"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.M.

Moro, V. D., and Ivanov, S. M. MECHANICAL STOKING IN THE REFRACTORIES INDUSTRY. *Огнеупоры*, 9 [1] 29-37 (1941). -The authors describe preliminary experiments on the development of a portable mechanical stoker capable of universal application in the refractories industry. Following an account of the various systems in vogue outside the U.S.S.R., reasons are given for adopting the "inverse" system as the basis for experiments. This system comprises an under-feed stoker feeding fuel to a vertical retort, into which air is forced from above. The fuel moves upwards, so that the ash and clinker are removed from the top of the retort. The air passes downwards through the fuel bed and the products of combustion are led off through a grid in the lower part of the fuel bed. The grate may be worked so as to give semi-gas, producer gas or complete combustion, according to the height of the fuel surface. Several advantages are claimed for the "inverse" system, which is said to provide very favorable conditions for combustion. The present work has been confined to measurements of the power required to move the fuel through a horizontal channel and up a vertical retort, and the effect on this power of fuel grading and the shape of the retort. The influence of the shape of the retort on the movement of the fuel bed was studied with a view to maintaining a level surface. Wooden models were used for these experiments. Future work will deal with combustion conditions. Diagrams of several projected stokers are presented.

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IVANOV, S.M.

B

PROCESSES AND PROPERTIES INDEX

20

Furnace with Liquid Slag Removal. S. M. Ivanov. *Engineers' Digest* (American Edition), v. 4, May 1947, p. 136-138. Condensed from *Ognenpori*, v. 11, no. 3, 1946, p. 5-11.

Describes the design of an experimental stoker fed coal furnace in which the air is forced in above the fuel bed and the waste gases pass out through the portion of the coal directly below the fuel bed. The gas flow forces the ash to drop into a pocket which is kept hot by the waste gases, so that it overflows continuously in the form of a molten slag or ash.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.M.

Learn and work with a spark. Prof.-tekhn.obr. 13 no.3:5-6 Mr '56. (Smelting) (MLRA 9:7)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

SOV/110-59-1-15/28

AUTHORS: Fridman G.N., Nesterovich K.Yu., (Engineers)
Ivanov, S.M.

TITLE: A High-Voltage Rectifier using Germanium Diodes (Vysokovol'tnyy vypryamitel' na germaniyevykh diodakh)

PERIODICAL: Vestnik Elektropromyshlennosti, 1959, Nr 1, pp 55-56 (USSR)

ABSTRACT: This article is a simple description of a rectifier intended for an output voltage of 12 kV with a continuous current of 100 mA. Because germanium diodes were used, the circuit could be made simple and the equipment was small and light. The circuit diagram is given in Fig 1 and a general photograph of the rectifier in Fig 2. To obtain the high voltage, the secondary winding of four step-up transformers are connected in series and a full-wave bridge rectifier circuit is used. Germanium diodes type DGTs-25 are connected in series with 40 elements in each arm of the bridge. The scatter in the volt-ampere characteristics of the diodes is about 30% and care must be taken that none is overloaded. The methods adopted are described. The diodes were selected so that the maximum scatter of characteristics did not exceed ± 2.5%

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SOV/110-59-1-15/28

A High-Voltage Rectifier using Germanium Diodes

of the mean. The output voltage is smoothed by a choke and capacitance filter. Overall dimensions are given. The rectifier has operated well in service. There are 2 figures, no references.

Card 2/2

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

15 (2)

AUTHORS: Bernshteyn, R. S., Ivanov, S. M. SOV/131-59-5-3/12

TITLE: Aerodynamic Resistance of the Charge in Tunnel Furnaces (Aerodinamicheskoye soprotivleniye sadki v tunnel'nykh pechakh)

PERIODICAL: Ogneupory, 1959, Nr 5, pp 201-209 (USSR)

