"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

DENES, Ivan, dr.; TUNKL, Erika, dr.

Modified permanganate reaction in diagnostic examination of the cerebrospinal fluid. Idegguogy szemle 17 no.2:45-50 F'64.

1. Orvostavabbkepzo Intezet Idegosztalyanak kozlemenye.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

YUGOSLAVIA/Microbiology - Microbes Pathogenic for Man and Animals. Bacteria. Mycobacteria. F

Abs Jour : Ref Zhur Biol., No 22, 1958, 99503

Author : Forsek, Z., Tunkl, B., Romic, Z.
Inst : -
Title : Testing of Bovine Tuberculin on Artificially Sensitized Cattle. I. Sensitization of Cattle with Killed Tubercle Bacteria

Orig Pub : Veterinaria (Jugosl.), 1957, 6, No 4, 55

Abstract : No abstract.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNKLI, Laszlo

Five years of teaching psychology in secondary schools, 1957-1962. Magy pszichol szemle 20 no.1:142-147 '63.

1. Eotvos Lorand Tudomanyegyetem Bolcseszettudomanyi Kar Lelektani Tanszek.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

MIOCKA, Olga; TUNKL, Mira; POPOVIC, S.; SIMONOVIC, I.

Synthesis and labeling glycerin trioleate with radioactive iodine. Prim. radioactiv. izotop. 2 no.3:44-48 D '61.

1. Interna klinika, Radioizotopni odjel, Zagreb, Rebro.
(TRIOLEIN) (IODINE ISOTOPES)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNKINA, T.V.;

Peronospora fungi of Apsheron. Trudy Inst.bot.AN Azerb.SSR 19: 67-111 '55. (MLRA 9:8)

(Apsheron Peninsula--Peronosporales)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

YUGOSLAVIA

TUNKL, B.; ALERAJ, Z. and PAUKOVIC, C.; Veterinary Institute (Veterinarski Institut) Zagreb.

"Use of Attenuated Fowl-Pox Virus in Preventing Fowl Pox in Poultry Farms."

Belgrade, Veterinarski Glasnik, Vol 20, No 7, 1966; pp 521, 525.

Abstract [English summary modified]: Study with an attenuated strain of fowl-pox virus, lyophilized, passaged through chorioallantoic membrane and injected s.c.; very good results as measured by degree and persistence of immunity in 742500 birds. Table. Manuscript received 11 May 66.

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

HUNGARY

TUNKLI, Laszlo, of the Chair for Psychology at the Department of Philosophy, ELTE [Eotvos Lorand Tudomanyegyetem; Eotvos Lorand University] (Bolcsoszettudomanyi Kar Lelektani Tanszek), Budapest.

"Five Years of Psychology Classes in High Schools"

Budapest, Magyar Pszichologiai Szemle, Vol 20, No 1, 1963, pp. 142-147.

Abstract: Courses in psychology are offered in Hungarian High Schools since 1957. The evaluation of the first five years' experiences were reviewed. Thirty-one references, including 29 Hungarian, 1 Russian, and 1 Polish.

1/1

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

COUNTRY: Bulgaria
CATEGORY: H-25

ABS. JOUR. : RZKhim., No. 5 1960, No. 19646

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : A device is proposed for the automatic and continuous control of the transparency of the L. A portion of the finished product stream leaving the last centrifuge is separated into two streams which are sent to the cuvettes of two identical photometers with photocells of identical characteristics. One of the L streams is passed through an effective filter before entering the cuvette, and the product in that particular cuvette therefore serves as the standard. The L stream entering the second

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNKOV, B. N.

N/5
615.911
.L11

Vyplavka stali dlya fasonnogo lit'ya (Smelting Steel For Mold Casting, By) B. N. Ladyzhenskiy (1) B. N. Tunkov. Moskva, Mashgiz, 1954.

362 p. illus., diagrs., tables.

"Literatura": p. 378-(380)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

185T92

USSR/Metals - Steel, Casting Feb 51

"From the Practice of Manufacturing Steel Castings of Higher Strength," L. N. Podvoyskiy, and V. P. Tunkov, Engineers, "Serp i Molot" Plant

"Litey Proiz" No 2, pp 2-5

Describes and discusses numerous exptl melts of medium-carbon steel. Steel was made by both acid elec-arc and basic open-hearth processes. Establishes deoxidation by diffusion as best method and details procedure. Diffusion deoxidation results in min content of oxygen in metal at moment of addn of aluminum which factor provides for

185T92

USSR/Metals - Steel, Casting (Contd) Feb 51

complete assimilation of aluminum and for min contamination of metal with alumina. Illustrated by numerous diagrams and tables.

185T92

TUNKOV, V. P.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNKOV, V. P.

PA 233T73

USSR/Metallurgy - Stee, Properties Sep 52

"Properties of Cast High-Manganese Steel," L. N. Podvoyskiy, Engr, V.P. Tunkov, Engr, Stalin Prize Laureate

"Litey Proizvod" No 9, pp 3-7

Discusses structure, mech properties, and wear resistance of steel with 1.2% C and 12% Mn. Studies influence of chem compn on impact strength and wear resistance. Discusses effect of C, Mn, Si and P contents on crack formation in castings, and suggests decrease in P content

233T73

as measure for reducing rejection of castings due to cracks, for which purpose 25% of total ferromanganese has to be replaced with equal amt of silicomanganese usually contg considerably smaller P percentage.

233T73

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNKOV, V. P. and LADYZHENSKIY, B. V.

TUNKOV, V.P.

"Steel Smelting for Shaped Casting," Sci. and Tech. State Publ. House for Literature on Machine Construction, Moscow, 1954.

Translation of Table of Contents and summary of context - D-257848, 6 Jul 55

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNKOV, V.P.

LADYZHENSKIY, B.N., kandidat tekhnicheskikh nauk; TUNKOV, V.P., laureat Stalinskoy premii, inzhener; BIDULYA, P.N., doktor tekhnicheskikh nauk, professor, retsenzent; KONOPASEVICH, V.A., inzhener, redaktor; MODEL', B.I., tekhnicheskiy redaktor

[Smelting steel for mold casting] Vyplavka stali dlia fasonnogo lit'ia. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 382 p. (MLRA 7:10)

(Steel castings)
(Smelting)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNKOV, V.P. (Author)

DYATLEV, V.N.; SOKOLOV, F.S.; TUNKOV, V.P., inzhener, retsenzent; KRYLOV, V.I. inzhener, redaktor; ADRYANOVA, V.P., inzhener, redaktor; POPOVA, S.M. tekhnicheskiy redaktor.

[Repairing flaws in steel and nonferrous castings] Ispravlenie porokov stal'nogo i tsvetnogo lit'ia. Moskva, Gos. nauchno-tekhn izd-vo mashinostroit. lit-ry, 1955. 131 p. (MLRA 8:8)
(Founding)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

BORISOV, V.V.; KORROL', V.V.; TUNKOV, V.P.; TVIROV, V.I.

