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REEL
536
SOKOLOV, A. YA.

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SOKOLOV, ALEKSANDR YAKOVLEVICH.

Elevatornoe oborudovanie; pod red. E.IA. James-Levi. Moskva, Zagotizdat, 1941. 512, (2) p. illus., diagrs.

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(Elevator equipment.)

DLC: TJ1415.S7

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

[illegible], Aleksandr Nikovlevich

Technological equipment of grain elevators, flour-mills, groat and cereal processing mills; textbook. Moskva, Gos. izd-vo tekhn. i ekon. lit-ry po voprosam zagotovok, 1950. 756 p. (51-19413)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

TAUBER, B.A., dotsent, kandidat tekhnicheskikh nauk; SOKOLOV, A.Ya., doktor tekhnicheskikh nauk, professor, ofitsial'nyy retsenzent; PANTSER, A.V., inzhener, laureat Stalinskoy premii, ofitsial'nyy retsenzent.

[Hoisting-conveying machinery in the lumber industry] Pod"emno-transportnye mashiny v lesnoi promyshlennosti. Moskva, Goslesbumizdat, 1952. 532 p. (MLRA 6:5)

(Hoisting machinery) (Lumbering)

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SOKOLOV, A.Ya., professor, doktor tekhnicheskikh nauk.

Introducing new equipment into the food industry. Trudy MTIPP 2:303-314 '52. (MLRA 9:2)
(Food industry--Equipment and supplies)

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DIKIS, M.Ya.; MAL'SKIY, A.N.; SOKOLOV, A.Ya., doktor tekhnicheskikh nauk, retsenzent.

[Canning plant machinery] Tekhnologicheskoe oborudovanie konservnykh zavodov. Moskva, Pishchepromizdat, 1953. 540 p. (MLRA 7:8)
(Canning industry)

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SOKOLOV, A. Ya.

DZYADZIO, A.M., dotsent; PLATONOV, P.N., dotsent; KOFMAN, S.Ye., inzhener; SOKOLOV, A.Ya., professor, doktor tekhnicheskikh nauk, redaktor; KHMEL'NITSKAYA, A.Z., redaktor; GOTLIB, E.M., tekhnicheskiy redaktor.

[Pneumatic tube transportation in flour mills] Pnevmaticheskii transport na sel'skokhoziaistvennykh mel'nitsakh. Pod red. A.IA. Sokolova. Moskva, Pishchepromizdat, 1954. 69 p. (MLRA 8:1)
(Pneumatic-tube transportation) (Flour mills)

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SOKOLOV, Aleksandr Yakovlevich, professor; POLYAKOV, G.F., redaktor izdatel'stva; MATVEYEVA, Ye.N., tekhnicheskiy redaktor

[Machinery for cleaning and conveying grain] Mashiny dlia ochistki i vnutrizavodskogo transporta zerna. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1957. 374 p. (MLRA 10:7)
(Grain--Cleaning) (Grain handling)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

KARPIN, Yevgeniy Borisovich, kand. tekhn. nauk; SOKOLOV, A.Ya., prof., doktor tekhn. nauk, retsenzent; POGOSOV, G.S., kand. fiz.-mat. nauk, red.; PROKOF'YEVA, L.G., red. izd-va; UVAROVA, A.F., tekhn. red.

[Automatic weighting machines; theoretical principles, calculations, and designs] Vesoizmeritel'nye avtomaty; osnovy teorii, rascheta i proektirovaniia. Moskva, Gos. nauchno-tekh. izd-vo mashinostroit. lit-ry, 1958. 379 p. (MIRA 11:10)

(Weighing machines)

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SOKOLOV, Aleksandr Yakovlevich

[Equipment for enterprises storing and processing grain] Tekhnologicheskoe oborudovanie predpriiatii po khraneniiu i pererabotke zerna. Izd.2., perer. i dop. Moskva, Izd-vo tekhn. i ekon.lit-ry po voprosam mukomol'no-krupianoi, kombikormovoi promyshl. i elevatorno-skladskogo khoziaistva, 1958. 436 p. (MIRA 12:12)

(Grain elevators--Equipment and supplies)
(Flour mills--Equipment and supplies)

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MUCHNIK, Abram Yakovlevich; PARFENOV, Konstantin Alekseyevich; Prinimal uchastiye: PTUSHKIN, A.T., kand.tekhn.nauk.; SOKOLOV, A.Ya., prof., retsenzent; GLEBOV, I.A., dotsent, retsenzent; YASTREBOV, P.P., dotsent, retsenzent; KHMEL'NITSKAYA, A.Z., red.; DOBUZHINSKAYA, L.V., tekhn.red.

[Electrical equipment of food industry enterprises] Elektrooborudovanie pishchevykh predpriiatii. Moskva, Pishchepromizdat, 1958. 437 p. (MIRA 12:8)
(Food industry--Electric equipment)

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BARDYSHEV, G.M.; BERLIN, I.Z.; VAYNSHTOK, M.Z.; LEVIN, S.I.; PAVLOV, V.N.; PUSHKANTSEV, B.N.; SAMOCHETOV, V.F.; SEMENOV, M.G.; SOKOLOV, A.Ya.; KHUVES, E.S., inzh.; EMMANUEL', T.P.; GRIGOR'YEV, K.P., inzh., red. [deceased]; DENISENKOVA, L.M., red.; D'YACHENKO, V.M., red.; SAVEL'YEV, Z.A., tekhn. red.

[Technical handbook for workers in the grain-elevator industry] Tekhnicheskii spravochnik rabotnika elevatornoi promyshlennosti. Pod obshchei red. Grigor'eva K.P. i Khuvesa E.S. Moskva, Izd-vo tekhn. i ekon. litry po voprosam khleboproduktov. Pt.1. 1960. 339 p. (MIRA 14:11)
(Grain elevators)

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GERNET, M.M., doktor tekhn.nauk,prof.; DIKIS, M.Ya., doktor tekhn.nauk, prof.; LUK'YANOV, V.V., doktor tekhn.nauk,prof.[deceased]: POPOV, V.I., doktor tekhn.nauk,prof.; ~~SOKOLOV, A.Ye.,~~ doktor tekhn.nauk,prof.; SOKOLOV,V.I.,doktor tekhn.nauk,prof.; SURKOV,V.D.,doktor tekh.nauk,prof.; BARANOVSKIY, N.V., kand.tekhn.nauk,dots.; BROYDO, B.Ye., kand.tekhn. nauk, dots.; BUZYKIN, N.A., kand.tekhn.nauk, dots.; GOROSHENKO, M.K., kand.tekhn.nauk, dots.; GORTINSKIY, V.V., kand.tekhn.nauk, dots.; GREBENYUK, S.M., kand.tekhn.nauk, dots.; GUS'KOV, K.P., kand.tekhn. nauk, dots.; DEMIDOV, A.R., kand.tekhn.nauk, dots.; ZHISLIN, Ya.M., kand.tekhn.nauk, dots.; KARPIN, Ye.B., kand.tekhn.nauk, dots.; KOSITSYN, I.A., kand. tekhn.nauk, dots. [deceased]; GEYSHTOR, V.S., kand.tekhn.nauk, dots.; MARSHALKIN, G.A., kand.tekhn.nauk, dots.; MOLDAVSKIY, G.Ye., kand.tekhn.nauk, dots.; ODESSKIY, D.A., kand. tekhn.nauk, dots.; PELEYEV, A.I., kand.tekhn.nauk, dots.; RUB, D.M., kand.tekhn.nauk, dots.; SKOBLO, D.I., kand.tekhn.nauk, dots.; SHUVALOV, V.N., kand.tekhn.nauk, dots.; KHMEL'NITSKAYA, A.Z., red.; SOKOLOVA, I.A., tekhn. red.

[Principles of the design and construction of machinery and apparatus for the food industries] Osnovy rascheta i konstruirovaniia mashin i apparatov pishchevykh proizvodstv. Moskva, Pishchepromizdat, 1960. 741 p. (MIRA 14:12)

(Food industry--Equipment and supplies)

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POPOV, Vladimir Il'ich, prof.; DOBROSEDOV, Leonid Leonidovich; STABNIKOV, Vsevolod Nikolayevich; ANDREYEV, Konstantin Petrovich; SOKOLOV, A.Ya., prof., retsenzent; AZRIYELOVICH, S.S., kand.tekhn.nauk, retsenzent; KHMEL'NITSKAYA, A.Z., red.; KISINA, Ye.I., tekhn.red.

[Technological equipment of fermentation industries] Tekhnologicheskoe oborudovanie predpriiatii brodil'noi promyshlennosti. Izd.4., perer. i dop. Moskva, Pishchepromizdat, 1961. 447 p. (MIRA 15:5)

(Brewing industry—Equipment and supplies)
(Distilling industries—Equipment and supplies)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

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DIKIS, Mikhail Yakovlevich, prof.; MAL'SKIY, Aleksandr Nikolayevich, dots.; SOKOLOV, A.Ya., doktor tekhn. nauk, prof., retsenzent; BUZYKIN, N.A., kand. tekhn. nauk, dotsent, retsenzent; SKOBLO, D.I., kand. tekhn. nauk, dots., retsenzent; KHMEL'NITSKAYA, A.Z., red.; KISINA, Ye.I., tekhn. red.

[Machinery and equipment for canneries] Tekhnologicheskoe oborudovanie konservnykh zavodov. Izd.3., dop. i perer. Moskva, Pishchepromizdat, 1961. 539 p. (MIRA 15:1)
(Canning industry—Equipment and supplies)

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SOKOLOV, Aleksandr Yakovlevich, doktor tekhn. nauk, prof.; ZHISLIN, Ya.M., kand. tekhn. nauk; KOTLYAR, L.I., kand. tekhn. nauk; GINZBURG, M.Ye., kand. tekhn. nauk; FURER, G.L.; PARFENOV, K.A., kand. tekhn. nauk; RYZHOVA, L.P., inzh., red. izd-va; MODEL', B.I., tekhn. red.