ABSTRACT: At the Vsesoyuznyy institut ogneuporov (All-Union Institute of Refractories) and the Nauchno-issledovatel'skiy institut stroitel'nykh materialov RSFSR (ROSNIIMS)(Scientific Research Institute for Building Materials of the RSFSR (ROSNIIMS)), simulating work of the gas current through the furnace charge was carried out. In this article, the authors give the generalizing results of former experiments as well as of their own, and outline a calculating system of the charge resistance in tunnel furnaces. Figure 1 shows a model on a scale of 1 : 5 of a furnace section and of the experimental charges. The characteristic of the charges is given in table 1. The air consumption in the furnace was measured by a Pitot-Prandtl tube, and the pressure by a micromanometer of the type MFU-3. Figure 2 shows the results of experiments made by the authors of this article and by former researchers for an isothermal

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gas current. A detailed description follows. Table 2 indicates the distribution of the gas current to individual types of canals according to calculations and measurements. Figure 3 shows the calculation results of the charge resistance for a non-isothermal current (drop of temperature in the furnace). A calculation example of the charge resistance in a tunnel furnace of the Borovichi Kombinat of Refractories is further given. The geometrical characteristic of the charge of the products KP-1 is given in table 3, and the charge scheme in figure 4. Figure 5 shows the distribution of the gas current to the charge canals in consideration of the non-isothermal course. Conclusions: On the basis of experimental values, calculation formulas were worked out for the aerodynamic resistance and the flowing through in tunnel furnaces. The resistance values calculated by these formulas agreed well with the experimental values. There are 5 figures, 3 tables, and 2 Soviet references.

ASSOCIATION: Vsesoyuznyy institut ogneuporov (All-Union Institute of Refractories)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

BONDARENKO, N.A., inzh.; RATNER, A.M., inzh.; SOKOLOV, K.A., inzh.; GUBANOV, N.P., inzh.; SORIN, N.M., inzh.; TARAKANOV, G.P., inzh.; IVANOV, S.M., inzh.; NIRK, A.D., inzh.; ROVKAKH, S.Ye., kand.tekhn.nauk; FILIPPOV, V.V., inzh.; KHAYKIS, L.B., kand.tekhn.nauk; LEBEDEV, V.I., inzh.; VELICHKIN, Ye.A., inzh., red.; KHITROV, P.A., tekhn.red.

[Handbook for machinery operators of construction areas] Spravochnik mekhanika stroitel'nogo uchastka. Moskva, Vses.izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1960. 619 p. (MIRA 14:1)

(Building machinery--Maintenance and repair)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

BONDARENKO, N.A., inzh.; RATNER, A.M., inzh.; SOKOLOV, K.A., inzh.; GUBANOV, N.P., inzh.; SORIN, N.M., inzh.; TARAKANOV, G.P., inzh.; IVANOV, S.M., inzh.; NIRK, A.D., inzh.; ROVKAKH, S.Ye., kand.tekhn. nauk; FILIPPOV, V.V., inzh.; KHAYKIS, L.B., kand.tekhn.nauk; LEBEDEV, V.I., inzh.; VELICHKIN, Ye.A., inzh., red.; KHITROV, P.A., tekhn.red.

[Handbook for mechanics of a construction project] Spravochnik mekhanika stroitel'nogo uchastka. Pod red. K.A.Sokolova. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 619 p. (MIRA 14:3)

(Mechanical engineering) (Road machinery)
(Railroads--Construction)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.M.; SHALKOV, K.A.

A duct-type kiln for firing fireclay articles with a directed flow of hot air toward the gas burners. Ogneupory 26 no.3:125-131 '61. (MIRA 14:4)

1. Vsesoyuznyy institut ogneuporov (for Ivanov). 2. Borovichskiy kombinat ogneuporov (for Shalkov).
(Kilns)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.M.; KHANOV, I.M.

Distribution of streams in a tubular apparatus with the system of gas supply along the cross section. Trudy VNIIT no.16 : 133-138 '62 (MIRA 17:8)

Aerodynamics of a cyclone reactor with atomizers. Ibid.:139-48

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

KHANIN, I.M., doktor tekhn. nauk; KARTSYNEL', M.B., kand. khim. nauk; IVANOV, S.M.

Absorption of ammonia in cyclone reactors with sprayers. Khim. prom. [Ukr.] no.2:6-10 Ap-Je '63. (MIRA 16:8)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

PLEKHOV, Nikolay Dmitriyevich, kand. tekhn. nauk, dots.; IVANOV, S.M., red.

