"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

TEPLOV, G.V.; PRUDENSKIY, G.A., doktor ekonomicheskikh nauk, retsenzent; ZHED', M.S., inzhener, retsenzent.

[Planning in machinebuilding plants] Planirovanie na mashinostroitel'nykh zavodakh. Izd.2., perer.i dop. Moskva, Gos. nauchno-tekh. izd-vo mashinostroit. i sudostroit. lit-ry, 1953. 511 p. (MLRA 7:4)
(Machinery industry)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENSKIY, G A

N/5
783.32
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Vnutriproizvodstvennyye Rezervy (Domestic Production Reserves) Rezervy Rosta Proizvoditel'nosti Truda. Moskva, Gospolitizdat, 1954.

283 p. Tables.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

ARZUMANYAN, A.A., akademik; BERG, A.I., akademik; ZHUKOV, Ye.M., akademik; SEMENOV, N.N., akademik; VINOGRADOV, V.V., akademik; FRANTSEV, Yu.P.; SHCHERBAKOV, D.I., akademik; ANISIMOV, I.I.; GATOVSKIY, L.M.; IOVCHUK, M.T.; FEDOSEYEV, P.N., akademik; ROMASHKIN, P.S.; KONSTANTINOV, F.V.; MITIN, M.B., akademik; YELYUTIN, V.P.; PLOTNIKOV, K.N.; PRUDENSKIY, G.A.; YUDIN, P.F., akademik; RYBAKOV, B.A., akademik; KONSTANTINOV, B.P., akademik; KHVOSTOV, V.M.; KEDROV, B.M.; MARKOV, A.A.; BAISHEV, S.B., akademik; ALEKSEYEV, M.N., prof.; SKAZKIN, S.D., akademik; ALEKSANDROV, A.D.; POSPELOV, P.N., akademik

Discussion of L.F. Il'ichev's rreport. Vest. AN SSSR 32 no.12:19-50 D '62. (MIRA 15:12)

1. Chleny-korrespondenty AN SSSR (for Aleksandrov, Frantsev, Anisimov, Gatovskiy, Iovchuk, Romashkin, Konstantinov, Yelyutin, Plotnikov, Prudenskiy, Khvostov, Kedrov, Markov). 2. AN Kazakhskoy SSR (for Baishev).

(Research)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

POTEMKIN, Petr Ivanovich; PRUDENSKIY, G.A., otv. red.; OMBYSH-KUZNETSOV, S.O., red.; YELISTRATOVA, Ye.M., tekhn.red.

[Why labor productivity should grow more rapidly than wages] Pochemu proizvoditel'nost' truda dolzhna rasti bystree zarabotnoi platy. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1963. 36 p. (MIRA 16:8)

1. Chlen-korrespondent AN SSSR (for Prudenskiy).
(Wages and labor productivity)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

VERSHININ, A.M.; GANSHTAK, V.I.; ZHUKOV, P.A., prof.; KONOVALOV, V.N.; MASLICH, G.Ye.; RADUKIN, V.P.; ROZENBERG, I.A.; SMIRNITSKIY, Ye.K.; PRUDENSKIY, G.A., retsenzent; NEYMARK, A.I., doktor tekhn. nauk, prof., retsenzent; BEZUKLADNIKOV, M.A., inzh., ved. red.; DUGINA, N.A., tekhn. red.

[Economics of machinery manufacturing; the organization and planning of enterprises] Ekonomika mashinostroeniia, organizatsiia i planirovanie predpriiatii. [By] A.M.Vershinin i dr. Moskva, Mashgiz, 1963. 504 p. (MIRA 16:9)
(Machinery industry--Management)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENSKIY, G.A., red.

[The worker's leisure] Vnerabochee vremia trudiashchikhsia. Novosibirsk, 1961. 255 p. (MIRA 16:4)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut ekonomiki i organizatsii promyshlennogo proizvodstva.
(Leisure)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

YEFIMOV, A.N., glav. red.; BACHURIN, A.V., red.; VOLODARSKIY, L.M., red.; GERSHBERG, S.R., red.; GINZBURG, S.Z., red.; DUNDUKOV, G.F., red.; KINZHER, D.M., red.; KLIMENKO, K.I., red.; KOMAROV, F.V., red.; KOROL'KOV, A.N., red.; KRYLOV, P.N., red.; LIVANSKAYA, F.V., red.; LOKSHIN, E.Yu., red.; OSTROVITYANOV, K.V., red.; POSVYANSKIY, S.S., red.; RUDENSKIY, G.A., red.; RAZUMOV, N.A., red.; RUMYANTSEV, A.F., red.; TATUR, S.K., red.; SHUKHGAL'TER, L.Ya., red.; BAZANOVA, G.V., starshiy nauchnyy red., kand. ekon. nauk; KISEL'MAN, S.M., starshiy nauchnyy red.; GLAGOLEV, V.S., nauchnyy red.; TUMANOVA, N.L., nauchnyy red.; BLAGODARSKAYA, Ye.V., mlad. red.; SHUSTROVA, V.M., mladshiyy red.; GAYDUKOV, Yu.A., kand. ekon. nauk, red.; ZBARSKIY, M.I., red.; LOZOVOY, Ya.D., red.; SERGEYEV, A.V., dots., red.; KHEYFETS, L.M., kand. tekhn. nauk, red.; LYUBOVICH, Yu.O., kand. ekon. nauk, red.; SYSOYEV, P.V., red.; KOSTI, S.D., tekhn. red.

[Economic encyclopedia; industry and construction]Ekonomicheskaia entsiklopediia; promyshlennost' i stroitel'stvo. Chleny red. kollegii: A.V.Bachurin i dr. Moskva, Gos.nauchn. izd-vo "Sovetskaia entsiklopediia." Vol.1. A - M. 1962. 951 p. (MIRA 15:10)

(Russia--Industries--Dictionaries)
(Construction industry--Dictionaries)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENSKIY, G.A.

Riches of the Altai Mountains should serve the people. Nauka i zhizn' 29 no.1:60-61 Ja '62. (MIRA 15:3)

1. Chlen-korrespondent AN SSSR.
(Altai Territory--Natural resources)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENSKIY, G.A., red.; STAKODUBSKIY, L.V., otv. red.; ZYKOV, S.S., red.; PERVUSHIN, V.A., red.; SOKIN, M.Ya., red.; ROMANOVA, E.A., red.; MAZUROVA, A.F., tekhn. red.; VYALYKH, A.M., tekhn. red.

[Problems of labor resources in Siberia]Voprosy trudovykh resursov v raionakh Sibiri. Pod obshchei red. G.A.Prudenskogo. Novosibirsk, Izd-vo Sibirskogo otd-nie AN SSSR, 1961. 168 p. (MIRA 15:10)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut ekonomiki i organizatsii promyshlennogo proizvodstva.
(Siberia--Labor supply--Statistics)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENSKIY, G.A., red.; SOMINSKIY, V.S., otv. red.; BELOUSOVA, V.S., red.; DEVYATOV, G.S., red.; ISAYEV, Ye.N., red.; MEKKEL', S.A., red.; CHERKASOV, G.N., red.; KUPAYEVA, L.A., red.; MAZUROVA, A.F., tekhn. red.; VYALYKH, A.M., tekhn. red.

