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3(5) SOV/11-59-5-1/14

AUTHOR: Semenenko, N.P.

TITLE: The Geochronology of the Pre-Cambrian Formations in the System of Absolute Chronology. (Geokhronologiya Dokembriya v absolyutnom letoischislenii.)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, Nr 5, pp 3-15 (USSR)

ABSTRACT: The author compiled data on the absolute age of the pre-Cambrian formations in the USSR, obtained by the following institutions: Institut geokhimii i analiticheskoy khimii AN SSSR (the Institute of Geochemistry and Analytical Chemistry of the AS USSR); Radiyevyy institut AN SSSR (the Radium Institute of the AS USSR); the Institute of Geologic Sciences of the AS UkrSSR; Laboratoriya geologii Dokembriya AN SSSR (the Laboratory of Pre-Cambrian Geology of the AS USSR); Vsesoyuznyy geologicheskiy institut (the All-Union Geological In-

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SOV/11-59-5-1/14

The Geochronology of the Pre-Cambrian Formations in the System of Absolute Chronology.

stitut) and Institut geologii AN USSR (the Institut of Geology of the AS UkrSSR). The following scientist took part in this research: A.P. Vinogradov, A.I. Tugarinov, L.V. Konlev, N.P. Semenenko, Ye.S. Burkser, M.N. Ivantishin, A.A. Polkanov, E.K. Gerling, K.O. Kratts, L.Ya. Kharitonov, N.I. Polevaya, L.N. Ovchinnikov, M.I. Garris, D.A. Velikoslavinskiy, S.V. Obruchev, M.M. Odintsov, N.A. Florensov, P.M. Khrenov and Yu.K. Dzevanovskiy. All known Pre-Cambrian formations of the USSR are divided into groups according to their age: the Pre-Cambrian formations of the Ukrainian shield form 7 age groups from 900 million to 2,600 million years old; the Baltic shield is composed of 7 age groups from 1,010 million to 3,480 million years; the Russian Plateau and Urals are composed of 5 age groups from 680 million to 1,740 million

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The Geochronology of the Pre-Cambrian Formations in the System of Absolute Chronology.

years old; the age of older formations underlying the Kursk iron series is not yet determined; Siberia has 4 age groups (table 1) from 500 to 1,900 million year old. Regional composition of each age group is given in detail. The age of similar formations of Canada and Africa are also given. According to the author, the comparison of available data on the age of all known Pre-Cambrian formations shows that there are 10 cycles of mineralization linked with 10 epochs of Pre-Cambrian folding. These epochs and cycles represent the history of the cialic Earth crust for 500 million to 3,500 million years. Each of the mineralization cycles is commensurate with folding epochs of Post-Cambrian time: Caledonian, Herzynian and Alpine, occuring during the last 500 million years. Summing up, the following 5 great planetary megacycles represent the history

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SOV/11-59-5-1/14

The Geochronology of the Pre-Cambrian Formations in the System of Absolute Chronology.

of the Earth (in millions of years): 1) fifth Post-Cambrian megacycle with 3 folding epochs - from 500 to 600; 2) fourth Pre-Cambrian megacycle with 2 folding epochs - from 500 to 1150; 3) third Pre-Cambrian megacycle with 3 folding epochs - from 1200 to 1850;4) second Pre-Cambrian megacycle with 3 folding epochs - from 1900 to 2650; 5) first Pre-Cambrian megacycle with 2(?) folding epochs - from 2650 to 3500. The duration of folding epochs and mineralization cycles is about 150 million to 400 million years (table 3). The whole Pre-Cambrian system contains huge quantities of metallic deposits. Among other minerals 75% of the gold and 60% of the iron and manganese mined are extracted from these formations. There are 3 tables and 32 references, 18 of which are Soviet, 4 American, 5 French, 1 German, 1 Swedish, 1 Finnish, 1 Mexi-

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SOV/11-59-3-1/14

The Geochronology of the Pre-Cambrian Formations in the System of Absolute Chronology.

can and 1 South African.

ASSOCIATION: Institut Geologicheskikh nauk AN USSR (the Institute of Geological Sciences of the AS UkrSSR), Kiyev.

SUBMITTED: March 31 1958

Card 5/5

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SEMENENKO, N.P. [Semenenko, M.P.]

Absolute geochronology and main stages in geological history.
Geol. zhur. 19 no.5:11-16 '59. (MIRA 13:2)
(Geological time)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.P. (SSSR)

Age of the metamorphism of rocks in the Rakhov massif. Mat. Karp.-Balk.assots. no.1:188-189 '60. (MIRA 14:12)
(Carpathian Mountains--Rocks, Crystalline and metamorphic)
(Geological time)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.P., otv.red.; KORZHINSKIY, D.S., red.; AFANAS'YEV, G.D., red.; ZAVIRYUKHINA, V.N., red.izd-va; MATVEYCHUK, A.A., tekhn.red.

[Granite-gneiss] Granito-gneisy. Kiev, Izd-vo Akad.nauk USSR, 1960. 174 p. (Doklady sovetskikh geologov. Problema 14). (MIRA 13:10)

1. International Geological Congress. 21st, Copenhagen, 1960. 2. Institut geologicheskikh nauk AN USSR (for Semenenko). 3. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR (for Korzhinskiy).
(Granite) (Gneiss)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

YURK, Yu.Yu.; SHNYUKOV, Ye.F.; LEBEDEV, Yu.S.; KIRICHENKO, O.N.; SEMENENKO, N.P., akademik, otv.red.; ISUPOVA, N.I., tekhn.red.

[Mineralogy of iron ore formation in the Kerch Basin] Mineralogiia zhelezorudnoi formatsii Kerchenskogo basseina. Simferopol', Krymizdat, 1960. 449 p. (MIRA 13:12)

1. AN USSR (for Semenenko).
(Azov Sea region--Iron ores)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

ABDULLAYEV, Kh.M., glavnyy red.; ANTROPOV, P.Ya., red.; AZIZBEKOV, Sh.A., akademik, red.; AFANAS'YEV, G.D., red.; BATALOV, A.B., doktor geol.-mineral.nauk, red.; BELYAYEVSKIY, N.A., doktor geol.-mineral. nauk, red.; KOPTEV-DVORNIKOV, V.S., doktor geol.-mineral.nauk; red.; KUZNETSOV, Yu.A., red.; MARFUNIN, A.S., kand.geol.-mineral.nauk, red.; NIKOLAYEV, V.A., red.; POLOVINKINA, Yu.I., doktor geol.-mineral. nauk, red.; RUB, M.G., doktor geol.-mineral.nauk, red.; SATPAYEV, K.I., akademik, red.; SEMENENKO, N.P., akademik, red.; KHAMRABAYEV, I.Kh., doktor geol.-mineral.nauk, red.; PANOVA, A.I., red.izd-va; KITAYENKO, L.G., red.izd-va; KALOSHINA, T.V., red.izd-va; IVANOVA, A.G., tekhn.red.

[Magmatic activity and its role in the formation of minerals] Magmatizm i sviaz' s nim poleznykh iskopaemykh; trudy. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1960. 782 p.

(Continued on next card) (MIRA 13:11)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

ABDULLAYEV, Kh.M.--- (continued) Card 2.

1. Vsesoyuznoye petrograficheskoye soveshchaniye. 2d, Tashkent. 2. Prezident Akademii nauk Uzbekskoy SSR (for Abdullayev). 3. Chleny-korrespondenty AN SSSR (for Abdullayev, Afanas'yev, Kuznetsov, Nikolayev). 4. AN Azerbaydzhanskoy SSR (for Azizbekov). 5. AN SSSR (for Satpayev). 6. AN Ukrainskoy SSR (for Semenenko). 7. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii Akademii nauk SSSR (for Afanas'yev, Marfunin, Rub). 8. Inst.geologii Akademii nauk Uzbekskoy SSR (for Batalov). 9. Laboratoriya geologii dokembriya Akademii nauk SSSR (for Nikolayev). 10. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut (for Polovinkina). 11. Institut geologii Akademii nauk Ukrainskoy SSR (for Semenenko).

(Mineralogy)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.P. [Semenenko, M.P.]