[Apartment houses made of block rooms] Zhilye doma iz blok-komnat. Moskva, Znanie, 1965. 16 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.13) (MIRA 18:7)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

BAKHTANOV, A.; DALIN, M.A., doktor tekhn. nauk; prof. akademik, red.; IVANOV, S.M., red.

[Synthetic rubber: problems and solutions] SK: problemy i resheniia. Moskva, Znanie, 1965. 47 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.12) (MIRA 18:7)

1. Akademiya nauk Azerbaydzhanskoy SSR (for Dalin).

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

VOLODIN, Vasiliy Sergeyevich, kand. tekhn. nauk; IVANOV, S.M., red.

[Stories about welding] Rasskazy o svarke. Moskva, Znanie, 1965. 63 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.14) (MIRA 18:7)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

CHESKIN, Mikhail Sergeyevich; IVANOV, S.M., red.

[Noise control] Bor'ba s shumom. Moskva, Izd-vo "Znanie," 1965. 44 p. (Novoe v zhizni, nauke, tekhnike. Seriia IV: Tekhnika, no.15) (MIRA 18:7)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

ORLOV, Aleksandr Ivanovich; IVANOV, S.M., red.

[Main field machine] Glavnaia mashina polei. Moskva, Izd-vo "Znanie," 1965. 46 p. (Novoe v zhizni, nauke, tekhnike: IV Seriia: Tekhnika, no.17) (MIRA 18:8)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

SHCHERBO, Georgiy Mikhaylovich, kand. tekhn. nauk; IVANOV, S.M., red.

[Apartment houses from prefabricated parts] Doma iz gotovykh detalei. Moskva, Izd-vo "Znanie," 1965. 32 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.18)
(MIRA 18:8)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, Sergey Mikhaylovich, prof.; VUL'FSON, I.Z., red.

[Exercise therapy in bronchial asthma in children]
Lechebnaia fizkul'tura pri bronkhial'noi astme u detei.
Moskva, Meditsina, 1965. 102 p. (MIRA 18:5)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

KAZANZHI, Konstantin Konstantinovich; IVANOV, S.K., red.

[Static electricity] Staticheskoe elektrichestvo. Moskva, Znanie, 1965. 31 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.11) (MIRA 18:6)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

ZHIGAREV, L.V.; IVANOV, S.M., red.; NAZAROVA, A.S., tekhn.red.

[Journey into group "A"] Puteshestvie v gruppu "A". Moskva, Izd-vo "Znanie," 1963. 474 p. (MIRA 17:2)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

PLIT, I.G.; POLYANCHIKOV, I.N.; IVANOV, S.M.

Some preliminary results of investigation of the dispersions by means of mechanical atomizers. Trudy DKHTI no.16:189-191 '63.
(MIRA 17:2)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

PIPKO, Daniil Arkad'yevich; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[Third dimension] Tret'e izmerenie. Moskva, Izd-vo "Znanie," 1963. 55 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.22) (MIRA 17:1)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

KOCHUROV, Yuriy Dmitriyevich; MOREV, Petr Georgiyevich; MART'YANOV, Mikhail Mikhaylovich; SHAPROV, Mikhail Fedorovich; KIXUYEVSKIY, Fedor Mikhaylovich: BLIDCHENKO, I.F., inzh., retsenzent; GRISHIN, K.S.,inzh., retsenzent; IVANOV, S.N., inzh., retsenzent; KUZINA, Z.P., inzh., retsenzent; MUSAL'YAN, A.E., inzh. retsenzent; SAL'MAN, R.V., inzh., retsenzent; SOBAKIN, V.V., inzh., red.; USENKO, L.A., tekhn. red.

[Manual for the personnel of chemical and technical laboratories in the field and at depots] Rukovodstvo rabotnikam dorozhnykh i depovskikh khimiko-tekhnicheskikh laboratorii. Izd.2., ispr. i dop. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1962. 211 p. (MIRA 15:4)

(Railroads—Equipment and supplies)
(Engineering laboratories)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

SOV/124-58-3-2943

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 3, p 56 (USSR)

AUTHOR: Ivanov, S. N.

