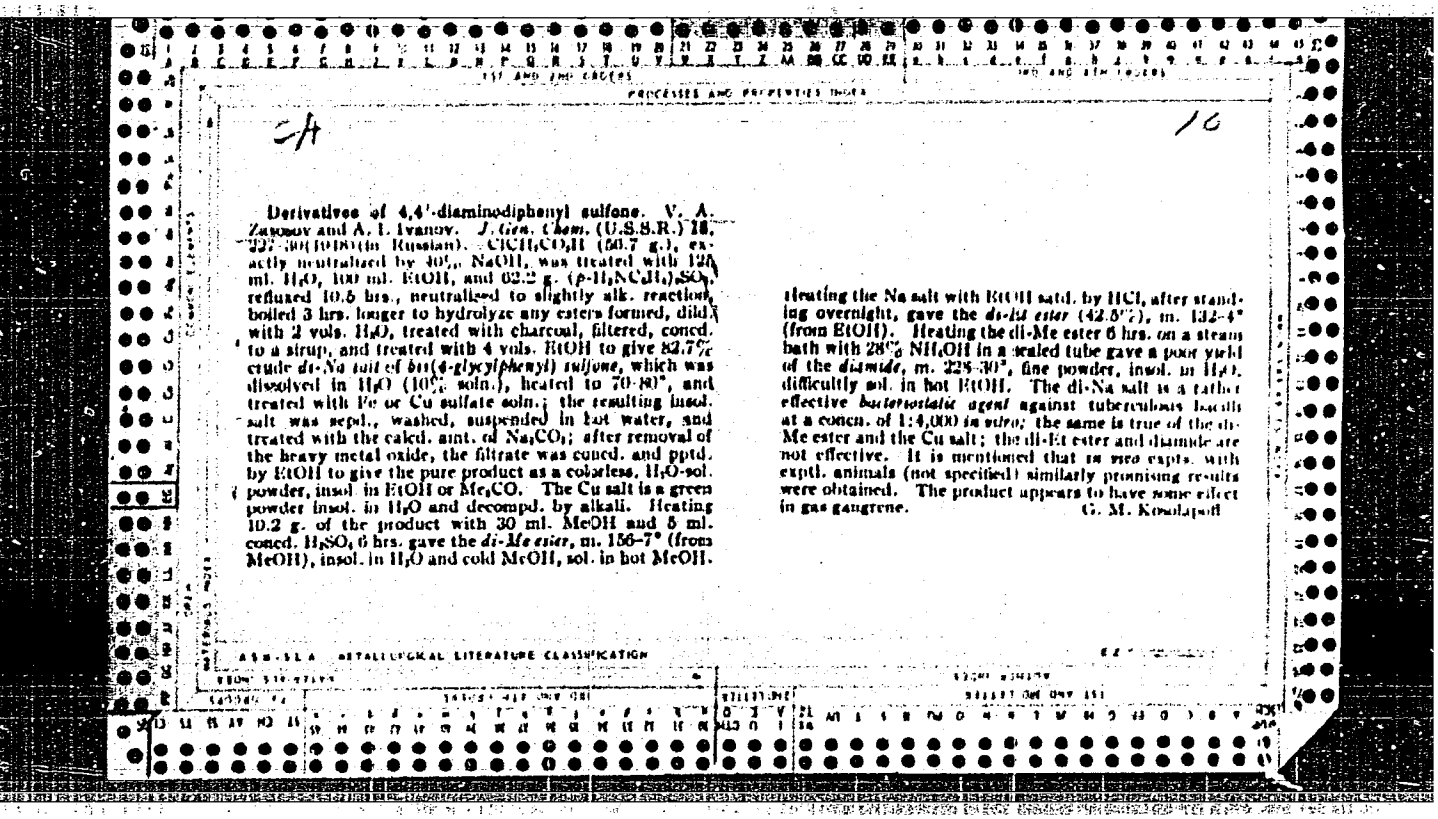
CA

10

Derivatives of 4-nitro-4'-aminodiphenyl sulfone. V. A. Zaregoy (Ministry of Health, Moscow). *J. Gen. Chem.* (U.S.S.R.) 17, 477-81(1947)(in Russian); cf. following abstr.—A no. of *N*-acyl derivs. of 4-nitro-4'-aminodiphenyl sulfone (I) were prepd. for medicinal evaluation (tuberculosis and intestinal infections), using typical procedures given below: I (5.56 g.), boiled 0.5 hr. with 20 cc. HCO_2H, cooled, and dild. with water, gave 93% of the *N'-formyl deriv.* of I, m. 220-7° (from HCO_2H); 24.6 g. 4-nitro-4'-aminodiphenyl sulfide in 50 cc. AcOH, treated with 12.5 g. Ac_2O, then at 10° with 30 g. $Na_2Cr_2O_7$, 140 cc. H_2O, and 100 cc. concd. H_2SO_4, keeping the temp. below 20°, let stand 1 hr., dild. with 200 cc. H_2O, and filtered gave 80% of the *N'-acetyl deriv.