"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.D.; KHOTYANOVICH, A.V.; VEDENEYEVA, N.A.

Physiological effect of frit fly larvae (Oscinosoma frit L.) on embryonic tissues of corn. Dokl. AN SSSR 140 no.4:978-980 O '61. (MIRA 14:9)

1. Vsesoyuznyy institut zashchity rasteniy. Predstavleno akademikom Ye.N.Pavlovskim.

(Frit flies) (Corn (Maize)--Diseases and pests)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, Isaak Davidovich; ANDREMOVICH, M.B., red.; KEUTSKAYA, O.Ye., red.; BARANOVA, L.G., tekhn. red.

[Swedish fly as a corn pest and measures for its control] Shvedskaia mukha - vreditel' kukuruzy i mery bor'by s nei. Leningrad, Sel'khozizdat, 1962. 78 p. (MIRA 15:11)
(Corn (Maize))--Diseases and pests)
(Fruit flies--Extermination)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

KALASHNIKOV, Karp Yakovlevich; SHAPIRO, Isaak Davydovich; REUTSKAYA, O.Ye., red.; BARANOVA, L.G., tekhn. red.

[Corn pests and diseases]Vrediteli i bolezni kukuruzy. Leningrad, Sel'khozizdat, 1962. 188 p. (MIRA 16:1)
(Corn (Maize))--Diseases and pests)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.D.

Frit flies living in corn fields of the European part of the U.S.S.R. and the nature of their relation with this crop. Vop. ekol. 7: 203-204 '62. (MIRA 16:5)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.
(Frit flies)
(Corn (Maize)--Diseases and pests)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.D., kand.sel'skokhoz.nauk; KARAVYANSKIY, N.S., kand.sel'skokhoz. nauk; NOVOSELOV, Yu.K., kand.sel'skokhoz.nauk

Mixed plantings and the Swedish fly. Zashch.rast.ot vred.i bol. 7 no.4:37-38 Ap '62. (MIRA 15:12)

1. Vsesoyuznyy institut zashchity rasteniy (for Shapiro). 2. Vsesoyuznyy institut kormov (for Karavyanskiy, Novoselov).
(Corn (Maize))---Diseases and pests) (Frit flies)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

KOROLEV, P.A., NIKIFOROV, A.M., SHAPIRO, I.D.; VILKOVA, N.A.; DROZDOVSKIY, E.M.

Questions and answers. Zashch. rast. ot vred. i bol. 8 no.2: 39-40 F '63. (MIRA 16:7)
(Plants, Protection of)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.D.; VILKOVA, N.A.

Places of egg laying of the Swedish fly Oscinella frit L. (Diptera, Chloropidae). Ent. oboz. 42 no.1:138-150 '63. (MIRA 16:8)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.
(Frit flies) (Insects--Eggs)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

[illegible]

Behavior of fruit flies and their harmfulness to corn plantings in the north-eastern zone of the U.S.S.R. Trudy VIZR no.17: 248-276 '65. (MIRA 18:9)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

KALASHNIKOV, K.Ya., nauchn. sotr.; SHAPIRO, I.D., nauchn. sotr.; KHALEYEVA, Z.N., nauchn. sotr.; KOKORIN, A.N., nauchn. sotr.; EPSHTEYN, Ye.L., red.

[Recommendations for the protection of peas, kidney beans, and forage beans against main pests and diseases] Rekomendatsii po zashchite gorokha, fasoli i kormovykh bobov ot glavneishikh vreditelei i boleznei. Moskva, Sel'khozizdat, 1963. 15 p. (MIRA 17:6)

1. Russia (1923- U.S.S.R.) Ministerstvo sel'skogo khozyaystva. Upravleniye nauki, propagandy i vnedreniya peredovogo opyta. 2. Pushkinskaya nauchno-issledovatel'skaya baza Vsesoyuznogo nauchno-issledovatel'skogo instituta (for Shapiro, Kalashnikov, Khaleyeva, Kokorin)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

LYUBIN, B.Sh., inzh.; SHAPIRO, I.F., inzh.

Experience in the adjustment of modernized Shukhov-Berlin boilers.
Prom. energ. 20 no.5:26-29 My '65. (MIRA 18:7)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.G.

"Donbass - 7" cutter-loader. Ugol' Ukr. 3 no.10:40 O '59.
(MIRA 13:2)

(Coal mining machinery)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

TARASENKO, N.I., gornyy inzh.; POPOV, P.V., gornyy inzh.; SHAPIRO, I.G., gornyy inzh.

Mechanization of development mining operations. Ugol' Ukr. 4 no.7:27-29 Jl '60. (MIRA 13:8)
(Coal mines and mining) (Augers)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

KUTOVOY, V.I., inzh.; SHAPIRO, I.G., inzh.

Determining the output of fine classes of coal in the operation of mining machines. Sbor. DonUGI no.29:80-94 '63. (MIRA 16:10)

(Coal mines and mining)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

KRIVTSOV, Boris Panteleymonovich; SHARING, Il'ya Grigor'yevich, inzh.; ESKIN, Ya.D., nauchn. red.; LAFAZAN, M.I., red.

[Laying tiles, mosaics, and "xyloliths."] Plitochnye, mozaichnye i ksilolitovye raboty. Izd.3., perer. i dop. Moskva, Vysshaia shkola, 1964. 301 p. (MIRA 17:7)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAFIRO, I. G.

Floors

Defects in parquetry floors and methods for preventing them.
Stroi. prom. 30, No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

[illegible], I. [illegible].

Flues

Rules for building vertical channels. Sbor. mat. o nov. tekh. v stroi. 15 No. 3, 1953.

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

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.G.

Assembling partitions by the method of I.S. Kovalev. Sbor.mat. o nov. tekh. v stroi. 15 no.6:16-21 '53. (MLRA 6:5)
(Walls)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.O.

KRIVTSOV, B.P., kandidat tekhnicheskikh nauk; SHAPIRO, I.O., inzhener; MAREK, M.P., nauchnyy redaktor; SOKOLOVA, M.A., redaktor; KRYNOCHKINA, K.V., tekhnicheskiy redaktor

[Tile and mosaic work] Plitochnye i mozaichnye raboty. Moskva, Trudrezevizdat, 1954. 179 p. (MLRA 7:9)
(Tile laying) (Mosaics)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.G., inzhener.

Exhibition of new construction technology in Moscow's Sokol'niki Park of Culture and Rest. Stroi.prom. 32 no.10:43-48 O '54.
(Moscow--Construction industry--Exhibitions) (MLRA 7:11)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, Il'ya Grigor'yevich; TKHILADZE,G.R., redaktor; KONTSEVAYA,E.M., redaktor; EGGERT,A.P., tekhnicheskiy redaktor

[Tile laying] Plitochnye raboty. Moskva, Vses.uchebno-pedagog.izd-vo Trudrezervizdat, 1955. 48 p. (MLRA 9:1)

(Tile laying)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.G.

At the permanent All-Union Exhibition of Construction Technology.
Stroi.prom. 33 no.3:46-47 Mr '55. (MLRA 8:5)
(Moscow--Construction industry--Exhibitions)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.G., inzhener.