TITLE: Experimental Installation of a Reversible Variable-pitch Screw Propeller on the M/S "Opyt" (Eksperimental'naya ustanovka s reversivnym grebnym vintom reguliruyemogo shaga na t/kh "Opyt")

PERIODICAL: Tr. Tsentr. n.-i. in-ta morsk. flota, 1956, Nr 7, pp 72-81

ABSTRACT: The paper gives an account of the construction of a reversible, variable-pitch, three-blade screw propeller developed by the Central Naval Scientific-research Institute (TsNIIMF) as applied to a stock-model tug of 150 hp, built by the Riga shipyard, mounted on the M/S "Opyt", floating laboratory of the TsNIIMF. The rotating mechanism of the blades in the hub and the hydraulic drive equipped with two servomotors permit a turn of the blades to within ±30° from the neutral ("dished") position. The control of the reversible variable-pitch screw is entirely concentrated in the motor vessel's wheel-house. The time for a complete pitch change of the blades is 8 to 15 seconds.

I. V. Girs

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

SOV/113-58-4-15/21

AUTHORS: Stefanovich, Yu.G., Candidate of Technical Sciences, Ivanov, S.N.

TITLE: The Use of Rubber Couplings in Power Transmissions (Primeneniye rezinovykh muft v silovoy peredache)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 4, pp 41-44 (USSR)

ABSTRACT: The working of the engine and the varying effect of road conditions greatly affect the power transmission in the automobile and are not markedly reduced by shock absorbing systems. Therefore the use of rubber couplings for reducing the dynamic loads is recommended, including the following methods: reduction of the free wheeling of the pressure disk of the clutch coupling and the introduction of a hydraulic shock absorber into its drive, which limits the speed of engagement of the clutch coupling; or the use of a hydraulic element - a hydraulic clutch or hydraulic transformer - and flexible rubber couplings in the power transmission. According to data by I.S. Lunev, reducing the free wheeling of the pressure disk from 3 to 1 mm leads to a decrease of the dynamic friction moment by nearly 1.5 times. Lunev studied the effect of the use of a re-

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

SOV/113-58-4-15/21

The Use of Rubber Couplings in Power Transmissions

silient rubber coupling in a ZIL-585 dump truck's power transmission and found out that the maximum dynamic moment is reduced by 20% (mean value; fig. 1). Of the two types of rubber elements of resilient couplings, one works on the tension-compression principle (Figure 2) and is used in the Moskvich-410 (Figure 5), the other on the concentric-torsion principle (Figure 3). An interesting application of the compression principle is presented in the R-70 Zwickau (SZG) automobile (Figures 6 and 7). NAMI is engaged in the development of flexible couplings from various kinds of rubber for several types of Soviet automobiles. There are 3 diagrams, 2 graphs, 4 photos, and 8 references, 3 of which are Soviet and 5 English.

1. Automatic transmissions--Equipment 2. Couplings--Properties
3. Couplings--Performance 4. Rubber--Applications

Card 2/2

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.

Using the diesel laboratory ship "Opyt" for testing reversing of controlled-pitch propeller units designed by the Central Scientific Research Institute of the Merchant Marine. Trudy TSNIIMF no.15:34-69 '58. (MIRA 11:8)

(Propellers--Testing)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.

Designing a flexible rubber clutch for automobile transmission. Avt.prom. no.12:20-23 D '60. (MIRA 13:12)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Automobiles—Clutches)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.

New method for determining the doses of phosphate fertilizers for turf-podzol soils. Dokl. AN BSSR 6 no.5:334-336 My '62. (MIRA 15:6)

1. Belorusskiy nauchno-issledovatel'skiy institut pochvovedeniya.
(Phosphates) (Podzol)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N. (Novgorod, Kolmovo, d.17, kv.1)

Traumatic strangulated right diaphragmatic hernia. Vest.khir. 86 no.3:120-121 Mr '61. (MIRA 14:3)

1. Iz khirurgicheskogo otdeleniya Novgorodskoy oblastnoy bol'nitsy (gl. vrach - P.M. Mitrofanov).
(DIAPHRAGM--HERNIA)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, Sergey Nesterovich, prof.; ANTIPOV-KARATAYEV, I.N., akademik, prof., otv. red.; BARKAN, V.A., red.; YERMILOV, V.M., tekhn. red.