*, m. 210-20° (from EtOH-Me_2CO); I (8.34 g.) in 30 cc. Me_2CO and 6 cc. pyridine with 3.4 g. EtCOCl heated on a steam bath 0.5 hr., cooled, and poured into acidified H_2O gave 79% of the *N'-propionyl deriv.*, m. 183° (from EtOH). The following *N'-derivs.* of I were prepd. similarly: *butyryl*, 77%, m. 182° (from EtOH-BuOH); *isobutyryl*, 72.5%, m. 195° (from EtOH); *isovaleryl*, 97.3%, m. 133° (from EtOH); *hexanoyl*, 77.3%, m. 157° (from EtOH); *heptanoyl*, 64%, m. 158° (from EtOH); *octanoyl*, 54.5%, m. 166° (from EtOH); *nonanoyl*, 40.5%, m. 101° (from EtOH); *decanoyl*, 49.5%, m. 160° (from EtOH); *hexadecanoyl*, 51.5%, m. 168° (from EtOH-Me_2CO); *hendecanoyl*, 47%, m. 149° (from EtOH); *carbethoxy*, 91.5%, m. 213.5°.

G. M. Kosolapoff

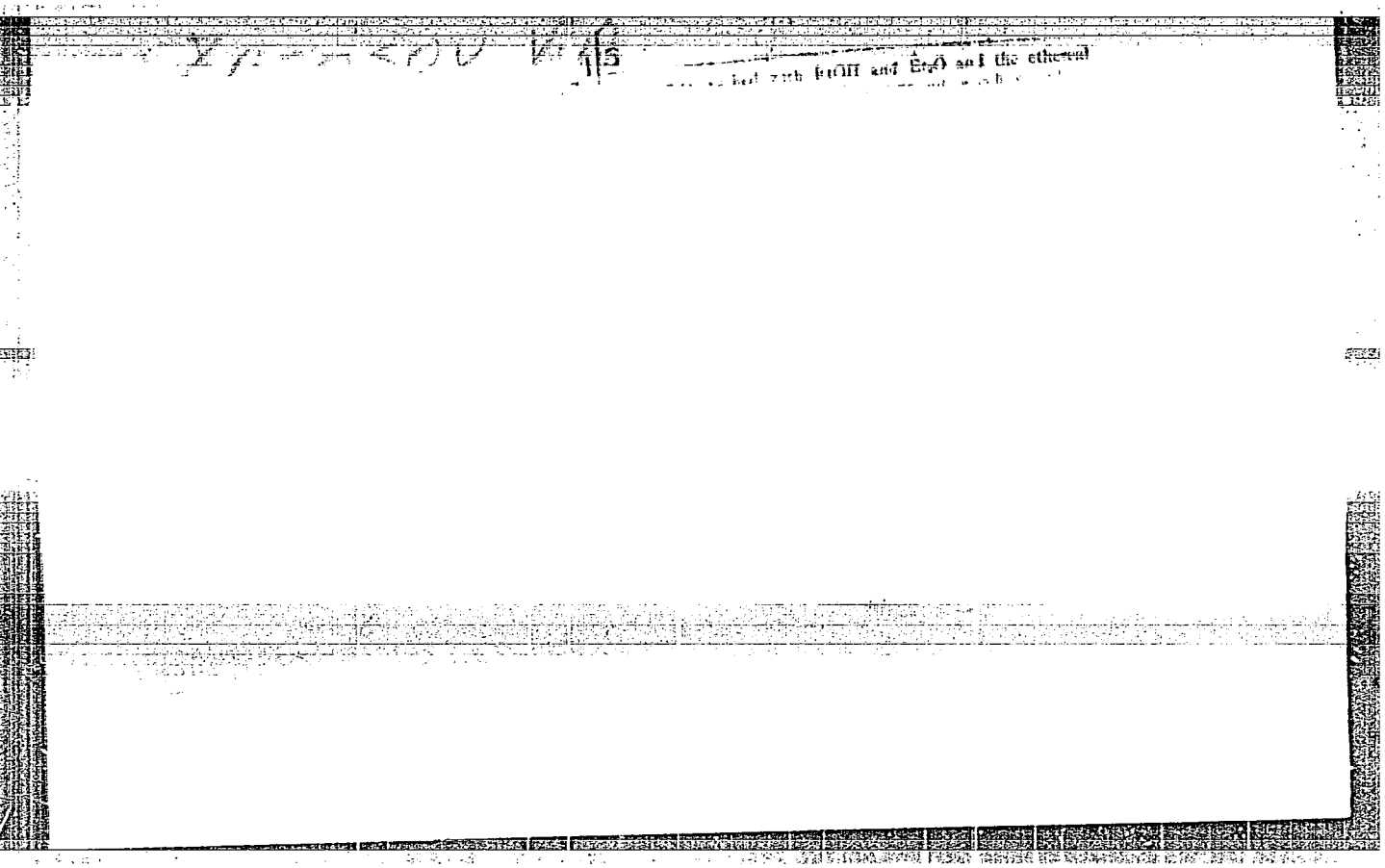
ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