Determination of the age of Sweden's Pre-Cambrian schists by the potassium-argon method. Geol. zhur. 20 no.2:51-53 '60. (MIRA 14:5)

(Sweden--Schists)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

YURK, Yuriy Yur'yevich; SHNYUKOV, Yevgeniy Fedorovich; SEMENENKO, N.P., akademik, otv. red.; CHEKHOVICH, N.Ya., red.; DAKHNO, Yu.M., tekhn. red.

[Iron oxides in the Ukrainian Crystalline Shield] Okisly zheleza ukrainskogo kristallicheskogo shchita. Kiev, Izd-vo Akad. nauk USSR, 1961. 107 p. (MIRA 15:1)

1. Akademiya nauk USSR (for Semenenko).
(Dnieper Valley—Iron oxides)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.P.

Determining the age of Pre-Cambrain metamorphic schists in Switzerland by the potassium-argon method. Biul.Kom.po opr. abs.vozr.geol.form. no.4:56-58 '61. (MIRA 15:1)
(Switzerland--Schists)
(Geological time)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.P. [Semenenko, M.P.]; KOTLOVSKAYA, F.I. [Kotlovs'ka, F.I.]; DEMIDENKO, S.G. [Demydenko, S.H.]

Determinination of the age of metamorphic achists of the Baikal-Sayan mountainous region in the Academy of Sciences of the Ukrainian S.S.R. Geol.zhur. 21 no.6:56-57 '61. (MIRA 15:2)
(Sayan Mountains—Schists)
(Geological time—Schists)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.P.

Pre-Cambrian metallogeny. Sov.geol. 5 no.2:50-60 F '62.(MIRA 15:2)

1. Akademiya nauk USSR.
(Ore deposits)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.P.

Impact of science and technology of economic development of the Ukrainian Soviet Socialist Republic."

Report submitted to the Conf. on the Application of Science and Technology for the Benefit of the Less Developed Areas.
Geneva, Switzerland 4-20 February 1963

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.P. [Semenenko, M.P.]

Fifth Congress of the Carpatho-Balkan Geological Association held in the Rumanian People's Republic, September 4-19, 1961. Geol.zhur. 22 no.4:109-112 '62. (MIRA 15:9)

1. Institut geologicheskikh nauk AN UkrSSR.
(Carpathian Mountains--Geology--Congresses)
(Balkan Mountains--Geology--Congresses)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

N.P. SEMENENKO (USSR)

"Absolute geochronology and the history of formation of the Pre-Cambrian folded zones on the East-Europian platform."

Report presented at the Conference on Chemistry of the Earth's Crust, Moscow, 14-19 Mar 63.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.P., akademik, otv. red.; SUBBOTIN, S.I., akademik, red.; TKACHUK, L.G., doktor geol.-miner. nauk, zam. otv. red.; LAZARENKO, Ye.K., red.; BELEVTSEV, Ya.N., red.p POPOV, V.S., red.; SOLLOGUB, V.B., kand. geol.-miner. nauk, red.; ZAVIRYUKHINA, V.N., red.; MEL'NIK, A.F., red.; DAKHNO, Yu.B., tekhn. red.

[Materials of the Fifth Conference of the Carpatho-Balkan Geological Association]Materialy V s"ezda Karpato-Balkanskoi geologicheskoi assotsiatsii. Kiev, Izd-vo Akad. nauk URSR, 1962. 309 p. (MIRA 16:4)

1. Karpato-Balkanskaya geologicheskaya assotsiatsiya. 5. s"yezd.
2. Akademiya nauk Ukr.SSR (for Semenenko, Subbotin).
(Carpathian Mountains--Geology)
(Balkan Mountains--Geology)

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SEMENENKO, N.P.

[Structural geology map of the Ukrainian Crystalline Shield on a 1:1,000,000 scale] Geologo-tektonicheskaia karta Ukrainskogo kristallicheskogo shchita. Masshtab 1:1000000. Kiev, Izd-vo AN USSR, 1964. 14 p. (MIRA 17:6)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

BELYAYEVSKIY, N.A., red.; ALI-ZADE, A.A., red.; ALIYEV, M.M., red.; BAKIROV, A.A., red.; BELOUSOV, V.V., red.; BEUS, A.A., red.; BOGDANOV, A.A., red.; BORISOV, A.A., red.; BRENNER, M.M., red.; DYUKOV, A.I., red.; YERSHOV, A.D., red.; ZARIDZE, G.M., red.; KALUGIN, A.S., red.; KOSOV, B.M., red.; KOPTEV-DVORNIKOV, V.S., red.; KOTLYAR, V.N., red.; LUGOV, S.F., red.; MAGAK'YAN, I.G., red.; MARINOV, N.A., red.; MARKOVSKIY, A.P., red.; MALINOVSKIY, F.M., red.; PUSTOVALOV, L.V., red.; SATPAYEV, K.I., red.; SEMENENKO, N.P., red.; TYZHNOV, A.V., red.; KHRUSHCHOV, N.A., red.; SHCHEGOLEV, D.I., red.; YARMOLYUK, V.A., red.

[Materials on regional tectonics of the U.S.S.R.] Materialy po regional'noi tektonike SSSR. Moskva, Izd-vo "Nedra," 1964. 193 p. (MIRA 17:4)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy geologicheskiy komitet.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, Nikolay Panteleymonovich; SIROSHTAN, R.I., starshiy nauchnyy sotrudnik, otv. red.; ZAVIRYUKHINA, V.N., red.

[Metamorphism of mobile belts.] Metamorfizm podvizhnykh zon. Kiev, 1963. 256 p. (Akademiia nauk URSR, Kiev. Instytut geologichnykh nauk. Trudy. Seriia petrografii, mineralogii i geokhimii, no. 18) (MIRA 17:5)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.P.

Sixth Congress of the Carpatho-Balkan Association. Sov. geol. 7 no.5:151-155 My '64 (MIRA 18:2)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

AFANAS'YEV, G.D.; SHCHERBAKOV, D.I.; SEMENENKO, N.P.; SOBOTOVICH, E.V.; PEKARSKAYA, T.B.

Iosif Evseevich Starik, 1902-1964; obituary. Izv. AN SSSR. Ser. geol. 29 no.10:122-124 O '64. (MIRA 17:11)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.P.

[Tectonic map of the Ukrainian Crystalline Shield; 1:1,000,000] Geologo-tektonicheskaia karta Ukrainskogo kristallicheskogo shchita; 1:1000 000. Kiev, Izd-vo AN USSR, 1964. 13 p. (MIRA 17:11)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.P.; SUBBOTIN, S.I.; SOLLOGUB, V.B.; IVANTISHIN, M.N.; CHEKINOV, A.V.; LADIYEVA, V.P.

Structure of the abyssal zones of the earth's crust in the Ukrainian Crystalline Shield. Sov. geol. 7 no.11:48-60 N '64. (MIRA 18:2)

1. Institut geofiziki AN UkrSSR.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

BORDUNOV, Ivan Nikiforovich; SEMENENKO, N.P., akademik, otv.red.

[Geology of the Kremenchug iron ore region] Geologiia Kremenchugskogo zheleznorudnogo raiona. Kiev, Naukova dumka, 1964. 216 p. (Akademiia nauk URSR. Instytut geologichnykh nauk. Trudy. Seriia geologii mestorozhdenii poleznykh iskopaemykh, no.14) (MIRA 18:3)

1. AN UkrSSR (for Semenenko).

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.P., akademik, otv. red.; TKACHUK, L.G., doktor geol.-miner. nauk, zam. otv. red.; VYALOV, O.S., red.; PORFIR'YEV, V.B., red.; SUBBOTIN, S.I., red.; LAZARENKO, Ye.K., red.; BELEVTSEV, Ya.N., red.; POPOV, V.S., red.; SOLLOGUB, V.B., doktor geol.-miner. nauk, red.; CHEKHOVICH, N.Ya., red.; BYCHKOVA, R.I., red.

[Materials of the Sixth Congress of the Carpatho-Balkan Geological Association; reports of the Soviet geologists] Materialy VI s"ezda Karpato-Balkanskoi geologicheskoi assotsiatsii; doklady sovetskikh geologov. Kiev, Naukova dumka, 1965. 461 p. (MIRA 18:10)

1. Karpato-Balkanskaya geologicheskaya assotsiatsiya. 6.s"yezd. 2. AN Ukr.SSR (for Semenenko). 3. Chlen-korrespondent AN Ukr.SSR (for Lazarenko, Belevtsev, Popov).