[Physicochemical character of phosphates in peats and turf-Podzolic soils]Fiziko-khimicheskii rezhim fosfatov torfov i dernovo-podzolistykh pochv. Otv. red. I.N.Antipov-Karataev. Minsk, Gos.izd-vo sel'khoz.lit-ry BSSR, 1962. 250 p. (MIRA 15:9)

1. Rukovoditel' laboratorii fiziko-khimii pochv Pohvennogo instituta Akademii nauk SSSR i Akademiya nauk Tadzhikskoy SSR (for Antipov-Karatayev).
(White Russia--Soils--Phosphorus content)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.

Propulsive speed trials of the motorship "Geokchai" equipped with a controllable pitch propeller. Inform. sbor. TSNIIMF no.75 Tekh. ekspl. mor. flota no.14:49-65 '62. (MIRA 16:3)
(Ship trials) (Ships--Speed)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

CA

The exchange capacity of soils in relation to the reaction of the medium and the nature and concentration of cations. S. N. Ivanov. *Akad. Nauk B. S. S. R., Inst. Sotsialist. Zemledeliya Minsk*, 1938, 80 pp.; *Khim. Referat. Zhur.* 1939, No. 6, 55. Three-gram samples of soil were treated with solns. of the Cl and HCO_3 mixts. of alkali metals or with solns. of the Cl and acetates of alk. earth metals at different concns. of the cations and pH. In the equil. solns. and the initial solns. were detd. the pH (with glass electrodes) and the free acid and base. The amt. of desorbed H^+ was detd. from the difference between the equil. and the initial solns. Owing to the displacement of H^+ in alk. solns. (mainly from the inner surfaces of the colloidal particles of the soil), the charge of the colloidal particles increased. This is attributed to adsorption of the potential detg. OH^-, according to $v = K_1 + K_2 \log C_{OH}$ or $v = K_1 + K_2 pH$, where v is the amt. of desorbed H^+ and K_1 and K_2 are consts. The exptl. results agree closely with this equation at pH = 4.5-8.1 for salts of Na, K, Mg, Ca and Ba; K_2 remains const. at different concns. of the cation and is nearly identical for Na, K and Mg; K_1 increases from Na to Mg. At const. pH, $v = K_1 + K_2 pM$, where K_1 and K_2 are consts. and pM is the antilog of the concn. of the cation in an equil. soln. The exptl. values for Na, K, Mg, Ca and Ba agree satisfactorily with the values calcd. from this equation in the region from dil. to N solns. of the cation. The adsorption energies of Na, K, Mg, Ca and Ba are, resp., 1, 1.05, 1.53, 1.55 and 1.60 for pH 5.71 in 0.0057 N concn. of the cation. This relation varies slightly with cation concn. The bicarbonate method for the detn. of the acidity of soils is superior to former methods for the detn. of lime requirement of soils.

W. R. Henn

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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CA

10

Effect of cations on mobility of phosphate ions in podzol soil. S. N. Ivanov. *Izvest. Akad. Nauk Belorus. S.S.R.* 1949, No. 1, 125-38.—In specimens of podzol soil the P_2O_5 content of superphosphate introduced at the depth of 9-18 cm. of the p[illegible]ing horizon did not suffer translocation to the A_1 horizon, i.e. the phosphate was fixed in the zone of introduction, over a 5-month exptl. period during summer. P_2O_5 introduced by superphosphate alone can be extd. by 1% citric acid to an extent some 35-40% greater than is the case with P_2O_5 of superphosphate added along with full mineral complement (PNK). The result is explained by activation of R_2O_3 by cations of K and NH_4 which causes the transformation of the phosphate into nonextractable form. Addn. of $CaCO_3$ in dosage that is equiv. to the K, NH_4, and H ions introduced by the superphosphate removes such fixation of P by the soil; this is caused by counteraction of Ca cations on R_2O_3, causing coagulation of the soil, and by neutralizing action of $CaCO_3$. Hence, it is suggested that field trials be made in which $CaCO_3$ addn. is made along with the PNK supply to improve the utilization of the superphosphate content by the plants. For best results $CaCO_3$ is mixed with the superphosphate, then with K and NH_4 fertilizers, in the dry state a few hrs. before use.