At the Exhibition of New Construction Technology. Stroi.prom. 33 no.10:41-44 O '55. (MLRA 9:1)

1.Starshiy nauchnyy sotrudnik Postoyannoy Vsesoyuznoy vystavki.
(Moscow--Construction industry--Exhibitions)

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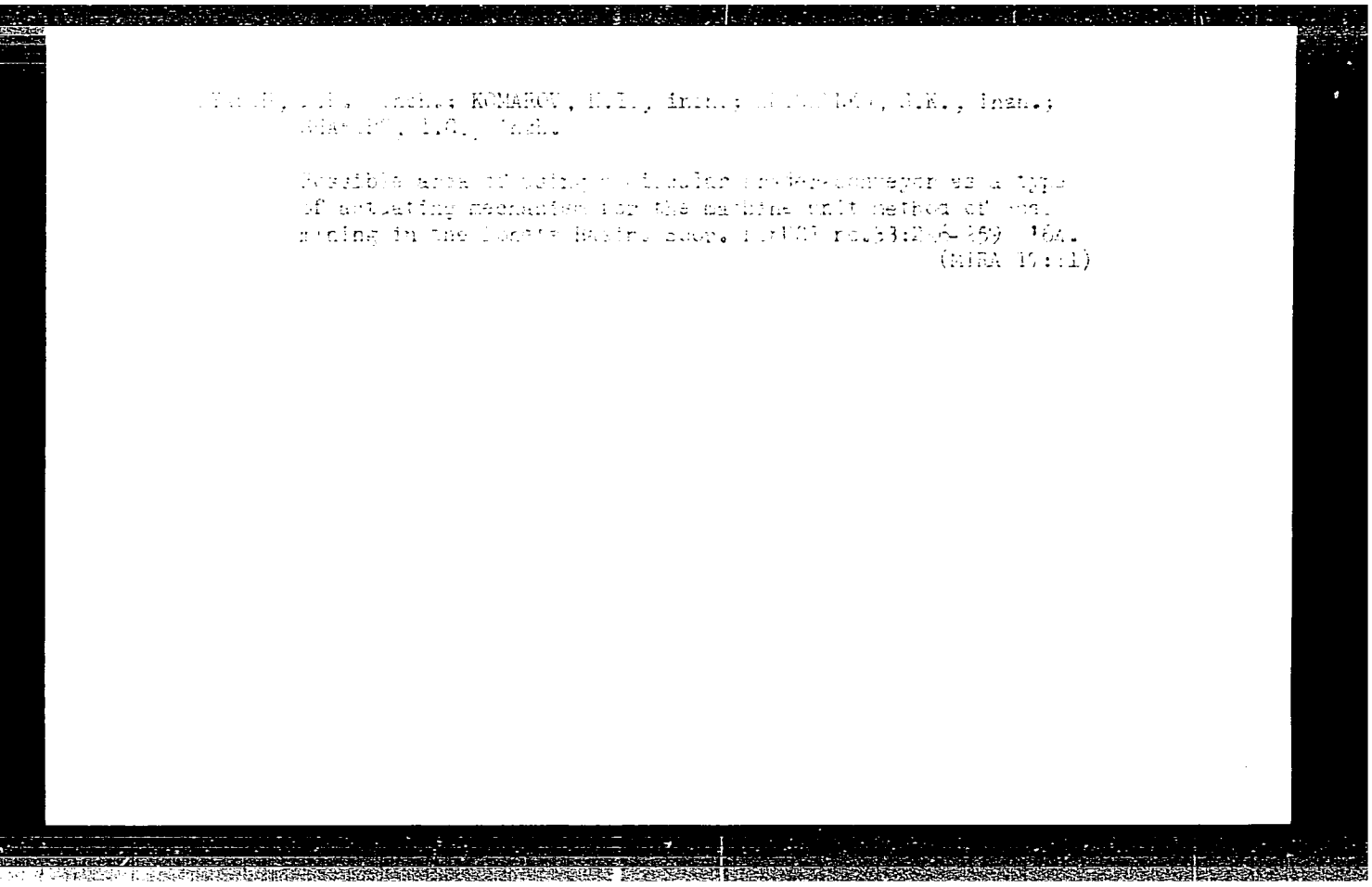

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SKLEBTSOV, P.S.; SHAPIRO, I.G., inzhener, nauchnyy redaktor; KRYUGER, Yu.V., redaktor izdatel'stva; FRIDMAN, N.G., tekhnicheskiy redaktor

[Use of thin solutions for setting tiles] Primenenie toshchikh rastvorov pri oblitsovke. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 23 p. (MLRA 9:7)
(Tile laying)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

IL'ICHEV, Aleksandr Stepanovich, kandidat tekhnicheskikh nauk; KOKIN, Aleksandr Davydovich, inzhener; REBORTOVICH, Isaak Solomonovich, inzhener; SHAPIRO, I.G., inzhener, nauchnyy redaktor; BURMISTROV, G.N., redaktor; EGGERT, A.P., tekhnicheskiy redaktor

[Principles of building] Osnovy stroitel'nogo dela. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1956. 318 p. (MLRA 9:7)
(Building)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, Il'ya Grigor'yevich, inzh.; EYDINOV, Yu.S., inzh., nauchnyy red.; KHLUDEYEVA, Ye.O., red. izd-va; STEPANOVA, E.S., tekhn. red.

[Tiling] Plitochnye raboty. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1958. 89 p. (MIRA 11:10)
(Tile construction)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

GALAKTIONOV, Aleksandr Alekseyevich, kand. arkhitektury; PITSKEL', Lev Naumovich, kand. tekhn. nauk; SOKOLIN, Gerts Lazorevich, inzh., red.; SHAPIRO, Il'ya Grigor'yevich, inzh.; EYDINOV, Yu.S., nauchnyy red.; SOKOLOVA, M.A., red.; RAKOV, S.I., tekhn. red.

[Handbook for young plasterers] Spravochnik molodogo shtukatura. Pod obshchei red. G.L. Sokolina. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1958. 278 p. (MIRA 11:7)
(Plastering)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

KRIVTSOV, Boris Panteleymonovich; SHAPIRO, Il'ya Grigor'yevich, inzh.; TKHILADZE, G.R., nauchnyy red.; TELINGATER, L.A., red.; PODOBED, E.G., red.; TOKER, A.M., tekhn.red.; PERSON, M.N., tekhn.red.

[Tiling and mosaic work] Plitochnye i mozaichnye raboty. Izd.2., perer. i dop. Moskva, Vses.uchebno-pedagog.izd-vo, 1959. 268 p. (MIRA 13:1)

(Mosaics) (Tile laying)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.G., inzh.

New automatic grabs for large piece loads. Proizv.-tekh. sbor. no.2:75-86 '59. (MIRA 13:10)

1. TSentral'noye proyektno-konstruktorskoye byuro.
(Cranes, derricks, etc.) (Cargo handling)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

GALAKTIONOV, Aleksandr Alekseyevich, kand. arkhitektury; PITSKEL', Lev Naumovich, kand. tekhn. nauk; SOKOLIN, Gerts Lazarevich, inzh.; SHAPIRO, Il'ya Grigor'yevich, inzh.; TARUTIN, N.P., nauchnyy red.; BEREZOVSKAYA, A.L., ved. red.; PEREDERIY, S.P., tekhn. red.; BARANOVA, N.N., tekhn. red.