[Potentials of working time in the industries of Siberia]Rezervy rabochego vremeni v promyshlennosti Sibiri. Pod obshchei red. G.A.Prudenskogo. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1961. 221 p. (MIRA 15:8)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut ekonomiki i organizatsii promyshlennogo proizvodstva.
(Siberia--Labor productivity)
(Siberia--Time study)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENSKIY, G. (Novosibirsk)

Problems in using the labor resources of Siberia and the Far East. Vop. ekon. no.1:53-61 Ja '62. (MIRA 15:1)

1. Chlen-korrespondent AN SSSR.
(Siberia--Labor supply) (Soviet Far East--Labor supply)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

IOVCHUK, M.T., red.; KRUZHKOV, V.S.; PRUDENSKIY, G.A.; RUTKEVICH, M.N., prof.; IGITKHANYAN, M.Kh., kand.filosof.nauk; KOGAN, L.N., kand.filosof.nauk; ASHEKO, L., red.; CHEREMNYKH, I., mladshiy red.; ULANOVA, L., tekhn.red.

[Development of the cultural and technological level of the Soviet working class] Pod"em kul'turno-tekhnicheskogo urovnia sovetskogo rabochego klassa. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1961. 550 p. (MIRA 14:6)

1. Chleny-korrespondenty AN SSSR (for Iovchuk, Kruzhkov, Prudenskiy).
(Labor and laboring classes)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

DANILEVSKIY, Viktor Vasil'yevich, akademik; SERPUKHOV, V.I., prof., doktor geol.-mineralog.nauk, retsenzent; PRUDENSKIY, G.A., prof., doktor ekon.nauk, retsenzent; VVEDENSKIY, A.A., prof., doktor istor.nauk, retsenzent; MARENKOV, Ye.A., red.; ARKHANGEL'SKAYA, M.S., red.izd-va; VAYNSHTEYN, Ye.B., tekhn.red.

[Russian gold; history of its discovery and mining up to the middle of the 19th century] Russkoe zoloto; istoriia otkrytiia i dobychi do serediny XIX v. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 380 p. (MIRA 13:3)

1. AN USSR (for Danilevskiy). 2. Chlen-korrespondent AN SSSR (for Prudenskiy).

(Gold mines and mining)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

SOV/122-58-7-31/31

AUTHOR: Prudenskiy, G.A., Corresponding Member of the Ac.Sc.USSR

TITLE: On the Reserve of the Growth of Labour Productivity in Mechanical Engineering Production (O rezervakh rosta proizvoditel'nosti truda v mashinostroyenii)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 7, pp 88-91 (USSR)

ABSTRACT: Favourable review of a symposium published by Mashgiz in 1957 under the title "Problems of Increasing Labour Productivity in Mechanical Engineering Manufacture".

Card 1/1

USCOMM-DC-60,559

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENSKIY, G.A., glavnyy red.; STEPANOV, A.P., red.; EYDEL'MAN, B.I., red.; PODGORNOVA, V., red.; TROYANOVSKAYA, N., tekhn. red.

[Labor problems in the U.S.S.R.] Voprosy truda v SSSR. Moskva, Gos. izd-vo polit. lit-ry, 1958. 406 p. (MIRA 11:12)

1. Nauchno-issledovatel'skiy institut truda.
(Labor and laboring classes)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENSKIY, G.A.

"Increasing labor productivity in the machinery industry".
Reviewed by G.A. Prudenskii. Vest.mash. 38 no.7:88-91 Jl '58.
(MIRA 11:8)

1. Chlen-korrespondent AN SSSR.
(Labor productivity) (Machinery industry)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENTOV, A.I., inzh.

Introducing precast tubular piles with stressed reiforcements.
Mont.i spets.rab.v stroi. 22 no.4:27-30 Ap '60. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot.
(Concrete piling)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

SOROKIN, P.P., kand. tekhn. nauk; TSUKERMAN, N.Ya., inzh. Prinimal uchastiye PRUDENTOV, A.I., inzh.; KARPOV, V.V., kand. tekhn. nauk, nauchnyy red.; ZHURAVSKIY, N.A., red. izd-va; PUL'KINA, Ye.A., tekhn. red.

[Piling] Svainye raboty. Leningrad, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 213 p. (MIRA 15:3)

(Piling (Civil engineering))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENTOV, Aleksandr Ivanovich; SOROKIN, P.P., kand.tekhn.nauk, nauchnyy red.; NECHAYEV, G.A., red.izd-va; PUL'KINA, Ye.A., tekhn.red.

[Reinforced concrete tubular sectional piles] Zhelezobetonnye polye sbornye svai. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 109 p. (MIRA 12:10)
(Piling (Civil engineering))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

[illegible] : [illegible] R

[illegible] : [illegible] Farm Animals, Diseases Caused by [illegible]

[illegible] : [illegible]

AUTHOR : Prudentov, N. A.

[illegible] : Stavropol Kray Scientific Research Veterinary*

[illegible] : Method of Intravital Bacteriological Diagnosis of Brucellosis in Sheep under Field Conditions

[illegible] : [illegible] Stavropol'sk. krayevoy n.-i. vet. st., 1956, 3, [illegible]-133

[illegible] : A method of seeding milk directly into test tubes with agar on a farm is described. The milk was taken from sheep with the aid of a device constructed by the author.

[illegible]

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

[illegible], A.[illegible], kand. veterin. nauk; [illegible], N.G., mladshiy nauchnyy sotrudnik

Differentiation of the Brucella abortus vaccine strain No.19 from epizootic strains. Veterinariia 41 no.12:16-17 D '64. (MIRA 18:9)

1. Stavropol'skaya nauchno-issledovatel'skaya veterinarnaya stantsiya.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

USSR/Diseases of Farm Animals - Diseases Caused by Bacteria and Fungi. R.

Abs Jour : Ref Zhur - Biol., No 6, 1958, 26277

Author : Prudentov, N.A.

Inst : Stavropol Kray Scientific-Research Veterinary Station.

Title : Changes of Qualitative Relationships to Positive Indicators of Seroallergic Reactions in the Course of Brucellosis Infection.

Orig Pub : Trudy Stavropolsk. krayevoy n.-i. vet. st., 1956, 3, 144-149

Abstract : Following complex investigations among herds of large horned cattle and flocks of sheep where cases of brucellosis occurred, the author has shown that quantitative relationships of positive indicators in serological and allergic reactions are subject to changes depending on

Card 1/2

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USSR/Diseases of Farm Animals - Diseases Caused by Bacteria and Fungi. R.

Abs Jour : Ref Zhur - Biol., No 6, 1958, 26277

their characteristics during the course of enzooty.

Card 2/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

USSR/Diseases of Farm Animals - Diseases Caused by Bacteria and Fungi. R-2

Abs Jour : Ref Zhur - Biol., No 11, 1958, 50180

Author : Prudentov, N.A.

Inst : Stavropol' Kray Scientific Research Veterinary Station.

Title : Specific Sensitivity of Accelerated AR Methods in the Diagnosis of Brucellosis in Sheep.

Orig Pub : Tr. Stavropol'sk. krayevoy n.-i. vet. st., 1956, 3, 139-143.