[Machines for processing grain] Mashiny dlia pererabotki zerna. Moskva, Mashgiz, 1963. 346 p. (MIRA 16:6)

1. Glavnyy instruktor zavoda im. F.E.Dzerzhinskogo (for Furer).

(Grain--Handling machinery)

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KARPIN, Ye.B., kand. tekhn. nauk; SOKOLOV, A.Ya., doktor tekhn. nauk, prof., retsenzent; POGOSOV, G.S., kand. fiz.-mat. nauk, dots., red.; VOSKRESENSKIY, N.N., inzh., red.izd-va; MODEL', B.I., tekhn. red.

[Design of weighing and proportioning mechanisms] Raschet i konstruirovanie vesoizmeritel'nykh mekhanizmov i dozatorov. Moskva, Mashgiz, 1963. 523 p. (MIRA 17:3)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

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PELEYEV, Aleksandr Ivanovich, prof.; LAPSHIN, A.A., kand. tekhn. nauk, dots., retsenzent; AVETIKOV, G.M., kand. tekhn. nauk, retsenzent; SOKOLOV, A.Ya., doktor tekhn. nauk, retsenzent; KUZ'MINA, V.S., red.; ZARSHCHIKOVA, L.N., tekhn. red.

[Technological equipment of the enterprises of the meat industry] Tekhnologicheskoe oborudovanie predpriiatii miasnoi promyshlennosti. Izd.2., perer. i dop. Moskva, Pishcheprom-izdat. 1963. 685 p. (MIRA 16:12)
(Meat industry--Equipment and supplies)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

BENDERSKIY, S.N., kand.tekhn. nauk; BURSIAN, V.R., prof., kand. tekhn. nauk; VASIL'YEV, P.N., inzh.; DORFMAN, E.Ye., inzh.; ZHURAVLEV, V.F., kand. tekhn. nauk; KESTEL'MAN, V.N., inzh.; KRUGLOV, A.N., dots., kand. tekhn. nauk; KUKIBNYY, A.A., dots., kand.tekhn. nauk; LEVACHEV, N.A., dots., kand. tekhn. nauk; LEYKIN, A.Ya., inzh.; NAREMSKIY, N.K., dots., kand. tekhn. nauk; PLATONOV, P.N., prof., doktor tekhn. nauk; SOKOLOV, A.Ya., prof., doktor tekhn. nauk; KUTSENKO, K.I., kand. tekhn. nauk, dots., retsenzent; VEREMEYENKO, Ye.I., inzh., retsenzent; KOVTUN, A.P., inzh., retsenzent; SEMENYUK, A.I., retsenzent; KASHCHEYEV, I.P., inzh., retsenzent; PAL'TSEV, V.S., kand. tekhn. nauk, retsenzent; KHMEL'NITSKAYA, A.Z., red.

[Conveying and reloading machinery for the overall mechanization of the food industries] Transportiruiushchie i peregruzochnye mashiny dlia kompleksnoi mekhanizatsii pishchevykh proizvodstv. Moskva, Pishchevaia promyshlennost', 1964. 759 p. (MIRA 18:3)

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BENDERSKIY, S.N.--- (continued). Card 2.

1. Odesskiy tekhnologicheskiy institut imeni M.V.Lomonosova (for Kutsenko, Naremskiy, Veremeyenko, Kovtun). 2. Starshiy ekspert Upravleniya po avtomatizatsii i oborudovaniyu dlya pishchevoy promyshlennosti Gosudarstvennogo komiteta po mashinostroyeniyu pri Gosplane SSSR (for Semenyuk). 3. Glavnyy mekhanik Gosudarstvennogo instituta po proyektirovaniyu predpriyatiy mukomol'nokrupyanoy i kombikormovoy promyshlennosti i elevatorno-skladskogo khozyaystva (for Kashcheyev). 4. Zaveduyushchiy laboratoriyey Vsesoyuznogo nauchno-issledovatel'skogo instituta zerna i produktov ego pererabotki (for Pal'tsev).

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

OSTROVSKIY, E.V.; EYDEL'MAN, Ye.V.; SOKOLOV, A.Ya., doktor tekhn. nauk, prof., retsenzent; ZAYCHIK, TS.R., inzh., retsenzent; BLAGOSKLONOVA, N.Yu., inzh., red.

[Concise handbook for the designer of food machinery] Kratkii spravochnik konstruktora prodovol'stvennykh mashin. Moskva, Mashinostroenie, 1965. 503 p. (MIRA 18:6)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, A.Ye.

Investigation of certain properties of rocks under confining pressure. Izv. vys. ucheb. zav.; neft' i gaz 6 no.8:31 '63. (MIRA 17:6)

1. Severo-Kavkazskiy gornometallurgicheskiy institut.

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CHERNETSKIY, V.P., inzh.; CHECHERSKIY, D.M., inzh.; ZHARSKIY, S.G., inzh.; SOKOLOV, K.Ye., inzh.

Complex inoculant for cast iron. Mashinostroenie no.3: 25-26 My-Je '65. (MIRA 18:6)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

CHOPIKASHVILI, M.A.; SOKOLOV, A.Ye.; TOGOYEV, V.D.

Shot boring of holes on a continuous face. Izv. vys. ucheb. zav.; tsvet. met. 8 no.1:9-13 '65. (MIRA 18:6)

1. Severokavkazskiy gornometallurgicheskiy institut, kafedra spetsial'nykh kursov gornogo dela.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, A.Ye.

Studying the disintegration of rocks in drilling under conditions of confining pressure. Izv. vys. ucheb. zav.; neft' i gaz 8 no.1: 19-22 '65. (MIRA 18:2)

1. Severo-Kavkazskiy gornometallurgicheskiy institut.

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E140/E435

9,1923 (also 2603)

AUTHORS: Tereshin, O.N. and Sokolov, A.Ye.

TITLE: The Suppression of Current Excited on a Metal Screen by a Diffraction Antenna of Finite Dimensions

PERIODICAL: Radiotekhnika i elektronika, 1961, Vol.6, No.2, pp.221-227

TEXT: In a previous work by one of the authors (O.N.Tereshin, Ref.1) it was shown that the degree of decoupling between two slot antennas of infinite length is defined by the maximally obtainable rate of variation of a purely reactive surface impedance. It was noted that for antennas of finite length the degree of decoupling is limited by the level of the current flowing around the decoupling structure constructed according to the previous analysis (Ref.2). The present work presents theoretical and experimental results of the study of the decoupling system for finite-dimension antennas with circular output apertures. The effects of the decoupling devices on the directional pattern of plot antennas are also considered. In the analysis it is assumed that the width of the channels in the decoupling structure are much smaller than the wavelength and the thicknesses of the ribs are much smaller than

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the channel width (Fig.1). It is further assumed that the primary radiators given in the region S (Fig.1) give rise to a TM-wave in free space. It is first shown that for a given law of variation of the tangential magnetic field component about the surface $z = 0$ the distribution of the purely reactive surface impedance of the symmetrical finite-dimension antenna and the two-dimensional case previously considered differ only in the immediate vicinity of the antenna. The experimental results indicate that the theory is valid for small attenuations but, due to the finite dimensions of the decoupling structure, at high attenuations it is not possible to realize the calculated value of attenuations. Certain modifications of the basic method are suggested for improving this result. In particular this consists in a periodic reproduction of the decoupling structure permitting substantially better results (27 dB vs 9 dB) to be obtained than in previously published work. The directional patterns of dipoles with length 6λ, 3λ and 0.63λ, with and without the decoupling structures, show the effectiveness of the latter over a band of approximately 20% in frequency. There are 8 figures, 2 tables and 4 references: 3 Soviet and 1 non-Soviet.

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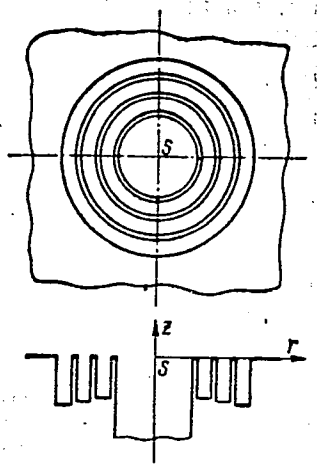
The Suppression of Current ... S/109/61/006/002/007/023
E140/E435

SUBMITTED: June 11, 1960

Fig.1.



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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, A.Ye.

Maximum permissible irradiation levels during the extraction and dressing of uranium ores. Atom. energ. 12 no.2:170 F '62. (MIRA 15:1)

(Uranium ores) (Radiation--Dosage)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

Sokolov A.Ye

OKUNEV, A.I.; SOKOLOV, A.Ye.

Technical and economic analysis of efficiency of fuming zinc-containing slags, using oxygen and preheated blow. Biul. TSIIN tsvet. met. no.24:30-33 '57. (MIRA 11:5)
(Nonferrous metals--Metallurgy)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, A. Ye.

Research carried out in 1960 by the Northern Caucasus Institute of Mining and Metallurgy. Izv. vys. ucheb. zav.; tsvet. met. 4 no.2:167-168 '61. (MIRA 14:6)
(Nonferrous metals—Metallurgy)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, A.Ye.

Research carried out in 1961 by the Northern Caucasus Mining and Metallurgical Institute. Izv.vys.ucheb.zav.; tsvet.met. 5 no.3:163-164 '62. (MIRA 15:11)
(Caucasus, Northern--Nonferrous metals)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, A.Ye.

