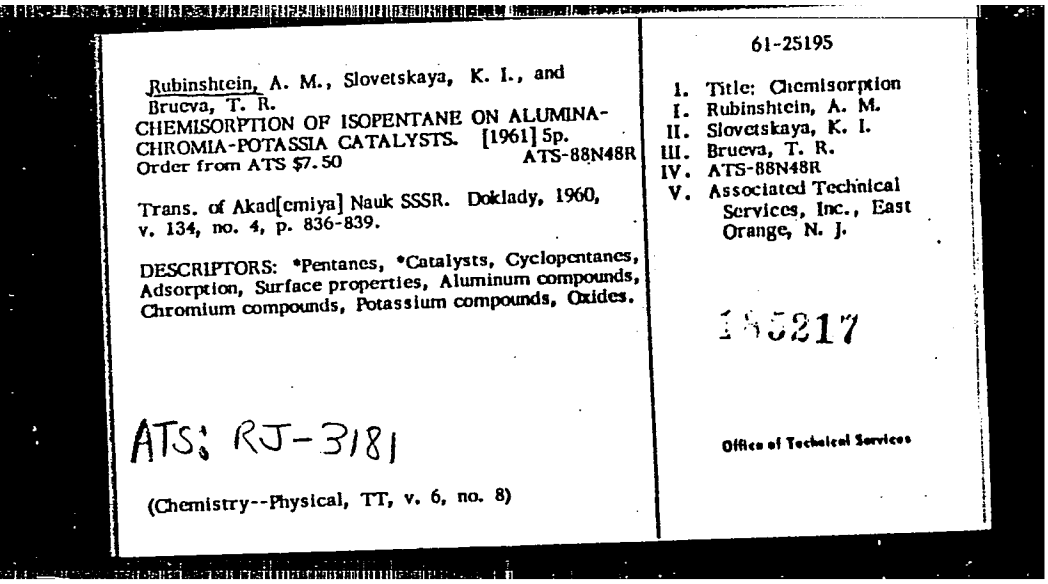

Rubinshtein, A. M., Slovetskaya, K. I., and Brueva, T. R.
CHEMISORPTION OF ISOPENTANE ON ALUMINA-CHROMIA-POTASSIA CATALYSTS. [1961] 5p.
Order from ATS $7.50 ATS-88N48R

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1960, v. 134, no. 4, p. 836-839.

DESCRIPTORS: *Pentanes, *Catalysts, Cyclopentanes, Adsorption, Surface properties, Aluminum compounds, Chromium compounds, Potassium compounds, Oxides.

ATS; RJ-3181

(Chemistry--Physical, TT, v. 6, no. 8)

61-25195

I. Title: Chemisorption
I. Rubinshtein, A. M.
II. Slovetskaya, K. I.
III. Brueva, T. R.
IV. ATS-88N48R
V. Associated Technical Services, Inc., East Orange, N. J.

185217

Office of Technical Services

Rubinshtein, A. M., Slovetskaya, K. I., and Brueva, T. R.
ISOPENTANE CHEMISORPTION ON ALUMINA-CHROMIA-POTASSIA CATALYST. [1961] 5p. 17 refs. Order from OTS or SLA $1.10 61-18599

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1960, v. 134 [no. 4] p. 836-839.
Another translation is available from ATS $7.50 as ATS-88N48R [1961] 5p.

DESCRIPTORS: *Pentanes, Adsorption, *Catalysts, Aluminum compounds, Chromium compounds, Potassium compounds, Oxides.

Measurements were made of the chemisorption of a paraffinic hydrocarbon on a dehydrogenation catalyst, the dehydrocyclization of paraffins and its variation with the changing temperature and pressure. The (Chemistry--Physical, TT, v. 6, no. 9) (over)

61-18599

1. Title: Chemisorption
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II. Slovetskaya, K. I.
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APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Polymorphism and the Catalytic Properties of Al_2O_3, by A. M. Rubinshtein, et al.