Abstract : As shown by research, laminated AR with serum possesses a higher specific sensititivy than the blood-drop reaction. The author recommends that laminated AR with serum should be used for the diagnosis of brucellosis in sheep which are clinically suspected of being afflicted with the disease, as well as for checking postvaccinal reactions of sheep which have been vaccinated against brucellosis.

Card 1/1

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENTOV, N.A., kand. vet. nauk.

Diagnosis of listerellosis. Veterinariia 34 no.10:72 O '57. (MLRA 10:11)

1. Stavropol'skaya nauchno-issledovatel'skaya veterinarnaya stantsiya. (Listerella)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

3

COUNTRY : USSR
CATEGORY : Diseases of Farm Animals. Diseases Caused by Bacteria and Fungi.
ABS. JOUR. : RZhBiol., No. 6 1959, No. 25975

AUTHOR : Ivanov, [illegible]; Orlov, Ye.S.; Romanov, A.N.;
INST. : State Scientific Control Institute of Veterin[illegible]
TITLE : Experimental Trial of the Activity of Four Vaccines against Brucellosis.

ORIG. PUB. : Tr. Gos. nauchno-kontrol'n. in-ta vet. preparatov, 1957, 7, 41-46

ABSTRACT : Immunogenic properties of glycerinated vaccine from strain No.3 (I), formol-hydroxy-aluminum vaccine strain No.66 (II), live vaccine strain No.61 (III), and live dry vaccine strain No.19 (IV) were tried on sheep. Of the sheep vaccinated

[illegible]oryakova, G.I.; Prudentov, S.N.; Ivanova, V.I.; [illegible]; [illegible]
[illegible]nary Preparations

CARD: 1/2

10

ABSTRACT cont'd. : with I, immunity was established in 20% of animals, and in sheep vaccinated with II, in 80% of heads. The sheep vaccinated with III exhibited complete resistance to artificial infection by brucellosis. In sheep vaccinated with IV with doses of 5 and 25 billion brucellae, immunity was established in 90 and 100% of cases respectively.-- L.S.Kirichenko.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PERELMAN, Ya.N., [illegible]

Potentiometric titration of mixtures of organic acids.
Apt.delo 14 no.2:37-42 Mr-Ap '65.
(MIRA 19:1)

1. Leningradskiy khimiko-farmatsevticheskiy institut.
Submitted February 21, 1964.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

MEDVEDOVSKIY, O. (Syktyvkar, Komi ASSR); FADEYEVA, S. (Kiyev); ZINGER, G. (Kiyev); BORSHCHEVSKIY, Ye. (Moskovskaya obl.); ARONOV, I.; PRUDEYEV, B. (Chita)

From the mailbox. Mest.prom.i khud. promys. 3 no.1:37 Ja '63. (MIRA 16:2)

1. Sotrudniki Nauchno-issledovatel'skogo instituta mestnoy i toplivnoy promyshlennosti Gosplana UkrSSR (for Fadeyeva, Zingen). (Manufactures)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDIC, L.

Some thoughts concerning the new textbook. Zemljepis Jugosiavije za gimnazije (Georgraphy of Ugoslavia for Gynmasiums) by Silvo Kranjec and Vladimir Leban, p. 28.

GEOGRAFSKI OBZORNIK. (Georgrafskio drustvo Slovenije in Zenljepisni muzej Slovenije) Ljubljana.
Ljubljana, Yugoslavia
Vol. 6, no. 1/2, 1959.

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

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDIC, Zdenek, inz.

Experimental application of the class theory of modern logic on some forestry problems. Les cas 10 no.8:759-764 Ag'64

1. Institute of Forest Economic Development, Worksite Kromeriz.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDIC, Zdenek, inz.

Forests of the Hostynske vrchy Mountains and the spread of fir in the Moravian Carpathins. Les cas 9 no.2:111-126 F '63.

1. Ustav pro hospodarskou upravu lesu, pracoviste Kromeriz.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDICS, Jozsef

Let us make the life of the villagers easier! Magy kisipar 6 no.20:5 4 O '62.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDNIKOV, A.G.

L 16477-65 ENT(d)/ENT(m)/EPF(c)/EWP(f)/T-2 Pr-4 AEDC(b)/AED(p)-3/AFETR/AFFTC(a)/AFTC(p) WE

ACCESSION NR AM4045080 BOOK EXPLOITATION

Raushenbakh, Boris Viktorovich; Belyy, Sergey Andreyevich; Bespalov, Ivan Vanifat'yevich; Borodachev, Vadim Yakovlevich; Volynskiy, Mark Semenovich; Prudnikov, Aleksandr Grigor'yevich

Physical principles of operation in air-jet engine combustion chambers (Fizicheskiye osnovy rabochego protsessa v kamerakh sgoraniya vozdushno-reaktivnykh dvigateley), Moscow, Izd-vo "Mashinostroyeniye", 1964, 525 p. illus., biblio. Errata slip inserted. 4,000 copies printed.

TOPIC TAGS: jet engine, combustion chamber, fuel combustion

PURPOSE AND COVERAGE: This book presents the physical principles of fuel combustion in air flows and methods of calculating combustion chambers of air-jet engines. The thermodynamic and aerodynamic characteristics of combustion chambers, vaporization and mixing of fuels, ignition and combustion of gas mixtures in laminar and turbulent flows, combustion behind a body with poor flow, and the processes of heat exchange and heat protection of chambers are considered. The book is intended for researchers and engineers specialized in aviation and other fields. It will also be useful to students in higher technical educational institutions.

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OTHER: 079

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

TATARKER, Garri Yefimovich; PRUDNIKOVA, M.N., red.; GLADKIKH, N.N., tekhn.red.

[Silicate building materials and structural elements in Soviet literature from 1952 to 1954; a bibliography] Silikatnye stroitel'nye materialy i izdeliia v sovetskoi literature za 1952-1954 gg.; bibliograficheskii spravochnik. Moskva, Gos.izd-vo lit-ry po stroit.materialam, 1957. 269 p. (MIRA 10:12)
(Bibliography--Building materials)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

Prudnikova, M. N.

Tatarker, Garri Yefimovich, comp.

Silikatnyye stroitel'nyye materialy i izdeliya v sovetskoy literature za 1952-1954 gg.; bibliograficheskiy spravochnik (Silicate Building Materials and Structural Elements in Soviet Literature for 1952-1954; a bibliography) Moscow, Promstroyizdat, 1957. 269 p. 2,000 copies.

Ed.: Prudnikova, M.N.; Tech. Ed.: Gladkikh, N.N.

PURPOSE: The book is a bibliography of Soviet literature for the years 1952-1954 on silicate building materials and structural elements.

COVERAGE: See Table of Contents.

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Silicate Building Materials and Structural Elements in (Cont.)

Cementing Materials, Slags and Products Made From Them (589-1710) 33
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AVAILABLE: Library of Congress

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDINSKIY, Ya.

Assembly line maintenance of automobiles. Avt.transp.34 no.11: 17-19 N '56. (MLRA 9:12)

1. Glavnyy inzhener Leningradskoy avtobazy no.1 Rostorgtransa.
(Leningrad--Automobiles--Maintenance)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENTOV, A.I., inzhener.