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, N.T.

Clarification of brandy with gelatin, fish glue and bentonite. Trudy VNIIViV "Magarach" 13:143-148 '64. (MIRA 17:12)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

KRASIKOVA, V.I., kand. biol. nauk; SEMENENKO, N.Ya.; LUDANOVA, N.V., mladshiy nauchnyy sotrudnik; BORISOVA, L.F., starshiy tekhnik-laborant

Use of sorbic acid to prevent the molding of half-smoked sausage. Trudy VNIIMP no.16:240-244 '64. (MIRA 18:11)

1. Starshiy inzhener Vsesoyuznogo nauchno-issledovatel'skogo instituta myasnoy promyshlennosti (for Semenenko).

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SEMENENKO, P.; KUPRIN, P.

laboratory work in a trade school. Prof.-tekh.obr. 11 no.9:16-19 D '54. (MLRA 8:1)

1. Direktor remeslennogo uchilishcha No.1 (Dnepropetrovskaya oblast') (for Semenenko); 2. Zamestitel' direktora po uchebno-proizvodstvennoy chasti (for Kuprin).
(Technical education)

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SEMENENKO,P.; KUPRIN,P.

Future innovators. Prof.-tekh.obr.12 no.9:14-15 S'55. (MLRA 8:11)

1. Direktor remeslennogo uchilishcha no.1, Dnepropetrovskaya oblast' (for Semenenko). 2. Zamestitel' direktora po uchebno-proizvodstvennoy chasti (for Kuprin).
(Dnepropetrovsk Province--Technical education)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

VOLKOVETS, N., slesar'-sborshchik (st. Berngardovka, Leningradskaya oblast'); PAVASAR, B., plotnik (st. Simskaya, Chelyabinskaya oblast'); ADIBEKYAN, O., inzh. (Yerevan); ROGOZIN, T. (Odessa); FRADKIN, F., inzhener-mekhanik (Moskva); SEMENENKO, P., mekhanik; RADCHENKO, P., inzh.

Readers' letter exchange. Tekh.mol. 30 no.10:22-23 '62. (MIRA 15:12)

1. Kolkhoz imeni Tel'mana, Turkmenskaya SSR (for Semenenko).
(Technological innovations)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, P.; GUDOV, V.; SUKHMAN, L.; FADEYEV, I.; KOCHO, V., doktor tekhn.nauk

"Steel pourer" by D.A.Smoliarenko. Reviewed by P.Semenenko and others. Metallurg 8 no.1:39-40 Ja '63. (MIRA 16:1)
(Steel ingots)
(Smoliarenko, D.A.)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, P.A.

YEGOROV, O.G.; SEMENENKO, P.A., inzh.,red.; KLOPOVA, T.B., tekhn.red.

[Devices for mechanical stamping for identification of parts on a horizontal milling machine; practices of the Stalin Metalworking Plant in Leningrad] Prisposobleniia dlia mekhanicheskogo kleimeniia detalei na gorizontal'no-frezernom stanke; opyt LMZ imeni Stalina. Leningrad, 1955. 6 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Informatsionno-tekhnicheskii listok, no.113(801)) (MIRA 10:12)

(Metalworking machinery)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, P.A.

GUTKIN, S.T.; SEMENENKO, P.A., inzh., red.; GVIRTS, V.L., tekhn.red.

[Design of attachements permitting repeated setting up of lathes for work on a series of items] Konstruktsii prisposoblenii, dopuskaiushchikh perenaladku na gruppu detalei. Leningrad, 1955. 7 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Informatsionno-tekhnicheskii listok, no.96(784)) (MIRA 10:12)
(Lathes--Attachements)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, P.A.

DODZIN, L.I., inzh.; SEMENENKO, P.A., inzh., red.; GVIRTS, V.L., tekhn.red.

[Pneumatic device for milling sockets for plates and rear edge cutter holders] Pnevmaticheskoe prisposoblenie dlia frezerovaniia gnezda pod plastinku i zadnikh granei derzhavok reztsov. Leningrad, 1955. 10 p. (Leningradskii dom nauchnoptekhnicheskoi propagandy. Informatsionno-tekhnicheskii listok, no.69(757)) (MIRA 10:12)
(Cutting tools)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, P.A.

LIVSHITS, Pavel Yuri'yevich; FOMIN, Kirill Aleksandrovich; SEMENENKO, P.A., red., inzh.; FREGEE, D.P., tekhn.red.

[Knurling convex numerical symbols on steel disks; the practice of the "Svoboda" Plant in Leningrad] Nakatyvanie vypuklykh tsifrovykh znakov na stal'nykh diskakh; opyt Leningradskogo zavoda "Svoboda." Leningrad, 1956. 10 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Informatsionno-tekhnicheskii listok, no.42. Mekhanichskaia obrabotka metallov) (MIRA 10:12)
(Marking devices)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

KOKUSHKIN, Leonid Pavlovich, inzh.; SEMENENKO, P.A., inzh., red.; FREGER, D.P., tekhn.red.

[Pneumatic drive with nonrotating cylinder. Automatic brakes. Safety pneumatic relay.) Pnevmaticheskii privod s nevrashchiushchimsia tsilindrom. Tormoz avtomaticheskogo deistviia. Predokhranitel'noe pnevmaticheskoe rele. Leningrad, 1956. 14 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Informatsionno-tekhnicheskii listok, no.32. Mekhanicheskaia obrabotka metallov) (MIRA 10:12)
(Machine tools)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

ZVYAGIL'SKIY, Leonid Yakovlevich; YAKOVLEV, Radomir Gerontevich; SEMENENKO, P.A., inzh., red.; KUBNEVA, M.M., tekhn.red.

[Pneumatic chucks for lathes; colletless pneumatic chucks for turret lathes; colletless chucks with automatic feed for turret lathes] Pnevmaticheskie patrony k tokarnym stankam; Bestsangovyi pnevmaticheskii patron k revol'vernym stankam; Bestsangovyi patron s avtomaticheskoi podachei materiala k revol'vernym stankam. Leningrad, 1959. 14 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Mekhanicheskaia obrabotka metallov, vyp.9).

(MIRA 13:3)

(Lathes)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

RAYKHENSHTEYN, Isaak TSfan'yevich; SEMENENKO, P.A., inzh.,red.; GVIRTS, V.L., tekhn. red.

[Semiautomatic unit for cutting pipes] Poluavtomaticheskoe prisposoblenie dlia razrezki trub. Leningrad, 1960. 11 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom no.23. Seriia Obrabotka metallov rezaniem, no.4) (MIRA 14:5)

(Pipe cutting)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

KARPOV, Sergey Grigor'yevich; NEVOLIN, Pavel Pavlovich; SEMENENKO, P.A., red.; FOMICHEV, A.G., red.izd-va; BOL'SHAKOV, V.A., tekhn. red.

[Universal carriage for machining external and internal spherical surfaces on lathes and shapers]Universal'nyi support dlia obrabotki naruzhnykh i vnutrennikh sfericheskikh poverkhnostei na tokarnom i strogal'nom stankakh. Leningrad, 1961. 10 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Mekhanicheskaia obrabotka metallov, no.19) (MIRA 15:8)

(Lathes) (Shapers)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

YELISEYEV, Yevgeniy Nikolayevich; SEMENENKO, P.A., inzh., red.; SHILLING, V.A., red. izd-va; GVIRTS, V.L., tekhn. red.

[Automatic attachment for machining stepped rolls on the 1A62 lathe] Avtomaticheskoe ustroistvo dlia obtochki stupenchatykh valikov na stanke 1A62. Leningrad, 1961. 17 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Mekhanicheskaia obrabotka metallov, no.7) (MIRA 14:7)
(Lathes--Attachments)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

DRUZHININ, Viktor Aleksandrovich; SEMENENKO, P.A., inzh., red.; SHILLING, V.A., red. izd-va; GVIRTS, V.L., tekhn. red.

[Hydraulic power units and devices with hydraulic clamps] Silovye gidroagregaty i prisposobleniia s gidravlicheskimi zashimami. Leningrad, 1961. 18 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Mekhanicheskaia obrabotka metallov, no.4) (MIRA 14:7)

(Oil hydraulic machinery)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SHAMANIN, Aleksandr Vasil'yevich; SEMENENKO, P.A., inzh., red.; SHILLING, V.A., red. izd-va; GVIRTS, V.L., tekhn. red.