Attachment for drilling boreholes. Izv. vys. ucheb. zav.; gor. zhur. 5 no.3:172-173 '62. (MIRA 15:7)
(Boring machinery--Equipment and supplies)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, A.Ye.; MAR'YENKOV, V.V.; KHADZARAGOV, A.P.

Possible mechanism of gas entrapment by rocks during blasting operations. Izv. vys. ucheb. zav.; tsvet. mat. 5 no.5:3-6 '62. (MIRA 15:10)

1. Severokavkazskiy gornometallurgicheskiy institut. Kafedra spetsial'nykh kursov gornogo dela.
(Blasting) (Gases in rocks)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, A. Ye.

"Technological Equipment of Elevators, Mills, Hulling Mills, and Prepared Feed Factories." Sub 26 Dec 51, Moscow Technological Inst of the Food Industry.

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

SO: Sum. No. 480, 9 May 55.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, A.Ye., gornyy inzhener.

Results of increasing the speed of drilling with an EBK-2m type electric core drill. Ugol' 29 no.7:42 Jl '54. (MLRA 7:7)

1. KuzNIUI
(Boring machinery)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, A.Ye.; YAKOVLEV, B.A.

Raising the efficiency of production. Stroi. mat. no.11:11 N '65. (MIRA 18:12)

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L 15721-65 EWT(m)/EWP(w)/EWA(d)/EWP(t)/EWP(k)/EWP(b) Pf-4 ASD-3/AFFTC/ESD-3/IJP(c)/ESD(gs)/ESD(t)/SSD/BSD/AFWL/ASD(a)-5/ASD(f)-2/ASD(m)-3/AS(mp)2 JD/HW
ACCESSION NR: AR4045881 S/0137/64/000/007/I035/I035

SOURCE: Ref. zh. Metallurgiya, Abs. 7I221 B

AUTHOR: Kekalo, I. B.; Livshits, B. G.; Morgner, V.; Sokolov, A. Yu.

TITLE: Effect of deformation and magnetic effects on the internal friction of iron

CITED SOURCE: Sb. Relaksats. yavleniya v met. i splavakh. M., Metallurgizdat, 1963, 176-183

TOPIC TAGS: deformation, magnetic effect, internal friction, iron, domain boundary, ferromagnetism

TRANSLATION: Transitory instability of Armco iron and electrolytic iron samples was investigated in various initial states (after demagnetization by a changing field, in a state of residual induction, and after elastic deformation). Study was also made of the recovery of stabilized internal friction brought about by losses due to magnetic hysteresis, as a result of magnetic and deformation (exposure to and removal from elastic stress) effects. Internal

Card 1/2

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L 15721-65
ACCESSION NR: AR4045881

friction was measured with an inverted low frequency torsion pendulum at temperatures from -196 to +100°. In the study of Fe annealed in H_2 (in this case there were losses due to magnetic hysteresis), instability was found in the temperature interval from -40 to 15°. Outside this interval, the internal friction of Fe was stable, independent of the initial state of the sample. Instability of internal friction is observed in samples subjected to magnetic (constant and changing field) and deformation effects. An increase in internal friction, as a result of deformation effects, leads to approximately the same level independent of the initial state of the sample, including the state following stabilization of internal friction. The high residual value of internal friction in Fe annealed in H_2 is connected with losses due to magnetic hysteresis, determined by heterogeneous displacements of the domain boundaries under the effect of external elastic stresses. The decrease of internal friction with the passage of time is explained by the redistribution of foreign atoms, as a result of which there comes about a blocking of the domain boundaries and a decrease in losses due to magnetic hysteresis. 10 literature titles.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOV/110-59-6-11/24

AUTHORS: Sokolov, A.Z., Engineer and Tyklin, A.A.

TITLE: The Rationalisation of Wages in the Electrical Manufacturing Industry (Nekotoryye voprosy uporyadocheniya zarabotnoy platy v elektrotekhnicheskoy promyshlennosti)

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 6, pp 48-51 (USSR)

ABSTRACT: The rationalisation and technical rating of wages can have an important influence on labour productivity. The tariff system and correct organisation of labour rating play an important part in the organisation and regulation of wages. The main components of the tariff system are: the tariff grading; the top grade tariff rating and the tariff-qualification table. In the electrical industry there are now about three hundred different tariff gradings, of which about two hundred are sub-divided into eight grades. Such complications are quite unjustified. In particular, of the eight grades only five are in general use. Analysis of data from a number of electrical engineering works shows that at the present time the tariff constitutes only some 35 to 50% of the workers' wages. Often it is not advisable to use

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SOV/110-59-6-11/24

The Rationalisation of Wages in the Electrical Manufacturing Industry

the piece-work system but sometimes the low tariff rates have led to the use of piece-work in cases where it is difficult or even impossible to assess the amount actually earned. Experience with a reorganised tariff system in fourteen engineering works since 1956 has shown that it is possible to transfer groups of workers, particularly in auxiliary shops, to a time and time-premium system of wage payments. Examples of this are given. The proportion of rationally-formulated job ratings is very small. Usually the tariff-qualification tables are based on the so-called "summary" method in which the work is evaluated as a whole on the basis of experience. This method may be valid in some simple cases but in general it is not. There is no uniformity in classifying the difficulty of work and the same job is often assessed differently in different places. The Scientific Research Institute of Labour has proposed a theoretical method of determining the difficulty of work. The method is based on a points system of evaluating work functions and the constituent parts of

Card 2/5

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SOV/110-59-6-11/24

The Rationalisation of Wages in the Electrical Manufacturing Industry

the labour process. The Institute sub-divides any working process into four functions: calculation, including calculations made before and during the working process; preparatory work, including selection of tools, equipment etc; the actual working process; and control of equipment which makes additional demands on the qualified worker. A factor is also used to allow for the responsibility of the work. Some of the defects of the procedure of the Institute of Labour are then discussed. In drawing up the rates for fitting and assembly, the Scientific Research Institute of the Electro-Technical Industry somewhat revised the procedure of the Institute of Labour: the two points systems are compared in a Table. On the 3rd November 1958, the Council of Ministers of the USSR and the All-Union Council of Trade Unions published a decree "Transfer to a shorter working day and reorganisation of wages in the engineering, oil and gas industries". It recognised

Card 3/5

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SOV/110-59-6-11/24

The Rationalisation of Wages in the Electrical Manufacturing Industry

particularly that in reorganising wage rates the wages of the lower paid workers should be increased to reduce the difference between the maximum and minimum earnings. The new conditions of wage payment are to involve appreciably higher tariff rates. Technical and other staff wages are also to be rationalised. When shortening the working day and applying the new justified time-rates one should raise considerably the productivity of labour. About three quarters of all wage payments should be on the tariff scale. In going over to the 7-hour working day and reorganising wages, every undertaking of the electrical industry should ensure that labour productivity increases more rapidly than wages. The transfer to the shorter working day should mainly be based on economies achieved by avoiding excesses in the system of wage payment, by introducing improved production methods, cutting out losses of working time and regularising the rating of

Card 4/5

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SOV/110-59-6-11/24

The Rationalisation of Wages in the Electrical Manufacturing Industry

work and improving control of production. There is 1 table.

Card 5/5

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

ALEKSANDROV, P.A., doktor tekhn. nauk [deceased]; GAUBOV, N.M.; TIMOFEYEV, D.I.; SOKOLOV, B.A.

Investigating regularities of shape changes of sheet workpieces during rolling in horizontal and vertical mills. Sbor. trud. UNITM no.93:223-239 '64 (MIRA 18:1)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, B.A., kand.tekhn.nauk; INOZEMTSEV, V.G., inzh.; RASTORGUYEV, V.P., tekhnik

Steady movement of air with a variable discharge in the main air line of an automatic braking system. Trudy TSNII MPS no.163:169-191 '58. (MIRA 12:2)

(Railroads--Brakes) (Air flow)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, B.A., kand.tekhn.nauk; TARASOV, M.F., inzh.

Distribution of pressure waves and air discharge in the main pipeline of pneumatic systems used in railroad rolling stock. Trudy TSNII MPS no.163:195-214 '58. (MIRA 12:2)
(Railroads--Brakes) (Air pipes)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, B.A., kand.tekhn.nauk; TARASOV, M.V., inzh.

Nonstationary outflow and distribution of pressure waves in automatic braking systems. Vest.TSNII MPS 18 no.3:22-27 My '59. (MIRA 12:8)

(Railroads--Brakes)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, B.A.

Role of automotive transportation in distributing underground grain receiving stations. Trudy Transp.-energ. inst. Sib. otd. AN SSSR no. 10:113-126 '60. (MIRA 14:1)
(Siberia, Western--Grain--Transportation)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

ALEKSANDROV, A.A.; NAYFEL'D, M.R.; SOKOLOV, B.A., redaktor

[Terminal splitting of control cables by S.V.TSyganov's method] Razdelka kontrol'nykh kabelei po metodu S.V.TSyganova. [Nauch. redaktor B.A.Sokolov] Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953. 13 p. (MLRA 7:5)
(Electric cables)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, B.A., inzhener, redaktor; PEVZNER, A.S., redaktor; TOKER, A.M., tekhnicheskiy redaktor

[Instructions and regulations on safety measures applied to electrical installation work] Instruktivnye ukazaniia po tekhnike bezopasnosti pri proizvodstve elektromontazhnykh rabot. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953. 67 p. (MLRA 7:10) [Microfilm]

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye po proizvodstvu elektromontazhnykh rabot.
(Electric engineering--Safety measures)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, B.A., inzhener.

Current problems in the industrialization of electric installation work. Prom. energ. 11 no.3:1-6 Mr '56. (MLRA 9:7)
(Electric engineering)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

Sokolov, B.A.