Hollow precast reinforced concrete piles. Sbor. trud. VNIIGS no.7:15-58 '56. (MLRA 10:4)

(Concrete piling) (Precast concrete)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

YEL'SINOVSKIY, Vladimir Borisovich; PRUDENTOV, A.I., inzhener, nauchnyy redaktor; KARPOV, V.V., redaktor izdatel'stva; PUL'KINA, Ye.A., tekhnicheskiy redaktor

[Making large panels for walls] Proizvodstvo krupnykh stenovykh blokov. Leningrad, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 157 p. (MIRA 9:10)
(Walls) (Building blocks)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENTOV, N.A., kandidat veterinarnykh nauk.

Efficient methods of inoculating sheep against brucellosis. Veterinariia 33 no.10:48-50 O '56. (MLRA 9:10)

1. Stavropol'skaya Nauchno-issledovatel'skaya veterinarnaya opytnaya stantsiya.
(Brucellosis in sheep -- Preventive inoculation)

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PRUDENTOV, N.A., kandidat veterinarnykh nauk (Stavropol'skiy kray);
ZHDANOV, V.M., veterinarnyy vrach (Stavropol'skiy kray)

Chemoprophylaxix in puerperal gaseous edema in ewes. Veterinariia 32 no.11:74-75 N '55. (MLRA 8:12)
(SHEEP--DISEASES) (EDEMA)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

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PRUDENTOV, P.I.

Aerial-photograph forest survey of valleys adapted to forests in sandy regions. Geog.sbor. no.5:172-176 '55. (MLRA 9:6)
(Aeronautics in forestry) (Forests and forestry--Mensuration)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDENTOV, P.I.

Using aerial photographs in agricultural forestry improvement surveying. Geog. sbor. no.5:207-209 '55. (MLRA 9:6)
(Aeronautics in forestry)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

B-10

Country : Poland
Category : Radiation Chemistry. Photochemistry. Theory of Photographic Process.
Abs. Jour. : Ref Zhur-Khimiya, No 6, 1959 18603

Author : Prudhomme, R. O.
Institut. :
Title : Luminescence and Oxidizing Action of Ultrasonic on Water in the Presence of Different Inert Gases.
Orig Pub. : Proc. II. conf. ultrason., 1956, Warszawa, PWN, 1957, 83-86

Abstract : Study of ultrasonic action (frequency 960 kc, intensity 6 watt/cm2) on distilled water saturated with He, Ne, Ar, Xe, N_2, O_2, air. The amount of resulting H_2O_2 (I) was determined and sonic-luminescence was visually observed. Amount of I and sonic-luminescence increase with decreasing ionization potential of inert gas, and with increase of gas solubility. It is shown that regularities are observed between the amount of H_2O_2 that is formed and the ratio of specific heat at constant pressure to specific heat at a constant volume. Amount of I varies symbathically with the variation of intensity of ultraviolet radiation arising on ultrasonic exposure. The experiments confirm the connection

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RUDKIN, Ya. M. and [illegible], V. A.

"USSR Coal Mines use Donbass Combines Effectively", Ugol', No. 10, 1950.

SO: W-16167, 6 Jan 1951

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

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KUZ'MICH, A.S., redaktor; GRAFOV, L.Ye., redaktor; SHEVYAKOV, L.D., akademik, redaktor; SUDOPLATOV, A.P., redaktor; BALBACHAN, Ya.I., redaktor; OSTROVSKIY, S.B., redaktor; BARANOV, A.I., redaktor; BAGASHEV, M.K., redaktor; IVANENKO, G.I., redaktor; SOSNOV, G.A., redaktor; PRUDKIN, Ya.M., redaktor; DUL'NEV, V.P., tekhnicheskiy redaktor.

[Reconstruction of the mining industry and the improvement of the surface complex of mines in the Donets Basin; proceedings of a conference in Stalino, November 19-21, 1951.] Rekonstruktsiia gornogo khoziaistva i sovershenstvovanie poverkhnostnykh kompleksov ugol'nykh shakht Donbassa; trudy soveshchaniia v g. Stalino, 19-21 noiabria 1951 g. Moskva, Ugletekhizdat. 1952. 245 p. [Microfilm] (MLRA 9:2)

1. Russia (1923- U.S.S.R.) Ministerstvo ugol'noy promyshlennosti.

(Donets Basin --Coal mines and mining)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

SOSNOV, G. A.; PRUDKIN, YA. M.

Donets Basin - Coal Mines and Mining

Labor effectiveness of "Donbass" coal combines in mines of the Donets Basin. Ugol' 27 no. 8, 1952.

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

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

FRUDKIN, Ya.M.

Fuel Abstracts
June 1954
Natural Solid Fuels;
Winning

✓ 4189. ANALYSIS OF EFFICACY OF USE OF METAL SUPPORTS AT FACE.
Sosnov, G.A. and Frudkin, Ya. M. (Ugol (Coal), Jan. 1954, 29-33).
Analysis of results covering [illegible] mines in Donbass with 44,300 metal supports shows a great saving in materials and labour compared with wooden supports. (L).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

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PRUDKIN, Ya. M.

SOSNOV, G.A., gornyy inzhener; PRUDKIN, Ya.M., gornyy inzhener.

Organization of continuous work cycles is the basis of the growth of labor productivity in coal mining. Ugol' 29 no.8:30-34 Ag '54. (MLRA 7:8)

1. Ministerstvo ugol'noy promyshlennosti SSSR.
(Coal mines and mining)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

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SOSNOV, G.A.; PRUDKIN, Ya.M.

Advantage of mining with twin entries and long pillars as compared to the longwall mining system. Ugol' 32 no.2:14-18 F '57. (MLRA 10:3)

1. Ministerstvo ugol'noy promyshlennosti SSSR.
(Caol mines and mining)

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KLORIK'YAN, S.Kh., kand. tekhn. nauk; BALYKOV, V.M., kand. tekhn. nauk; PRUDKIN, Ya.M., inzh.

Expansion of complex mechanization in flat seam stopes.
Ugol' 39 no.8:52-58 Ag '64. (MIRA 17:10)

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BALYKOV, V.M., kand.tekhn.nauk; PUTDKIN, Yu.M., inzh.

Economic efficiency of using complexes of equipment with hydraulic jacks. Ugol' 40 no.5:71-75 My '65. (MIRA 18:6)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

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BALYKOV, V.M., kand.tekhn.nauk; PRUDKIN, Ya.M., gornyy inzh.

Performance of K-52m cutter-loaders, and the development of narrow-cut extraction in flat seams. Ugol' 40 no.9:31-35 S '65.

(MIRA 18:10)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PMUDKIN, Ya.M., inzh.; GAVRISH, V.I., prof.

Review of [doktor ekonom. nauk] G. IA. Burshtein's book "Capital assets of the coal industry." Ugol' 39 no.6:75-76 [illegible]64 (MIRA 17:7)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

GRIDIN, A.D., inzh.; SAMSON, G.N., inzh.; PRUDKIN, Ya.M., inzh.; KOVALEV, I.G., inzh.