[Special mandrels for lathes and circular grinding machines; verbatim report of lectures] Spetsial'nye opravki dlia tokarnykh i kruglo-shlifoval'nykh stankov; stenogramma lektsii. Leningrad, 1961. 21 p. (MIRA 14:7)

(Machine tools)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

TROITSKAYA, Diana Nikolayevna; SEMENENKO, P.A., inzh., red.; SHILLING, V.A., red.izd-va; BELOGUROVA, I.A., tekhn.red.

[Cooling and lubricating metal-cutting tools with atomized liquids] Okhlazhdenie i smazka rezhushchikh instrumentov raspylennymi zhidkostiami. Leningrad, 1961. 27 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: mekhanicheskaia obrabotka metallov, no.20) (MIRA 14:12)
(Metalworking lubricants)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

GEFNER, Vitaliy Mikhaylovich; VAGIN, Andrey Grigor'yevich; SEMENENKO, P.A., inzh., red.; FREGER, D.P., red. izd-va; GVIRTS, V.L., tekhn. red.

[Pneumatic pulse machine, its parts and their manufacture] Pnevmaticheskaia impul'snaia mashina, ee detali i osobennosti ikh izgotovleniia. Leningrad, 1961. 19 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Mekhanicheskaia obrabotka metallov, no.16). (MIRA 14:12)
(Pneumatic machinery)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SKORNYAKOV, Sergey Yakovlevich; SEMENENKO, P.A., inzh., red.; SHILLING, V.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Multiple milling attachments with hydroplastic materials operated by oleo-pneumatic boosters] Mnogomestnye frezernye prisposobleniia s gidroplastom, deistvuiushchie ot pnevmogidro-usilitelia. Leningrad, 1961. 9 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Mekhanicheskaia obrabotka metallov, no.21) (MIRA 14:12)
(Milling machines—Attachments)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

ANSEROV, Mikhail Alekseyevich, dots., kand. tekhn. nauk; SEMENENKO, P.A., inzh., red.; FOMICHEV, A.G., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Mechanization and automation of machine-tool attachments; survey] Mekhanizatsiia i avtomatizatsiia stanochnykh prisposobleniii; obzor. Leningrad, 1961. 101 p. (MIRA 15:5)
(Machine tools—Attachments) (Automation)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

PANTELEYEV, Arkadiy Aleksandrovich; SEMENENKO, P.A., inzh., red.; VASIL'YEV, Yu.A., red. izd-va; GVIRTS, V.L., tekhn. red.

[Automatic control of the lapping of the central hole in plunger liners]Avtomatizatsiia dovodki tsentral'nogo otverstiia v gil'zakh plunzhera. Leningrad, 1962. 20 p. (MIRA 15:8)

(Grinding and polishing) (Automatic control)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

ZOLOTNIKOV, Ivan Mikhaylovich; SYSOYEV, Pavel Vasil'yevich; ~~SEMENENKO, P.A., inzh., red.~~; SHILLING, V.A., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Machining bodies of revolution by the face milling method] Obrabotka poverkhnostei tel vrashcheniia metodom tortsovogo frezerovaniia. Leningrad, 1962. 21 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Mekhanicheskaia obrabotka metallov, no.11) (MIRA 15:8)

(Metal cutting) (Milling machines)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

GAMUS, Moisey Zalmanovich; VEDRIN, Andrey Ivanovich; SEMENENKO, P.A., inzh., red.; SHILLING, V.A., red. izd-va; GVIRTS, V.L., tekhn. red.

[Workshop rationalization and comprehensive plans]TSekhovaia ratsionalizatsiia i kompleksnye plany. Leningrad, 1962. 24 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen metallov, no.14) (MIRA 15:8)

(Leningrad--Machine tools)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

ZLOTNITSKIY, Boris Vladimirovich; SEMENENKO, P.A., red.; VASIL'YEV, Yu.A., red. izd-va; BOL'SHAKOV, V.A., tekhn. red.

[Sectional annular drill]Sostavnoe kol'tsevoe sverlo. Leningrad, 1962. 30 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Mekhanicheskaia obrabotka metallov, no.2) (MIRA 15:8)

(Twist drills)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

YELFIMOV, Vladimir Vladimirovich; SEMENENKO, P.A., inzh., red.; FREGER, D.P., red.izd-va; BELOGURCVA, I.A., tekhn. red.

[Drilling deep holes in EI-868 (VZh-98) and EI-894 nickel-base heat resistant alloys] Sverlenie glubokikh otverstii v zharoprochnykh splavakh na nikelevoi osnove marok EI-868 (VZh-98) i EI-894. Leningrad, 1962. 15 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Mekhanicheskaia obrabotka materialov, no.5) (MIRA 16:3)

(Drilling and boring)
(Heat-resistant alloys)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SHNEYDER, Yuriy Grigor'yevich, kand. tekhn. nauk; SEMENENKO, P.A., red.

[Selecting a deformation pattern, a method, tool design and the conditions for the finishing operations in metal working by pressure] Vybor skhemy, metoda, konstruktsii instrumenta i rezhima chistovoi obrabotki davleniem. Leningrad, 1965. [illegible] p. (MIRA 18:10)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

KUZMIN, Fedor Kuz'mich; YAKOVLEV, Grigoriy Ivanovich; SEMENENKO, P.I., red.; FOMICHEV, A.G., red. izd-va; BOL'SHAKOV, V.A., tekhn. red.

[Progressive method for cutting trapezoid screw thread] Progressivnyi metod narezaniia trapetseidal'noi rezby. Leningrad, 1962. 11 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Opyt novatorov. Seriia: Mekhanicheskaia obrabotka metallov, no.4) (MIRA 15:3)

(Screw cutting)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SHEVTSOV, D.S.; ZALEVSKAYA, L.A.; GLAGOLEV, G.M.; VOLKOV, V.P.; BABININ, A.U.; SEMENENKO, P.K.; RENSKIY, N.S.

Calcining limestone in small lumps. Sakh. prom. 31 no.4:20-24 Ap '57. (MIRA 10:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti (for Shevtsov, Zalevskaya, Glagolev, and Volkov). 2. Bobrovitskiy sakharnyy zavod (for Babinin, Semenenko, and Renskiy).
(Limestone) (Limekilns)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

KAPELYUSHNYY, D.I.; SEMENENKO, P.K.

Hydrostatic method of measuring feed molasses in molasses storage tanks. Sakh.prom. 32 no.10:48-50 O '58. (MIRA 11:11)

1. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti (for Kapelyushnyy). 2. Bobrovitskiy sakharnyy zavod (for Semenenko).
(Molasses) (Gauging)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, P.P.

3(5)

AUTHORS: Baranov, V. I., Knorre, K. G. SOV/7-59-6-14/17

TITLE: Chronicle. The VIII Session of the Commission for the Determination of the Absolute Age of Geological Formations (at the Otdeleniya Geologo-geograficheskikh nauk AN SSSR (Department of Geological-geographical Sciences AS USSR), May 18 - 22, 1959, Moscow)

PERIODICAL: Geokhimiya, 1959, Nr 6, pp 562 - 563 (USSR)

ABSTRACT: The 8th regular session of the (Commission on the Determination of the Absolute Age of Geological Formations) was held in Moscow from May 18 to May 22, 1959 at the Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy). A series of summarising reports was held on age determinations in the most important parts of the USSR, which are to be presented to the 21st International Geological Congress. The following reports are concerned:

A. V. Polkanov, E. K. Gerling: Problems of the absolute age of the Precambrian of the Baltic Shield.

A. P. Vinogradov, L. V. Komlev, A. I. Tugarinov: The absolute age of the Ukrainian crystalline shield.

Card 1/4

P. P. Semenenko, Ye. S. Burkser, and M. N. Ivantishin: Age groups of the mineralization of the rocks of the Urals in their absolute age.

A. P. Vinogradov, A. I. Tugarinov, K. G. Knorre, and Ye. Y. Bibikova, V. V. Zhirova, S. I. Zykov: The age of the Precambrian rocks of the crystalline fundament of the Russian Platform.

I. Ye. Starik, A. Ya. Krylov, M. G. Ravich, Yu. I. Silin: The absolute age of the rocks of the eastern part of the Antarctic continent.