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APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Phase Composition, Structure, and Magnetic Properties of Coprecipitated Ferric Oxide--Alumina Gels, by A. M. Rubinshtein, V. M. Akimov, A. A. Slinkin, 7 pp

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 2, 1960, pp 163-172

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Catalytic Properties of the System Al_2O_3--Fe_2O_3, by A. M. Rubinshtein, N. A. Pribytkova, 7 pp

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 2, 1960, pp 173-181

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APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Physical and Chemical Properties of WS_2 Catalysts. Communication 5. Catalytic Activity of an Unmixed WS_2 Catalyst for the Hydrogenation of Phenol, by S. M. Samilov, A. M. Rubinshtein, pp 7
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Vapor-Phase Catalytic Ketonization of Acetic Acid Over Alkaline Earth Metal Carbonates, by A. M. Rubinshtein, V. I. Yakerson, 8 pp.

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Catalytic Vapor Phase Ketone Formation from Acetic Acid Over Magnesium, Zinc, and Cadmium Oxides, by A. M. Rubinshtein, V. I. Yakerson, 8 pp.

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A. M. RUBINSHTEIN, et al.

The porous structure and specific surface area of NiO-Al_2O_3 catalysts and the variation of these properties with changes in composition and thermal treatment

Zhur. Fiz. Khim., 23, No. 2, 310-317(1959)

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The Effect of Compositon and Conditons of Heat Treatment on the Structure and Catalytic Activity of Al_2O_3 - ZrO_2 Catalysts, by A. M. Rubinshtein, V. A. Afanasyev, V. M. Akimov, N. A. Pribytkova, K. I. Slovetskaya, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXIV, No 5, 1959, pp 1076-1079.

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APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

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RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 2, 1959, pp 310-317.

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Dependence of the Distribution of Platinum in Impregnated Pt-C Catalyst on the Concentration of the Original H_2PtCl_6 Solution and the Character of the Carbon Granulation, by A. M. Rubinshtein, Kh. M. Minachev, V. M. Akimov, 5 pp.

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Use of the Method of Ultrathin Section in the Electron Microscopy of Catalysts, by A. M. Rubinstien, M. I. Dashevskiy, N. A. Pribytkova, 11 pp.

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1 An Investigation of the Interaction Between Some Cisdiaminetetra-acid Compounds of Platinum and Pyridine, 24 pp.

2 The Interaction Between Some Transdiaminetetra-acid Compounds of Platinum and Pyridine, by A. M. Rubinshtein, A. K. Il'yasova, 14 pp.

RUSSIAN, per, Zhur Neorg Khim, Vol II, No 8, 1957, pp 1785-1798; 1799-1807.

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APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Catalytic Inertness of Amorphous Nickel in the Hydrogenation of Benzene and the Dehydrogenation of Cylcohexane, by A. M. Rubinshtein, L. Kh. Freidlin, N. V. Borunova, 2 pp.

Full translation.

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Mar 56 CTS/dex

Rubinshtein, A. M.
X-RAY STUDY OF MAGNESIUM OXIDE CATALYSTS. [1961] 7p. 23 refs.
Order from OTS or SLA $1.10 61-18190

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1943, p. 427-433.

DESCRIPTORS: Magnesium compounds, *Oxides, *Catalysts, X-ray diffraction analysis, Crystal structure.

Correlation of the data pertaining to catalytic conversion of ethyl alcohol on 41 samples of a catalyst prepared from magnesium oxide, but differing in their mode of formation, with the physical structure of these preparations supports the assumption of the existence of an optimal dispersion for heterogeneous catalytic conversions. For the reactions investigated the max-