Ways of obtaining a record-high operative capacity of coal cutter loaders. Ugol' 37 no.8:49-56 Ag '62. (MIRA 15:9)

1. Gosudarstvennyy proyektno-konstruktorskiy i eksperimental'nyy institut ugol'nogo mashinostroyeniya.
(Coal mining machinery)
(Coal mines and mining--Labor productivity)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

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KLORIK'YAN, S.Kh., inzh.; PRUDKIN, Ya.M., inzh.

Mechanization of auxiliary and development mining operations. Ugol'37 no.5:32-35 My '62. (MIRA 15:6)

1. Gosudarstvennyy proyektno-konstruktorskiy i eksperimental'nyy institut ugol'nogo mashinostroeyeniya.
(Coal mines and mining)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

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PRUDKIN, Ya.M., inzh.; SOSNOV, V.V., inzh.

Overall mechanization and automation in coal mines. Mekh. i avtom. proizv. 16 no.6:50-53 Je '62. (MIRA 15:6)
(Automation)
(Coal-mining machinery--Technological innovations)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDKIN, Ya.M., inzh.

World's coal output. Ugol' 36 no.7:58-59 Jl '61. (MIRA 15:2)
(Coal)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

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PRUDKIN, Ya.M., gornyy inzh.; KOVALEV, I.G., gornyy inzh.;
BATMANOV, Yu.K., gornyy inzh.

Effect of the increased advance rate or length of the longwall on the improvement of technical and economic indices.
Ugol' 37 no.1:22-24 Ja '62. (MIRA 15:2)
(Mining engineering)

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DUBINSKIY, Mikhail Iosifovich; PRUDKIN, Ya.M., otv. red.; GOLUTYATNIKOVA, G.S., red.izd-va; BOLDYREVA, Z.A., tekhn. red.

[Economic advantages of coal mining by means of cutter-loader units] Ekonomicheskaia effektivnost' kombainovoi vyemki uglia na shakhtakh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 64 p. (MIRA 15:2)

(Coal mines and mining)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

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PRUDKIN, Ya.M., inzh.

Mechanization of development within deposit operations. Ugol' 36 no.4:19-23 Ap '61. (MIRA 14:5)
(Coal mines and mining) (Coal mining machinery)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDKIN, Ya.M., gornyy inzh.

Economic advantages of using cutter-loaders in Kuznetsk Basin mines. Ugol' 36 no.9:41-45 S '61. (MIRA 14:9)

1. Gosudarstvennyy proyektno-konstruktorskiy i eksperimental'nyy institut ugol'nogo mashinostroyeniya.
(Kuznetsk Basin--Coal mining machinery)

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RUDKIN, Ya.M.

Coal mining in socialist and capitalist countries. Ugol' 35 no.10:69-70 O'60. (MIRA 13:10)
(Coal mines and mining--Statistics)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDKIN, Ya.M.

Increase of coal production in countries of the socialist camp.
Ugol' 34 no.8:20-21 Ag '59. (MIRA 12:12)
(Coal mines and mining)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

SOSNOV, G.A.; PRUDKIN, Y. M.

Effectiveness of using metallic organ-pipe supports for longwalls in Donets Basin mines. Ugol' 32 no.6:23-27 Je '57. (MLRA 10:7)
(Donets Basin--Mine timbering)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDKIY, A.I. (Berestechko Volynskoy oblasti)

Use of biomycin in treating alveolitis. Stomatologiia 39 no.6: 63-64 N-D '60. (MIRA 15:1)
(AUREOMYCIN) (GUMS--DISEASES)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

NIKITENKO, Aleksandr Grigor'yevich, kand. tekhn. nauk, ispolnyayushchiy obyazannosti dotsenta; PRUD'KO, Dmitriy Stepanovich, inzh.

Calculation of forced switching-in of a d.c. electromagnetic apparatus with a two-sectional coil using an analog computer. Izv. vys. ucheb. zav.; elektromekh. 8 no.10:1131-1141 '65. (MIRA 18:11)

1. Kafedra elektricheskikh mashin, apparatov, matematicheskikh i schetnoreshayushchikh priborov i ustroystv Novocherkasskogo politekhnicheskogo instituta (for Nikitenko). Submitted March 4, 1965.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDKOGLYAD, F.N.

Work experience of the Novo-Titarovskiy Central Zoo-Veterinary District. Veterinariia 30 no.1:9-14 Ja '53. (MLRA 6:1)

1. Glavnyy veterinarnyy vrach veterinarnogo otdela Krasnodarskogo krayevogo upravleniaya sel'skogo khozyayastva.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDKOVA, Nina (MOSKVA)

Smart hands, ardent hearts. Izobr.i rats. no.12:6-7 D '59. (MIRA 13:8)

(Moscow--Hydraulic machinery--Technological innovations)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

S/0137/63/000/012/D037/D037

...ON NR: AR4014147

...Zh. Metallurgiya, Abs. 12D224

...Rogov, M. B.; Yuferov, V. M.; Goncharvo, I. A.; Lagutina, R. V.; ...chenko, G. M.; Pechennikova, I. S.; Prudkova, R. A.

...: Experience in making cold-rolled pipes from EP38, EP39, and EI993 ...-martensitic steels

...SOURCE: Sb. Proiz-vo trub. M., Metallurgizdat, vy*p. 9, 1963, 40-48

...TAGS: Ferritic martensitic steel, steel pipe cold rolling, steel pipe cold drawing

TRANSLATION: The following conclusions were reached on the basis of industrial experience in producing the indicated pipes: (1) In order to obtain a satisfactory surface of cold-rolled and cold-drawn pipes with a wall thickness of 1 mm ...de from EP38 and EP39 steel, the tube blanks should be turned and bored. ...ing of blanks from EP38 and EP39 steel for tubes with a wall thickness of

...1/2

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ACCESSION NR: AR4014147

[illegible] can be replaced by the usual repair by means of files. (2) The heat treatment of hot-rolled pipes from EP38, EP39, and EI993 steel should be carried out by annealing prior to cold deformation. A. Leont'yev.

DATE ACQ: 09Jan64 SUB CODE: ML ENCL: 00

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L 63540-65 EWT(m)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) Pf-4 IJP(c)
MJW/JD/HW

ACCESSION NR: AP5015867 UR/0136/65/000/006/0063/0065
669.295-122.4-462

38
37
B

AUTHOR: Khorev, A. I.; Yesaulov, A. T.; Vil'yams, O. S.; Prudkova, R. A.

TITLE: Hot tube forming of VT14 alloy at temperatures in the (α+β)-region

SOURCE: Tsvetnyye metally, no. 6, 1965, 63-65

TOPIC TAGS: titanium alloy, hot working, metal mechanical property, martensitic transformation, heat treatment, metallographic examination

ABSTRACT: Tubes of VT14 Ti alloy were hot formed on a piercing mill to a final diameter of 194 mm with a wall thickness of 14-16 mm. The alloy was first heated to 1080°C for 2.5-3 hrs, then formed into a case (wall thickness of 32 mm); next it was cooled on a roller type conveyor to 800-820°C, after which it entered the second piercing stand for final reduction. The purpose of cooling was to keep the alloy in the two-phase (α+β)-region, i.e. below α⇄β-transformation (920°C). Further thermomechanical treatment was done in order to even out the wall thickness, while some specimens were quenched in water from 820°C. Mechanical tests and metallographic studies were made on the processed tubes, both for these treatments and for different

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ACCESSION NR: AP5015867

forms of heat treatment. Strength, ductility, and impact strength are plotted as functions of quench temperature. Two figures show the same data, except for additional aging, which was done after quenching. For air or water quenching, the properties show little change. However, after aging at temperatures ranging from 460 to 520°C, the water quenched samples have higher strengths with lower ductilities. For producing pierced tubes of satisfactory quality, it is necessary to cool the tubes to 760-820°C before the final draft, to avoid heating into the β-region. Specimens heated above 820°C tend toward brittle behavior. As a precautionary measure, it is recommended that the deformed zone be water cooled in administering the final draft. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MM, IE

NO REF SOV: 001 OTHER: 001

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

KHOREV, A.I.; YESAULOV, A.T.; VIL'YAMS, O.S.; PRUDKOVA, R.A.