A. Ya. Krylov: The absolute age of the rocks of the Tsentral'nyy Tyan' Shan' and the employment of the argon method for metamorphous and sedimentary rocks.

G. D. Afanas'yev: Results of the geochrony formations of the Caucasus.

L. F. Ovchinnikov and M. A. Garrial: Age of the geological formations of the Urals and the Priural'ye (Cis-Urals).

N. I. Poleva and G. A. Nurina, G. A. Kazakov: Absolute age determination of the sedimentary and volcanic formations.

Card 2/4

L. F. Krasnyy and N. I. Poleva: Absolute age of the magmatic rocks of the (Soviet) Far East.

I. V. Komlev: Absolute age of the granite intrusions of Kazakhstan.

The research work of a number of laboratories, RIAN, GEOKHI, LAGED, VSEGEI, ., UFAN, etc aroused great attention, especially a report of E. K. Gerling, Yu. A. Shukolyukov on the concentration of the isotope Ar^{36} in uranium minerals as well as the comprehensive research work carried out by the vsesoyuznaya laboratoriya Akademiya nauk Gruzinskoy SSR (Laboratory of Age Determination of the Academy of Sciences of the Gruzinskaya SSR) under the application of isotopic dilution and flame photometry. The determination of the age of sedimentary rocks was discussed; A. Ya. Krylov proved in his report how well radiogenic argon is conserved in destroyed products of rocks such as boulders, sands, sandstones, clays, and muds. A. I. Tugarinov and S. I. Zykov were the first to attempt to determine the absolute age of sedimentary carbonate formations according to isotopic composition of lead.

Card 3/4

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, P.P.

130-8-9/20

AUTHOR: Sokolov, M.S., Candidate of Technical Sciences and Semenenko, P.P., Engineer.

TITLE: New Method of Lining the Bottoms of Basic Open-hearth Furnaces (Novyy metod kladki podin osnovnykh martenovskikh pechey)

PERIODICAL: Metallurg, 1957, No.8, pp. 23 - 26 (USSR)

ABSTRACT: After a brief account of the properties of melted-on and brick parts of the lining of basic open-hearth furnaces and of some attempts at improving brick joints the authors describe work at the imeni Serov (imeni Serova) Works where a "welding" composition was used. This consisted of magnesite with a proportion of mill scale which depended on the location in the furnace bottom of the joint to be made. They mention that a bottom laid in this way lasted for 7 years and 2 months melting a wide variety of steels. Later (1955) tests at the same works confirmed the advantages of this technique, which reduced metal penetration and gave an economy of about 0.2-0.3 kg of magnesite per ton of steel melted. A diagram of temperature distribution in the bottom of this furnace (found from electical analogues) is shown (Fig.4). The authors go on to give extracts from an American article describing a similar type of bottom construction and suggest that on the basis of experience at

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

133-6-7/33

AUTHORS: Semenenko, P.P., Golovanov, M.M. and Fadeyev, I.G.

TITLE: The development of the process of smelting ball bearing steel in acid open-hearth furnaces. (Usovershenstvovaniye vyplavki sharikopodshipnikovoy stali v kislykh martenovskikh pechakh).

PERIODICAL: "Stal'" (Steel), 1957, No.6, pp.503-507 (USSR).

ABSTRACT: Results of investigations of the influence of various technological factors on the content of non-metallic inclusions in ball bearing steel produced in acid open-hearth furnaces of the Serov Works are described. The influence of the following factors was studied: A) Quality of the starting materials. It was established that the contamination of steel by sulphide inclusions is more uniform than that with oxide inclusions and depends mainly on the sulphur content in the starting materials and the fuel. This contamination increases with increasing sulphur content in steel (Fig.1) and increasing temperature of the metal during tapping (Fig.2). For the above reasons only high quality pig and the purest materials as well as low sulphur fuel oil are being used for the production of this steel. The optimum temperature of metal in runner during tapping 1525-1530 C. B). Carbon content at the end of the melting

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The development of the process of smelting ball bearing steel in acid open-hearth furnaces. (Cont.) 133-6-7/33

period. Analysis of the dependence of the content of oxide inclusions on the concentration of carbon at the end of the melting period indicated that the best results are obtained at a carbon content 1.5 - 1.7% (based on data collected from 175 heats). C) Manganese practice. On the basis of data collected from a large number of heats, it was established that the contamination of metal by inclusions decreases with increasing manganese content in metal after the end of the melting and increasing content of manganese oxide in slag. Therefore, the manganese content at the end of melting should be not lower than 0.25%, during the first hour of boiling not lower than 0.16-0.18% and during the second hour of boiling not lower than 0.22%. The manganese content required is maintained by its reduction from slag and additions of manganese ore during smelting and only in exceptional cases when the above limits cannot be maintained, by ferromanganese additions. D) Slag practice. Statistical analysis of the data collected indicated that the optimum content of ferrous oxide in slag after the end of the melting period should be within the range of 16-26%. An increase in the MnO + FeO

Card 2/5

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The development of the process of smelting ball bearing steel in acid open-hearth furnaces. (Cont.) 133-6-7/33

and combinations of the above alloys) as well as treatment of metal in the runner with other reagents (soda, crushed electrodes, etc.). However, positive results were obtained only by deoxidation with silicocalcium (up to 1 kg/ton addition to furnace before ferrochromium and 1-1.5 kg/ton addition to ladle during tapping). As a result of the above improvements the proportion of defects found on the works as well as on consuming works decreased (Table 2). Frequency curves of the degree of oxide contamination of forged semis 90 x 90 mm from metal produced with and without the application of silicocalcium are shown in Fig.4. A comparison of the contamination of steel with oxide and sulphide inclusions produced in electric and open hearth furnaces is shown in Figs. 5 and 6. Acid open hearth steel is less contaminated by oxide inclusions and somewhat more contaminated by sulphide inclusions than basic electric steel. I) Changes in the degree of contamination along the height of an ingot. This problem was studied on specimens from forged semis 90 x 90 mm taken from rolled strip in places corresponding to the top, middle and bottom (2% from the back end) of an ingot. The results

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DANIKHELKA, A., doktor, inzh.; MIKHAYLOV, O.A., kand. tekhn. nauk; GONCHARENKO, N.I.; KLIMASENKO, L.S.; OYKS, G.N., prof., doktor tekhn. nauk; SEMENENKO, P.P.; MOROZOV, A.N., prof., doktor tekhn. nauk; GLINKOV, M.A., prof., doktor tekhn. nauk; KAZANTSEV, I.G., prof., doktor tekhn. nauk; KOCHO, V.S., prof., doktor tekhn. nauk; ENEKESH, Sh., kand. tekhn. nauk; MOROZENSKIY, L.I., kand. tekhn. nauk; GURSKIY, G.V.; SPERANSKIY, V.G.; NOVIK, L.M., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; SHNEYEROV, Ya.A., kand. tekhn. nauk; PAPUSH, A.G., kand. tekhn. nauk; MAZOV, V.F.; SAMARIN, A.M.

Discussions. Biul. TSNIICHM no.18/19:17-35 '57. (MIRA 11:4)

1. Glavnyy staleplavil'shchik Ministerstva metallurgicheskoy promyshlennosti i rudnikov Chekhoslovatskoy respubliki (for Danikhelka). 2. Direktor Tsentral'nogo instituta informatsii chernoy metallurgii (for Mikhaylov). 3. Direktor Ukrainskogo instituta metallov (for Goncharenko). 4. Glavnyy staleplavil'shchik Kuznetskogo metallurgicheskogo kombinata (for Klimasenko). 5. Zaveduyushchiy kafedroy metallurgii stali Moskovskogo instituta stali (for Oyks). 6. Zamestitel' glavnogo inzhenera zavoda im. Serova (for Semenenko). 7. Zaveduyushchiy kafedroy metallurgii stali Chelyabinskogo politekhnicheskogo instituta (for Morozov). 8. Zaveduyushchiy kafedroy metallurgicheskikh pechey Moskovskogo instituta stali (for Glinkov). 9. Zaveduyushchiy kafedroy metallurgii stali Zhdanovskogo metallurgicheskogo instituta (for Kazantsev). 10. Zaveduyushchiy kafedroy metallurgii stali Kiyevskogo politekhnicheskogo instituta (for Kocho). (Continued on next card)

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DANIKHELKA, A.--(continued) Card 2.