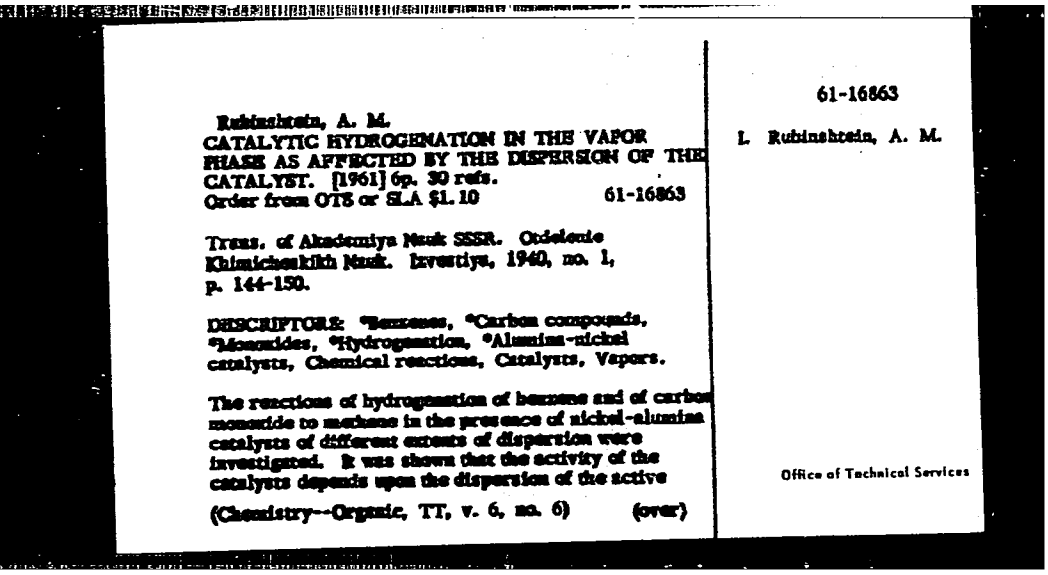
(Chemistry--Physical, TT, v. 6, no. 6) (over)

61-18190

I. Rubinshtein, A. M.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(



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CATALYTIC HYDROGENATION IN THE VAPOR PHASE AS AFFECTED BY THE DISPERSION OF THE CATALYST. [1961] 6p. 30 refs.
Order from OTS or SLA $1.10 61-16863

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1940, no. 1, p. 144-150.

DESCRIPTORS: *Benzenes, *Carbon compounds, *Monoxides, *Hydrogenation, *Alumina-nickel catalysts, Chemical reactions, Catalysts, Vapors.

The reactions of hydrogenation of benzene and of carbon monoxide to methane in the presence of nickel-alumina catalysts of different extents of dispersion were investigated. It was shown that the activity of the catalysts depends upon the dispersion of the active

(Chemistry--Organic, TT, v. 6, no. 6) (over)

61-16863

L. Rubinshtein, A. M.

Office of Technical Services

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DEHYDROGENATION ON NICKEL CATALYSTS OF DIFFERENT EXTENT OF DISPERSION. [1961] 7p. 17 refs.
Order from OTS or SLA $1.10 61-16861

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1940, no. 1, p. 135-142.

DESCRIPTORS: *Dehydrogenation, Catalysis, *Nickel catalysts, Cyclohexanes.

The dependence of the activity of nickel-alumina catalysts upon the dispersion of nickel has been investigated for the case of dehydrogenation of aliphatic and naphthenic compounds. The study was carried out with seven preparations of the catalyst, in which the dispersion of nickel varied from 49 to 122 Å. Activity-dispersion isotherms were constructed for dehydrogenation of cyclohexane and formic acid. The dependence of the
(Chemistry--Organic, TT, v. 6, no. 6) (over)

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Vacuum Dehydration of Boehmite, by Yu. A. El'tekov, V. M. Akimov, A. M. Rubinshtein, 3 pp.

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Oxide-Metal Catalysts for the Reforming of Gasolines. Communication 5. Some Peculiar Features of the Catalytic and Physical Properties of Palladium Catalysts, by Kh. M. Minachev, M. A. Ryashentseva, A. M. Rubinshtein, 6 pp.