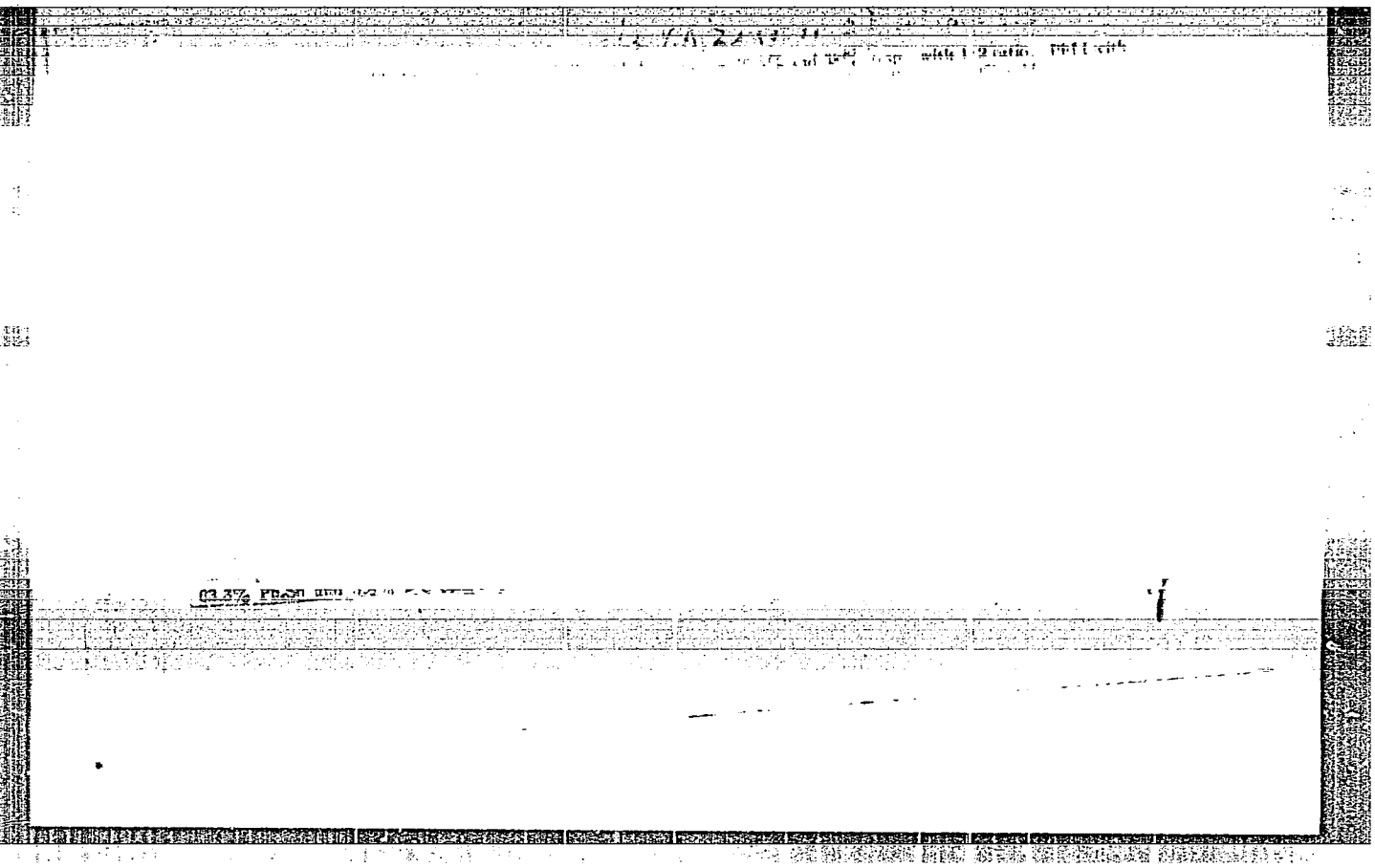


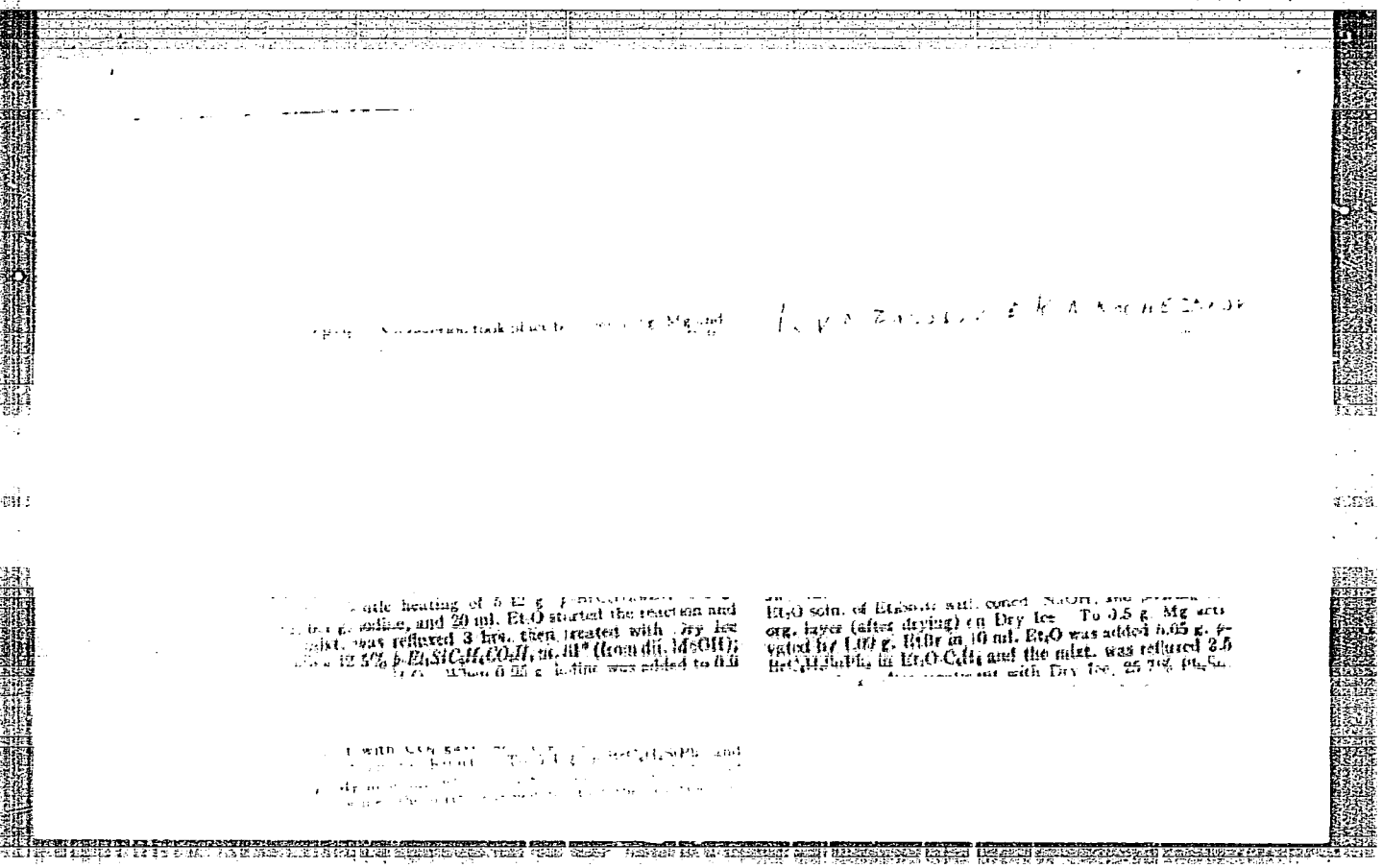
CA

10

Derivatives of 4,4'-diaminodiphenyl sulfone. V. A. Zagorov and A. I. Ivanov. *J. Gen. Chem.* (U.S.S.R.) 10, 237-40(1940)(in Russian). $ClCH_2CO_2H$ (50.7 g.), exactly neutralized by 40% NaOH, was treated with 120 ml. H_2O, 100 ml. EtOH, and 62.2 g. $(p\text{-}H_2NC_6H_4)_2SO_2$, refluxed 10.5 hrs., neutralized to slightly alk. reaction, boiled 3 hrs. longer to hydrolyze any esters formed, diluted with 2 vols. H_2O, treated with charcoal, filtered, concd. to a sirup, and treated with 4 vols. EtOH to give 82.7% crude *di-Na salt of bis(4-glycylphenyl) sulfone*, which was dissolved in H_2O (10% soln.), heated to 70-80°, and treated with Fe or Cu sulfate soln.; the resulting insol. salt was sepd., washed, suspended in hot water, and treated with the calcd. amt. of Na_2CO_3; after removal of the heavy metal oxide, the filtrate was concd. and pptd. by EtOH to give the pure