KOFMAN, K.D., inzh., red.; SOKOLOV, B.A., red.; PEVZNER, A.S., red.izd-va; TOKER, A.M., tekhn.red.

[Engineering instructions for construction and installation work] Tekhnicheskie usloviia na proizvodstvo i priemku stroitel'nykh i montazhnykh rabot. Moskva, Gos. izd-vo lit-ry po stroit. i arkhit. Sec.13. [Electric installation work] Elektromontazhnye raboty. Pt.1. 1957. 137 p. (MIRA 11:5)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.
(Electric engineering)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, B.A., inzh.

Development of electric installation in industrial enterprises in the U.S.S.R. in the past 40 years. Prom.energ.12 no.11:17-23 N '57. (MIRA 10:12)

1. Gosstroy SSSR.

(Electric apparatus and appliances)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, B.A.

BELOV, N.N.; BOL'SHAM, Ya.M.; GORDEYEV, A.N.; GRACHEV, V.A.; YERMILOV, A.A.; ZALESSKIY, A.M.; KIZEVETTER, Ye.N.; KNORRING, G.M.; KONSTANTINOV, B.A.; KOPYTOV, N.V.; LEVIT, G.O.; MILLER, G.P.; NAYFEL'D, M.P.; PRINTSEV, A.A.; SERBINOVSKIY, G.V.; SOKOLOV, B.A.; STASILOYTS, A.B.; TAYTS, A.A.; KHRAMUSHIN, A.M.

Mikhail Konstantinovich Kharchev; obituary. Belov and others. Prom. energ. 12 no.12:33 D '57. (MIRA 10:12)
(Kharchev, Mikhail Konstantinovich, 1896-1957)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOV/94-58-12-10/19

AUTHOR: Sokolov, B.A.

TITLE: The Industrialisation of Electrical Erection Work and its Technical-Economic Effectiveness (Industrializatsiya elektromontazhnykh rabot iyeye tekhniko-ekonomicheskaya effektivnost')

PERIODICAL: Promyshlennaya Energetika, 1958, Nr 12, pp 21-26 (USSR)

ABSTRACT: In the USSR electrical erection work is not sufficiently industrialised. By this is meant that not sufficient use is made of packaged electrical equipment assembled complete by the manufacturers and of the preliminary erection of large units before final erection. In 1957 the mean level of industrialisation in Glavelektromontazh of the Ministry of Construction of the RSFSR was 32% where in individual trusts it was almost 40%. The performance of individual trusts of the organisation in this respect is shown in Table 1. In theory it should even now be possible to raise the industrialisation factor in this electrical erection organisation to 50 to 55% as can easily be confirmed by simple calculations based on the data given in Table 2, for estimated costs of electrical erection work. Later, when

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SOV/94-58-12-10/19

The Industrialisation of Electrical Erection Work and its Technical-Economic Effectiveness

more completely erected equipment is received from the manufacturers the level of industrialisation could be raised to 65 to 75%. Figures of this order are already achieved in the leading foreign countries. Already, some erection organisations are doing important preparatory work away from the main erection site. An example of preliminary preparation and erection of conduit work for a skip winder is shown in Fig 1. Examples of preliminary erection of busbars and cables are shown in Fig 2 and 3. This procedure of carrying out special erection work at special sites away from the final site offers considerable promise for making erection more efficient. Existing methods of providing information necessary for erection are then criticised. The erection drawings produced by many organisations are not at all suited to industrialised erection. Accordingly GOSSTROY USSR is now drawing up technical rules about the content of information supplied for erection purposes. The trouble is aggravated by the

Card 2/5

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SOV/94-58-12-10/19

The Industrialisation of Electrical Erection Work and its Technical-Economic Effectiveness

fact that the erection organisations have to do a lot of work that should really be done by the equipment manufacturers who should supply the equipment completely assembled and ready for use. Very often the manufacturers drawings are quite unsuited to erection purposes. Estimates are then made of the cost saving that results from industrialisation of erection work. The use of packaged equipment should reduce the construction cost of 35 kV sub-stations by about 20% and of 10 kV sub-stations by 50 to 65%. The erection time is also much shorter. The Scientific Research Institute of Construction Economics of the Academy of Construction and Architecture of GOSSTROY USSR has developed a method of calculating the economic effect of industrialisation of erection work. A formula is given that reflects the economy resulting from reducing the number of workers and, therefore, the labour costs; reducing the erection time; reducing the material and transport costs and reducing the extra payments for work under winter conditions. The basic data required for

Card 3/5

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SOV/94-58-12-10/19

The Industrialisation of Electrical Erection Work and its Technical-Economic Effectiveness

calculating the economic effect of using industrialised methods of erection of the electrical equipment for a blast furnace charging system are given in Table 4. The detailed calculations are then made and the total cost reduction is found to be about 15,000 roubles or 15% in this case. The main directions of development of industrialisation of erection work should be greater use of packaged electrical equipment and more preliminary erection of components by the erection organisations. Brief details are given of the proposals that GOSSTROY USSR has made to GOSPLAN USSR for inclusion in the 1959-65 plan. The All-Union Conference on the development of the production of packaged electrical equipment called by GOSPLAN USSR and the Leningrad Council of National Economy in June, 1958 noted the deplorable lag of Soviet Industry in this branch of manufacture. It is required that the position should

Card 4/5

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SOV/94-58-12-10/19

The Industrialisation of Electrical Erection Work and its Technical-Economic Effectiveness

be considerably improved in the forthcoming plan. There are 3 figures and 4 tables.

ASSOCIATION: GOSSTROY SSSR (GOSSTROY USSR)

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SOKOLOV, B.A., inzh., red.; PETROVA, V.V., red.izd-va; RUDAKOVA, N.I., tekhn.red.

[Specifications for carrying out and accepting construction and assembly operations; electrical assembly operations] Tekhnicheskie usloviia na proizvodstvo i priemku stroitel'nykh i montazhnykh rabot; elektromontazhnye raboty. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. Pt.2. [Electric lines and cables, SN 70-59] Elektroprovodki i kabel'nye linii SN 70-59. 1959. 53 p. (MIRA 13:6)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.
(Electric lines) (Electric cables)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

CHUKAYEV, Dmitriy Sergeyevich; SOKOLOV, D.V., inzh., nauchnyy red.; SOKOLOV, B.A., inzh., nauchnyy red.; LYTKINA, L.S., red.izd-va; GORDEYEV, P.A., red.izd-va; TEMKINA, Ye.L., tekhn.red.

[Electric power supply, electrical equipment, and automatic control] Elektrosnabzhenie, elektrooborudovanie i avtomatika. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 439 p. (MIRA 13:2)

(Electric engineering) (Automatic control)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, B.A.

KARPUKHIN, V.V.; ZAYCHENKO, G.N.; ZIL'BERMAN, A.S.; POPLAVSKIY, V.R.; SOKOLOV, B.A.; NIKITIN, N.G.; DVORYANKIN, M.M.; MEL'NIKOV, V.P.; OL'CHEV, P.F.; BABCHENKO, V.M.

Two-zonal electric furnace for the caking of solid alloys. (MIRA 12:1)
Prom. energ. 14 no.1:40-41 Ja '59.
(Electric furnaces)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, B.A., inzh., red.; PETROVA, V.V., red.izd-va; RUDAKOVA, N.I., tekhn.red.

[Technical specifications for conducting and inspecting construction and installation operations; electrical installation operations] Tekhnicheskie usloviia na proizvodstvo i priemku stroitel'nykh i montazhnykh rabot; elektromontazhnye raboty. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. Pt.3. [SN 100-60 overhead power transmission lines] Vozdushnye linii elektroperedachi SN 100-60. 1960. 56 p. (MIRA 14:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.
(Electric lines--Overhead)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

G/007/60/000/006/012/027

AUTHOR: Sokolov, B.A.

TITLE: The Main Trend of Mechanization and of a New Technology in Electrical Installation Work

PERIODICAL: Elektrie, 1960, No. 6, Supplement, pp. 47 - 48

TEXT: This is the translation of an article originally published in the Soviet periodical "Promyshlennaya energetika" 14 (1959) 9, pp. 1 - 4 (Translator: Alliger). According to calculations by the State Construction Commission of the USSR, 30% of the assembly work for electrical installations will be done in the plants by the end of the Seven-Year-Plan. The labor which can not be done in the plants, i.e., installing of high-voltage lines and laying of cables, will have machines available to facilitate the work. The Chelyabinsk plant "Elektromontazh" designed a special device for the placing of grounding rods. The plant "Yushelektromontazh" produced for the same purpose a supplementary device for the AB-400 truck-mounted drills. Special welding devices have to be developed. High-voltage line construction groups should be equipped with truck-mounted drills and dredges for

Card 1/2

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G/007/60/000/006/012/027

The Main Trend of Mechanization and of a New Technology in Electrical Installation Work

digging the holes for masts. 10-ton cranes mounted on trucks for erection of masts and special transport machines for unrolling cables and hawsers of a six cable line, trucks with elevator platforms for the fixing of cables on insulators, mobile fitter workshops and other mechanized equipment. In the construction of high-voltage lines in the mountains helicopters should be used. Special dredges, transport and tractors are to be used for laying underground cables. Cable connecting and terminal boxes should be filled with epoxy-resin masses. A number of other planned innovations are mentioned.

Card 2/2

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SOKOLOV, B.A., red.; ASHRYATOV, A.K., red.; CHERNEV, K.K., red.; STRASHNYKH, V.P., red.izd-va; MOCHALINA, Z.S., tekhn.red.