[Handbook for the young plasterer] Spravochnik molodogo shtukatura. By A.A.Galaktionov i dr. Izd.2., ispr.i dop. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat, 1961. 278 p. (MIRA 14:12)
(Plastering)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

ZHUKOV, Aleksey Antipovich; SHAPIRO, I.G., nauchn. red.;
STAROSVETOVA, V.G., red.

[Industrial training of plasterers] Proizvodstvennoe obuchenie shtukaturov. Moskva, Vysshaia shkola, 1965. 99 p. (MIRA 18:12)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

USSR/Physics - Gas dynamics FD-998

Card 1/1 : Pub. 153 - 2/24

Authors : Zysilna-Molozhen, L. M., and Shapiro, I. G.

Title : Interferometric investigation into the circulation around cascades of turbine sections

Periodical : Zhur. tekh. fiz., 24, No 6, 978-988, Jun 1954

Abstract : Expound results of a comparative interferometric investigation of two cascades of flat turbine sections. Compare data of optical investigation with results of pneumometric investigations. The work was carried out on the optical bench of the gas-dynamics laboratory of Division [otdel] No. 6 of TsKTI (central Scientific Research Boiler and turbine Institute) with the assistance of VNIIM (All-Union Scientific-Research Institute of Metrology).

Institution : -

Submitted : July 20, 1953

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

ZYSINA,-MOLOZHEN,L.M., kandidat tekhnicheskikh nauk; SHAPIRO,I.G., inzhener

Interferometric investigation of flow through a cascade of compressor blades. [Trudy] TSKTI no.27:134-151 '54. (MIRA 8:12)

(Gas flow) (Interferometry) (Compressors)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

4ID P - 1327

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 9/19

Authors : Zysin, V. A., Zysina-Molozhen, L. M., Kand. of Tech. Sci., Polyakov, K. S. and Shapiro, I. S., Engineers

Title : Interferometrical study of a flow around turbine bladings at trans-and supersonic speed

Pericdical : Teploenergetika, 2, 38-42, F 1955

Abstract : The results of interferometrical studies are outlined concerning the flow at trans- and supersonic speed around turbine bladings at different values of the inflow angle and of the pitch. Based on experimental data of a two-dimensional flow some considerations are presented relative to the most favorable parameters of the bladings analyzed from the point of view of blade losses. Photos, charts, 2 Russian references (1953-1954).

Institution : Central Scientific Research Institute of Boilers and Turbines

Submitted : No date

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I. G.

AID P - 1832

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 9/16

Authors : Zysina-Molozhen, L. M., Kand. of Tech. Sci., and Shapiro, I. G., Eng.

Title : Some data on the supersonic flow through the turbine blading

Periodical : Teploenergetika, 3, 34-37, Mr 1955

Abstract : The authors make an interferometric study of supersonic velocities accompanied by the emergence of jumps of compression and the resulting increase of losses in turbine blading. From interferograms they attempt to obtain data about ways to remove possibilities of locking compression jumps in inter-blading disk spaces. Nine photographs and diagrams.

Institution: Central Institute of Boilers and Turbines

Submitted : No date

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I. G., ZYSINA-MOLOZHEN, L. M. (Leningrad)

"On the Heat Transfer in Turbulent Compressible Flows."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I. G., CAND TECH SCI, "DETERMINATION OF THE PARAMETERS OF FLOW AROUND A PLANE LATTICE OF PROFILES BY THE INTERFEROMETRIC METHOD." LENINGRAD, 1960. (MIV SSO RSFSR (MIN OF HIGHER AND SEC SPEC ED RSFSR). LENINGRAD POLYTECH INST IM M. I. KALININ). (KL, 2-61, 213).

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

ZYSINA-MOLOZHEN, L.M.; SHAPIRO, I.G. (Leningrad)

"Experimental investigation of the interaction between shock waves and the turbulent boundary layer".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

L 24245-66 EWT(l)/EWP(m)/EWP(w)/ETC(f)/EPF(n)-2/EWG(m)/EWA(d)/EWA(l) WW/EM/GS

ACC NR: AT6006917 SOURCE CODE: UR/0000/65/000/000/0305/0312 61

AUTHOR: Zysina-Molozhen, L. M.; Soskova, I. N.; Shapiro, I. G. B+1

ORG: Leningrad Central Boiler and Turbine Institute (Tsentral'nyy kotloturbinnyy institut)

TITLE: Investigation of the turbulent boundary layer formed by the flow of a compressible gas around a plate, accompanied by heat transfer 24

SOURCE: Teplo- i massoperenos. t. II: Teplo- i massoperenos pri vzaimodeystvii tel s potokami zhidkostey i gazov (Heat and mass transfer v. 2.: Heat and mass transfer in the interaction of bodies with liquid and gas flows). Minsk, Nauka i tekhnika, 1965, 305-312

TOPIC TAGS: turbulent boundary layer, convective heat transfer, gas flow, compressible gas

ABSTRACT: The aim of the article is stated to be a theoretical and experimental investigation of the effect on the structure of the turbulent boundary layer, in particular, on the thickness of the laminar sublayer, of the Mach number and the temperature factor, to evaluate their effect on the final result of calculations of the resistance of the plate, and to make more precise the initial hypotheses of the semi-empirical theory. The experimental investigations of the effect of the

Card 1/2

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temperature factor on heat transfer and surface resistance in a stream of compressible gas were carried out in the optical unit of a supersonic aerodynamic tube. The experiments were made over a range of the temperature factor from 1.0 to 2.2 at a Mach number of approximately 1.5 and a Reynolds number of 10^7. The length of the working section was 0.5 meters. Results are exhibited in a series of curves. It was found that at values of the temperature factor substantially less than unity, it is necessary to take into account the dependence of the thickness of the laminar sublayer on the Mach number, and particularly on the temperature factor. At values of the temperature factor less than unity, the effect of the Mach number and the temperature factor on the turbulent transfer constants can in practice be neglected. When the Mach number is less than 3.0, this leads to a decrease in the resistance coefficient by not more than 20%. Orig. art. has: 5 formulas and 6 figures.

SUB CODE: 20/ SUBM DATE: 09Nov65/ ORIG REF: 004/ OTH REF: 005

Card 2/2 dda

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

YATSKIKH, Valerian Grigor'yevich; KUTOVOY, Valentin Ivanovich; SHAPIRO, Iosif Genrikhovich; MIRONOVA, T.A., red.izd-va; SABITOV, A., tekhn. red.

[Coal sizing and ways for improving it during the operation of mining machinery]Sortnost' uglia pri rabote vyemochnykh mashin i puti ee uluchsheniia. Moskva, Gosgortekhizdat, 1962. 161 p. (MIRA 16:3)

(Coal mines and mining)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SINEL'NIKOV, R.D.; BOBIN, V.V.; SHAPIRO, I.I.