G. M. Kosolapoff

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CA

10

The effect of the degree of saturation of the soil by phosphoric acid on its availability to plants. S. N. Ivanov. *Izvest. Akad. Nauk Belorus. S.S.R.* 1949, No. 4, 111-20.—At a given level of satn. of the soil with H_3PO_4, an increase of P_2O_5 dose from 125 to 500 mg. per exptl. vessel (accomplished by variation of the quantity of soil per plant) does not alter the availability of P to the plant. At the same P dosage, increase of satn. of the soil with H_3PO_4 causes a great increase of the degree of availability. The satn. with H_3PO_4 was accomplished by addn. of varying amounts of NaH_2PO_4 soln. to the soil specimens. Results of field trials indicate that superphosphate fertilizer is more readily utilized by plants if it is introduced directly into the planting horizon along with N and K fertilizers. The liberated acidity is taken care of by addn. of lime to the fertilizer mixture.

G. M. Kosolapoff

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

14023* The Suitability of Peat for Granulating Mineral Fertilizers and for Preparation of Organic-Mineral Mixtures. (Russian.) S. N. Ivanov. *Sovetskaia Agronomiia*, v. 10, Jan. 1952, p. 62-68.

Discusses the use of various types of peat for the above and gives data on yields of wheat, barley, and rye with the mixed fertilizers. Data are tabulated.

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15

CA

5' The adaptability of peat for granulating mineral fertilizers and the preparation of organic and mineral mixtures. S. N. Ivanov. *Sovet. Agron.* 10, No. 1, 62-8(1952).—Lab. and field expts. with mixts. of peat and superphosphate and peat with N-P-K show the value of these on podzolized soils.

J. S. Joffe

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

Ivanov, S.N.

USSR/Cosmochemistry. Geochemistry. Hydrochemistry. D

Abs Jour : Ref Zhur - Khimiya, No. 8, 1957, 26609 D.

Author : Ivanov, S.N.
Inst : ~~Soil Institute~~ of Academy of Sciences of USSR.
Title : Phosphate Regime of Peats and Turfy-Pdozolic Soils of White Russian SSR.

Orig Pub : Avtoref. diss. dokt. s.-kh. n., Pochv in-t AN SSSR, M., 1956.

Abstract : No abstract.

Dissertation for Degree of Dr. Agricultural Sci
Soil Inst. im V. V. Dokuchayev

Card 1/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.

B-7

USSR/Physical Chemistry - Radiochemistry, Isotopes.

Abs Jour: Referat. Zhurnal Khimiya, No 3, 1958, 7104.

Author : S.N. Ivanov.
Inst : ——
Title : Application of Radioactive Phosphorus to Study of Exchange Reactions between Absorbed Phosphate Ions and Ferrocyanide Ions.

Orig Pub: Pochvovedeniye, 1957, No 7, 31-37.

Abstract: It is shown that it is possible to determine the part of non-silicate Fe and Al contained in soil in the absorption of phosphate ions by using KH_2PO_4 tagged with P^{32}. The tagged phosphate, which had been previously adsorbed on a soil sample, was desorbed by $Fe(CN)_6^{4-}$ ions, preferentially adsorbed by Fe compounds. The results of studies of various soils by this method are given.

Card : 1/1

-2-

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.; SHAGALOVA, E.D.

Use of P^{32} for studying the phosphorus uptake by early cabbage using various methods of fertilizer placement. Dokl. AN BSSR 8 no. 1:57-59 Ja '64. (MIRA 17:5)

1. Nauchno-issledovatel'skiy institut pochvovedeniya Ministerstva sel'skogo khozyaystva BSSR.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.

Goldfish (Carassius auratus Gibelio (Bloch)) in Lake Balkhash. Zool. zhur. 38 no.6:933-934 Je '59. (MIRA 12:11)

1. Balkhash Branch of the All-Union Research Institute of Lake and River Fishery Management.
(Balkhash, Lake--Carp)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.; VOROB'YEVA, N.B.