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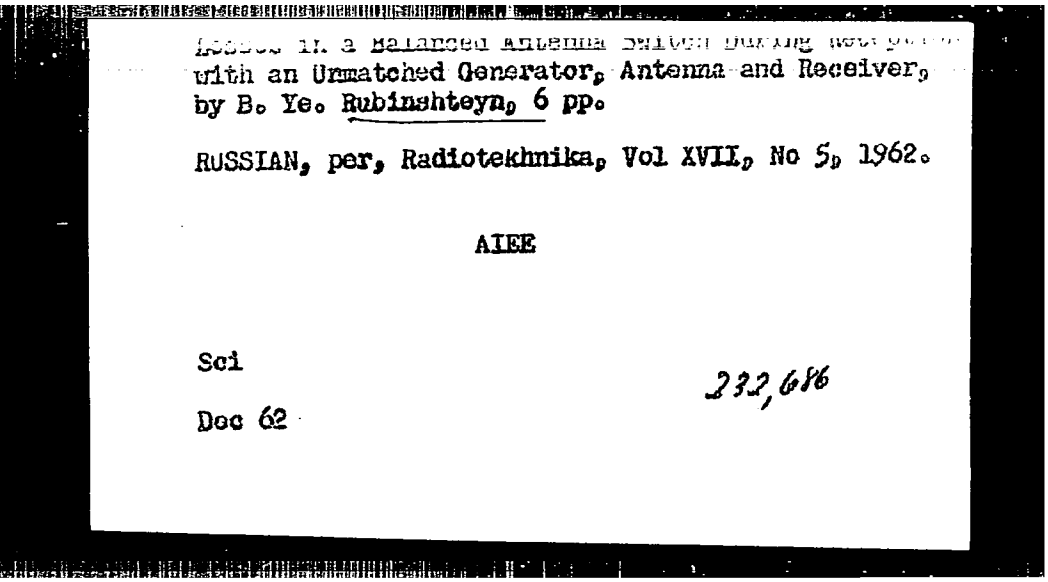

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Activities of Nickel, Zinc, and Chromium Oxides, Sulfides, and Selenides in the Reduction of Nitrobenzene and the Selective Hydrogenation of a Diolefin into an Olefin, by A. M. Rubinshtein, A. A. Dulov, S. G. Kulikov, N. A. Pribytkova, 7 pp.

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Physical and Chemical Properties of WS_2 Catalysts. Communication 1. Effect of Thermal Treatment on the Composition and Adsorption Properties of WS_2 Obtained by the Decomposition of Ammonium Thiotungstate, by S. M. Smoilov, A. M. Rubinshtein, 7 pp

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RUBINSHTEIN, A. M.
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IZVESTIYA AKADEMII NAUK SSSR, Otd, Khim Nauk, 1950, No 1, pp 84-97, 6500 words.

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Application of the Dynamic Method of Measuring Adsorption of Vapors to the Determination of the Surface Area of the Catalysts, by A. M. Rubinshtein, V. A. Afanasyev, 10 pp.

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Distribution of Platinum in a Platinized Carbon Catalyst, by A. M. Rubinshtein, et al.

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A Study of the Phase Composition and Adsorptive Properties of Iron - Carbon Catalyst, by S. M. Samoylov, A. A. Slinkin, A. M. Rubinshtein, 4 pp.

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Effect of the Pressure Applied in the Compression of an Alumina-Molybdenum Oxide Catalyst on Its Activity and Structure, by O. D. Sterligov, M. G. Gonikberg, A. M. Rubinshtein, B. A. Kazansky, 8 pp.

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RUBINSHTEIN, E. S., ed.

Manual of Climatology by B. P. Alisov, B. I. Izvekov, T. V. Pokrovskaia, and E. S. Rubinshtein; Leningrad/ Moscow, Hydrometoeorlogical Publications, 1940, 1022 p.

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Effect of the Structural Factor on the Catalytic Decomposition of Alcohols Varying in Molecular Weight, by A. M. Rubinshtein, N. A. Pribytkova, 4 pp.

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Effect of the Dimensions of the Elementary Crystallites on the Porosity and Activity of Al_2O_3 Catalysts of Dehydration Reactions, by A.M. Rubinshtein, V.E. Vasserberg, N.A. Pribytkova, 8 pp.

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Effect of Very High Pressures on the Catalytic Activity of Aluminum Oxide, by L. F. Vereshchagin, L. K. Freidlin, A. M. Rubinshtein and I. U. Numanov, 10 pp.

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Magnetic Properties of Cr_2O_3 - Al_2O_3 Catalysts, by A. M. Rubinshtein, A. A. Slinkin, 4 pp.

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Properties and Structure of $NiO-Al_2O_3$ Catalysts. Communication 1. Effect of Composition and Conditions of Thermal Treatment on Activity and Selectivity. A. M. Rubinshtein, A. A. Slinkin, N. A. Pribytkova, 7 pp.

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Physical and Chemical Properties of WS_2 Catalysts. Communication 2. Adsorption Properties of Mixed WS_2-Clay Catalysts, by S. N. Samoilov, A. M. Rubinshtein, 6 pp.