11. Nachal'nik tekhnicheskogo otdela Ministerstva chernoy metallurgii Vengerskoy Narodnoy Respubliki (for Knekesh). 12. Zamestitel' direktora Novotul'skogo metallurgicheskogo zavoda (for Gurskiy). 13. Nachal'nik tekhnicheskogo otdela zavoda "Dneprospetsstal' (for Speranskiy). 14. Institut metallurgii im. Baykova AN SSSR (for Novik). 15. Nachal'nik staleplavil'noy laboratorii Ukrainskogo instituta metallov (for Shneyerov). 16. Nachal'nik laboratorii po nepreryvnoy razlivke stali Zhdanovskogo filiala TSentral'nogo nauchno-issledovatel'skogo instituta Ministerstva stroitel'noy promyshlennosti (for Papush). 17. Nachal'nik martenovskogo tsekha zavoda "Zaporozhstal'" (for Manov). 18. Zemestitel' direktora Instituta metallurgii im. Baykova AN SSSR, chlen-korrespondent AN SSSR (for Samarin).

(Steel--Metallurgy)

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SEMENENKO, P.P.

25(2); 18(3) PHASE I BOOK EXPLOITATION SOV/1573

Kokarev, Nikolay Ivanovich, Petr Pimenovich Semenenko, Nikolay Georgiyevich Kamkin, and Yevgeniy Stepanovich Popov

Uluchsheniye konstruktsiy i ekspluatatsii martenovskikh pechey s osnovnymi svodami (Improvements in Design and Operation of Open-hearth Furnaces With Basic Roofs) Sverdlovsk, Metallurgizdat, 1958. 55 p. 3,000 copies printed.

Ed.: S.D. Fedorov; Ed. of Publishing House: B.E. Berman; Tech. Ed.: Ye.M. Zef.

PURPOSE: The book is intended for foremen in open-hearth furnace shops and may be of use to production engineers and for students of vuzes and tekhnikums.

COVERAGE: In this book the author examines the problems of improving the design of open hearth furnaces with magnesiochromite basic roof linings. It has been established that open-hearth furnaces

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with such roof linings perform better than similar furnaces with Dinas brick roof linings. The data presented by the Metallurgical Kombinat imeni A.K. Serov indicate that the new lining is three times more durable than the old. To take full advantage of the new lining it was thought necessary to redesign and improve the efficiency of the fuel ducts and burner ports. The importance of the proper thermal regime, slag control, and the fundamentals of the proper pouring technique of quality steel are explained. The text contains numerous diagrams, charts, and illustrations. There are 8 Soviet references. No personalities are mentioned.

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SOV/137-59-5-9885

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, p 60 (USSR)

AUTHORS: Kokarev, N.I., Semenenko, P.P., Kapichev, A.G.

TITLE: Improved Design of Open Hearth Furnace Heads

PERIODICAL: Prom. ekon. byul. Sovnarkhoz Sverdl. ekon. adm. r-na, 1958, Nr 7, pp 45 - 48

ABSTRACT: The author describes a 3-channel burner head of the Metallurgical Combine imeni Serov where compressed air injects preheated regenerative air into the gas caisson through two outlet channels located at the caisson level. Another improvement of the head consists in the injection of hot air through apertures which connect the gas caisson directly with the vertical air ducts. The author describes the UPI heads having double lateral injection of hot air and an injector mounted in the head vault. The injectors ensure that the caissons are supplied with ≥ 10% of the total amount of air entering the furnace. The injection of air and the partial combustion of the fuel accelerate the rate of gas discharge to 55 - 65 m/sec; the flame temperature

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Improved Design of Open Hearth Furnace Heads SOV/137-59-5-9885

increases by 35 - 50°C at the first aperture; the heat flows falling upon the pool increase by 5 - 8%. There are technical and economical data on the operation of open-hearth furnaces with various designs of the heads used at MMK and the Combine imeni Serov. The new heads raise the efficiency of the furnaces and reduce the specific fuel consumption. See RZhMet, 1957, Nr 3, 3665.

G.G.

Card 2/2

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SOV/133-58-7-6/27

AUTHORS: Dolkart, F.Z., Semenenko, P.P., Slesarev, S.G. and Fadeyev, I.G.

TITLE: The Use of Martenite for Repairs of the Bottom of Open-hearth Furnaces (Primeneniye martenita dlya remonta podin martenovskikh pechey)

PERIODICAL: Stal', 1958, Nr 7, pp 604 - 606 (USSR)

ABSTRACT: In conjunction with the beginning of production of martenite on the "Magnezit" works, its suitability for repairs of open-hearth bottoms was tested as since previous tests in 1946-1947, operating conditions of open-hearth furnaces have changed (intensification of the smelting process). The tests were carried out on the Serov Works on 135-ton furnaces with magnesite-chromite and mixed roofs, fired with a carburised mixture of blast-furnace and brown coal-producer gas, operating the scrap ore process with 55-60% of hot pig. Usually, repairs of bottoms were done every 8 days. Chemical composition and size distribution of the martenite used for the tests - Table 1, and data on the tests - Table 2. A comparison of the chemical composition of sintered samples, taken from furnace bottoms, repaired with martenite and with a magnesite open-hearth slag

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The Use of Martenite for Repairs of the Bottom of Open-hearth Furnaces

mixture - Table 3. The use of martenite decreased by 0.7% the time required for repairs due to a faster sintering of the second layer, as martenite sinters approximately twice faster than the usual mixture of magnesite with slag. The results obtained were satisfactory. For further improvement of martenite, a decrease in its silica content and an increase in magnesia content is recommended. There are 3 tables and 3 Soviet references

ASSOCIATION: Vsesoyuznyy institut ogneuporov i metallurgicheskiy kombinat im. Serova (All-Union Refractory Institute and Metallurgical Combine imeni Serov)

1. Open hearth furnaces--Maintenance 3. Martensite--Applications

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SOV/133-59-4-5/32

AUTHORS: Kokarev, N.I., Candidate of Technical Sciences, Docent, Kapichev, A.G., Lisiyenko, V.G., Semenenko, P.P., and Tyulebayev, V.G., Engineers

TITLE: Thermotechnical Investigation of Open Hearth Furnace Jet Nozzles Injecting Air Into Gas Ports (Teplotekhnicheskiye ispytaniya golovok s inzhektsiyey vozdukha v gazovyy prolet)

PERIODICAL: Stal', 1959, Nr 4, pp 306-311 (USSR)

ABSTRACT: The results of experiments with various types of jet nozzles with injection of preheated or cold air are described. The designs of jet nozzles tested are shown in Fig 1 and table 1. Hot air from regenerators was supplied through special flues lined with refractory bricks and is introduced into the port through a special tuyere mixer, as an injection medium compressed air was used. It was found that: 1) at a pressure of compressed air of about 2.5 atm and its consumption of 330 n m^3/hr, about 1650 n m^3/hr of preheated air is injected into the gas port. This amounts to about 10% of the total amount of air supplied to the furnace;

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Thermotechnical Investigation of Open Hearth Furnace Jet Nozzles Injecting Air Into Gas Ports

2) during the period when the waste gas is passing through the gas port, the tuyere of the injector can pass from the air flue to the gas flue about 1200 n m^3/hr of waste gas; this amounts to 5 to 7% of the total amount of the waste gas; 3) the injection of cold air into the gas port is accompanied by an increase (in comparison with a Venturi type port) in the flame temperature at the first door of 20 to 25°C while the injection of hot air - by an increase of 40 to 50°C (Fig 2 and 3). This increases the flow of heat to the bath with cold air by 3% and with hot air up to 8% (at the first door) Fig 4. Simultaneously, the heat absorption of the bath also increases see Fig 5; 4) the injection of air into the gas port leads to a partial combustion of fuel in the port and to a decrease in the proportion of not completely burned fuel (table 2); 5) when injecting hot air the dynamic pressure of the stream of gas at the outlet from the port increases approximately 1.5 times. The increase in the dynamic pressure and the temperature of the flame leads to an increase in the flame velocity see Fig 7; 6) with increasing pressure of compressed

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Thermotechnical Investigation of Open Hearth Furnace Jet Nozzles Injecting Air into Gas Ports

air in the injector the static pressure in the gas uptake also increases (Fig 8); 7) with the injection of hot air into the gas port the duration of heats decreases and the productivity of furnaces increases (in comparison with operation with the Venturi type port or with the injection of cold air). It is considered that the experiments should be continued in order to establish the most rational placing of the injecting tuyeres to decrease dust deposition in the tuyeres to a minimum. There are 8 figures and 2 tables.