product as a colorless, H_2O-sol. powder, insol. in EtOH or Me_2CO. The Cu salt is a green powder insol. in H_2O and decompd. by alkali. Heating 10.2 g. of the product with 30 ml. MeOH and 5 ml. concd. H_2SO_4 6 hrs. gave the *di-Me ester*, m. 156-7° (from MeOH), insol. in H_2O and cold MeOH, sol. in hot MeOH. Heating the Na salt with EtOH satd. by HCl, after standing overnight, gave the *di-Et ester* (42.5%), m. 132-4° (from EtOH). Heating the di-Me ester 6 hrs. on a steam bath with 28% NH_4OH in a sealed tube gave a poor yield of the *diamide*, m. 228-30°, fine powder, insol. in H_2O, difficultly sol. in hot EtOH. The di-Na salt is a rather effective *bacteriostatic agent* against tuberculous bacilli at a concn. of 1:4,000 *in vitro*; the same is true of the di-Me ester and the Cu salt; the di-Et ester and diamide are not effective. It is mentioned that *in vivo* expts. with exptl. animals (not specified) similarly promising results were obtained. The product appears to have some effect in gas gangrene. G. M. Kosolapoff







ZASOSOV, V. A. and KOCHESHKOV, K. A.

Organic Lithium Compounds in Their Reactions with Organic Tin- and Lead Compounds of the Aromatic Series Containing the Halogen in the Ring. II., Page 285, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningrad, 1953, pages 762-766

Laboratory of Experimental Chemotherapy of Infectious Diseases, All Union Sci Res Chemico-Pharmaceutical Inst imeni S. Ordzhonikidze

ZASOSOV, V. A. and KOCHESHKOV, K. A.

On the Influence of the Structure of Some Halogen-Containing Organo-Elemental Compounds upon Their Reaction with Magnesium. III. Synthesis of Carboxylic Acids Containing Silicon or Tin in Their Molecules, Page 290, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningrad, 1953, pages 762-766

Laboratory of Experimental Chemotherapy of Infectious Diseases, All Union Sci Res Chemico-Pharmaceutical Inst imeni S. Ordzhonikidze

ZASOSOV, V.A.