Deoxidation of steel by aluminum-silicon. Stal' 25 no.8:210 S '65. (MIRA 18:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii i Metallurgicheskiy zavod "Serp i molot".

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

BASHKIN, N.Ya.; KOVALEVA, L.S.; SUKHOTIN, B.N.; TUNKOV, V.P.; CHURAKOV, A.I.

Results of using open-hearth briquets instead of lump ore.
Stal' 24 no.10:889-890 O '64. (MIRA 17:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

GRABAR', L.P.; ZAYTSEVA, A.D.; TUNKOV, V.P.

Revealing the relation of the magnetic properties of low-carbon electrical steel to technological factors with the help of mathematical statistics. Stal' 23 no.5:416-418 My '63. (MIRA 16:5)

(Steel—Magnetic properties)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNKOV, V.P.

PHASE I BOOK EXPLOITATION SOV/6363

Zhetvin, Nikita Petrovich, Vladimir Pavlovich Tunkov, Mikhail Andreyevich Pertsev, Aleksey Ivanovich Paisov, and Lev Nikolayevich Podvoyskiy

Tekhnicheski chistoye zhelezo (Armco Iron) Moscow, Metallurgizdat, 1962. 198 p. Errata slip inserted. 2750 copies printed.

Ed.: L. Sh. Kazarnovskiy; Ed. of Publishing House: A. L. Ozeretskaya; Tech. Ed.: A. I. Karasev.

PURPOSE: The book is intended for engineering personnel at metallurgical and machine-building plants. It may also be used by students at schools of higher education and tekhnikums studying metallurgy, machine building, and electrical equipment.

COVERAGE: The book reviews methods of melting, rolling, and heat treating low-carbon electrical steel and pertinent problems of its physical metallurgy. The effect of various impurities and heat treatment on magnetic and

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

technological properties of sheets and bars made from this steel is discussed. Suggestions are made on the selection of optimal conditions for heat treatment of low-carbon electrical-steel products and on the improvement of their quality. The assistance of P. Ya. Barzdayn, G. V. Sviridov, O. N. Sokolov, I. I. Fomin, B. N. Sukhotin, L. I. Krylova, Ye. P. Kapustina, Ya. L. Frid, B. M. Maksimov, Ye. M. Kontsevaya, A. D. Zaytseva, I. I. Yelin, I. M. Romanov, N. S. Safronov, A. R. Krylova, B. S. Brusilovskiy, K. N. Belousov, I. B. Tseytlin, and other engineers of the "Serp and Molot" Plant is acknowledged. There are 147 references, mostly Soviet.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

ZHETVIN, N.P., kand.tekhn.nauk; TUNKOV, V.P., inzh.; PAISOV, A.I., inzh.

Nonaging low-carbon electrical steel. Metalloved. i term. obr. met. no.5:21-22 My '62. (MIRA 15:5)

1. Zavod "Serp i molot" i Moskovskiy aviatsionnyy tekhnologicheskiy institut.

(Steel—Magnetic properties)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

SOKOLOV, O.N.; TUNKOV, V.P.; FOMIN, I.I.

Making charge iron in basic open-hearth furnaces. Metallurg 7 no.1: 21-23 Ja '62. (MIRA 15:1)

1. Metallurgicheskiy zavod "Serp i molot".
(Iron--Metallurgy) (Open-hearth furnaces)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

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E073/E535

12 1141

AUTHORS: Zhetvin, N.P., Candidate of Technical Sciences, Tunkov, V.P., Engineer and Paisov, A.I., Engineer

TITLE: Non-ageing low-carbon electrical steel

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, no.5, 1962, 21-22

TEXT: The best method of preventing magnetic ageing is to combine nitrogen into stable aluminium nitrides. Introduction into the ladle of large quantities of aluminium causes intensive contamination of the steel by nonmetallic inclusions. Therefore, silicon was used in quantities corresponding to 0.3-0.5% in the finished steel. To reduce the burn-off of silicon, 400 to 600 g of aluminium per ton of liquid steel was first introduced into the furnace. Subsequent addition into the ladle of 400 to 600 g of aluminium per ton of liquid steel (instead of 1500 g/ton added for the usual killed steel) ensures stability against magnetic ageing. Steel of four experimental open-hearth heats were used, the composition of which was: 0.025-0.030% C, 0.11-0.19% Mn, 0.30-0.50% Si, 0.017-0.025% S, 0.010% P, 0.11-0.18% Ni,

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Non-ageing low-carbon electrical ... S/129/62/000/005/003/011
E073/E535

0.03-0.05% Cr and 0.16-0.22% Cu. Up to 0.5% silicon does not lower the plasticity of low-carbon electrical steel but it does improve the magnetic and electrical properties. The resistivity of an ordinary rimming steel containing up to 0.03% Si is 0.10-0.11 ohm·mm^2/m, whilst in killed steel with a silicon content of 0.3 to 0.5% it is 0.16-0.20 ohm·mm^2/m. Annealing should be at 850-870°C. After four-hour annealing at 850°C, followed by cooling at a rate of 40°C/hour down to 600°C and then in air, 2 mm sheet steel with increased silicon content had the following magnetic properties (Gauss/Oe) H_c = 0.56-0.78, μ_o = 275-415, μ_{max} = 4640-11500, B_5 = 13800-15000 and B_{200} = 21000-21800. The coefficient of ageing $\Delta H_c/H_c \cdot 100\%$ (100°C, 200 hours) was in all cases less than 10%. Experimental batches of steels with increased silicon contents have passed successfully shop tests. Low-carbon (0.03%), low sulphur (below 0.025%) electrical steel with silicon contents increased to 0.3 to 0.5% is recommended for wide use in industry as a non-ageing magnetically soft material with a coercive force below 0.8 Oe. There is 1 figure.

ASSOCIATIONS: "Serp i Molot" Works and MATI

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

KUDRIN, V.A.; VINNICHENKO, Ye. V.; SVIDERSKIY, G.V.; TUNKOV, V.P.; SOKOLOV, O.N.

Treatment of liquid steel by means of solid synthetic mixtures.
Metallurg 6 no.3:16-17 Mr '61. (MIRA 14:5)

1. Moskovskiy institut stali i zavod "Serp i molot."
(Steel—Metallurgy)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

S/130/62/000/001/002/004
A006/A101

AUTHORS: Sokolov, O.N., Tunkov, V.P., Fomin, I.I.

TITLE: Melting of charge iron in a basic open-hearth furnace

PERIODICAL: Metallurg, no. 1, 1962, 21 - 23

TEXT: A technology was developed for the production of charge iron with a carbon content less than 0.015% directly in an open-hearth furnace; the method consisted in carbon oxidation by the combined effect of iron ore and compressed air or oxygen blast to the pool. Experimental heats were made with oxygen and compressed air blast. The charge consisted of cast iron and rejects of low-alloy electric steel; aluminum was added into the ladle. When blowing oxygen through the pool the process of carbon oxidation from 0.64 to 0.014% lasted 1.30 minutes; blowing time was 13 minutes. When using compressed air, carbon oxidation time was 1.47 minutes and blowing time was 12 minutes. The composition of the finished metals was for case 1 (in %): 0.014 C, 0.018 Mn, traces of Si; 0.015 S; 0.007 P; 0.14 Ni, traces of Cr and 0.15 Cu; and for case 2: 0.014 C; 0.019 Mn, traces of Si; 0.010 S; 0.007 P; 0.15 Ni; traces of Cr and 0.18 Cu.