[Instructions (SN 171-61) for checking the state of the electrical insulation of transformers prior to placing them in operation] Instruktsiia po kontroliu sostoianiia izoliatsii transformatorov pered vvodom v ekspluatatsiiu (SN 171-61). Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1961. 31 p. (MIRA 15:4)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.
(Electric transformers--Safety regulations)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, B.A., inzh., red.; YERMILOV, A.A., inzh., red.; STRASHNYKH, V.P., red. izd-va; KASIMOV, D.Ya., tekhn. red.

[Directives no. SN 174-61 on the design of electric power supply systems for industrial enterprises] Ukazaniia po proektirovaniiu elektrosnabzheniia promyshlennykh predpriiatii SN 174-61. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 65 p. (MIRA 15:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

(Electric power distribution)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, Boris Alekseyevich; SOLOV'YEV, Petr Fedorovich; LEBEDEV, N.N., red.; VORONIN, K.P., tekhn. red.

[Principles of the installation and operation of the electric equipment of industrial installations] Osnovy montazha i ekspluatatsii elektrooborudovaniia promyshlennykh ustanovok. Izd.5., perer.i dop. Moskva, Gos.energ.izd-vo, 1961. 591 p. (MIRA 14:12)

(Electric power distribution) (Electric wiring) (Electric lines)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

PIRYAZEV, D.I., kand.tekhn.nauk; GOLUBOV, M.M., inzh.; DABAGYAN, I.P., inzh.; TIMOFEYEV, D.I., inzh.; MELESHKO, A.M., inzh.; KOVYNEV, M.V., inzh.; Prinimali uchastiye: VOLCHEK, F.R.; SOKOLOV, B.A.; KRIVONOSOV, Yu.I.

Metal pressure on rolls and loading of the main motors during the operation of 2800 plate rolling mills. Trudy Ukr. nauch.-issl. inst. met. no.7:165-176 '61. (MIRA 14:11)
(Rolling mills--Electric driving)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

KHASKHACHIKH, L.P.; SOKOLOV, B.A.; GENKIN, Ye.M.; SEVAST'YANOV, V.I., glav. red.; KUZNETSOV, A.Ya., zam. glav. red.; MIKHAYLOV, A.V., doktor tekhn. nauk, zam. glav. red.; ABRAMOV, Yu.S., red.; IVANOV, M.A., red.; PETROV, G.D., doktor tekhn. nauk, red.; CHEMIN, A.N., red.

[Volga Hydroelectric Power Station (22d Congress of the CPSU); album of engineering drawing] Volzhskaia gidroelektrostantsiia im. XXII s"ezda KPSS; al'bom chertezhei. Moskva, Gosenergoizdat. Pt.2. [Organization and the carrying out of installation and construction operations] Organizatsiia i proizvodstvo stroitel'no-montazhnykh rabot. 1963. 74 p. (MIRA 16:11)

1. Moscow. Vsesoyuznyy proyektno-izyskatel'skiy i nauchno-issledovatel'skiy institut "Gidroproyekt" im. I.Ya.Zhuk. (Volga Hydroelectric Power Station(22d Congress of the CPSU)

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SOKOLOV, B.A., inzh., red.; ZHIVOV, M.S., inzh., red.; BOL'SHAM, Ya.M., inzh., red.; KUZNETSOV, M.P., inzh., red.; ZIL'BERMAN, R.I., inzh., red.; IFTINKA, G.A., red.izd-va; MOCHALINA, Z.S., tekhn. red.

[Construction specifications and regulations] Stroitel'nye normy i pravila. Moskva, Gosstroiizdat. Pt.3. Sec.I. ch.6.[Electrical systems; regulations for organizing and carrying out the work, acceptance of the works] Elektrotekhnicheskie ustroistva; pravila organizatsii i proizvodstva rabot, priemka v ekspluatatsiiu (SNiP III-I. 6-62) 1963. 134 p. (MIRA 16:10)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosudarstvennyy komitet po delam stroitel'stva SSSR (for Sokolov). 3. Mezhduvedomstvennaya komissiya po peresmotru stroitel'nykh norm i pravil Akademii stroitel'stva i arkhitektury SSSR (for Zhivov). 4. Gosudarstvennyy proyektnyy institut Ministerstva stroitel'stva RSFSR (for Bol'sham, Kuznetsov). 5. Vsesoyuznyy gosudarstvennyy proyektnyy institut Ministerstva energetiki i elektrifikatsii SSSR (for Zil'berman).
(Electric power distribution)

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MIKHAYLOVSKIY, P.A., red.; SOKOLOV, B.A., red.; MELAMEDOV, M.I., red.

[Construction specifications and regulations] Stroitel'nye normy i pravila. Moskva, Stroiizdat. Pt.3. Sec.E. ch.3. [Interurban telephone and telegraph exchanges; regulations for operation] Stantsionnye sooruzheniia mezhdugorodnoi provodnoi sviazi; pravila proizvodstva montazhnykh rabot i priemki v ekspluatatsiiu (SNiP III-E. 3-62). 1964. 8 p. (MIRA 17:9)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Mikhaylovskiy, Sokolov). 3. Gosudarstvennyy institut po izyskaniyam i proyektirovaniyu sooruzheniy svyazi Ministerstva svyazi SSSR (for Melamedov).

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV, B.A., red.; RIZOVATOV, A.V., red.

[Instructions on the determination of the possibility of using d.c. machines without preliminary drying] Instruktsiia po opredeleniiu vozmozhnosti vkliucheniia vrashchaiuschikhsia elektricheskikh mashin postoiannogo toka bez sushki (SN 282-64). Moskva, Stroiizdat, 1965. 8 p. (MIIA 18:7)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Sokolov). 3. Moskovskoye eksperimental'noye otdeleniye Gosudarstvennogo proyektnogo instituta tyazheloy elektricheskoy promyshlennosti (for Rizovatov).

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

GOL'DGOF. Boris Grigor'yevich, inzh.; SOKOLOV, Dmitriy Vladimirovich, inzh.; SOKOLOV, Boris Alekseyevich, inzh.; LEBEDEV, N.N., inzh., nauchn. red.; KORENEVSKIY, A.N., inzh., nauchn. red.

[Electrical equipment of industrial enterprises and systems in three parts] Elektrooborudovanie promyshlennykh predpriiatii i ustanovok v 3 chastiakh. Moskva, Stroiizdat, Pt.1. 1965. 322 p. (MIRA 18:9)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SOKOLOV B. A.

USSR

The utilization of fusel oils as frothers and the products of its reprocessing. V. N. Kozlov, V. M. Arashkevich, and B. A. Sokolov. *J. Appl. Chem. U.S.S.R.* 27, 211-13 (1954) (Engl. translation).—See *C.A.* 48, 11897*i*.
H. L. H.

Fusel oil and its high-boiling fraction yield 7-8% Cu concentrates at 88-90% recoveries. C. H. Fuchsman

2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

Name: SOKOLOV, B. A.

Dissertation: The synthesis and reactions of alkyl- and alkenylhydridesilanes

Degree: Cand Chem Sci

~~Affiliation~~ Defended at: Min Higher Education USSR, Moscow Order of Lenin Chemico-technological Inst imeni D. I. Mendeleyev

~~Defense~~ Publication Date, Place: 1956, Moscow

Source: Knizhnaya Letopis', No 45, 1956

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

PONOMARENKO, V.A.; SOKOLOV, B.A.; PETROV, A.D.

Addition of CH_3SiHCl_2 and $C_2H_5SiHCl_2$ to vinyl chloride, perfluorovinyl chloride, and tetrafluoroethylene. Izv.AN SSSR.Otd.khim.nauk no.5:628-630 My '56. (MLRA 9:9)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo Akademii nauk SSSR. (Ethylene) (Silicon organic compounds)

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SOKOLOV, B. A.

7

Photochemical chlorination of phenyltrichlorosilane. A. D. Petrov, V. A. Ponomarenko, B. A. Sokolov and V. U. Roshal' (*Zh. obshch. Khim.*, 1956, 26, 1229—1233).—Experimental results showed that phenyltrichlorosilane can be photochemically chlorinated by means of u.v. irradiation, and that in these conditions at 200°, the $SiCl_3$ has a weak *meta* orientating effect for the Cl. Thus, (*a*) phenyltrichlorosilane was chlorinated for 42 hr. at temp. <226°, mixed monochloro-deriv. (b.p. 228—240°) being separated after distillation and pure *o*-chlorophenyltrichlorosilane (I) (b.p. 240·5° at 742·5 mm.) isolated; (*b*) *p*-chlorophenyltrichlorosilane was prepared for characterization by a Grignard reaction of *p*-chlorobromobenzene with $SiCl_4$ (b.p. 232·5° at 745·5 mm.); (*c*) *m*-chlorophenyltrichlorosilane was obtained similarly with *m*-chlorobromobenzene (b.p. 230·5° at 738 mm.). Spectral analysis of products from (*a*) showed that the fraction with b.p. 230—232° was a mixture of *m*- and *p*-isomers while the fraction of b.p. 240·5° comprised pure I.

A. L. B.

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

Sokolov, B. A.

USSR/Chemistry - Organic chemistry

Card 1/1 Pub. 22 - 20/43

Authors : Ponomarenko, V. A.; Sokolov, B. A.; Minachev, Kh. M.; and Petrov, A. D.
Memb. Corresp. of AN SSSR

Title : Addition of methyldichlorosilane and ethyldichlorosilane to allyl halides

Periodical : Dok. AN SSSR 106/1, 76-79, Jan 1, 1956

Abstract : The possibility of adding to allyl halides (allyl chloride, metalyl chloride etc) compounds more complex than silico-chloroform ($HSiCl_3$) - silane hydrides - such as methyldichlorosilane and ethyldichlorosilane in the presence of platinized carbon, was investigated. It was found that both silanes in the presence of platinized carbon containing 1% Pt at 160° attach themselves to the allyl- and metalyl chlorides forming homologous gamma-chloralkylalkyldichlorosilane. Other products formed as result of this addition reaction are described. Twenty-one references: 13 USA, 4 USSR, 3 Eng. and 1 French (1947-1955). Graphs.