Some data for the study of the asymmetry of the central and peripheral nervous systems. Arkh.anat.,gist.i embr. 44 no.1:56-61 Ja '63. (MIRA 16:5)

1. Kafedra normal'noy anatomii (zav. - prof. R.D. Sinel'nikov) Khar'kovskogo meditsinskogo instituta.
(NERVOUS SYSTEM)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

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27.1220

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S/205/62/002/003/014/015
I021/I221

AUTHOR: Plotnikova, Ye. D., Strashenko, C. I. and Shapiro, I. I.

TITLE: Genetic radiosensitivity of guinea pigs

PERIODICAL. Radiobiologiya, v. 3, no. 3, 1962, 481–484

TEXT: Gonads of male guinea-pigs were irradiated locally with doses of 300, 450 and 750 r at dose rates of 36 to 40 r/min. After irradiation the males were placed together with non irradiated females. The latter were killed after 40 days of pregnancy and the corpora lutea, sites of implantation and embrions were counted. It was established by this method that in guinea pigs the death of embrions took place after their implantation and the LD_{50} for embrions of the guinea pigs was 727 $\pm$ 108 r. At this dose lethal genes appeared in 50% of the spermatozoids. Relying on data of previous works in which the LD_{50} was much lower for embrions of mice, rats and rabbits the author concludes that guinea pigs are genetically more resistant to radiation than the latter animals.

ASSOCIATION: Institut biologicheskoy fiziki, AN SSSR, Akademiya Meditsinskikh nauk SSSR (Institute of Biophysics AS USSR, Academy of Medical Sciences of the USSR) Moscow

SUBMITTED: February 7, 1962

Card 1/1

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, T.I.

Relationship between nervi vagi at the level of the hilus of the lung. Arkh. anat., gist. i embr. 48 no.5:60-63 My '65.
(MIRA 19:1)

1. Kafedra anatomii (zav. - prof. R.D. Sinel'nikov) Khar'kovskogo meditsinskogo instituta. Submitted February 18, 1963.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

25(5) PHASE I BOOK EXPLOITATION SOV/1274

Baranov, Boris Aleksandrovich; Zolotov, Vsevolod Nikolayevich (Deceased); Khisin, Rafail Iosifovich; Shapiro, Isay Iosifovich; Shaskol'skiy, Boris Vladimirovich; Shakhnazarov, Musheg Mosesovich

Tekhnicheskoye normirovaniye na mashinostroitel'nom zavode (Technical Standards for Machine-building Plants) Moscow, Oborongiz, 1958. 576 p. 7,000 copies printed.

Reviewer: Kremenetskiy, N.L., Engineer; Ed. (Title page): Shakhnazarova, M.M.; Ed. (Inside book): Tishin, S.D., Candidate of Technical Sciences, Docent; Ed. of Publishing House: Rodzevich, S.S.; Tech. Ed.: Rozhin, V.P.; Managing Ed.: Sokolov, A.I., Engineer.

PURPOSE: This book is a theoretical and practical manual for engineers and technicians engaged in setting technical standards in aircraft manufacturing establishments and working in scientific research and planning institutes.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

COVERAGE: The book describes the methodology employed in setting technical time standards in machinery-manufacturing and metalworking establishments. It includes basic data on standards for machining, supporting, and assembling operations. Chapters I - VI were written by M.M. Shakhnazarov, Chapter VII by V.N. Zolotov, Chapters VIII and IX by R.I. Khisin, Chapters X, XI, XIII - XVII, and XIX by I.I. Shapiro, Chapter XVIII by B.V. Shaskol'skiy, and Chapters XII and XX - XXVI by B.A. Baranov. There are 24 references, all Soviet.

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Technical Standards for Machine (Cont.) SOV/1274

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.I.; FEDOTOV, F.G. Prinimali uchastiye: PEGUSHEV, M.Ye.; GRIGOR'YEVA, O.I.; POPOVA, L.P.; GONCHAROV, M.Ya.; VOLNISTOVA, L.V.; SOROKINA, G.Ye., tekhn.red.

[General machinery industry time norms for establishing norms for milling machine operations; small-lot and piece production] Obshchemashinostroitel'nye normativy vremeni dlia tekhnicheskogo normirovaniia rabot na frezernykh stankakh; melkoseriinoe i edinichnoe proizvodstvo. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 142 p.

(MIRA 14:4)

1. Moscow. TSentral'noye byuro promyshlennykh normativov po trudu. 2. Zaveduyushchiy otdelom mashinostroyeniya TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Shapiro).

(Metalwork--Production standards)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.I.; MIKHAYLOV, D.V.; MOSINA, T.S., inzh.; YEVLAMPIYEVA, V.M., inzh.; KASHINTSEVA, L.M., inzh., red.; BLIZHEVSKIY, L.A., inzh., red.; SEREBRYAKOV, V.M., inzh., red.; KHARITONOV, A.B., inzh., red.; GLINKA, N.T., inzh., red.; KHISIN, R.I., inzh., red.; SOROKINA, G.Ye., tekhn.red.

[General engineering norms for cutting conditions and time for use in the technical standardization of machining on lathes; lot production] Obshchemashinostroitel'nye normativy rezhimov rezaniia i vremeni dlia tekhnicheskogo normirovaniia rabot na tokarnykh stankakh; seriinoe proizvodstvo. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 224 p. (MIRA 13:12)

1. Moscow. Nauchno-issledovatel'skiy institut truda. TSentral'noye byuro promyshlennykh normativov po trudu. 2. Zaveduyushchiy otdelom mashinostroyeniya TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Shapiro). 3. TSentral'noye byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Mikhaylov, Mosina, Yevlampiyeva). 4. Nauchno-issledovatel'skoye byuro tekhnicheskikh normativov (for Kashintseva, Blizhevskiy). 5. Stankozavod im. S.Ordzhonikidze (for Serebryakov). 6. Moskovskiy stankostroitel'nyy zavod (for Kharitonov). 7. Vsesoyuznyy proyektno-tekhnologicheskiy institut Tyazhmash (for Glinka).

(Metal cutting) (Lathes)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

VINNIK, L.M.; GRINBERG, R.Ya.; KAMINSKIY, Ya.A.; KLEPIKOV, V.D.; KUZNETSOV, A.M.; KUCHENEV, N.I.; STRUZHESTRAKH, Ye.I.; TISHIN, S.D.; KHARITONOV, A.B.; TSEYTS, I.E.; SHAPIRO, I.I.; SHAPIRO, M.Ya.; ANAN'YAN, V.A., retsenzent; VASIL'YEV, D.T., retsenzent; GORETSKAYA, Z.D., retsenzent; KARTSEV, S.P., retsenzent; KEDROV, S.M., retsenzent; KOMISSARZHEVSKAYA, V.N., retsenzent; KOPERBAKH, B.L., retsenzent; KORBOV, M.M., retsenzent; LEONOV, N.I., retsenzent; LUR'YE, G.B., retsenzent; NOVIKOV, V.F., retsenzent; GAL'TSOV, A.D., red.; VOL'SKIY, V.S., red.; KHISIN, R.I., red.; SEMENOVA, M.M., red. izd-va; MODEL', B.I., tekhn.red.