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A006/A101

Melting of charge iron ...

The results obtained from the experimental heats showed the possibility of melting "Armco" type iron with a carbon content less than 0.015% and free of chromium, phosphorus and silicon, by the described method. There are 2 figures and 3 tables.

ASSOCIATION: Zavod "Serp i molot" ("Serp i molot" Plant)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

S/148/61/000/003/002/015
A161/A133

AUTHORS: Chelishchev, Ye. V., Turkenich, D. I., Zhetvin, N. P., Tunkov, V. P.

TITLE: Investigating the metal composition on different levels of the open-hearth furnace bath

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no. 3, 1961, 31 - 36

TEXT: Two different views exist on the position of the decarbonizing reactio. zone in the open-hearth furnace bath - according to the first this reaction takes place on the bottom according to the second on the metal-slag boundary. Large sampling devices always mixed the metal and caused different conclusions. The article presents information on an investigation carried out at the "Serp i molot" Plant with the aid of a new sampling device with a swiveling box and three 1-inch diameter pipes of different length, each pipe fitted with a metal shell on the end containing quartz metal receivers. A ball was blown on the receivers intake end and provided with a 1 mm diameter input hole that was plugged with aluminum. The aluminum melted after submersion and deoxidized metal filled the receiver. A spiral of aluminum wire in the receiver completed the deoxidation.

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Investigating the metal composition on different levels...A161/A133

Distances between the sampled metal levels were determined by the difference in length of the pipes. The carbon and oxygen contents indicated that the reaction takes place mainly in the transition layer between slag and metal spreading with the progress of carbon oxidation. The formation of the transition layer was verified on a model, and it was established that all the slag was absorbed by the metal at slag-to-metal layer depth ratio of 1:5 and a rimming intensity in the range of 0.3 and 0.6% C/h. The slag layer turned into a metal emulsion, and pure slag separated on the surface with an increasing slag quantity, or at a reduced carbon-burning rate. The slag layer in the investigated 50-ton furnace constituted 0.25 of the metal bath depth, which ensured a good intermixing of the metallic phase. Conclusions: 1) A definite regularity exists in the distribution of carbon and oxygen over the metal bath depth. The carbon content in the upper levels (particularly on the boundary with slag) is lower than in the deeper levels. Oxygen is distributed in an inverse way, and this proves that the decarbonizing reaction goes on at the metal-slag boundary. 2) The maximum carbon concentration drop between the top and bottom of the 50-ton bath was 0.1%. In most of the cases the difference was lower, particularly at a low carbon content in the metal. Highest deviation of the carbon content from the mean in the metal volume was in the thin sub-slag layer. Sampling from this layer may cause differences in carbon determinations in the furnace and in teeming. 3) The intermixing

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Investigating the metal composition on different levels...A161/A133

of metal during the melting of low-carbon steel changes this sub-slag layer and may speed up decarbonization and reduce the carbn content. There are 5 figures and 1 Soviet-bloc reference.

ASSOCIATION: Moskovskiy institut stali i metallurgicheskiy zavod "Serp i molot" (Moscow Steel Institute and "Serp i molot" metallurgical plant)

SUBMITTED: July 5, 1960

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

CHELISHCHEV, Ye.V.; TURKENICH, D.I.; ZHETVIN, N.P.; TUNKOV, V.P.

Investigating metal composition according to levels of the open-hearth furnance bath. Izv.vys. ucheb. zav.; chern. met. no.3:31-36 '61. (MIRA 14:3)

1. Moskovskiy institut stali i metallurgicheskiy zavod "Serp i molot".
(Open-hearth furnaces)
(Steel--analysis)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

GROMOV, Nikolay Dmitriyevich; TUNKOV, V.P., inzh. laureat Gos. premii
retsenzent
[Intensification of steel production] Intensifikatsiia
proizvodstva stali. Moskva, Izd-vo "Metallurgiia,"
1964. 158 p. (MIRA 18:1)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

S/130/61/000/003/002/008
A006/A001

AUTHORS: Kudrin, V.A., Vinnichenko, Ye.V., Sviderskiy, G.V., Tunkov, V.P., Sokolov, O.N.

TITLE: Processing of Liquid Steel With Solid Synthetic Mixtures

PERIODICAL: Metallurg, 1961, No. 3, pp. 16 - 17

TEXT: A series of experimental heats were carried out on furnaces of an open-hearth shop at the "Serp i molot" plant. The investigation was made for the purpose of revealing the possibility and expediency of treating steel with solid synthetic mixtures. The following composition of a desulfurizing mixture was selected (in %): Freshly burnt lime 70 - 75; fluorspar 25 - 28; crushed aluminum 0 - 4. The consumption was 8 - 11 kg/ton of steel. The components of the mixture were crushed manually, and fluorspar was preheated in a mold. The mixture was supplied to the metal jet when leaving the furnace, partly from a bin with 45% ferrosilicon, partly by hand. Data given in Table 1 show that the sulfur content was reduced by 28% on the average, after treating the metal with the synthetic mixture, in relation to the sulfur content prior to that. Desulfurization process is somewhat intensified at a higher carbon content. An analysis of results ob-

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A006/A001

Processing of Liquid Steel With Solid Synthetic Mixtures

tained from the experiments has shown that the content of non-metallic impurities in the metal that was treated with the mixture or not treated, is equal. CaO was not revealed in the impurities. An analysis of the experimental heat metal, as to the hydrogen content depending on the moisture of the mixture, shows that a moisture up to 1.5% H_2O, does practically not affect the hydrogen content in the metal. Results of mechanical tests are given in Table 2. It was found that the efficiency of open hearth furnaces can be raised by 10-15% when treating high-quality instrument steel with synthetic mixtures. This is due to a reduced bubbling time required to assure metal desulfurization in heats of conventional technology. The cost price of steel is correspondingly reduced by 2 - 2.5%. The degree of desulfurization depends only slightly on the sulfur content in the ladle prior to treatment. It decreases in the case when the heat is teemed at the lowest metal temperature limit for the given jet, to prevent metal splashing in case that components of higher moisture should fall into the ladle. Supply of the mixture should be started after teeming into the ladle about one fourth of the heat; it should be completed prior to the formation of slag. The mixture can not be supplied to the ladle bottom prior to teeming the heat, because of safety conditions.

Card 2/4 ASSN: Moscow Steel Inst.; Zavod "Serp i Molot"

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130-58-4-10/20

AUTHORS: Medzhibozhskiy, M.Ya., Candidate of Technical Sciences, Tunkov, V.P., Smirnova, L.A., Engineers.