Institution : Acad. of Sc., USSR, Inst. of Organ. Chem. im. N. D. Zelinskiy

Submitted : July 29, 1955

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SOKOLOV, B. A.

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4E2a-1

2 mag

1/2

Synthesis and properties of some vinyl, phenyl, and alkylhydrosilanes. The stabilizing effect of chlorosilyl groups. A. D. Petrov, V. A. Ponomarenko, B. A. Sokolov, and Yu. P. Egorov (N. D. Zelinskii Inst. Org. Chem., Moscow). *Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1957, 310–18; cf. *C.A.* 49, 9494*h*, 10166*i*.—Addn. of BuMgBr from 136 g. BuBr to 198 g. $ClCH_2CH_2SiCl_3$ in Et_2O gave after filtration 47% $ClCH_2CH_2SiBuCl_2$ (I), b_4 80–1°, d_{20} 1.1496, n_D^{20} 1.4649 (d_{20} and n_D^{20} given throughout the abstr.). Similarly was prepd. $ClCH_2CH_2SiPhCl_2$, b_6 116.5°, 1.2771, 1.5445. Treatment of 66 g. $ClCH_2CH_2SiCl_3$ with 45 g. quinoline gave 46.4% $CH_2:CHSiCl_3$, b_{752} 90.5°, 1.2335, 1.4349. Similar treatment of $Cl_2SiCHClCH_2SiCl_3$ gave 40% $(:CHSiCl_3)_2$, b_{752} 193.5°, along with some $SiCl_4$. I gave 46.8% $CH_2:CHSiBuCl_2$, b_{760} 165.5°, 1.0320, 1.4481 (with $BuSiCl_3$ as by-product). Mixed $ClC_2H_4SiCl_2Et$ treated with quinoline similarly gave 40% $CH_2:CHSiEtCl_2$, b_{741} 97.7° (with unreacted $MeCHClSiEtCl_2$ being recovered). Mixed $ClC_2H_4SiEt_2Cl$ gave 32% $CH_2:CHSiEt_2Cl$, b_{741} 122°, along with Et_2SiCl_2 and $MeCHClSiEt_2Cl$. Adding iso-BuMgI, from 184 g. iso-BuI, to 115 g. $MeSiHCl_2$ in Et_2O and refluxing 4 hrs. gave 31.6% *iso-BuMeSiHCl*, b_{737} 112.5°, 0.8642, 1.4170; similarly $EtSiHCl_2$ gave 23.9% *iso-BuEtSiHCl*, b_{743} 140°, 0.8844, 1.4281. Reduction of 62 g. $CH_2:CHSiEtCl_2$ with 24 g. LiH in 80 ml. iso-Am_2O gave 38.8% $CH_2:CHSiEtH_2$, b_{742} 47°, 0.6940, 1.4030 [Raman spectrum in $cm.^{-1}$: 169(2), 313(5), 585(2), 620(5), 674(4), 712(2), 764(3), 845(2), 942(5), 973(2), 1022(3), 1108(1), 1235(3), 1270(5), 1406(6), 1420(1), 1462(3), 1595(5), 2136(10), 2877(5), 2899(5), 2916(1), 2961(1), 2978(7),

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Petrov, A.D. + Etc

3054(3)]. Similarly CH_2:CHSiEt$_2$Cl gave 20% *CH_2:CHSiEt$_2$H*, b_{745} 100–100.5°, 0.7384, 1.4210 [Raman spectrum: 174(3), 313(4), 342(6), 512(1), 595(10), 690(2), 715(2), 822(5), 975(4), 1022(4), 1107(2), 1179(0), 1236(5), 1274(5), 1406(6), 1420(4), 1465(5), 1595(5), 2115(8), 2879(7), 2895(7), 2918(7), 2942(3), 2963(4), 2975(7), 3054(5)]. Similarly 57 g. CH_2:CHSiBuCl$_2$ and 15 g. LiH gave 1.1 g. *CH_2:CHSiBuH$_2$*, b_{745} 103°, 0.7329, 1.4189 (Raman spectrum not given). iso-BuMeSiClH and LiH gave a low yield of *iso-BuMeSiH$_2$*, b_{745} 73.3°, 0.6941, 1.3976 [Raman spectrum: 170(2), 240(3), 350(4), 425(3), 600(2), 636(2), 655(5), 690(4), 700(4), 705(3), 808(3), 832(3), 954(5), 1050(2), 1092(2), 1219(4), 1260(2), 1332(3), 1420(1), 1450(4), 1464(4), 2135(10), 2872(10), 2909(10), 2934(2), 2964(10)]. Similarly iso-BuEtSiHCl gave a low yield of iso-BuEtSiH$_2$, b_{745} 103.7°, 0.7166, 1.4100. Reduction of 100 g. mixed PhCH$_2$CH$_2$SiCl$_3$ and PhCHMeSiCl$_3$ with 30 g. LiH in dioxane gave 5.7 g. *PhCHMeSiH$_3$*, b_{745} 163.8°, 0.8831, 1.5130 [Raman spectrum: 170(2), 410(3), 485(2), 622(5), 650(2), 701(3), 771(2), 792(3), 941(4), 964(2), 1002(10), 1033(4), 1116(2), 1160(4), 1182(3), 1202(5), 1460(2), 1601(6), 2150(10), 2873(4), 2883(2), 2930(3), 2960(4), 3030(2), 3051(6), 3063(3)], and 9.3 g. *PhCH$_2$CH$_2$SiH$_3$*, b_{745} 171.5°, 0.8824, 1.5109 [Raman spectrum: 167(3), 200(4), 277(2), 485(3), 562(2), 616(5), 648(0), 697(2), 732(2), 758(3), 824(4), 946(5), 1002(10), 1033(5), 1159(3), 1182(3), 1206(5), 1325(2), 1410(3), 1452(2), 1584(2), 1600(4), 2152(10), 2853(3), 2895(5), 2918(3), 3035(4), 3050(8), 3065(6)]. The results of dehydrochlorinations with quinoline indicate a stabilizing effect of chlorosilyl groups on the elimination reaction involving the C-Si bond. These results are correlated with the Raman spectra. G. M. Kosolapoff

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SOKOLOV, B. A.

Distr: 4E4j/4E2c(j)/4E3d

Reaction of addition of hydrosilanes to unsaturated compounds in the presence of platinized carbon. A. D. Petrov, V. A. Ponomarenko, B. A. Sokolov, and G. V. Odabashyan (N. D. Zelinskii Inst. Org. Chem., Moscow). *Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1957, 1206–17.—The best yields of adduct are formed from $RSiHCl_2$ and R_2SiHCl. $HSiCl_3$ and $CH_2:CHCH_2Cl$ with 1% Pt-C in 6 hrs. at 160° gave no adduct, but $MeSiHCl_2$ gave 48% $MeSiCl_2CH_2CH_2Cl$, b_{760} 184.5°, d_{20} 1.2045, n_D^{20} 1.4530, along with $MeSiCl_3$ and $MePrSiCl_2$. Similarly $EtSiHCl_2$ gave 48.8% $EtSiCl_2CH_2CH_2CH_2Cl$, b_{760} 206°, 1.1830, 1.4661, along with $EtSiCl_3$ and $EtPrSiCl_2$. Iso-$PrSiHCl_2$ gave 25% iso-$PrSiCl_2CH_2CH_2CH_2Cl$, b_{12} 55–6°, 1.1512, 1.4685, while $BuSiHCl_2$ gave 30% $BuSiCl_2CH_2CH_2CH_2Cl$, b_{12} 74°, 1.1276, 1.4682. $MeEtSiHCl$ gave 40.5% $MeEtSiClCH_2CH_2CH_2Cl$, b_{760} 197.4°, 1.0333, 1.4559, along with $MeEtSiCl_2$ and $MeEtPrSiCl$, b_{760} 141°, 0.8825, 1.4266. Et_2SiHCl gave 21% $Et_2SiClCH_2CH_2CH_2Cl$, b_{760} 212.5°, 1.0331, 1.46[illegible]t, along with Et_2SiCl_2 and $Et_2PrSiCl$. Et_2MeSiH gave 1.8% $MeEt_2SiCH_2CH_2CH_2Cl$, b_{12} 55–6°, 0.8957, 1.4482, along with $MeEt_2SiCl$ and Et_2MeSiH. Similarly at 170° $HSiCl_3$ and $CH_2:CHCH_2SiCl_3$ gave 50% $CH_2(CH_2SiCl_3)_2$, b_{760} 228°, 1.4394, 1.4732; $MeSiHCl_2$ gave 64% $Cl_2Si(CH_2)_3SiMeCl_2$, b_{760} 230°, 1.3218, 1.4704; $EtSiHCl_2$ gave 48.5% $Cl_2Si(CH_2)_3SiEtCl_2$, b_{760} 258–9°, 1.1758, 1.4680; Et_2MeSiH gave 33.8% $Cl_2Si(CH_2)_3SiMeEt_2$, b_{760} 242°, 1.0658, 1.4693. At 160° $Cl_2C:CHCl$ and $RSiHCl_2$ failed to give an adduct, but $CH_2:CHCl$ and $MeSiHCl_2$ gave 7.6% $MeSiCl_2CHClMe$. $MeSiHCl_2$ and $(CF_2:)_n$ gave 14% $MeSiCl_2CF_2CHF_2$ (*C.A.* [illegible], 1027c), while $CF_2:CClF$ gave 4.5% $MeSiCl_2SiCClFCHF_2$, along with $MeSiCl_2CF_2CF_2CF_2CF_2H$, b_{760} 138°.