ASSOCIATION: Ural'skiy Politekhnicheskiy Institut i Metallurgicheskiy Kombinat im. A.K.Serova (Ural Polytechnical Institute and the Metallurgical Combine imeni A.K.Serov)

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SOV/133-60-1-9/30

AUTHORS: Filatov, V. P., Semenenko, P.P. (Engineers), Kokarev, N. I. (Candidate of Technical Sciences), and Kapichev, A. G., Aleksandrov, S. F. (Engineers)

TITLE: Smelting High-Quality Open-Hearth Steels Using Moderate and High-Sulfur-Content Mazut

PERIODICAL: Stal', 1960, Nr 1, pp 36-39 (USSR)

ABSTRACT: This is a report concerning the experience of substituting blast furnace gas in open-hearth process by the comparatively cheap high-sulfur-content mazut (Russian petroleum residue used as fuel oil) of Ural-Volga origin. It was established that the successful combustion of high-sulfur-content mazut requires conditions assisting the transition of the sulfur of the fuel into sulfurous anhydride (which is considerably more stable than H_2S, CS_2, and COS) directly at the root of the flame. This can be achieved by careful mixing of air and atomized mazut,

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Smelting High-Quality Open-Hearth Steels Using Moderate and High-Sulfur-Content Mazut

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by short flame combustion of the mixture (in the vicinity of the burner head), or by preliminary gasification of mazut. The conversion of open-hearth furnaces to High-sulfur-content mazut was preceded by the development of the UPI burner heads design (N. I. Kokarev, P. P. Semenenko, and A. G. Kapichev, Industrial-Economic Bulletin, Sverdlovsk Council of the National Economy, TsBTI, 1958, Nr 7). As a result of this work the 25- and 160-ton open-hearth furnaces were converted to high-sulfur-content mazut (2.3-2.8% S). They produced the 20P, 12Kh2N4A, 30KhGSA, 20Kh2N4A, E1366, E194 composition not given, and other steels with sulfur content not over 0.025-0.035% and the metal for acid processing ($\leq$ 0.015-0.020% S) with some decrease of melt duration. Using the experience of the Magnitogorsk Combine, the 160-ton furnace was converted from gas-mazut firing to pure mazut firing without any substantial changes in the design of the lower part or in the "gas head" (see Fig. 1).

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Smelting High-Quality Open-Hearth Steels Using Moderate and High-Sulfur-Content Mazut

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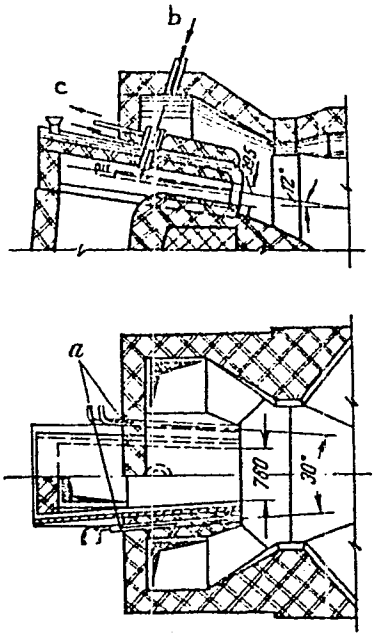

Fig. 1. The head of 160-ton open-hearth furnace for burning mazut without its preliminary gasification. (a) Oil burner UPI-K; (b) compressor air feed; (c) inlet and outlet of water.

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Smelting High-Quality Open-Hearth Steels Using Moderate and High-Sulfur-Content Mazut

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The mazut oil burners UPI-K were installed in the sides of the former gas port. A high-pressure blower supplied primary air to the "fire head" through former gas regenerator. The secondary air was fed into the furnace through air regenerator. In the same alternate design of the furnace the existing "heads" were used for the first time for gasification of mazut in the gas uptake of the former gas port. The gasification of mazut in the head of 25-ton furnace was adapted since 1958. The air mazut atomized by the compressor (pressure not less than 1.5 atm gage) was delivered by the vertical oil burners (see Fig. 2) to meet with the 1,100° C primary air coming from the former gas regenerator. In the zone where the flows of atomized mazut and hot air meet, an intense combustion takes place, accompanied by the sharp raise of temperature (up to 1,550-1,750° C), evaporating and gasifying mazut.

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Smelting High-Quality Open-Hearth Steels Using Moderate and High-Sulfur-Content Mazut

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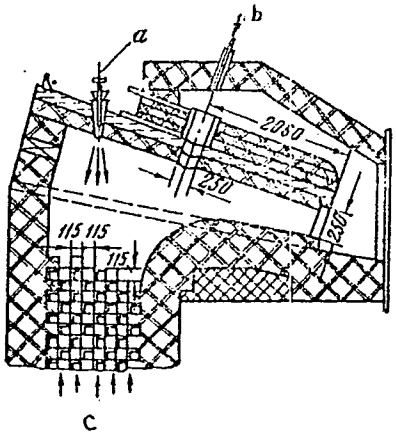

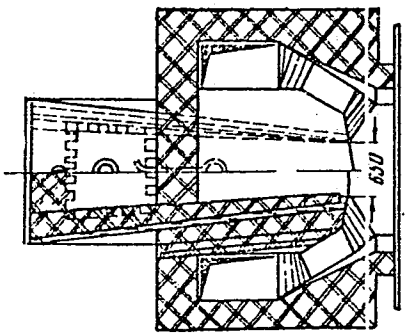

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Smelting High-Quality Open-Hearth Steels Using Moderate and High-Sulfur-Content Mazut

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Fig. 2. A head of a 25-ton open-hearth furnace for firing with gasified mazut: (a) Oil burner UPI-K; (b) compressed air; (c) primary air (preheated).

The possibility of gasification of mazut permitted the utilization of the high-sulfur-content mazut for smelting of high-quality steels with moderate sulfur content and the accelerated sulfur removal during finishing (see Fig. 3).

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Smelting High-Quality Open-Hearth Steels Using Moderate and High-Sulfur-Content Mazut

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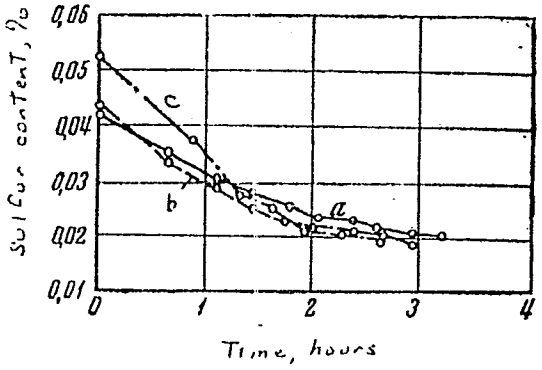

Fig. 3. Curves of desulfurization of metal (charge pig for acid processing) in the course of melting in the 160-ton furnace fired by: (a) mixture of blast furnace gas and mazut (0.8-2.2% S); (b) mazut without gasification (0.9-2.8% S); (c) gasified mazut (0.9-2.6% S).

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Smelting High-Quality Open-Hearth Steels Using Moderate and High-Sulfur-Content Mazut

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The authors arrived at the following conclusions: (1) The developed method of firing the open-hearth furnaces by moderate and high-sulfur content mazut permits the production of high-quality steels with sulfur content of 0.020 up to 0.035% and the metal for acid processing (charge pig with 0.015-0.020% S). (2) To decrease the transition of sulfur of the fuel into the slag and metal, a high completeness and intensity of combustion should be attained. This provides for transition of sulfur compounds into SO_2 before the contact of gas with the surface of slag and metal. (3) The adapted gasification of mazut can be achieved in former gas uptakes of UPI heads equipped by special injecting devices for increasing the velocity of mazut gas discharge and for the required distribution of the products of combustion over the former gas and air regenerators. (4) The efficiency of combustion of liquid high-sulfur-content mazut directly in the working space

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FILATOV, V.P.; SEMENENKO, P.P.; BARYSHNIKOV, G.I.; GUDOV, V.I.