TITLE: Effectiveness of Blowing Compressed Air into the Bath of a Cold-charged Open-hearth Furnace (Effektivnost' vduvaniya szhatogo vozdukha v vannu martenovskoy pechi pri skrap-protsesse)

PERIODICAL: Metallurg, 1958, Nr 4, pp 17 - 19 (USSR).

ABSTRACT: The proposal to blow compressed air into the bath of open-hearth furnaces was made in 1939, when trials were run at the "Krasnyy Oktyabr'" Works. These (and later ones at the Kuznetskiy metallurgicheskikh kombinat (Kuznetsk Metallurgical Combine)) showed that production increases of 15 - 20 and 8 - 10% could be obtained thereby on 10 to 30-ton and over 185-ton furnaces, respectively. The authors discuss this work, explaining the action of the injected air to be that of stirring the bath and thereby facilitating contact with the hot furnace oxygen. They cite work at the above and also at the Serp i Molot Works to show that air blowing is advantageous with cold-charged furnaces, giving as illustration details of one experimental heat at the Kuznetsk Combine carried out by Medzhibozhskiy with the participation of I.A. Sokolova and M.M. Bazhenova in 1954 (Figure 1). The authors refer to

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130-58-4-10/20

Effectiveness of Blowing Compressed Air into the Bath of a Cold-charged Open-hearth Furnace

development work on the process at the Serp i Molot Works on 70-ton cold-charged furnaces carried out with the participation of engineers Ya.L. Rozenblit, G.V. Sviridov, L.A. Smirnova and A.D. Zaytseva, which led to the adoption of the method in 1951. This work showed compressed air to be as effective as oxygen and since 1953 air has been used preferentially. Analysis of results shows that with a blowing time of 30 - 40 minutes, the charging-to-tap time is reduced by about 40 min below the unblown value (Figure 2). Decarburisation rates are about the same as with oxygen blowing, the value of the ratio (oxygen for carbon-oxidation)/ /(total oxygen blown into the bath) being 1 - 1.5 for oxygen and about 7 for air. Long experience at this and other works shows that steel quality (including nitrogen content) does not suffer through air blowing, and the decrease in furnace life through splashing, etc. is not great. The use of lagged lances has increased lance life and enabled immersion depths to be strictly controlled, thus minimising splashing. There are 2 figures and 2 tables.

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130-58-4-10/20

Effectiveness of Blowing Compressed Air into the Bath of a Cold-charged Open-hearth Furnace

ASSOCIATIONS: Sibirskiy metallurgicheskiy institut (Siberian Metallurgical Institute) and the "Serp i Molot" Works.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

MEDZHIBOZHSKIY, Miron Yakovlevich; TUNKOV, V.P., red.; YABLONSKAYA, L.V., red.izd-va; KARASEV, A.I., tekhn.red.

[Acceleration of open-hearth furnace smelting by compressed air injection into the bath] Intensifikatsiia martenovskoi plavki vduvaniem kompressornogo vozdukha v vannu. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 172 p. (MIRA 12:8)
(Open-hearth process) (Compressed air)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNKOV, V.P.

MEDZHIBOZHSKIY, M.Ya., kand.tekhn.nauk; TUNKOV, V.P., inzh.; SMIRNOVA, L.A., inzh.

Satisfactory results of blowing compressed air into the open-hearth furnace during the scrap process. Metallurg 3 no.4:17-19 Ap '58. (MIRA 11:4)

1.Sibirskiy metallurgicheskiy institut i zavod "Serp i molot."
(Open-hearth furnaces) (Compressed air)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNKOV, VLADIMIR PAVLOVICH

PHASE I BOOK EXPLOITATION 475

Ladyzhenskiy, Boris Nikolayevich and Tunkov, Vladimir Pavlovich

Tekhnologiya izgotovleniya stal'nykh otlivok (Technology of Making Steel Castings) Moscow, Mashgiz, 1957. 255 p. 7,000 copies printed.

Reviewers: Zverev, K.M., Engineer, and Kreshchanovskiy, N.S., Candidate of Technical Sciences; Ed.: Talanov, P.I., Prof.; Ed. of Publishing House: Sirotin, A.I., Engineer; Tech. Ed.: El'kind, V.D.

PURPOSE: This book was written for engineers and technicians in foundry shops and for engineers and designers in the machine-building industry. It may be used as a manual by students studying casting methods.

COVERAGE: The author attempts in this book to discuss the main problems of the casting of various parts for the machine-building industry. These problems, including some theoretical considerations, are reviewed in sequence starting with part design, mold

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and pattern making, casting, thermal treatment and the repair of flaws in the cast parts. These methods are said to be the most advanced ones and are believed to represent the recent achievements of Soviet scientists and engineers, and the present trend in the Soviet industry. Personalities mentioned are L.N. Podvoyskiy who wrote chapter VI, and K.P. Baryshnikov who assisted the author in writing chapter VII. There are 71 Soviet references.

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNKOV, V. P.

LADYZHENSKIY, Boris Nikolayevich; TUNKOV, Vladimir Pavlovich; ZVEREV, K.M., inzh., retsenzent; KRESHCHANOVSKIY, N.S., kand.tekhn.nauk, retsenzent; TALANOV, P.I., prof., red.; SIROTIN, A.I., inzh., red.izd-va; EL'KIND, V.D., tekhn.red.

[Technology of preparing steel castings] Tekhnologiia izgotovleniia stal'nykh otlivok. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 255 p. (MIRA 11:4)
(Steel castings)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNKOV, V.P.

Distr: 4E2c

Increasing Yield by Heating Feeder Heads. N. P. Zhetvin, A. A. Lebedikov, V. P. Tunkov, and A. D. Zaitsev. (Stal', 1957, (7), 587-602). A method is described for intense heating of the hot tops of large ingots and heavy castings by combustion of 75% ferrosilicon in oxygen giving a 4-15% saving of metal. Exothermic mixtures for 1 t ingots are given and cropping is reduced by 2-3% with killed steel.

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TUNKOV, V. P.

STAL'
Vol 17, Nr 7, July, 1957

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TUNKOV, V.P.

133-7-5/28

AUTHOR: Zhetvin, N.P., Candidate of Technical Sciences, Lebed'kov, A.A., Tunkov, V.P. and Zaytseva, A.D., Engineers.

TITLE: Raising the Yield of Metal by Using Hot Ingot Tops (Povysheniye vykhoda godnogo putem obogreva pribyl'noy chasti slitka)

PERIODICAL: Stal', 1957, No.7, pp. 587 - 592 (USSR)

ABSTRACT: Investigations carried out on the "Serp i Molot" Works on heating hot top of ingots of killed steel and riser for large steel castings are described. The following participated in the work: Engineers C.V. Svirdov, V.M. Maksimov, P.I. Mel'nikov, A.V. Rabichev, V.I. Tvirov, I.I. Fomin, A.I. Filatova and laboratory assistants I.P. Zabotkin, I.D. Ob'edkov and others. The usual works' practice was to team 75-ton open hearth heats into 84 to 90 moulds (0.8 ton). Bottom pouring of ingots placed on 12 ingot stools with filling sinkheads with bunkerite was used. Cropped head for carbon steel was 13 - 13.5% and for some low alloy steels 15-16%. Ingot dimensions: top 330 x 330 mm, bottom 275 x 275 mm, height 1 085 mm. The use of the following substances for heating hot tops was tested: 75% ferro-silicon (crushed to -2 mm) 5 - 6 kg per ingot with a supply of oxygen (2 - 3 min) and 6 mixtures of ferro-silicon, aluminium, sodium nitrate, chamotte powder and silico-calcium in various proportions and combinations. The composition of mixtures numbered

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Raising the Yield of Metal by Using Hot Ingot Tops.