Methods for improving the production of norsulfazole. Med.prom. 11 no.4:6-13 Ap '57. (MLRA 10:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.
(SULFATHIAZOLE)

ZASOSOV V. A.

KOCHERGIN, P.N.; BLINOVA, L.S.; TITKOVA, R.M.; SAVITSKIY, A.V.; ZASOSOV, V.A.
GRIGOROVSKIY, A.M. [deceased]

New method for producing p-nitroacetophenone from phenylmethylcarbinol. (MIRA 11:5)
Med.prom.SSSR 12 no.5:33-36 My '58.

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.
(ACETOPHENONE) (BENZYL ALCOHOL)

ZASOSOV, V.A.; METEL'KOVA, Ye.I.; GALCHENKO, M.I.

New method for producing 4, 4'-diaminodiphenylsulphone. Med. prom. 13 no.2:18-20 F '59. (MIRA 12:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiki-farmatsevticheskiy institut imeni S. Ordzhonikidze i Institut farmatkologii i khimioterapii Akademii meditsinskikh nauk SSSR.
(SULFONE)

ZASOSOV, V.A.; METEL'KOVA, Ye.I.; ONOPRIYENKO, V.S.

Improvement in the method for producing vanillin. Med.prom. 13 no.3:22-24 Mr '59. (MIRA 12:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.
(VANILLIN)

ZASOSOV, V.A.; AKIF'YEVA, T.N.; VESELITSKAYA, T.A.

Synthesis of derivatives of sulfonylbutylurea. Med.prom. 14 no.1:7-12 Ja '60. (MIRA 13:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.
(UREA)

ZASOSOV, V.A.; METEL'KOVA, Ye.I.; VOLZHINA, O.N.; SHAGALOV, L.B.; VLASOV, A.S.

New method of producing norsulfazole. Med. prom. 17 no.9:15-22 S'63. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni Sergo Ordzhonikidze.

ZASOSOV, V.A., kand. khim. nauk

Modern sulfamide preparations. Zhur. VKHO 10 no. 6:671-678 '65 (MIRA 19:1)

VINOGRADOVA, O. V.; ZASOSOV, V. A.; TAREYEVA, A. I.

Drug therapy for experimental whooping cough infection with 4-4'-di-isobutyrylaminophenyl) sulfone. Zhur. mikrobiol., epid. i immun. 32 no.8:30-34 Ag '61. (MIRA 15:7)

1. Iz Nauchno-issledovatel'skoy laboratorii eksperimental'noy khimioterapii Ministerstva zdravookhraneniya SSSR.

(WHOOPING COUGH) (SULFONES)

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Producing paraaminobenzoic acid. Med. prom. 15 no.8:38-39 Ag '61.
(MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.
(BENZOIC ACID)

ZASOSOV, V.A.; METEL'KOVA, Ye.I.; ONOPRIYENKO, V.S.

Non-pyroforic nickel catalyst in the dehydration reaction of 3,4-dihydroisoquinoline and its derivatives. Med.prom. 15 no.3:35-38 Mr '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.
(QUINOLINE) (CATALYSTS, NICKEL)

ZASOV, A.V.

Radio background of the sky and the radio-luminosity function. Astron. zhur. 43, no. 1:7-9 Ja-F '66
(MIRA 19:2)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga. Submitted June 25, 1965.

ZASOV, A.V.

Photometric distances to galaxies and the red shift. Astron. zhur. 40 no.5:868-873 S-O '63. (MIRA 16:11)

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ACCESSION NR: AR3002039 S/0269/63/000/005/0021/0022

SOURCE: RZh. Astronomiya. Otdel'nyy vypusk. Abs. 5.51.221

AUTHOR: Zasov, A. V.

TITLE: The influence of the Doppler effect on the magnitude and color of stars

CITED SOURCE: Soobshch. Gos. astron. in-ta im. P. K. Shternberga, no. 120, 1962, 52-68

TOPIC TAGS: star magnitude, starlight color, Doppler effect, relativity theory

TRANSLATION: The author studies the change in photographic star magnitudes and the color indices of stars of various spectral classes which is caused by the Doppler effect within the framework of the special theory of relativity. He considers the magnitude of stellar velocity with respect to the observer and direction. The energy distribution in the star spectrum he considers Planckian to effective temperature of 8,000°.