[Reference book for establishing norms in the manufacture of machinery; in 4 volumes] Spravochnik normirovshchika-mashinostroitelia; v 4 tomakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol.2. [Establishing technical norms for operating machine tools] Tekhnicheskoe normirovanie stanochnykh rabot. Pod red. E.I.Struzhestrakha. 1961. 392 p. (MIRA 14:8)

(Industrial management) (Machine tools)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.I.; GVOZDEVA, A.N.; DERYABINA, V.I.; KOZLOVA, V.I.; MATOVA, A.D.; PEROVA, A.S.; KHROMOV, Yu.N.; TISHIN, S.D., kand.tekhn.nauk, red.; DOBRITSYNA, R.I., tekhn.red.

[General norms of cutting conditions and time used in the machinery industry for technical standardization of preparatory operations; cutting of metal with disk saws, presses and shaped-stock shears] Obshchemashinostroitel'nye normativy rezhimov rezaniia i vremeni dlia tekhnicheskogo normirovaniia zagotovitel'nykh rabot; rezka metalla na diskovykh pilakh, pressakh i sortovykh nozhnitsakh. Moskva, Mashgiz, 1961. 75 p. (MIRA 14:12)

1. Moscow. TSentral'noye byuro promyshlennykh normativov po trudu. 2. Zaveduyushchiy otdelom mashinostroyeniya TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Shapiro). 3. TSentral'noye byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for all, except Tishin, Dobritsyna). (Cutting machines)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.I.

Consolidated norms and standard time norms. Mashinostroitel' no.8:7-10 Ag '61. (MIRA 14:7)
(Machinery industry—Production standards)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

BUGROV, A.P.; SEMENKEVICH, S.R.; SEMENOV, A.I.; SLUTSKIY, G.V.; SHAPIRO, I.I.; YUSUFOVICH, B.Ye.: SEMENOV, S.M., red.; ZAYTSEVA, L.A., tekhn. red.

[Establishing norms is the basis of scientific labor organization] Normirovanie - osnova nauchnoi organizatsii truda. Moskva, Profizdat, 1964. 61 p. (Bibliotechka profsoiuznogo aktivista, no.2(74)) (MIRA 17:2)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

BARANOV, B.A.[deceased]; KHISIN, R.I.; SHAPIRO, I.I.; SHAKHNAZAROV, M.M.; VOLKOV, A.V., kand. tekhn. nauk, retsenzent; YAKOVLEVA, V.I., red.

[Establishment of technical norms at a machinery plant] Tekhnicheskoe normirovanie na mashinostroitel'nom zavode. [By] B.A.Baranov i dr. Moskva, Mashinostroenie, 1964. 610 p. (MIRA 17:12)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

MURAVLEV, V.S.; GIL'DENGORN, V.I.; DESYATKOV, M.I., tekhn. retsenzent; SHAPIRO, I.L., tekhn. red.

[Establishment of consolidated norms for machining under piece and small series production conditions] Ukrupnennoe normirovanie stanochnykh rabot v usloviiakh edinichnogo i melkoseriinogo proizvodstva. Moskva, Mashinostroenie, 1965. 81 p. (MIRA 18:12)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

USTIYANTS, V.A., red.; SHAPIRO, I.L., red.; IL'YUSHENKOVA, T.P., tekhn.red.

[redacted]

[Catalog of Ascot machine parts: types 170 and 110-115] Katalog detalei mashin Askota; klassov 170 i 110-115. Pod red. I.L.Shapiro. Moskva, Gosstatizdat, Pt.1. 1963. 335 p. (MIRA 16:8)

1. Russia (1923- U.S.S.R.) Upravleniye po organizatsii i mekhanizatsii ucheta.
(Accounting machines--Catalogs)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.L.; KRUMAUS, A.G., inzh., retsenzent; KASHKOVICH, A.P., kand. tekhn. nauk, retsenzent; LIKHACHEV, O.P., kand. tekhn. nauk, red.

[Electric drive of large metal-cutting machines] Elektroprivod tiazhelykh metallorezhushchikh stankov. Moskva, Mashinostroenie, 1964. 221 p. (MIRA 17:9)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

L 42941-65 EWT(l)/EWA(j)/EWA(b)-2 JK

ACCESSION NR: AP5008017 S/0016/65/000/003/0097/0101

AUTHOR: Shashayev, M. A.; Shapiro, I. L.; Shatalova, A. L.

TITLE: Length of periods during which plague and pseudotuberculosis bacteriophages are detected in a Rhombomys opimus organism

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 3, 1965, 97-101

TOPIC TAGS: Rhombomys, bacteriophage, phage, plague, spleen, blood, pseudotuberculosis

ABSTRACT: The present study investigated the number of phage particles found in the spleen and blood of a Rhombomys after administering only plague or pseudotuberculosis phages and after administering each of the phages together with its corresponding bacteria. Possible ways of transmitting phages were also studied. Four groups of 55 animals each were administered the following: the first group received a Pokrovskiy plague phage in a dose of $5 \cdot 10^8$ particles; the second group received the same phage and dose, and also at the same time $1 \cdot 10^6$ cells of plague bacteria (strain No. 319); the

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third group received a Kotlyarovskaya pseudotuberculosis phage in a dose of $5 \cdot 10^7$ particles; and the fourth group received the same phage and dose, and at the same time $1 \cdot 10^6$ cells of pseudotuberculosis bacteria (strain No. 26S). Each phage was introduced into the right groin area of the Rhombomys and the corresponding bacterial strain was introduced into the left groin area. Two or three animals from each group were killed daily for a period of 20 days to determine the number of plague and pseudotuberculosis phages in the spleen. Phages were found in the spleens of all animals in the four groups during the entire observation period (20 days). With simultaneous administration of a homologous bacteria strain to groups two and four, plague and pseudotuberculosis phages did not multiply. In another experiment, plague phages were found to circulate in the blood of a Rhombomys for a 72 hr period and pseudotuberculosis phages for a 24-48 hr period, with phage titers highest during the first 24 hrs. A plague phage was experimentally transmitted from a Meriones Rhombomys to a Rhombomus opimus by Xenopsylla gerbilli minax fleas, but this rarely occurs in nature. Lysogenic bacteria appear to be the main source of plague and pseudotuberculosis phages for rodents. Study data showing that phages do not multiply in the presence of homologous bacterial

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ACCESSION NR: AP5008017

strains explains why various attempts to use phages as therapeutic agents in infectious diseases have failed. Orig. art. has: 2 tables and 1 figure.

ASSOCIATION: Sredne-Aziatskiy nauchno-issledovatel'skiy protivochumnyy institut i Taldy-Kurganskaya protivochumnaya stantsiya (Central Asia Scientific-Research Antiplague Institute and Taldy-Kurgansk Antiplague Station)

SUBMITTED: 14Jun63 ENCL: 00 SUB CODE: LS

NR REF SOV: 002 OTHER: 000

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USSR/Electricity
Machines, Shearing
Tools, Cutting

Mar 1947

"Type 171 Electric Drive Centering-Shearing Machine," L. L. Shapiro, Engr, Designing and Restoring Trust of the Ministry of Electric Industries, 5 pp

"Vest Elektro Prom" No 3

A well illustrated article describes this new machine. There is a photograph of the assembled machine, a kinematic diagram, a load diagram and a diagram showing the operating data of the machine. It is equipped with 8 cutters, 6 in front and 2 in back, 2 drilling heads, 2 carriges, the center is 400 mm above the stand, diameter of machining is 172 ÷ 212 mm, length of the axis forging is 2500 ÷ 2600 mm. The main driving motor is type MA204-2/4, operating on 48 kv, 380 V and at 1500 rpm.