1 - 6 is given. The structure of the ingot with heating top with ferro-silicon is shown in Fig.1, methods of sampling ingots in Fig.2, comparison of macrostructure of longitudinal templets of ingots (A12 steel) with heating sinkhead with lunkerite and mixture 5 in Fig.3. Gas content in various parts of an ingot cast with intensive heating of the sinkhead and chemical composition of samples from longitudinal templets of ingots heated with lunkerite and mixture 15 are given in Tables 1 and 2, respectively. As the next step in saving metal, the shape of sinkhead was modified (Fig.4) and the insulation of hot tops improved (Fig.5). It is concluded that the use of intensive heating of hot tops of large ingots and large shaped castings by combustion of 75% ferro-silicon in a stream of oxygen improves the quality of ingots and castings and gives an economy of metal from 4 to 15%. The method of heating hot tops of ingots not larger than 1 ton using mixture No.5, (70% of 75% ferro-silicon, 20% of sodium nitrate, 10% chamotte powder) for ingots stripped with clamps and mixture No.6 (70% of 75% ferro-silicon, 20% sodium nitrate and 10% silico-calcium) for ingots and medium shaped casting for which clamps are not used, also improves the quality of ingots and castings and gives an economy of metal from

Card2/3 2.5% for ingots to 15% for castings. Considering that the work

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Raising the Yield of Metal by Using Hot Ingot Tops. 133-7-5/28

was carried out with 800 kg ingots, application of the above heating method for larger ingots should be additionally checked. During 9 months of operating according to the new practice crop ends were decreased by 2.3% and defects due to microstructure to 0.21% instead of the previous figure of 0.50%. There are 5 figures and 2 tables.

ASSOCIATION: Serp i Molot Works (Zavod "Serp i Molot")

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

AUTHOR: [illegible] Engineer [illegible], Engineer [illegible] Engineer [illegible] Engineer

TITLE: Achievements in the field of automation elements

SOURCE: Automatica si electronica, v. 8, no. 4, 1964, 149-152

TOPIC TAGS: automatic control system, automation, automatic control

[illegible] system, the UNIDIN unified electric control system, [illegible] system, the [illegible] computation system, all produced by the

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNSOIU, Gh., ing.; HERSCOVICI, H., ing.; WEINRICH, G., ing. TOADER, St., ing.

Achievements in the field of automation elements. Automatica electronica 8 no.4:149-152 Jl-Ag '64.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNSOIU, V.

Fossils in Balota. p. 112. NATURA. Bucuresti. Vol. 7, no. 3, May/June 1955.

SOURCE: East European Accessions List (EEAL) Library of Congress Vol. 5, No. 7, July 1956.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNSOIU, V., prof. (Murgas-Reg., Oltenia)

An apparatus used in teaching physical geography. Natura Geografie 13 no. 5:53-57 S-O '61.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

GOROSHKOVA, V.A.; IVANOVA, Z.P.; MELIKOVA, I.M.; RYZHOVA, A.A.; SUVOROV, P.G.; TUNYAK, A.P., kurator; SHABAYEVA, Yu.V.

Oparino key well. Trudy VNIGNI no.26:5-64 '60. (MIRA 14:1)
(Russian Platform--Petroleum geology)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

SHABAROVA, N.T.; TUNYAK, A.P.; NEKTAROVA, M.B.

Study of organic acids in underground waters. Geol. nefti i gaza 5 no.11:50-51 N '61. (MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut.
(Water, Underground--Analysis) (Acids, Organic--Analysis)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNYAKOV, G. G.

"The inert regions and general morphology of the chromosomes in the salivary gland cells of Drosophila." Department of Genetics (Chief: Prof. N. P. Dubinin) Institute of Experimental Biology, (Dir: acad. N. K. Koltsov), Moscow. (p. 753) by Tunyakov, G. G.

SO: Biological Journal (Biologicheskii Zhurnal) Vol. V, 1936, No. 5

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNYAN, S., bortovoy radist-instruktor (Yerevan)

Training flight radio operators in the air. Grazhd.av.13 no.7:4 Jl '56. (Radio in aeronautics) (MLRA 9:9)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNYS, J.

Utilization of pharmacists in the drug industry. Cesk. farm. 14 no.5:205 Je '65.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

1. TUOMIOJA, SAKARI

2. USSR (600)

4. Russia - Commerce - Finland

7. Reparation deliveries established the basis for broadening the exchange of goods between the U.S.S.R. and Finland. Finsk. torg. zhur. no. 22. 1952.

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

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

PROCESSES AND PROPERTIES INDEX

B-IIC-1

BC

Utility of analytical methods for determining fertilizer requirements of soils. I. Phosphate content of nitric acid extracts of soils and crop increases due to phosphate manuring. P. Tuomi and A. Tuulavuori (Valt. Maatalouskoet. Julkaisuja, 1935, 86, 68; Biol. Zentr., 1935, A, 5, 422-423).—Soil is extracted with dil. HNO_3 of such concn. that the extract has pH 2·0—3·0. Reference tables are compiled relating [PO_4'''] in extracts of given pH to PO_4 requirements of soils of various types. With increasing [H'] the PO_4-fixing capacity of soils increases, and the "sol." PO_4''' decreases. A. G. P.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

CIUCA, M.; TUPA, Alexandra; GEORGESCO, Colette; VLADOIANU, I.R.; DIMACHE, Gh.

Lysogeny of Salmonella typhi strains in relation to their pathogenicity characteristics. Preliminary note. Arch. roum. path. exp. microbiol. 21 no.2:246-251 '62.

1. Travail de l'Institut "Dr. I. Cantacuzino".
(SALMONELLA TYPHOSA) (SALMONELLA PHAGES)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

NESTORESCO, N.; CRACEA, E.; TUPA, Alexandra; SZEGLI, Lucia

Role of amino acids and purine and pyrimidine bases on the adsorption of bacteriophages of the Vi type on lysosensitive S. typhi. Arch. roum. path. exp. microbiol. 21 no.2:267-272 '62.

1. Travail de l'Institut "Dr. I. Cantacuzino" — Centre National de Bacteriophages-References.

(SALMONELLA PHAGES) (SALMONELLA TYPHOSA)
(AMINO ACIDS) (PURINES) (PYRIMIDINES)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

CIUCA, M.; NESTORESCO, N.; POPOVICI, Marcella; TUPA, Alexandra

Observations on the phage typing of S. typhi and S. paratyphi B in Rumania. Arch. roum. path. exp. microbiol. 21 no.2:351-356 '62.