Hot rolling of VT14 alloy pipe at temperatures in the Alpha and Beta region. TSvet. met. 38 no.6:63-65 Je '65. (MIRA 18:10)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

1. PRUDKOVSKAYA O.

2. USSR (600)

4. Spectrum, Solar

7. Blue sun, Znan. sila 22 no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, unclas.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

[illegible]

[illegible]KAYA, [illegible]: "Oscillations in electron-ion plasmas." Moscow State U imeni M. V. Lomonosov. Moscow, 1956. (Dissertation for the Degree of Candidate in Physicomathematical Science.)

Knizhnaya letopis', No. 30, 1956. Moscow.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDKOVSKAYA, O.V.

PA - 2333

AUTHOR: PRUDKOVSKAYA, O.V., SHIROKOV, M.F.

TITLE: On the Theory of Stationary Strata in the Positive Column of the Gas Discharge. (K teorii stoyashchikh strat v polozhitel'nom stol'be gasovogo razryada, Russian).

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol 112, Nr 6, pp 1023 - 1026 (U.S.S.R.).

Received: 4 / 1957 Reviewed: 5 / 1957

ABSTRACT: On the basis of suitable diffusion equations fully rigorous expressions for the period of standing strata can be obtained which agree with the experiment as to order of magnitude. By this means the dependence of the period of the strata on the radius of the tube, on the power of the discharge current and on other factors can be explained. For the layer-like discharge the following system of equations is given: $\partial E_\alpha / \partial x_\alpha = 4\pi e(n_2 - n_1)$ $\frac{\partial n_1}{\partial t} - \frac{\partial(n_1 u_{1\alpha})}{\partial x_\alpha} - D_1 \frac{\partial^2 n_1}{\partial x_\alpha^2} = \beta n_1 - R$, $\frac{\partial n_2}{\partial t} - \frac{\partial(n_2 u_{2\alpha})}{\partial x_\alpha} - D_2 \frac{\partial^2 n_2}{\partial x_\alpha^2} = \beta n_1 - R$. Here index 1 refers to electrons and index 2 to ions. u_1 and u_2 denote the drive velocity of the electrons and the ions, D_1 and D_2 - the diffusion coefficients, β - the coefficients of ionization, R - spatial recombination in the discharge, n_1 and n_2 - the concentration of the electrons and ions respectively. The x-axis is assumed to be equal to the tube axis. After some computations the following quasi-neutral standing periodicity is obtained:

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PA - 2333

On the Theory of Stationary Strata in the Positive Column of the Gas Discharge.

$\mathcal{E} = 2\pi / \sqrt{\beta/(D_1(\mu_2/\mu_1) + D_2)} \; (1 + (\mu_2/\mu_1))$

Starting from a more complete system of equations which also takes several conditions into account, also a more complicated dispersion equation can be obtained. By means of the aforementioned equation the period of standing oscillations can be obtained from the known pressure of the gas and from the temperature of the electrons (for a certain radius of the tube and a certain gas). The results of thus computations for argon and neon are shown together in a table. In the most simple case investigated here the dispersion equation for a high-frequency discharge is fully identical with the dispersion equation given by the authors. The amplitude of the high-frequency field, however, must not be too large. A further table demonstrates for neon the dependence of the period of the layers on the temperature of the electron gases at constant pressure. (2 tables).

ASSOCIATION: State University Moscow.
PRESENTED BY: Member of the Academy N.N.BOGOLYUBOV,
SUBMITTED: 12.9.1956
AVAILABLE: Library of Congress.

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDKOVSKAYA, O. V.

AUTHOR: Prudkovskaya, O. V. 20-4-15/52

TITLE: On the Theory of Diffusion Vibrations in a Gas Discharge Plasma (K teorii diffuzionnykh kolebaniy v gazorazryadnoy plazme)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 117, Nr 4, pp. 601-604 (USSR)

ABSTRACT: The author takes, as usual, a system of equations which consists of the equations of diffusion for the electrons and ions from a Poisson (Puasson) equation for the electric field and of the equation of energy for the electrons, as a basis for the investigation of vibrations in a gaseous plasma. As an analysis of the most general system of equations showed, the temperature disturbances of the ions have a very insignificant influence on the character of the vibrations on account of the intense heat exchange of atoms and ions. These equations are given here explicitly and explained. The problem may be considered to be unidimensional in the central part of the tube. The author then gives the condition for the existence of a non-trivial solution of the system of equations. In a plasma with a weak charge the coupling between ions and electrons is rather weak and they

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can move independently of each other. In this case there is practically no ion wave on account of the very intense damping. The existence of non-quasineutral electron-ion--waves is possible in plasmata with higher concentration of the charged particles. Finally the equation of dispersion of the quasineutral waves for the real and sufficiently intensely charged plasmata is given. Also with a very intense external electric field simple special cases can be derived from the general equation of dispersion. However, in this case the dependence of certain coefficients of the equations on the mean energy of the electrons must be taken into account. The author subsequently takes the dependence of the coefficient of ionization of the temperature into consideration. The dependence of the coefficients of diffusion, thermo-diffusion and the mobility of the charged particles on the temperature of the electrons depends on the dependence of the cross section of the collisions of the electrons with the atoms of the neutral gas on the velocity of the electrons and differs according to the kind of gas. The general equation of diffusion is explicitely written down, after which some special cases are discussed. The

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On the Theory of Diffusion Vibrations in a Gas Discharge Plasma 20-4-15/52

analysis of the general equation of dispersion of the diffusion waves shows the following: Quasineutral waves are observed in real plasmata in which the Debye (Debaye) radius is of the order of one hundreth or one thousandth centimeter. In a plasma with a very charge in which the Debeye (Debaye) radius is of the same or of smaller order than the period of the investigated process, electron waves (which propagate independently) and also ion waves (which accompany the electrons) may possibly occur. There are 5 references, 2 of which are Slavic.

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

PRESENTED: June 18, 1957, by N. N. Bogolyubov, Academician.

SUBMITTED: June 1o, 1957

AVAILABLE: Library of Congress

Card 3/3

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDKOVSKAYA, O.V.

Theory of the periodic formations strata) in plasma of gas discharge. Nauch. dokl. vys. skoly; fiz.-mat. nauki no.1: 119-127 '58. (MIRA 12:3)

1.Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Electric discharges through gases)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

24(4), 24(7) SOV/155-58-2-41/47

AUTHORS: Shirokov, M.F., and Prudkovskaya, O.V.