Rammed open-hearth furnace bottom. Metallurg 7 no.5:16-18 My '62. (MIRA 15:5)

1. Metallurgicheskiy kombinat imeni A.K. Serova.
(Open-hearth furnaces--Maintenance and repair)

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FILATOV, V.P.; SEMENENKO, P.P.; BARYSHNIKOV, G.I.; GUDOV, V.I.

Fritting new bottoms in open-hearth furnaces. Metallurg 7 no.8:14-16 Ag '62. (MIRA 15:9)
(Open-hearth furnaces--Maintenance and repair)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

PETROV, K.M.; DYAKONOV, V.I.; FADEYEV, I.G.; SEMENENKO, P.P.; KRYUKOV, L.G.; Prinimali uchastiye: PASTUKHOV, A.I.; SHISHKINA, N.I.; PAZDNIKOVA, T.S.; CHIRKOVA, S.N.; KAREL'SKAYA, T.A.,; LOPTEV, A.A.; DZEMYAN, S.K.; ISUPOV, V.F.; BELYAKOV, A.I.; GUDOV, V.I.; SUKHMAN, L.Ya.; SLESAREV, S.G.; GOLOVANOV, M.M.; GLAGOLENKO, V.V.; ISUPOVA, T.A.; ZYABLITSEVA, M.A.; KAMENSKAYA, G.A.; POMUKHIN, M.G.; UTKINA, V.A.; MANEVICH, L.G.

Vacuum treatment of alloyed open hearth steel. Stal' 22 no.2:113-117 F '62. (MIRA 15:2)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov (for Pastukhov, Shishkina, Pazdnikova, Chirkova, Karel'skaya, Loptev, Dzemyan). 2. Metallurgicheskiy kombinat im. A.K. Serova (for Isupov, Belyakov, Gudov, Sukhman, Slesarev, Golovanov, Glagolenko, Isupova, Zyablitseva, Kamenskaya). 3. 6-y Gosudarstvennyy podshipnikovyy zavod (for Pomukhin, Utkina, Manevich).

(Steel--Metallurgy)
(Vacuum metallurgy)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

KOKAREV, N.I.; KAPICHEV, A.G.; KITAYEV, B.I.; SEMENENKO, P.P.; ALEKSANDROV, S.F.; POPOV, Ye.S.

Use of compressed air for the acceleration of thermal processes in open-hearth furnaces. Trudy Inst. met. i obog. AN Kazakh. SSR 5:149-154 '62. (MIRA 15:11)

1. Ural'skiy politekhnicheskiy institut i Metallurgicheskiy kombinat im. A.K. Serova.
(Open-hearth furnaces) (Heat—Transmission)

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FILATOV, V.P.; SEMENENKO, P.P.; BARYSHNIKOV, G.I.; GUDOV, V.I.

Repair of basic open-hearth furnace hearth bottoms by fine-grained refractory powders. Metallurg 7 no.12:11-13 D '62. (MIRA 15:12)

1. Metallurgicheskiy kombinat im. A.K.Serova.
(Open-hearth furances--Maintenance and repair)
(Refractory materials)

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ZHURAVLEV, V.S.; PODKOVYRKIN, I.L.; SEMENENKO, P.P.; TULUYEVSKIY, Yu.N.; TYULEBAYEV, V.G.; CHEKANOVSKIY, M.L.

Automatic control of heat conditions in open-hearth furnaces with the use of alpha-indicators. Metallurg 8 no.6:13-15 Je '63. (MIRA 16:7)

1. Metallurgicheskiy kombinat imeni A.K. Serova i Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii.
(Open-hearth furnaces) (Automatic control)

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KAPICHEV, A.G.; KOKAREV, N.I.; KITAYEV, B.I.; SEMENENKO, P.P.

Sulfur balance in an open-hearth furnace heated with mazut.
Izv. vys. ucheb. zav.; chern. met. 6 no.12:182-194 '63.
(MIRA 17:1)

1. Ural'skiy politekhnicheskiy institut i Metallurgicheskiy kombinat im. A.K. Serova.

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KAPICHEV, A.G.; KOKAREV, N.I.; KITAYEV, B.I.; SEMENENKO, P.P.; POLUYAN, P.N.

Results of testing the thermodynamics of mazut-heated open-hearth furnaces. Stal' 23 no.3:218-221 Mr '63. (MIRA 16:5)

1. Ural'skiy politekhnicheskiy institut im. S.M.Kirova i Metallurgicheskiy kombinat im. A.K.Serova.
(Open-hearth furnaces--Equipment and supplies)
(Thermodynamics)

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PROKHORENKO, Kim Kondrat'yevich; VERKHOVTSEV, Emil' Vladimirovich; BAKUMENKO, Sergey Panteleyevich; VASIL'YEV, Nikolay Yegorovich; ISHCHUK, Nikolay Yakovlevich; FADEYEV, Ivan Gavrilovich; NOSOV, Viktor Aleksandrovich; SEMENENKO, Petr Pimenovich; ISUPOV, Vasiliy Fedorovich

[Making and pouring quality steels] Vyplavka i razlivka kachestvennykh stalei. Moskva, Izd-vo Metallurgiia, 1964. 200 p. (MIRA 17:8)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

ISUPOV, V.F., inzh.; NOSOV, V.A., inzh.; SUKHMAN, L.Ya., inzh.; SMIRNOV, L.A., inzh.; CHEPURNOVA, A.A., inzh.; Prinimali uchastiye: SEMENENKO, P.P.; GLAGOLENKO, V.V.; KOROSTELEV, S.K.; VOLOSNIKOV, B.M.; BELYAKOV, A.I.; FADEYEV, I.G.; ROMANOV, A.A.

Use of lightweight grog firebrick for the lining of riser heads. Stal' 22 no.6:517-518 Je '62. (MIRA 16:7)

1. Metallurgicheskiy kombinat im. Serova i Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov.
(Steel ingots) (Refractory materials)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

KAPICHEV, A. G.; KOKAREV, N. I.; KITAYEV, B. I.; CHEKANOVSKIY, M. L.; SEMENENKO, P. P.; KAMKIN, N. G.; KUT'IN, V. B.

Results of testing heat processes in open-hearth furnaces heated by gasified mazut. Izv. vys. ucheb. zav.; chern. met. 7 no.6:173-178 '64. (MIRA 17:7)

1. Ural'skiy politekhnicheskiy institut.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

KAPICHEV, A.G.; LISIYENKO, V.G.; KOKAREV, N.I.; KITAYEV, B.I.; SEMENENKO, F.P.; KUT'IN, V.B.

Investigating radiation characteristics of a flame under various methods of burning mazut in an open-hearth furnace. Stal' 24 no.11: 1046-1049 N '64. (MIRA 18:1)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova i Metallurgicheskiy kombinat im. A.K. Serova.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, P.P.; BARYSHNIKOV, G.I.; FILATOV, V.P.; BAS'YAS, I.P.; FREYDENBERG, A.S.; GUDOV, V.I.; TARNOVSKIY, G.A.

Ramming the upper working layer of open-hearth furnace hearths. Metallurg 10 no.4:14 Ap '65. (MIRA 18:7)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

GRANZHAN, V.A.; SEMENENKO, S.V.

Static dielectric constant of methyl esters of lower dicarboxylic acids. Zhur. struk. khim. 6 no.3:451-453 My-Je '65. (MIRA 18:8)

1. Filial Instituta azotnoy promyshlennosti i produktov organicheskogo sinteza g. Sverodonetsk.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, T.A.

Unloading limestone at sugar refineries. Sakh.prom.31 no.9:65 S '57. (MIRA 10:12)

1. Chupakhovskiy sakharnyy zavod.
(Limestone)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, T.N.

Distribution dynamics of heteroauxin in the organs of Vyatka winter wheat during its individual development. Nauch. dokl. vys. shkoly; biol. nauki no.2:143-146 '62. (MIRA 15:5)

1. Rekomendovana kafedroy darvinizma Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.
(INDOL ACETIC ACID) (WHEAT)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001547810008-7

SEMENENKO, T.N.

Changes in the ascorbic acid content of various organs in cereal plants during their growth and development. Nauch.dokl.vys. shkoly; biol.nauki no.4:124-128 '62. (MIRA 15:10)

1. Rekomendovana kafedroy darvinizma Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.
(ASCORBIC ACID) (GRAIN)

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