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Rubinshtein, A. M., Pribytkova, N. A. and others. CATALYSTS FOR SYNTHESIS OF GASOLINE FROM CARBON MONOXIDE AND HYDROGEN REQUIRING NO HIGH TEMPERATURE REDUCTION. [1961] 6p. 12 refs.
Order from OTS or SLA $1.10 61-16889

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1941, no. 1, p. 41-48.

DESCRIPTORS: *Catalysts, Synthesis, *Gasoline, Carbon compounds, Monoxides, Hydrogen, Reduction, Temperature, Fuels, Nickel, Cobalt.

A series of nickel and cobalt catalysts for synthesis of gasoline from hydrogen and carbon monoxide were investigated, prepared by different methods from different starting materials. Catalysts prepared by decomposition of ferrocyanides in an atmosphere of hy-
(Chemistry--Organic, TT, v. 6, no. 9) (over)

61-16889

I. Rubinshtein, A. M.
II. Pribytkova, N. A.

Office of Technical Services

APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

Complex Compounds of Platinum With Diallylamine, by A. M. Rubinshtein, G. V. Derbisher, 5 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 2, Mar/Apr 1953, pp 232-237.

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APPROVED FOR RELEASE: Tuesday, November 13, 2001 CIA-RDP84-00581R0002(

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The Phase Shift Created by the Input Prostector Tubes of a Receiver in Bkalanced Aerial Switches, by B. E. Rubinshtein, 5 pp.

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Order from OTS or SLA $3.60 61-23702

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DESCRIPTORS: *Operations research, USSR, *Logistics, *Programming, *Industrial research, Inequalities, *Numerical methods and procedures.

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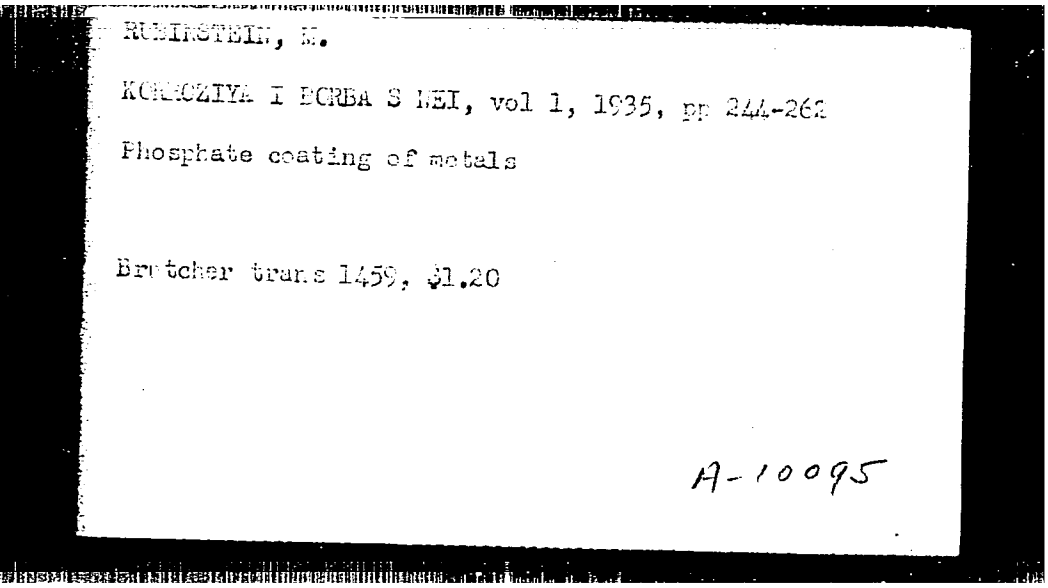

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Trans. in French of #Zavodsk[aya] Lab[oratoriya] (USSR) 1958, v. 24, no. 9, p. 1135-1141.

DESCRIPTORS: *Vacuum apparatus *Gases, Separation.

An apparatus is described by means of which the content of H_2, H_2O, CO_2, and CO, and, from the difference, the sum of argon and nitrogen can be determined. The analytical part functions on the principle of fractional

(Chemistry--Physical, TT, v. 6, no. 7) (over)

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