TITLE: Oscillations in Electron-Ionic-Plasma (Kolebaniya v elektronno-ionnykh plazmakh)

PERIODICAL: Nauyhnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, Nr 2, pp 192-199 (USSR)

ABSTRACT: The author arrange a very general system of equations for the motions and for the electrodynamics of a plasma which is understood as a system of charged and neutral particles. The equations describe very completely arbitrary processes in these media and permit to obtain the limits for the application of the older theories of plasm oscillations. The equations show that in essential there exist three kinds of oscillations. If the degree of charge of the plasm is not great, then there appear diffusion oscillations of the electron-ionic gas and acoustic oscillations of the neutral gas; otherwise there are several electro-acoustic oscillations.

There are 24 references, 10 of which are Soviet, 6 American, 4 English, and 4 German.

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

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6.8000 (3201, 1147, 1155)
24.1800

S/058/61/000/005/047/050
A001/A101

AUTHOR: Prudkovskaya, O.V.

TITLE: On the theory of acoustic effect of Neklepayev-Lebedev

PERIODICAL: Referativnyy zhurnal. Fizika, no 5, 1961, 414, abstract 5Zh696 ("Nauchn. tr. Mosk. tekhnol. in-t legkoy prom-sti", 1959, no 14, 253 - 258)

TEXT: The Neklepayev-Lebedev effect consists in the phenomenon that no acoustic wave of a frequency greater than $\omega_0 = 1/\tau$, where τ is time of collision between molecules, can propagate in a gas; this effect is investigated theoretically on the basis of gas dynamics equations with allowance for dissipative terms. General formulae for decrement of attenuation and frequency are derived in dependence on wave number (k). It was found that the extreme frequency of acoustic wave capable of propagating in a gas amounts to $\Omega_{max} = 3/4\,\Gamma\, C/\lambda$, where Γ is a slowly varying function k^2/ω, close to 1; C is thermal velocity of molecules; λ is length of free path. At this frequency, attenuation decrement δ is equal to $\delta = \Omega_{max}$. The results of the theory are compared with the data of Neklepayev-Lebedev. I.Ratinskaya

[Abstracter's note: Complete translation.]

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85169

26.1410
9.3150 (1049, 1141, 1532)

S/139/60/000/005/026/031
E032/E114

AUTHORS: Kochanov, F.D., and Prudkovskaya, O.V.

TITLE: The Effect of an External Magnetic Field on Stationary Layers in the Plasma of an Electric Discharge

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1960, No. 5, pp 153-161

TEXT: An account is given of an experimental study of the effect of a magnetic field on the positive column of an electric discharge in hydrogen and neon. A comparison of the diffusion theory of striations with the experimental results obtained showed that there is an agreement between the theory and experiment. In the experimental part of this work the striated positive column was obtained in hydrogen, neon and air, as well as their mixtures, at pressures of the order of 0.1-2 mm Hg. The cylindrical glass discharge tubes with aluminium electrodes (r_0 = 13 mm, L = 480-1500 mm) were set up in long solenoids producing the longitudinal field (Fig. 1). The electron temperature was determined by the probe method using a plane probe located on the axis of the discharge, with the collecting surface facing the cathode. The mean value of the electric field along the axis of

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S/139/60/000/005/026/031
E032/E114

The Effect of an External Magnetic Field on Stationary Layers in the Plasma of an Electric Discharge

the discharge was measured by determining the potential difference between two identical cylindrical probes at a distance of about 15-20 striations from each other with the aid of an electrostatic voltmeter. Typical results obtained are shown in Figs 3-5, which show the length of striations ℓ as a function of the magnetic field H for hydrogen, neon and hydrogen respectively. The pressures were 0.4 mm, 0.42 mm and 0.8 mm respectively, and the currents 5, 8 and 5 mA. The tube radius was 13 mm in each case. The graphs also show the average electric field as a function of the magnetic field. As the magnetic field is increased, the "period" of the striations increases up to a maximum value, after which the striations disappear or become irregular. The application of an increasing magnetic field gives rise to an increase in the conductivity up to a certain maximum value, after which the conductivity decreases if striations are still present. In general the temperature of the electron gas decreases with increasing magnetic field. Changes in the layered structure of the discharge, which are associated with changes in the

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S/139/60/000/005/026/031
E032/E114

The Effect of an External Magnetic Field on Stationary Layers in the Plasma of an Electric Discharge

longitudinal magnetic field, can be satisfactorily explained on the basis of the diffusion theory provided the ratio of the Larmor frequency to the relaxation frequency is not too large compared with unity. It is shown that the ambipolar diffusion theory leads to the following expression for the period of standing layers in a longitudinal magnetic wave:

$$\ell_H = \frac{2\pi}{K} = 2\pi \left(\frac{\beta}{D_{a\parallel}} - \frac{D_{a\perp}}{D_{a\parallel}} \frac{\alpha_2^2}{r_0^2} \right)^{-\frac{1}{2}} \qquad (4)$$

where β is the mean ionisation frequency, D is the diffusion coefficient, α_2 is a coefficient which depends on the concentration of charged particles at the wall, and r_0 is the radius of the gas discharge tube. This expression is based on the theory given by the second of the present authors in a previous paper (Ref. 3). Comparison of this equation with experimental data leads to good agreement.

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85169

S/139/60/000/005/026/031
E032/E114

The Effect of an External Magnetic Field on Stationary Layers in the Plasma of an Electric Discharge

Acknowledgements are made to Professor M.F. Shirokov for directing this work and to A.A. Zaytsev for valuable discussions.
There are 6 figures, 1 table and 10 references: 8 Soviet, 1 English and 1 Swiss.

ASSOCIATION: Moskovskiy institut legkoy promyshlennosti (Moscow Institute for Light Industry),

Kuybyshevskiy aviatsionnyy institut (Kuybyshev Aviation Institute)

SUBMITTED: December 8 1959, and after revision, May 12 1960.

Card 4/4

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

ACCESSION NR: AR4015125 S/0124/63/000/012/B025/B025

SOURCE: RZh. Mekhanika, Abs. 12B161

AUTHOR: Prudkovskaya, O.V.

TITLE: On the theory of the Neklepayev-Lebedev acoustical effect

CITED SOURCE: Nauchn. tr. Mosk. tekhnol. in-t legkoy prom-sti. sb. 14, 1959, 253-258

TOPIC TAGS: sound wave, sound intensity, relaxation frequency, Neklepayev-Lebedev effect

TRANSLATION: In the measurement of sound wave intensity at various distances from the source, Neklepayev (Zhurnal Russkogo Fiziko-Tekhnicheskogo Obshchestva (Journal of the Russian Physico-Technical Society), 1911, Vol 43, 100) noted the impossibility of obtaining a sound wave with a frequency on the order of the relaxation frequency (the Neklepayev-Lebedev effect). On the basis of the equations of gas dynamics including dissipation terms, the author obtains the dispersion equation describing the propagation of sound waves in air, and the expression for the

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ACCESSION NR: AR4015125

damping decrement and the wave frequency as a function of the wave number. On the basis of the analysis of the dispersion equation and the expression for the damping decrement, the author gives an explanation of the Neklepayev-Lebedev effect. It is shown that a sound wave with a frequency on the order of the relaxation frequency cannot be obtained because of the strong absorption of sound oscillations in the neighborhood of the relaxation frequency. L.M. Lyamshev.