For hotter stars the energy distribution is obtained in accordance with theoretical models. Magnitude and color are considered separately for real stars for an

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observer moving with velocity of 260,000 km/sec toward Alpha Centauri. There is a bibliography of 8 items. I. Novikov

DATE ACQ: 30May63 SUB CODE: AI ENCL: 00

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ZASOV, A.V.

Deformation of the plane of absorbing matter in galaxies. Astron.zhur. 42 no.5:959-962 S-O '65. (MIRA 18:10)

1. Gosudarstvennyy astronomicheskiy institut im. P.K.Shternberga.

ZASOV, A.V.

Cosmology and observations. Zem. i vsel. 1 no.4: 33-39 Jl-Ag '65. (MIRA 18:12)

ZASOV, I., kandidat tekhnicheskikh nauk; KARABAN, G.; PROKHOROV, A., inzhener.

Specially equipped truck for collecting and transporting garbage in large containers. Zhil.-kom.khoz. 4 no.2:25-27 '54. (MLRA 7:5)
(Refuse and refuse disposal)

ZASOV, I., kandidat tekhnicheskikh nauk; KARABAN, G., kandidat tekhnicheskikh nauk.

New equipment for cleaning streets and city squares. Zhil.-kom.khoz.5 no.6:28-29 '55. (MLRA 9:1)
(Street-cleaning machinery)

BALOVNEV, V.I., kand. tekhn. nauk, dots.; ZASOV, I.A., kand. tekhn. nauk; KEROV, I.P., kand. tekhn. nauk, dots., retsenzent

[Machines for the maintenance and repair of highways and airfields; atlas of designs] Mashiny dlia soderzhaniia i remonta avtomobil'nykh dorog i aerodromov; atlas konstruktsii. Moskva, Mashinostroenie, 1965. 133 p. (MIRA 18:3)

ACC NR: AP6035840 (A) SOURCE CODE: UR/0413/66/000/020/0049/0050

INVENTOR: Zasov, I. A.; Zorokhovich, I. Z.; Karaban, G. L.; Mnukhin. L. S.; Soroka, V. P.

ORG: none

TITLE: Self-propelled machine for removing ice from improved road surfaces Class 19, No. 187067

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 49-50

TOPIC TAGS: ~~airfield clearing,~~ airfield maintenance equipment, ~~highway clearing,~~ ~~highway ice removal,~~ HIGHWAY ENGINEERING, ICE, SAFETY ENGINEERING

ABSTRACT: An Author Certificate has been issued for a vehicle for removing ice from improved road surfaces, consisting of a primary vehicle equipped with a chipping attachment, and of equipment for melting ice and drawing off the water. To improve the cleaning of the surface and prevent its damage, on the primary vehicle's frame is mounted a rotor-type chipping attachment with hammers. The hammers are located in spiral lines with overlapping gaps between them, and the rotor unit can be raised or lowered. The equipment for melting ice, located behind the rotor, has a cowl opening from below; in the upper part of the unit, in which the burners are located, blowing attachments are at the front wall, and at the rear wall, which is

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made of an elastic material, is a suction attachment connected to a tank. To this tank is connected the ventilator suction pipe which supplies air to the blowing attachments. The ventilator's suction pipe can be equipped with a safety valve. [WH]

Orig. art. has: 1 figure.

SUB CODE: 13,01 / SUBM DATE: 28Aug64

Card 2/2

ZASOV, I. A.

35432 Perspektivy Mekhanizatsii Gorodskikh Kommunadvnykh Rabot. Nauch. Trudy (Akad. Kommuna L. Koz-va I M. Pamofilova), Vyp. 4-5, 1949, s. 63-67

Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949

ZASOV, I.A.

Fuel economy in automotive transportation. Moskva, Dorizdat, 1947.
164 p. (48-26896)

TP319.Z34

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KOZHINOV, V.F...kand.tekhn.nauk; red.; ZASOV, I.A., kand.tekhn.nauk,red.; GUSYATINSKIY, A.I., red.; POLKOVSKIY, M.A.,red.; KHRISTENKO, V.P., red.izd-va; VOLKOV, S.V., tekhn.red.