23T20

USSR/Electricity (Cont'd)
Machines, Shearing
Tools, Cutting

Mar 1947

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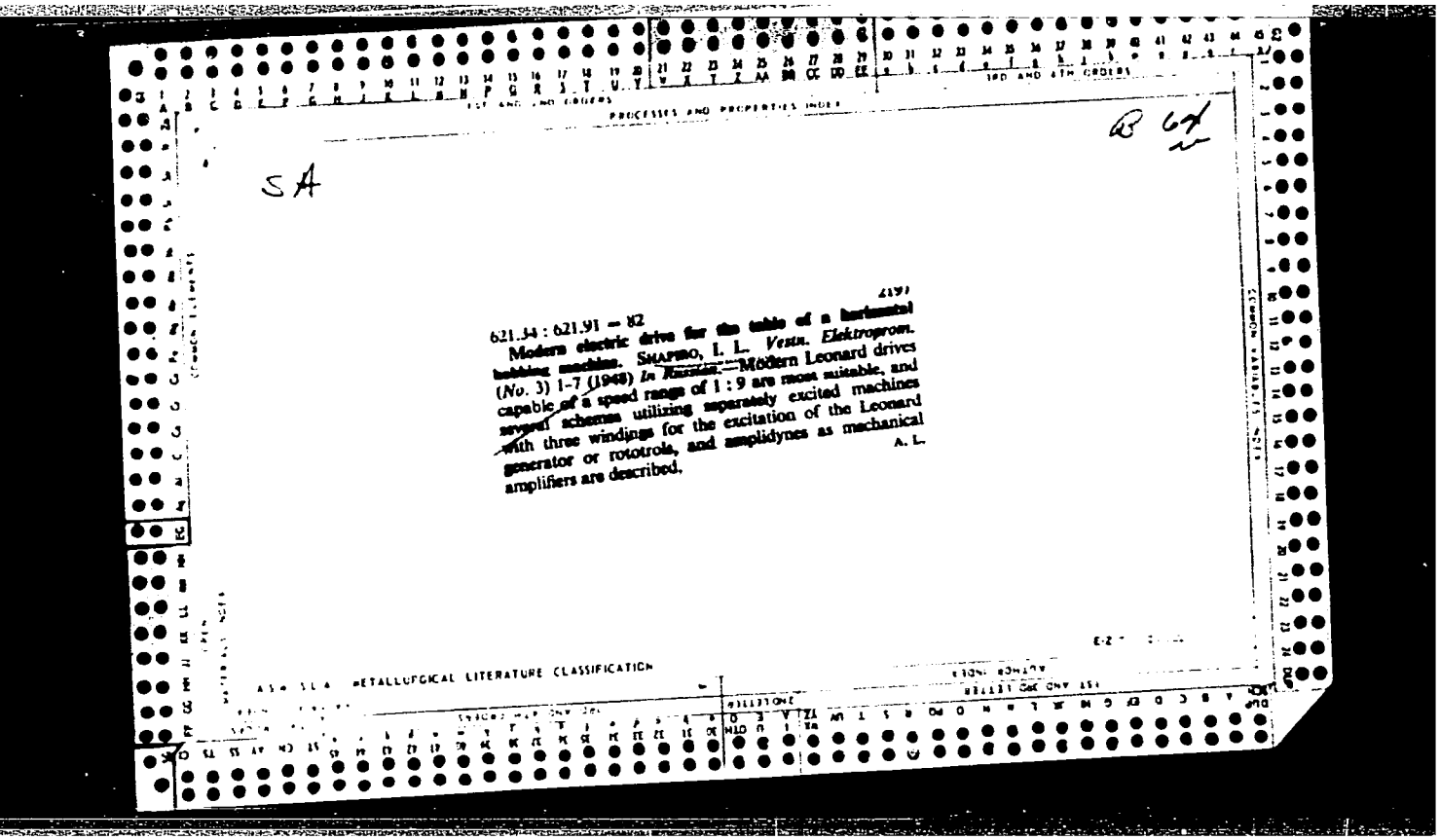

621.34 : 621.91 — 82

Modern electric drive for the table of a horizontal boring machine. SHAPIRO, I. L. *Vestn. Elektroprom.* (*No.* 3) 1-7 (1948) *In Russian.*—Modern Leonard drives capable of a speed range of 1 : 9 are most suitable, and several schemes utilizing separately excited machines with three windings for the excitation of the Leonard generator or rototrols, and amplidynes as mechanical amplifiers are described. A. L.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, Izrail' L'vovich; VOROB'YEV, I.S., redaktor; GRYAZNOV, V.I., redaktor; KAPRALOVA, A.A., teknicheskiy redaktor.

[Technical and operational characteristics of calculating machines] Tekhnicheskie i ekspluatatsionnye kharakteristiki schetnykh mashin. Moskva, Gos.statisticheskoe izd-vo, 1955. 241 p. (MLRA 9:4)
(Calculating machines)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I. L.

AID P - 2338

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 2/30

Author : Shapiro, I. L., Eng., Khar'kov

Title : Electric drives of heavy boring and turning lathes and their future development

Periodical : Elektrichestvo, 5, 9-13, My 1955

Abstract : The author describes the latest developments in heavy-duty machine tools like boring and turning lathes and cutting and milling machinery for works up to 500 tons. The individual electric drives used have a thorough and precise speed regulation. They employ electric regulators of cutting speed, feed magnitude, torque, etc. The author discusses the improvements introduced in the design of the tool machines and their electrical drives and analyses some of the basic layouts and connection diagrams. He also discusses the possible ways of future development in the field. Five diagrams.

Institution : No data

Submitted : Ja 20, 1955

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

GRIGOR'YEV, Ye.T., inzhener; KOCHURAYEV, L.D., inzhener; KUROCHKA, A.L. inzhener; SUSLOV, B.V., inzhener; TUSHKANOV, B.A., inzhener; SHAPIRO, I.L., inzhener.

Design features of the VI23 electric locomotive. Zhel.dor. transp. 37 no.3:16-22 Mr '56. (MLRA 9:5)
(Electric locomotives)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

AUTHOR: Shapiro, I. L., Engineer, and Pesis, I. M., Engineer.