1. Travail de l'Institut "Dr. I. Cantacuzino" -- Centre National des Bacteriophages -- References.
(SALMONELLA TYPHOSA) (SALMONELLA PARATYPHI)
(BACTERIOPHAGE TYPING) (SALMONELLA PHAGES)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

NESTORESCO, N.; BERCOVICI, C.; IOSUB, C.; TUPA, Alexandra; BESLEAGA, Virginia

On a new specimen of Vi bacteriophage of S. typhi. Arch. roum. path. exp. microbiol. 21 no.2:357-359 '62.

1. Centre National de Bacteriophages References -- Laboratoire des Phages enteriques.
(SALMONELLA TYPHOSA) (SALMONELLA PHAGES)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

NESTORESCO, N.; ALEXENCO, Ecaterina; GEORGESCO, Colette; TUPA, Sanda; SZEGLI, Lucia; CAFFE, Ileana

Characteristics of the antibiotic resistance of certain strains of Staphylococcus and Salmonella isolated from patients undergoing antibiotic treatments. Arch. Roum. path. exp. microbiol. 20 no.3: 381-385 S '61.

1. Travail de l'Institut "Dr. I.Cantacuzino" Service des Enterobacteriacees.
(STAPHYLOCOCCUS pharmacology) (SALMONELLA pharmacology)
(ANTIBIOTICS pharmacology)

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

Tuparlyk, D. T.

3(7) SOV/50-59-5-10/22

AUTHORS: Lominadze, V. P. Director of the Institute; Bartishvili, I. T., Secretary of the Party Office; Bitskinashvili, E. Z., Chairman of the MK; Matveyev, V. M., Chief of the Airport; Omadze, G. Ya., Deputy Chief of the Political Department; Kolesnikov, N. E., Secretary of the Party Office; Tuparlyk, D. T., Chairman of the MK; Takhvitava, K. V., Chief of the AMSG; Petrov, V. S., Commander of the Aircraft TU-104

TITLE: A Useful Enterprise (Poleznoye nachinaniye)

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 5, pp 44 - 45 (USSR)

ABSTRACT: The Collective of the Tbilisskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (Tbilisi Hydrometeorological Scientific Research Institute) established a collaboration with the workers of the airport. An appeal to the workers of the AMSG (Air Weather Station of the Civil Air Fleet) and the flying and ground personnel of the airport, as well as the obligations of the personnel of Tbilisi Airport and of the workers of the AMSG, are published here. The appeal requests to give lectures and reports on physical conditions of the atmosphere. The atmospheric processes most influencing aviation are to be explained. A

Card 1/2

scientific discussion and analysis of complicated meteorological conditions in aviation are to be organized. Systematic reports on the latest achievements inland and abroad are to be delivered. The members of the personnel taking part in correspondence lessons of universities are to receive help and advice in physics, mathematics, aerodynamics and meteorology. The personnel of Tbilisi Airport and the workers of the AMSG agree: 1) To carry out careful meteorological observations throughout every flight, and communicate them in due time to the AMSG. 2) The workers of the AMSG agree to collect systematically the material of meteorological observations, and to inform the TbilNIGMI in due time. 3) The airplane crews agree to support as much as possible the scientific co-workers during the flight. 4) The airplane crews agree to discuss any complicated case of meteorological conditions arising during the flight, in the presence of the co-workers of the TbilNIGMI. 5) The workers of the airport are to deliver lectures on jet and piston-engine propelled aircraft for the co-workers of the TbilNIGMI.

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MAMAKOV, A.A.; YEROFEYEV, A.A.; TUPALOV, N.I.

Deaeration of fruit and berry juices under a vacuum. Izv.vys.ucheb.-zav.; pishch.tekh. no.1:77-81 '63. (MIRA 16:3)

1. Kishinevskiy gosudarstvennyy universitet i Moldavskiy nauchno-issledovatel'skiy institut pishchevoy promyshlennosti.
(Fruit juices) (Vacuum apparatus)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPALSKA, M.

"Determining the arsenic content of some food products." p. 39 (Roczniki, Vol. 5, No.1, 1954, Warsaw)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June. 1954, Uncl.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPALSKA, Maria

Determination of boron as a trace element in plant material. Roczn panstw zakl hig 14 no.4:333-340 '63.

1. Laboratory for Testing Food and Articles of Common Consumption, State Institute of Hygiene, Warsaw.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPALSKA, MARIA

Estimation of [illegible] various food prod-
ucts Maria Tupalska [illegible]

[illegible]

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

PROKOFIYEV, M. A.

Higher Education In The USSR, By M. A. Prokofiyev, M. G. Chilikin And S. I. Tulpanov. Paris, UNESCO, 1961. 59 p. Charts, Tables. (Educational Studies And Documents, No. 39)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUNNE CSIKESZ, Stefania, dr.

Elaborating the Council for Economic Mutual Assistance product nomenclature. Stat szemle 40 no.2:219-220 F '62.

1. Kozponti Statisztikai Hivatal csoportvezetoje.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

PORUDOMINSKIY, I.M.;ARTEM'YEV, S.A.;TURANOVA, Ye.N.

Results of the treatment of gonorrhea with synthomycetin. Vest. vener., Moskva no. 4:40-41 July-Aug. 1952. (CIML 23:3)

1. Professor for Porudominskiy; Senior Scientific Associate for Artem'yev and Turanova. 2. Of the Central Skin-Venereological Institute (Director -- Candidate Medical Sciences N. M. Turanov), Ministry of Public Health USSR.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPARA, A.

Agricultural experts and organizations in the struggle for the building of socialism in villages; also, a discussion of this report.

p. 189 (Poljoprivredni Pregled. Vol. 5, no. 4/5, Apr./May 1956. Sarajevo, Yugoslavia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

KOZLEV, L., dots. inzh.; TUPANEV, G.

Hauling capacity of the endless rope in the "Smirnenski" mine of the "Marishki basin" State Mining Enterprise, Dimitrovgrad. Godishnik Min geol. inst 8:45-66 '61-'62 [publ. '63].

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPAREV, G.

Intensive and extensive utilization of labor forces, a factor of the increased labor productivity in the Marishki Basin State Mining Enterprise. Min delo 17 no.9:5-8 S '62.

1. Minen nauchnoizsledovatelski institut.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPAS, V.I.

Unit for signaling the position and defects of remotely controlled objects. Avtom. i prib. no.2:51-52 Ap-Je '65. (MIRA 18:7)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

ACC NR: AT7004471 SOURCE CODE: UR/3245/66/000/002/0022/0025

AUTHOR: Basov, V. I.; Romashkan, V. S.; Tupas, V. I.