[New engineering equipment for municipal services] Novaia tekhnika v gorodskom khoziaistve. Moskva, Izd-vo M-va kommun. khoz.RSFSR, 1957. 215 p. (MIRA 11:1)

1. Akademiya kommunalnogo khozyaystva, Moscow.
(Municipal engineering--Equipment and supplies)

ZASOV, I. A.

Materials on the planning ofurban asphalt concrete factories. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1953. (Mic 55-3811) Collation of theoriginal, as determined from the film: 103 p.

Microfilm Slavic 410 AC

1. Asphalt concrete.
2. Factories - Design and construction. I. Pikovskii, IA. M. it. au.

ZASOV, I.A., kandidat tekhnicheskikh nauk; PIKOVSKIY, Ya.M., kandidat tekhnicheskikh nauk; RUMANOV, A.Z., redaktor; PETROVSKAYA, Ye., tekhnicheskiy redaktor

[Asphalt concrete plants in cities; data for their design] Gorodskie asfal'tobetonnye zavody; materialy po proektirovaniiu. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1953. 103 p. [Microfilm] (MLRA 7:10)
(Asphalt concrete)

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Gorodskiye asfal'tobetonnyye zavody; materialy po proyektirovanniya. Z3
(Asphalt concrete plants in cities; data for their design, by)
I. A. Zasov i YA. M. PILOVSKI Moskva, Izd-vo Ministerstva Kommunal'-
nogo Khozyaystva, RSFSR, 1953.
103p. illus., Diagrs., Tables.
At head of title: Akademiya Kommunal'-nogo Khozyzystva.

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Mashiny i mekhanizmy dlya gorodskogo khozyaystva; spravochnik (Machines and mechanisms for city upkeep; manual, by I. A. ZASOV i K. M. POLTAV. 2. izd., perer. i dop. Moskva, Izd-vo. Ministerstva Kommunal'nogo khozyaystva RSFSR, 1955.

686 p. illus., diagrs., tables.

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ZASOV, I.A., kandidat tekhnicheskikh nauk; POLTEV, K.M., kandidat tekhnicheskikh nauk; PIKOVSKIY, Ya.M., kandidat tekhnicheskikh nauk, dotsent, redaktor; SOKOL'SKIY, I.P., redaktor; PETROVSKAYA, Ye.S., tekhnicheskiy redaktor.

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BALOVNEV, V.I., kand. tekhn. nauk; ZASOV, I.A.; KARABAN, Yu.L., kand. tekhn. nauk; PEROV, I.P., kand. tekhn. nauk, retsenzent

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SOSYANTS, V.G., inzh.; YUDIN, V.A., kand. tekhn.nauk; KNORRE, V.E., inzh.; LANTSBERG, Yu.S., inzh.; DAVIDYANTS, N.M., inzh.; GEZENTSVEY, L.B., kand. tekhn. nauk; YEGOROV, P.A., inzh.; FAYNBERG, E.S., inzh.; BAGDASAROV, S.M., inzh.; GUREVICH, L.V., kand. tekhn. nauk; CHERNYSHOV, B.G., inzh.; GADZHINSKIY, T.G., inzh.; ZASOV, I.A., kand. tekhn.nauk; BALOVNEV, V.I., kand. tekhn.nauk; GIRSHMAN, Ye.Ye., prof., red.; DZHUNKOVSKIY, N.N., prof., red.; BOLOTINA, A.V., red. izd-va; LELYUKHIN, A.A., tekhn. red.

[Manual for the design, construction, and maintenance of urban roads, bridges, and hydrotechnical structures] Spravochnik po proektirovaniiu, stroitel'stvu i ekspluatatsii gorodskikh dorog, mostov i gidrotekhnicheskikh sooruzhenii. Red. kol.E.E.Gibshman,N.N.Dzhunkovskii, P.A. Egorov. Moskva, Izd-vo M-va kommun.khoz.RSFSR. Vol.3. [Roads] Dorogi. 1963. 814 p. (MIRA 16:7)
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