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A. D. PETROV, YA. PONOMARENKO . . .

1.5119, 1.3570. Cyclohexene and $MeSiHCl_3$ at 220° gave 6% $C_6H_{11}SiCl_2Me$, b_{12} 201°, 1.0953, 1.4724. At 170° $Me_3SiCH_2CH:CH_2$ and $MeSiHCl_2$ gave 34.5% $Me_3Si(CH_2)_3Si$-$MeCl_2$, b_{12} 201°, 0.9730, 1.4423. At 150° butadiene and $MeSiHCl_2$ gave some vinylcyclohexene and 14.9% $MeSiCl_2$-$CH_2CH:CHMe$, b_{12} 147°, 1.0465, 1.4519, along with {2-(3-cyclohexenyl)ethyl}methyldichlorosilane, b_3 79.5–80.5°, 1.0771, 1.4829. Butadiene and $EtSiHCl_2$ at 160° gave 42.1% $EtSiCl_2CH_2CH:CHMe$, b_{12} 171.5°, 1.0450, 1.4566; this with EtMgBr gave $Et_3SiCH_2CH:CHMe$, b_{12} 183.8–8°, 0.7994, 1.4463. Raman spectrum 175(1), 296(3), 333(1), 373(1), 401(1), 443(3), 505(0), 543(5), 580(2), 568(1), 732(1), 767(4), 790(2), 824(1), 909(3), 972(4), 1017(3), 1121(2), 1158(5), 1191(0), 1238(3), 1265(4), 1308(3), 1360-(1), 1380(1), 1420(4), 1466(5), 1648(6), 1663(3), 2883(10), 2911(8), 2940(2), 2960(8), 2998(3). For comparison, Cl_3Si-$CHMeCH:CH_2$ and EtMgBr gave $Et_3SiCHMeCH:CH_2$, b_{12} 187°, 0.8090, 1.4518, Raman spectrum 174(1), 463(2), 515(4), 560(4), 746(2), 797(0), 889(3), 968(4), 1010(3), 1089(1), 1115(3), 1140(1), 1164(4), 1200(1), 1240(3), 1305(4), 1418(4), 1466(3), 1628(5), 2880(5), 2910(3), 2940(2), 2960(3), 3000(2), 3085(0). In the above addn.

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there also formed [2-(3-cyclohexyl)ethyl]ethyldichlorosilane, b_5 105°, 1.0613, 1.4845. At 100, $MeSiHCl_2$ and $CH_2:CMe-CH_2Cl$ gave 58% $MeSiCl_2CH_2CHMeCH_2Cl$ (*C.A.* 50, 13726*e*). $EtSiHCl_2$ and 3-cyclohexenylethene at 180° gave 75.9% [2-(3-cyclohexenyl)ethyl]ethyldichlorosilane. Reaction of $MeSiHCl_2$ with 1 mole EtMgBr gave 28.6% *MeEtSiHCl*, b_{760} 67.5°, 0.8820, 1.4035, some $MeEt_2SiH$, b_{760} 77.5°, and some *MeEtSiHBr*, b_{760} 90°, 1.2076, 1.4373. Similarly EtMgBr and $EtSiHCl_2$ gave 32.8% Et_2SiHCl, some Et_3SiH and some 15% Et_2SiHBr, b_{760} 121°, 1.1903, 1.4472. Heating in Et_2O $MeEtSiCl_2CH_2CH_2CH_2Cl$ and Mg 5 hrs. gave 18.8% $MeEtSi(CH_2)_3$, b_{760} 109°, 0.7965, 1.4388. Similarly was prepd. 8.8% $EtClSi(CH_2)_3$, b_{760} 133.5°, 0.9791, 1.4570, from $EtSiCl_3CH_2CH_2CH_2Cl$. The use of $MeSiCl_2CH_2CH-MeCH_2Cl$ similarly gave 6.8% $MeClSi.CH_2.CHMe.CH_2$, b_{760} 118°, 0.9473, 1.4428. G. M. Kosolapoff

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PETROV, A.D.; BATUYEV, M.I.; PONOMAREV, V.A.; SNEGOVA, A.D.; MATVEYEVA, A.D.; SOKOLOV, B.A.

Chlorination and bromination of pheyltrichlorosilane and the Raman spectra of halide substituted phenyltrichlorosilanes. Zhur. ob. khim. 27 no.8:2057-2061 Ag '57. (MLRA 10:9)

1. Institut organicheskoy khimii Akademii nauk SSSR.
(Silane)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5"

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SOKOLOV, B. A.

PETROV, A.D.; SADYKH-ZADE, S.I.; PONOMARENKO, V.A.; SOKOLOV, B.A.; YEGOROV, Yu.P.

Reaction of some γ-chloralkylsilanechlorides with silicon under condition of forward synthesis. Zhur. ob. khim. 27 no.9:2479-2486 S '57. (MIRA 11:3)

1.Institut organicheskoy khimii AN SSSR.
(Silicon) (Chemistry, Organic--Synthesis)

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SOKOLOV, B. A.

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4E4j-1

4Ede-1

2 May

A study of some metals of group VIII as catalysts in the reaction of addition of alkyldichlorosilanes to unsaturated compounds. A. D. Petrov, Kh. M. Minachev, V. A. Ponomarenko, B. A. Sokolov, and G. V. Odabashyan (N. D. Zelinskii Inst. Org. Chem., Acad. Sci. U.S.S.R., Moscow). *Doklady Akad. Nauk S.S.S.R.* 112, 273-5(1957); cf. *C.A.* 50, 13726e; U.S. 2,632,013 (*C.A.* 48, 2760k) and U.S. 2,637,738 (*C.A.* 48, 8254h).—In a model reaction of addn. of $EtSiHCl_2$ to $CH_2:CHCH_2Cl$ (1:1 mole proportion) in 6 hrs. at 160°, it was shown that Pt catalysts gave the highest yields of addn. products (1% Pt on C 48.8%, 0.5% Pt on SiO_2 50.7%, 1% Pt on Al_2O_3 50%) but also yielded relatively large amts. of by-products: $EtSiCl_3$ and $EtSiCl_2Pr$. The action of 1% Ru on Al_2O_3 approached that of Pt (39.4%). Very weak activity was found in 1% Pd on Al_2O_3, 5% $NiNO_3$ on C, 0.5% Pd on SiO_2, and 2% Pd on Al_2O_3. The formation of $EtSiCl_2Pr$ probably took place through intermediate formation of $EtSiCl_3$. G. M. K.

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KOZLOV, V.N.; POPOVA, G.I.; SOKOLOV, B.A.

Utilization of slime produced in the manufacture of acidic wood powder in continuous retorts. Sbor.rab.Lab. lesokhim. no.2:62-64 '58. (MIRA 12:8)
(Wood--Chemistry) (Phenol condensation products)
(Calcium acetate)

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PHASE I BOOK EXPLOITATION SOV/4579

Konferentsiya po razvitiyu proizvoditel'nykh sil Vostochnoy Sibiri, 1958. Khimicheskaya sektsiya

Khimicheskaya promyshlennost'; trudy konferentsii (Chemical Industry; Transactions of the Conference on the Development of Production Forces in Eastern Siberia) Moscow, Izd-vo AN SSSR, 1960. 202 p. (Series: Razvitiye proizvoditel'nykh sil Vostochnoy Sibiri) Errata slip inserted. 2,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Sovet po izucheniyu proizvoditel'nykh sil. Sibirskoye otdeleniye.

Editorial Board: I.P. Bardin (Deceased) Chief Ed., Academician; M.A. Lavrent'yev, Academician; S.I. Vol'fkovich, Academician, V.I. Dikushin, Academician; V.S. Nemchinov, Academician; V.I. Veyts, Corresponding Member, Academy of Sciences USSR; O.D. Levitskiy, Corresponding Member, AS USSR; N.N. Nekrasov, Corresponding Member, AS USSR; L.V. Pustovalov, Corresponding Member AS USSR; T.S. Khachaturov, Corresponding Member, AS USSR; N.F. Rostovtsev, Academician, VASKHNIL; A.N. Popov, Corresponding Member, Academy of Building and Architecture USSR; L. Ye. Grafov, Deputy Chairman, Gosplan RSFSR; A.D. Gashev, Member, Gosplan RSFSR; A. Ye. Probst, Professor; V.F. Yasyukin, Professor; V.A. Krotov, Professor; P.V. Vasil'yev, Doctor of Economic Sciences; G.L. Lyudogovskiy, Candidate of Technical Sciences; P.A. Letunov, Candidate of Geological and Mineralogical Sciences; and N.G. Zakal'nikov, Candidate of Economic Sciences; Editorial Board of this volume: S.L. Vol'fkovich (Resp. Ed.); G.V. Uvarov, Deputy Chairman, State Committee on Chemistry, Council of Ministers USSR; and V.P. Komarov, Docent; Ed. of Publishing House: A.L. Bankvitser; Tech. Ed.: V.V. Brungul'.

PURPOSE: This book is intended for chemical engineers and economic planners concerned with the industrial development of Eastern Siberia.

COVERAGE: This volume is one of a series of 13 containing the Transactions of the Conference on the Development of the Productive Forces in Eastern Siberia. The Conference took place in August 1958. The volume contains summaries of 20 reports presented at the meetings of the Chemical Section of the Conference, brief summaries of pertinent discussions, and the text of resolutions taken by the Chemical Section. The reports deal with the possibilities of developing chemical industries in Eastern Siberia capable of producing artificial fibers, acetylene, plastics, synthetic detergents, synthetic rubber, mineral fertilizers, sulfuric acid, nitrogen, soda, chlorine, etc. No personalities are mentioned. There are no references.