ORG: Kiev Polytechnic Institute (Kiyevskiy politekhnicheskiy institut)

TITLE: Voltage-to-digital code converter

SOURCE: Kharkov. Institut gornogo mashinostroyeniya, avtomatiki i vychislitel'noy tekhniki. Pribory i sistemy avtomatiki, no. 2, 1966, Promyshlennaya telemekhanika (Industrial telemechanics), 22-25

TOPIC TAGS: analog digital converter, computer circuit

ABSTRACT: A multi-channel transistorized voltage-to-digital converter is described. It is based on the sweep-balance principle according to which a ramp voltage is generated by charging a capacitor from the current source and comparing this voltage to an unknown quantity by means of a Schmidt trigger circuit. The time between the start of ramp-voltage generation and the attainment of voltage equality is utilized for counting pulses from a pulse generator which consists of an LC oscillator using a planar transistor (frequency instability, ±0.15%) and a Schmidt trigger generating rectangular pulses. The seven-stage counter is common to all balance circuits whose number is equal to the number of input channels. The characteristics of the converter are as follows: input voltage range, 0—2.5 v; conversion time (for one channel), 10 msec; total conversion error including quantitation error, not greater than ±0.6%; pulse generator frequency, 12 kc; and power supply voltage 12 v. Orig. art. has: 2 figures.

SUB CODE: 09/ SUBM DATE: none / ORIG REF: 003/

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

DIDYK, Boris Sergeyevich, kand. tekhn. nauk; TUPAS, V.I., inzh., retsenzent; KATKOV, F.A., doktor tekhn. nauk, red.; PISARENKO, M.G., inzh., red.

[Frequency and frequency-time code discrete telemetering systems] Chastotnye i chastotno-vremennye sistemy diskretnogo teleizmereniia. Kiev, Tekhnika, 1965. 95 p. (MIRA 18:9)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

SKIRTA, B.K.; TUPAS, V.I.

Circuits for synchronous reception of telemechanic frequency codes(synchronous generator-filters). Avtom.i prib. no.1:44-50 '59. (MIRA 13:10)

(Remote control) (Radio filters)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

Tupas, V.I.

PHASE I BOOK EXPLOITATION SOV/3778

Ukrainian SSR. Gosudarstvennaya planovaya komissiya

Avtomatizatsiya i priborostroyeniye; sbornik nauchnykh trudov, vyp. 1. (Automation and Instrument Making; Collected Scientific Works, No. 1) Kiyev, Gostekhizdat USSR, 1959. 107 p. 3,000 copies printed.

Ed.: V. Demskiy; Tech. Ed.: K. Gusarov; Editorial Board: P.M. Mel'nik (Chief Ed.), N.T. Zharov, G.S. Kryshtab, I.A. Orlov, (Resp. Ed.), L.A. Shoykhet, and N.V. Yarin.

PURPOSE: This collection of articles is intended for scientific and technical workers and for students of schools of higher education specializing in automation, telemechanics, and computing.

COVERAGE: The collection contains papers on the automation of metallurgical, chemical and power engineering and on the development of new instruments, telemechanical units, and a program control system for turret lathes. A bibliography on automatic analysis of solutions containing 86 items: 42 Soviet, 34 English, 5 German, 4 French and 1 Polish, is included. No personalities are mentioned.

AUTOMATION OF INDUSTRIAL PROCESSES

Korobko, M.I., A.G. Strel'chenko, V.N. Korotkevich, V.I. Kozlyuk, A.I. Tyshko, V.M. Artynskiy. Automation System for Open-Hearth Thermal Processes 9

Korobko, M.I., V.I. Kozlyuk. Open-Hearth Control System 14

Shumilov, K.A., B.G. Mikryukov. Automatic Inspection and Control of Blast Distribution in Open-Hearth Tuyeres 17

Popov, E.R. New Indirect Method for the Automatic Analysis of Multicomponent Solutions 22

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

33569
S/194/61/000/012/056/097
D256/D303

6,4400

AUTHORS: Skirta, B. K. and Tupas, V. I.

TITLE: Frequency signal synchronous receiver systems (synchronous filter-generators)

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1961, 62, abstract 12V536 (Avtomatiz. i priborostroenye. No. 1, Kiyev, Gostekhizdat Ukrainian SSR, 1959, 44-50)

TEXT: Synchronous filter-generators were developed by the Ukrainian SSR Gosplan Automation Institute for the purpose of frequency-signal selection. The synchronous filter-generators provide a possibility of separating useful signals at values of the signal/noise ratio smaller than one. The proposed system utilizes the method of synchronous storage, so that one obtains at the output an integral of the signal multiplied by the synchronous sinusoid voltage of the local heterodyne. The local heterodyne is synchronized by capturing its frequency by the frequency of the received signal. The synchro-

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22569

Frequency signal synchronous ... S/194/61/000/012/056/097
D256/D303

nous filter-generator consists of the local heterodyne and a filter-relay. The acoustic frequency local heterodyne employs a common-base transistorized transformer circuit; the voltage of the local heterodyne controls a synchronous key separating even and odd intervals of the signal function. The integration of the product of the signal voltage and the voltage of the local heterodyne is obtained by a bridge circuit with thermo-resistors. /Abstractor's note: Complete translation./

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

L 27814-66 EWT(d)/EWP(e)/T/EWP(v)/EWP(k)/EWP(h)/EWP(1)

ACC NR: AP6007594 SOURCE CODE: UR/0119/66/000/002/0012/0014

AUTHOR: Basov, V. I. (Engineer); Butayev, G. M. (Candidate of technical sciences); Melik-Aşkarov, A. G. (Engineer); Ponomarev, A. I. (Engineer); Romashkan, V. S. (Engineer); Tupas, V. I. (Engineer)

ORG: none

51
B

TITLE: Coded telemetry system for concentrated plants

SOURCE: Priborostroyeniye, no. 2, 1966, 12-14

TOPIC TAGS: telemetry system, telemetry technique

ABSTRACT: Fifteen quantities are telemeasured and seven two-position-indication signals are transmitted; also, deviation of any quantity from its normal measuring span is signalled. In addition to indicating instruments and signal lamps, the dispatcher station has a digital printer and a specialized computer. Three frequency channels transmit 1, 0, and change-quantity signals. A number protection in the interrogation cycle of each parameter is provided, as well as a protection against missing or breaking up pulses. The system is designed with semiconductor devices only. These characteristics are claimed: frequencies, 4400, 4600, and 4800 cps; transmission time of one frequency signal, 10 millisec; interrogation time of one parameter, 130 millisec; basic error, ± 0.6% or less; line attenuation, 3 nep; tolerable supply-voltage variation, +10 -15%. The system has been tentatively put in operation at the Dzerzhinskiy Metallurgical Plant, Dneprodzerzhinsk. Orig. art. has: 4 figures and 1 table.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 005

UDC: 621.398:654.931

Card 1/1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPAYEV, T.M., otv. red.; NISTRATOVA, S.N., red. izd-va; RYLINA, Yu.V., tekhn. red.

[Problems in the evolution of functions and enzyme chemistry of excitation processes] Problemy evoliutsii funktsii i enzimokhimii protsessov vozbuzhdeniia; sbornik rabot. Moskva, Izd-vo Akad. nauk SSSR, 1961. 343 p. (MIRA 14:11)

1. Akademiya nauk SSSR. Institut morfologii zhivotnykh.
(NERVES) (BIOCHEMISTRY)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPCHINYENKO, S.V.