TITLE: Residual Generator Voltages in a Generator-Motor System during Auto-Suppression of the Field (Ostatochnoye napryazheniye generatora sistemy generatordvigatel'pri samogashenii polya)

PERIODICAL: Vestnik Elektropromyshlennosti, 1957, No.2. pp.66-68 (USSR)

ABSTRACT: Auto-suppression of the generator field is used to retard the driving motor in modern drives operating on the motor-generator principle. In order to reduce to a minimum the voltage induced by residual magnetism the shunt field winding is connected to the armature terminals during the retardation in such a way as to counteract

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TITLE: Residual Generator Voltages in a Generator-Motor System during Auto-Suppression of the Field (Ostatochnoye napryazheniye generatora sistemy generatordvigatel'pri samogashenii polya)

residual magnetic flux. This is sufficient to stop the driving motor, provided that there is an appreciable static load on the shaft, that the compounding characteristics of the generator are not very marked, and that the constants of the circuit consisting of the field winding and the armature are such that the residual generator voltage is small. The series field windings may cause the residual voltage to be relatively great.

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

TITLE: Residual Generator Voltages in a Generator-Motor System during Auto-Suppression of the Field (Ostatochnoye napryazheniye generatora sistemy generatordvigatel' pri samogashenii polya)

This article is concerned with the determination of residual voltage on generator terminals when the generator shunt field winding is cross connected.

Equations are first derived for generators with cross connected field running independently and a graphic method of determining the residual voltage is provided. This is then extended to apply to motor-generators. It is shown that in order to reduce the

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

TITLE: Residual Generator Voltages in a Generator-Motor System during Auto-Suppression of the Field (Ostatochnoye napryazheniye generatora sistemy generatordvigatel'pri samogashenii polya)

residual voltage of the generator to a minimum there should be no additional resistance in the field winding and the number of contacts in this circuit should be as few as possible.

In some cases it may be advisable to use a generator shunt field winding with a lower rated voltage than the armature rated voltage.

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TITLE: Residual Generator Voltages in a Generator-Motor System during Auto-Suppression of the Field (Ostatochnoye napryazheniye generatora sistemy generatordvigatel'pri samogashenii polya)

The text includes 5 diagrams; there are no references.

ASSOCIATION: "Elektroprivod" Trust

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SHAPIRO, Izrail' L'vovich; GRYAZNOV, V.I., red.; MELENT'YEV, A.M., tekhn.red.

[Accounting machines and their features] Schetnye mashiny i ikh kharakteristiki. Moskva, Gos.stat.izd-vo, 1959. 230 p. (MIRA 13:3)

(Accounting machines)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

28(1),25(2),8(5)
AUTHOR: Shapiro, I. L., Engineer SOV/105-59-1-9/29

TITLE: Automatized Ion-Electric Drive of Heavy Turning Lathes (Ionnyy avtomatizirovannyy elektroprivod tyazhelykh tokarnykh stankov)

PERIODICAL: Elektrichestvo, 1959, Nr 1, pp 35-40 (USSR)

ABSTRACT: The use of an ion-converter aggregate with controlled mercury-vapor rectifier instead of an electrodynamic aggregate allows to improve considerably the technical-economic indices of the main electric drive. On account of calculations and tests made with a laboratory unit of ionic electric drive for the faceplate of heavy lathes, it was found that it is convenient to use this drive in those cases where the supply of the motor for the faceplate has to be delivered with a capacity of 50 kw and up from an A. C. circuit. According to the technical-economic main indices, the ion-electric drive lies higher than the drive according to the generator-motor system. This circumstance is of particular importance for higher electric drive capacities (150-200 kw). The accuracy of control, the controllability of ion-electric drive of faceplates is greater than for

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electric drives of the generator-motor system. The use of the new phase-rotation system in the mercury-vapor rectifier will bring about a further raising of the technical level of ion-electric drives. This system allows to use summing magnetic amplifiers with small dimensions and a small time constant, or summing semiconductor amplifiers. The electromagnetic time-constant of the grid in the mercury-vapor rectifier is reduced so much that the mercury-vapor converter aggregate may be considered as practically inertiafree.- The automatic control of the ion-electric drive of a heavy lathe can be realized more easily and reliably than that of an electric propulsion for a lathe of the same capacity under the generator-motor system. The shortcomings of the schemes of ion-electric drive shown here is the presence of several main-current relays and the lack of electric braking of the faceplate motor at removal of load or reduction of rotational speed. The investigations carried out in recent years permit to start series production of ion-electric drives for heavy lathes and vertical lathes.

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Automatized Ion-Electric Drive of Heavy Turning Lathes SOV/105-59-1-9/29

In the laboratory investigations N. I. Bordenko and N. Ya. Puchkova took part. There are 7 figures, 1 table, and 1 Soviet reference.

SUBMITTED: January 20, 1958

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

25 (2), 28 (1), 8 (5) S/105/60/000/02/002/024
B007/B008

AUTHORS: Shapiro, I. L., Engineer, Grossman, Ye. M., Engineer, Raisov, Yu. A., Engineer, Tikhvinskiy, Yu. V., Engineer (Khar'kov)

TITLE: A Digital Programming Control System for a Heavy Lathe

PERIODICAL: Elektrichestvo, 1960, Nr 2, pp 9 - 12 (USSR)

ABSTRACT: A digital programming control system which was developed for a heavy lathe is described here. It was worked out jointly by the TsKB po elektroprivodu i avtomatiki KhEMZ (Central Design Bureau for Electric Drive and Automation of the Khar'kov Electromechanical Plant) and the laboratoriya avtomatiki KhPI (Research Laboratory for Automation at the KhPI). The lathe has a height of centers of 500 mm and a length between centers of up to 4,000 mm. Work pieces of a weight of up to 10 tons and with an intricately curved surface can be machined on it. The nominal accuracy of machining amounts to up to 0.1 mm. A kinematic connection between the support and the gearbox is not provided. A digital programming control system with control step-by-step motors and an intermediate recording of the program on a magnetic tape was stipulated for this lathe. The reasons

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which led to the selection of the very system are indicated. The block scheme is shown in figure 1 and the schematic wiring diagram for the electrical main drives of the lathe is shown in figure 2. When controlling the lathe according to a given program, the program is recorded on the magnetic tape. The work program for the motor for the longitudinal feed of the support is recorded on one track of the tape, that for the cross feed of the support on the second and third, and on the fourth track the work program for the main motor and the gear-box, the signal for the termination of the machining, as well as the auxiliary commands. A dismantled step-by-step motor is shown in figure 3. It weighs approximately 23 kg. The mode of operation of the system is explained. Since the machining of bulky pieces takes often many hours, a number of intermediate stations for the support are provided in the program for every tool bit at predetermined positions. Two rigidly mounted measuring heads are provided, one on the support slide and the second on the support carriage for the exact synchronizing of the support position with the program recorded on the tape.

 Moreover, an additional installation is available. This allows

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A Digital Programming Control System for a Heavy Lathe

S/105/60/000/02/002/024
B007/B008

to put the lathe into operation in a simple way. This installation contains a special combined recording-reading magnetic head. For manual control, the switching on, stopping, reversing, and control for the speed of the step-by-step motors of the support and main motor of the lathe is done with the help of a set of devices. Their mode of action is described here briefly. The model of the installation for recording onto the magnetic tape and the model of the electric drive with programming control were investigated experimentally at the Research Laboratory. The computations and the results of the investigation showed that the application on heavy lathes of the control system described here is absolutely appropriate. A final and complete evaluation can however not be given at present. Many months of tests in industrial work are needed. The cost of the lathe shown here amounts to 120% of that of a lathe with conventional manual control. If a computing center is available, the need for recording a program on a magnetic tape is eliminated. There are 4 figures.