Birgar, G. Ya. [Candidate of Economic Sciences, VNIIV], and Z.A. Rogovin [Professor, Moskovskiy tekstil'nyy institut (Moscow Textile Institute)]. Ways of Developing the Artificial and Synthetic-Fiber Industry in Eastern Siberia 57

Petrov, A.D. [Corresponding Member, AS USSR, Institut organicheskoy khimii imeni N.D. Zelinskogo AS SSSR (Institute of Organic Chemistry imeni N.D. Zelinskiy, AS USSR)]. Ye. A. Chernyshev [Candidate of Chemical Sciences, Institute of Organic Chemistry imeni Zelinskiy, AS USSR], V.F. Mironov [Candidate of Chemical Sciences, Institute of Organic Chemistry imeni Zelinskiy, AS USSR], and B.A. Sokolov [Candidate of Chemical Sciences, Institute of Organic Chemistry imeni Zelinskiy, AS USSR]. Prospects for the Development of the Synthesis of Monomeric Organosilicon Compounds 65

Orechkin, D.B. [Candidate of Technical Sciences], and V.V. Veselov. Prospects for the Production of Synthetic Detergents in Eastern Siberia 72

Rodkovskiy, D.M. [Candidate of Chemical Sciences, VNIINeftekhim]. Production of Flotation Agents for Nonferrous and Rare-Metal Ores 78

I.B. Rapoport [Professor, VNIINP (All-Union Scientific Research Institute for the Processing of Petroleum and Gas and for the Production of Synthetic Liquid Fuel)], V. Ya. Kruglikov [Candidate of Technical Sciences, VNIINP], and Ye. M. Kheyfets [Candidate of Technical Sciences, VNIINP]. Prospects of Using Gases Containing Carbon Monoxide and Hydrogen for the Synthesis of Chemical Products and Fuels 85

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

KOZLOV, V.N.; SOKOLOV, B.A.

Prolysis of the wood of various portions of coniferous and deciduous trees. Trudy Inst.khim.UFAN SSSR no.6:11-16 '61. (MIRA 16:2)

(Wood distillation)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

SHOSTAKOVSKIY, M.F.; SOKOLOV, B.A.; GRISHKO, A.N.

Addition of methylbutyl- and methylisobutylfluorosilanes to styrene. Zhur.ob.khim. 32 no.2:663 F '62. (MIRA 15:2)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

(Silane)
(Styrene)

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

S/079/62/032/005/009/009
D204/D307

AUTHORS: Shostakovskiy, M.F., Sokolov, B.A., and Yermakova, L.T.

TITLE: Synthesis of p-chlorophenyl trichlorogermanium (I)

PERIODICAL: Zhurnal obshchey khimii, v. 32, no. 5, 1962, 1714

TEXT: The authors carried out, for the first time, a high temperature condensation of $HGeCl_3$ with p-dichlorobenzene. The mixture, in the ratio 1:1, was passed through a quartz tube 900 mm long and 22 mm in diameter, at 550°C. The condensate, I, was collected in a trap cooled with dry ice, in 11.5 % yield. B.p. 105 - 107°C/5 mmHg; n_D^{20} 2.5738; d_4^{20} 1.[illegible]467. Found Cl 47.21 %; calculated Cl 48.81 %. Increasing the $HGeCl_3$: p-$Cl-C_6H_4-Cl$ ratio to 2:1 raised the yield to 16 %. Only traces of $PhGeCl_3$ were obtained when PhCl was substituted in place of ClC_6H_4Cl, under the same conditions. $PhGeCl_3$ prepared by the Grignard reaction had a b.p. of 80°C/6 mmHg, n_D^{20}.

Card 1/2

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

S/079/62/032/012/002/008
D424/D307

AUTHORS: Shostakovskiy, M.F., Sokolov, B.A., Grishko, A.N., Lavrova, K.F. and Kazan, G.I.

TITLE: Addition of fluorohydrosilanes to unsaturated compounds

PERIODICAL: Zhurnal obshchey khimii, v. 32, no. 12, 1962, 3882-3885

TEXT: The above reaction has not been studied previously because of the difficulty of synthesizing compounds of the type R_nSiHF_{3-n}. A number of such compounds has now been synthesized, in 60-80% yields, by the reaction of the corresponding alkyl or amyl chlorohydrosilanes with concentrated HF at room temperature, over 30-40 minutes. The following additions were carried out, using a 0.1 M solution of chloroplatinic acid in iso-propanol as catalyst: diethylfluorosilane to allyl chloride, and methylpropyl-, methyliso-propyl-, methylbutyl-, and methyliso-butylfluorosilanes and methyl- and propyldifluorosilanes to styrene. The first of these additions

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proceeded in accordance with Markovnikov's rule to give γ-chloropropyldiethylfluorosilane. Each of the additions to styrene proceeded in two directions - in accordance with an contrary to Markovnikov's rule - to give predominantly the α- and some β-isomers. Identities of the adducts formed were established by comparing their Raman spectra with those of the compounds obtained by fluorinating the corresponding chloro compounds. Addition of the dialkylmonofluorosilanes to styrene takes place more vigorously than that of the corresponding chloro compounds, giving higher yields. The physical constants of five of the dialkylfluorosilanes and of 11 of the styrene addition products and the Raman spectra of 10 of the styrene addition products are given: 15 of these compounds are new. There are 2 tables.

ASSOCIATION: Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR (Irkutsk Institute of Organic Chemistry of the Siberian Branch of the Academy of Sciences USSR)

SUBMITTED: December 15, 1961

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L 13012-63 EPF(c)/EWP(j)/EWT(m)/BDS ASD Pr-4/Pc-4 RM/WW

ACCESSION NR: AP3002907 S/0289/63/000/001/0136/0140

66
65

AUTHOR: Shostakovskiy, M. F.; Sokolov, B. A.; Khil'ko, O. N.; Shergina, N. I.

TITLE: The sequence of addition of hydrosilanes to phenylacetylene

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 1, 1963, 136-140

TOPIC TAGS: hydrosilane addition reaction, trans-isomer formation, trichlorosilane, methyldichlorosilane, ethyldichlorosilane, methylethyldichlorosilane, triethylsilane

ABSTRACT: This study is an ivestigation of the addition reactions of one or two hydrosilane molecules to penylacetylene. The addition reaction of hydrosilanes to an acetylene triple bond is accomplished by means of a catalyst which is 0.1 M H sub 2 PtCl sub 6. 6 H sub 2 O in isopropyl alcohol. The synthesized products containing the double bond may be used to obtain polymers. Some of these products will polymerize if only left to stand. The hydrosilanes investigated in this work were trichlorosilane, methyldichlorosilane, ethyldichlorosilane, methylethyldichlorosilane, and triethylsilane in accordance with the reaction shown in the Enclosure. It was shown that one or two molecules can react with

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ACCESSION NR: AP3002907

phenylacetylene contrary to the Markov law. When using H sub 2 PtCl sub 6 times 6 H sub 2 O catalyst, the cis-additive of hydrosilane molecule forms a trans-isomer. Orig. art. has: 1 table.

ASSOCIATION: Irkutskiy Insitut Organicheskoy Khimii Sibirskogo Otdeleniya AN SSSR (Irkutsk Institute of Organic Chemistry, Siberian Department, AN SSSR)

SUBMITTED: 29Apr62 DATE ACQ: 24Jul63 ENCL: 01

SUB CODE: 00 NO REF SOV: 006 OTHER: 004

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652010001-5

ACCESSION NR: AP4015148 S/0289/63/000/003/0092/0096

AUTHORS: Shostakovskiy, M.F.; Sokolov, B.A.; Khil'ko, O.N.; Balezina, G.G.; Alekseyeva, G.M.

TITLE: Addition of silane hydrides to vinyl ethers

SOURCE: AN SSSR. Sib. otd. Izv., no. 11. Ser. Khim. nauk, no. 3, 1963, 92-96

TOPIC TAGS: silicohydride, silane, silane hydride, addition reaction, vinyl ether addition reaction, trichlorosilane ether, dichloromethylsilane ether, dichloroethylsilane ether, triethylsilane ether, beta ether, Markownikoff rule, Raman spectrum

ABSTRACT: The addition of trichlorosilane, methyldichlorosilane, ethyldichlorosilane, and triethylsilane to vinylisooprophyl-, vinylbutyl-, vinylphenyl-, vinyl- o-, m- and p-cresyl ethers were studied. The addition of equimolar amounts of silane and vinyl etner was effected by heating and using chloroplatinic acid as the catalyst (beta-phenoxyethyltriethylsilane was prepared by the Grignard re-

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ACCESSION NR: AP4015148

action). The following new compounds were prepared and characterized: the beta-phenoxyethyl-, the beta-c-cresoxy ethyl, the beta-m-cresoxyethyl, and the beta-p-cresoxyethyl- trichlorosilanes; -dichloromethylsilanes, dichloroethylsilanes, and -triethylsilanes; the beta-butoxyethyl-dichloromethylsilane, dichloroethylsilane and triethylsilane; and the beta-isopropoxyethyldichloroethylsilane. The presence of the beta structure in the products, contrary to Markownikoff;s rule, was confirmed by Raman spectra and chemical decomposition. "Spectra were taken by N.I. Golovanov, for which the authors express their appreciation." Orig. art. has: 1 table and 1 equation.

ASSOCIATION: Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR (Irkutsk Institute of Organic Chemistry, Siberian branch AN SSSR)

SUBMITTED: 03Aug62 DATE ACQ: 13Mar64 ENCL: 00

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

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