Organizing and conducting contests in moving along an azimuth. Geog. v shkole 24 no.2:54-57 Mr-Ap '61. (MIRA 14:3)

1. 2-y shkola g. Valmiyery.
(Pioneers(Communist Youth) (Geography--Study and teaching)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPCHIY, A.G.

Central control of gas pipelines. Gaz. prom. no.3:25-28 Mr '57.
(MIRA 12:3)

(Pipelines) (Remote control)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPCHIY, A. G.

11(6) USSR / ROCK EXPLOITATION SOV/1868

Soveshchanie gazovoy promyshlennosti

Pod redaktsiyey gazovoy promyshlennosti SSSR; materialy Vsesoyuznogo soveshchaniya (Trends in the Development of the Gas Industry in the USSR; Materials Presented at the All-Union Conference) Moscow, Gostoptekhizdat, 1958. 452 p. 3,000 copies printed.

Eds: A.B. Kvasov, B.S. Tkachenko, P.S. Kondratenkov, Yu.A. Kruss, V.I. Popov, V.N. Ruzhnov, N.I. Ryabtsev, P.A. Tanner, A.S. Mal'tsevich; Exec. Ed.: N.I. Stepanchenko and N.N. Novikova; Tech. Ed.: E.A. Mathina; Editorial Board: N.V. Nikoronko (Chief Ed.), L.S. Zaremba, Yu.A. Kruss, V.N. Ruzhnov, and N.I. Ryabtsev.

PURPOSE: The book is intended for specialists engaged in the production and gathering of natural gas, the extraction of gas from coal and shale, the construction and operation of trunk gas pipelines, gas supply to cities, and the processing of gas.

COVERAGE: The authors review the basic trends in the development of the USSR gas industry, the prospecting and exploration of new gas deposits, the gasification of solid fuels, the gathering and utilization of natural gas, the automation of gas field operations, the exploitation of gas wells, and ways to increase output. They further discuss the processing of natural gas with application of refrigeration, the experience gained in the laying and operating of trunk gas pipelines, the automation of gas pipeline operation, and underground gas storage facilities. There are no references.

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPCHIY, A.G.; TSITKIN, Yu.S.

Automatic control of compressor stations. Gaz. prom. no. 7:33-37 Jl '58. (MIRA 11:7)

(Gas distribution)
(Automatic control)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPCHIY, A.G.

Automatic control of rectification columns. Khim. i tekh. topl. i masel 8 no.7:53-58 Jl '63. (MIRA 16:7)

1. Ukrainskiy gosudarstvennyy institut po proyektirovaniyu predpriyatiy po dobyche prirodnykh gazov.
(Distillation, Fractional)
(Automatic control)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPCHIY, A.G.

Increasing the accuracy of measurements of the flow of saturated vapors by using diaphragms. Neft. i gaz. prom. no.1:66-67 Ja-Mr '64. (MIRA 18:2)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPCHIY, A.G. [Tupchii, O.H.] (Kiyev)

Amplitude-phase frequency characteristics of distillation columns. Avtomatyka 8 no.3:41-46 '63. (MIRA 16:7)
(No subject headings)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPCHIY, N.G.

Changing the speed of the spinning machine during the filling up of the bobbin for doffing. Tekst.prom. no.2:45-48 F '63. (MIRA 16:4)

1. Nachal'nik proyektno-konstruktorskogo byuro Ukrainskogo nauchno-issledovatel'skogo instituta tekstil'noy promyshlennosti (UkrNIITP).
(Spinning machinery)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPCHIYEV, V.A.

Existence, uniqueness, and asymptotic behavior of the solution to a boundary value problem for a system of differential equations with a small parameter in the highest derivative term. Dokl. AN SSSR 142 no.6:1261-1264 F '62. (MIRA 15:2)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Predstavleno akademikom I.G.Petrovskim.

(Boundary value problems)
(Differential equations, Partial)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPCHIYEV, V.A. (Makhachkala)

Problem involving the decomposition of an arbitrary discontinuity for a system of two- quasi-linear equations of first order. Zhur. vych. mat. i mat. fiz. 4 no.5:817-825 S-O '64. (MIRA 17:12)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

SUPONITSKIY, M.Ya., kand.med.nauk; SHLEYFMAN, F.M., kand.med.nauk; TUPCHIY, Ye.P., inzh.

Improve working conditions in structural glass plants. Stek. i ker. 21 no.9:16-20 S '64. (MIRA 18:4)

1. Kiyevskiy nauchno-issledovatel'skiy institut gigiyeny truda i professional'nykh zabolevaniy.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

S/0208/64/004/005/0817/0825

ACCESSION NR: AP4045707

AUTHOR: Tupchiyev, V. A. (Makhachkala)

TITLE: Decay of an arbitrary discontinuity for a system of two quasilinear first-order equations

SOURCE: Zhurnal vy*chislitel'noy matematiki i matematicheskoy fiziki, v. 4, no. 5, 1964, 817-825

TOPIC TAGS: initial value problem, generalized solution, hyperbolic equation, vector function, convex function

ABSTRACT: Let z and $\varphi(z)$ be vectors of dimensionality 2. The problem of decay of an arbitrary discontinuity consists of constructing an admissible generalized solution of the hyperbolic system

$$\frac{\partial z}{\partial \eta} + \frac{\partial \varphi(z)}{\partial \xi} = 0, \qquad (1)$$

subject to

$$z(0, \xi) = \begin{cases} z_0, & \xi < 0, \\ z_1, & \xi > 0, \end{cases} \qquad (2)$$

So-called convexity conditions on the vector-function φ are essential restrictions in problem (1)-(2) in the vector case; they can be avoided only in the scalar case. The author wishes to construct an admissible solution for (1)-(2) without convexity

Card 1/2

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"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

ACCESSION NR: AP4045707

restrictions in the special case

$$z = \begin{pmatrix} x \\ y \end{pmatrix}, \quad \varphi(z) = \begin{pmatrix} X(y) \\ Y(x) \end{pmatrix}, \qquad (3)$$

where the functions X(y) and Y(x) are analytic for $-\infty < x, y < \infty$. He gives a uniqueness-existence theorem to this effect. "In conclusion I use this opportunity to thank N. N. Kuznetsov and B. L. Rozhdestvenskiy for the proposed problem and much valuable advice." Orig. art. has: 18 formulas.

ASSOCIATION: none

SUBMITTED: 04Jan64 ENCL: 00

SUB CODE: MA NO REF SOV: 006 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0

TUPCHIYEV, V.A.

Asymptotic behavior of the solution to a boundary value problem for a system of first-order differential equations containing a small parameter with the derivative. Dokl. AN SSSR 143 no.6: 1296-1299 Ap '62. (MIRA 15:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Predstavleno akademikom I.G.Petrovskim.
(Boundary value problems) (Differential equations)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757510005-0"