DATE ACQ: 31Dec63 SUB CODE: PH ENCL: 00

Card 2/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

GUN, G.Ya.; POLUKHIN, P.I.; PRUDKOVSKIY, B.A.; POLUKHIN, V.P.; YERMANOK, M.Z.

Calculating strain hardening and the temperature field during extrusion. Izv. vys. ucheb. zav.; tsvet. met. 8 no.4:134-139 '65. (MIRA 18:9)

1. Kafedra tekhnologii i avtomatizatsii prokatnogo proizvodstva Moskovskogo instituta stali i splavov.

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L 2999-66 EWT(m)/EWP(t)/EWP(b) JD

ACCESSION NR: AP5013321

UR/0148/65/000/005/0057/0064
669.1:621.731

53
52
B

AUTHOR: Polukhin, P. I.; Gun, G. Ya.; Polukhin, V. P.; Prudkovskiy, B. A.; Korolev, V. M.

TITLE: Adaptation of the electrohydrodynamic analogue method to the theory of metal processing under pressure

SOURCE: IVUZ. Chernaya metallurgiya, no. 5, 1965, 57-64

TOPIC TAGS: plastic flow, mathematic model, metallurgic process, pressure casting

ABSTRACT: The application of the theory of complex variables to plastic flow during metal processing was studied by the mathematical modeling of potential fields. In particular, the method of electrohydrodynamic analogues was found to be directly applicable to metal processing theory. Three specific cases are considered: the general theory of plane-parallel plastic flow, the drawing of profiles of intricate form, and the pressing of profiles of intricate form. Plastic flow equations are given for plane-parallel flow in terms of complex variables, utilizing a mathematically postulated Q-plane, which allowed approximate calculations to be made for the energy and strength parameters of the process. The flow pattern is presented,

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ACCESSION NR: AP5013321

along with a parametric plot of the Q-plane. For the case of the drawing of intricate shapes, a similar approach was given. A deformation function $\phi = \phi(x, y)$ is used to calibrate a draw plate; this function is determined by solving a Laplacian in x and y for specified boundary conditions. Results are given for $1-\phi$, calculated at the center of the draw plate, as a function of degree of deformation. For the final case, pressing of profiles of intricate shape, a further innovation is made in the general mathematical treatment, by using $\vec{v} = v_x + iv_y$ to describe the velocity field. A complex potential is calculated, and the flow behavior of a thin walled pressing is described. Flow lines are sketched and shown to be equivalent to those obtained during metal processing. Orig. art. has: 6 figures.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)

SUBMITTED: 22Jan65 ENCL: 00 SUB CODE: MM, ME

NO REF SOV: 009 OTHER: 000

Card 2/2 Rd

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

POLUKHIN, P.I.; VORONTSOV, V.K.; PRUDKOVSKIY, B.A.

Investigating by optical methods the transition stages of the rolling process. Izv. vys. ucheb. zav.; chern. met. 7 no.1:69-77 '64. (MIRA 17:2)

1. Moskovskiy institut stali i splavov.

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L 36295-65 EWT(d)/EWT(m)/EWA(d)/EWT(k)/EWP(k)/EWP(h)/EWP(b)/EWP(l)/
EWA(c) Pf-4 JD/HW

ACCESSION NR: AP4047336 S/0148/64/000/010/0070/0074

AUTHOR: Gun, G. Ya.; Polukhin, P. I.; Prudkovskiy, B. A.; Polukhin, V. P.

TITLE: Certain problems pertaining to the theory of extrusion in unsymmetrical and multihole dies

SOURCE: IVUZ. Chernaya metallurgiya, no. 10, 1964, 70-74

TOPIC TAGS: velocity field, plastic flow, interface, deformation, multihole die, unsymmetrical die, extrusion, extrusion die

ABSTRACT: In plotting a flat turbulent-free field of velocities determined by an analytical function, the complex potential $\omega(z)$, the physical region D of the plastic flow and region E of the complex potential are mapped conformally in the upper half-plane. Assuming that region D is a generalized polygon A with apexes A_k and with angles $\alpha_k \pi$ $(0 \leq \alpha_k \leq 2)$ the auxiliary half plane $\operatorname{Im} \zeta > 0$ is introduced and regions D and E plotted on it. The pressure efficiency is written as the sum of pressure efficiencies in the first and the second hole and the shear force on the flow interface is added. The flow interface in the first and second hole

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ACCESSION NR [illegible]4047336

may be derived from the minimum forming efficiency which, in turn, determines the relationship of outflow from the first and second holes. In polygonal regions, the flow in multi-hole dies is determined by using the method of discontinuous functions. Let plastic flow occur in an nonsymmetrical die in region D, having assigned parameters H, h, C_1 and C_2. The flow in region D may be considered as a flow in two simpler regions I and II, attached along current line A^-A^+ which is the flow interface. The flow interface contains section A_8A_4 where discontinuous velocities occur along that interface. The region of intensive plastic deformations is bounded by equipotential surfaces that pass through angle points and by a surface determined by angle ψ. Let us limit the zones of intensive plastic deformations in regions I and II corresponding to surfaces $A_1A_2A_3A_8$ and $A_4A_5A_6A_7$. The discontinuity in velocities will be considered only for section A_8A_4 of the flow interface. The mean specific pressure is written

$$\frac{p}{2\tau_s} = \frac{\dot{A}}{2\tau_s v_\infty^- (H_1 + H_2)} = \frac{H_1}{H_1 + H_2}\left[\left(1 + \frac{1}{\psi_1}\right) \cdot \ln\frac{H_1}{h_1} + 0{,}88\psi_1\right] + \frac{H_2}{H_1 + H_2}\left(\ln\frac{H_2}{h_2} + 0{,}88\psi_2\right). \quad (1)$$

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ACCESSION NR: AP4047336

Functional (1) stands in linear relationship with ψ_2. Its minimum value corresponds to the value of ψ_2^0 at which equipotential surface A_6A_7 becomes equipotential surface B_3B_2 forming a common area of deformation. Orig. art. has: 3 figures and 18 equations.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Steel and Alloy Institute)

SUBMITTED: 21Mar64 ENCL: 02 SUB CODE: MM

NR REF SOV: 004 OTHER: 000

Card 3/5

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

POLUKHIN, P.I.; GUN, G.Ya.; POLUKHIN, V.P.; PRUDKOVSKIY, B.A.; KOROLEV, V.M.

Using the method of electrohydrodynamic analogies in the theory of metalworking by pressure. Izv. vys. ucheb. zav.; chern. met. 8 no.5:57-64 '65. (MIRA 18:5)

1. Moskovskiy institut stali i splavov.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9

PRUDKOVSKIY, G. P.

Verbatim: Prudkovskiy, G. P. - "Study of the electric and magnetic fields by electrolytic-bath method," Trudy Studench. nauch.-tekhn. o-va (Moscow, energet. in-t im. Molotov), Issue 3, 1949, p. 5-11

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949.)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001343410015-9"