SUBMITTED: July 20, 1959
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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

CHUDNOVSKIY, D.M.; BESTUZHEV, S.I.; DITMAN, L.M.; LIMANOR, L.A.; SHAPIRO, I.L.; USPENSKIY, V.V., red.; MORSKOY, K.L., red. izd-va; MOCHALINA, Z.S., tekhn. red.

[Economics and planning of the manufacture of precast-concrete] Ekonomika i planirovanie proizvodstva sbornogo zhelezobetona. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 438 p. (MIRA 15:2)
(Precast concrete)

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SHAPIRO, I.L., inzh.; TUSHKANOV, B.A., inzh.; SVERDLOV, V.Ya., inzh.

A.C. locomotives. Vest. elektroprom. 32 no.5:13-17 My '61.
(MIRA 15:5)

(Electric locomotives)

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"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

ZOLOTAREV, P.A., inzh.-konstruktor; KOZOREZOV, M.A., inzh.-konstruktor; MELIKHOV, V.L., inzh.-konstruktor; NOVOGRENKO, N.M., inzh.-konstruktor; SVERDLOV, V.Ya., inzh.-konstruktor; Tishkanov, B.A., inzh.-konstruktor; SHAPIRO, I.L., inzh.-konstruktor

The N81 eight-axle a.c. locomotive. Elek.i tepl.tiaga 7 no.2:20-25 F '63. (MIRA 16:2)

(Electric locomotives)

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ZOLOTAREV, P.A., inzh.-konstruktor; KOZOREZOV, M.A., inzh.-konstruktor; MELIKHOV, V.L., inzh.-konstruktor; NOVOGRENKO, N.M., inzh.-konstruktor; SVERDLOV, V.Ya., inzh.-konstruktor; TUSHKANOV, B.A., inzh.-konstruktor; SHAPIRO, I.L., inzh.-konstruktor

VL80 eight-axle a.c. locomotive. Elek. i tepl. tiaga 7 no.4: 24-28 Ap '63. (MIRA 16:5)

1. Novocherkasskiy elektrovozostroitel'nyy zavod i Novocherkasskiy nauchno-issledovatel'skiy institut elektrovozostroyeniya.
(Electric locomotives)

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APTERMAN, I.Z.; AFANAS'YEVA, A.A.; BUKSHTEYN, D.I.; SPORYKHINA, R.A.; CHUDNOVSKIY, D.M.; SHAPIRO, I.L.; USPENSKIY, V.V., kand. ekon. nauk, nauchn. red.; GORBUSHIN, P.B., red. NECHAYEVA, Z.K., red.

[Development of the production of precast reinforced concrete and its cost] Razvitie proizvodstva sbornogo zhelezobetona i ego sebestoimost'. Moskva, Gosstroiizdat, 1963. 125 p. (MIRA 17:5)

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SHAPIRO, Izrail' L'vovich; LOZENTSVAK, David Leont'yevich; VOROB'YEV, Vasiliy Alekseyevich; MAYSKAYA, N.I., red.; PYATAKOVA, N.D., tekhn. red.

["Robotron" R-12 and its joint operation with "Askot" accounting machines] Robotron R-12 i ego rabota sovmestno s bukhgalterskimi mashinami Askota. Moskva, Gosstatizdat, 1963. 139 p. (MIRA 17:2)

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SHAPIRO, I.L., red.; USTIYANTS, V.A., red.

[Catalog of parts for the KEL, KELR, SAL, SASL, and SAR computers and for the AES and AESVe adding machines] Katalog detalei vychislitel'nykh mashin modelei KEL, KELR, SAL, SASL i SAR i summiruiushchikh mashin modelei AES i AESVe. Pod red. I.L.Shapiro. Moskva, Gosstatizdat, 1963. 140 p. (MIRA 17:6)

1. Russia (1923- U.S.S.R.) Upravleniye po organizatsii i mekhanizatsii ucheta.

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SHASHAYEV, M.A.; SHAPIRO, I.L.; SHATALOVA, A.L.

Duration of the detection of plague and pseudotuberculosis bacteriophages from the organism of greater gerbils. Zhur. mikrobiol., epid. i immun. 42 no.3:97-101 Mr '65.

(MIRA 18:6)

1. Sredne-Aziatskiy nauchno-issledovatel'skiy protivochumnyy institut i Taldy-Kurganskaya protivochumnaya stantsiya.

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RUPASOV, K.A.; SHAPIRO, I.M. (Yelets)

On D.K.Faddeev and I.S.Sominskii's book "Algebra". Part 2. Reviewed by K.A.Rupasov and others. Mat. v shkole no.5:74-83 S-O'55. (MIRA 8:11)

(Algebra) (Sominskii, I.S.) (Faddeev, D.K.)

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SHAPIRO, I.M. (Altayskiy kray).

Homework in mathematics in rural schools. Mat. v shkole no.3:58-67 My-Je '57. (MLRA 10:6)
(Mathematics--Study and teaching)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2"

"APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001548320006-2

SHAPIRO, I.M.

SOV/105-58-10-21/28

AUTHORS: 1) Dashchenko, I.T., Engineer (Town of Uzhgorod)
2) Ryklin, F.G., Engineer (City of Voznesensk, Nikolayevskaya Oblast')
3) Shapiro, I.M., Engineer (City of L'vov)
4) Ratner, M.P., Engineer
5) Kudryashov, S.Ya., Engineer
6) Khaytun, E.I., Engineer

TITLE: Electric Power Engineering on a New Level (Elektroenergetiku - na novuyu stupen')

PERIODICAL: Elektrichestvo, 1958, Nr 10, pp 86 - 90 (USSR)

ABSTRACT: This is a discussion of the article by S.M. Gortinskiy and I.A. Syromyatnikov published in Elektrichestvo, 1957, Nr 10: 1) Even in electrified regions, as in the Ural, in the Donbass, etc. districts are found which are not connected with the power supply grid. To renounce the construction of small power stations could be of a detrimental effect. It would be most expedient to construct small power stations (with a power not below 25 MW) in greatly simplified power houses in a way enabling them of being translocated from one region to another. 2) Some measures of

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rationalizing the construction, operation and distribution of power in the small power field. 3) The economic expediency of supplying new regions from power supply grids and of abolishing small power stations is substantiated by a practical example from planning work. 4) One of the principal reasons for the high prime costs of small steam turbine power stations is a mechanical transposition of the principal engineering schemes and of the design of large power stations to small-scale ones. More up-to-date principles of improving the operation factors of such stations are advanced and a conversion from a solid fuel to a liquid or gas fuel operation is requested. By the latter measure a complete automation of steam turbine power stations will be made possible. 5) Experience gained in the enterprises of the Glavelektromontazh demonstrated that the time has come to introduce an industrialized method of assembly. Each electrical equipment should be designed as one great block of equipment, weights reaching 2.5 t. 6) Insufficiencies and shortcomings in electrical industry are pointed out. A number of cases are mentioned, where it was impossible to obtain apparatus and parts of equipment which had been developed already a long time ago. There are 1 figure and 2 tables.

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