Adaptability of mysids to increased mineralization of water in Eastern Balkhash. Zool.zhur. 41 no.1:138-139 Ja '62. (MIRA 15:4)

1. Laboratory of Ichthyology, Kara-Kalpak Branch of the Academy of Sciences of the Uzbek S.S.R. (Nukus), and Balkhash Branch of the Institute of Ichthyology and Fishery Management, Academy of Sciences of the Kazakh S.S.R.
(Balkhash Lake--Schizopoda)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.; VOROB'YEVA, N.B.

Seasonal fluctuations of the residual population and biomass of mysids in Lake Balkhash. Zool. zhur. 42 no.1:131-133 '63. (MIRA 16:5)

1. Laboratory of Ichthyology of the Karakalpak Branch of the Academy of Sciences of the Uzbek S.S.R., Nukus, and Balkhash Department of the Institute of Ichthyology and Fishery Management, Academy of Sciences of the Kazakh S.S.R., Balkhash.
(Balkhash, Lake—Mysidae)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.

Mylopharyngodon piceus Rich. and Hypophthalmichthys molitrix Val. in the southern part of the Aral Sea. Trudy VNIRO 55:186-198 '64. (MIRA 18:4)

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CA

23

The strengths of fiber bonds in paper. S. N. Ivanov. *Bumazh. Prom.* 23, No. 3, 8-17(1948).—Unbleached sulfate and sulfite pulps were beaten in H_2O and anhyd. alc. in an exptl. beater and samples were taken up to 70° (Schopper-Riegler), after which the pulp was compressed to various pressures from 0 to 200 atm. Paper strength was found to increase with pressure as well as with degree of beating. The 2 main factors in paper strength are adhesiveness (due to H-bond formation in beating in H_2O) and cohesiveness (due to surface fiber roughness).

Marshall Sittig

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

PROCESSES AND PROPERTIES INDEX

CA

23

The problem of paper strength. S. N. Ivanov. *Bumazh Prom.* 23, No. 6, 6-13(1948); cf. *C.A.* 42, 9170g.—A formula is presented for the calcn. of paper strength, R, in kg., from fundamental considerations as follows: $R = M\pi dls/8 \times [(n-1)/n] + KM\pi d^2p/4$, where M is the no. of fibers in the transverse section of the test piece of paper in the Schopper dynamometer, d is the av. diam. of the fibers in the paper in mm., l is the av. length of the fibers in the paper in mm., s is the cohesive strength in kg./sq. mm. as calcd. by the formula $s = 0.002\sqrt{8100 - (100 - g)^2}$, where g is the Schopper-Riegler degree of beating, n is the no. of layers of fiber in a thickness of paper, K is a coeff. indicating the percentage of the fiber involved in the break, and p is the tensile strength of the fiber in kg./sq. mm. The value of the second term of the equation was assumed to be 20% of the first term. Close agreement was obtained between calcd. and exptl. results and this formula is proposed for the manuf. of paper of definite strength characteristics on the paper machine. M. S.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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C. 4

The influence of beating on the properties of pulp and paper. S. N. Ivanov. *Bumazh. Prom.* 25, No. 3, 10-19 (1950).—There is outlined the effect of variation in the degree of beating (Schopper-Riegler) on fiber length, breaking length, and air permeability in lab. and com. expts. on unbleached sulfate and bleached sulfite pulp. M. Sittig

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

1. IVANOV, S. N.

2. USSR (600)

4. Paper-Making Machinery

7. Continuous pulping process in jordans. Bum.prom 27 no. 7, 1952.

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

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

SHUKHMAN, F.G., kandidat tekhnicheskikh nauk; IVANOV, S.N., redaktor; LAZARENKO, A.P., redaktor; GRODNITSKAYA, Ye.M., redaktor izdatel'stva; VOLKHOVER, R.S., tekhnicheskiy redaktor

[Paper-making machinery] Bumagodelatel'nye mashiny. Moskva, Goslesbumizdat, 1954. 239 p. (MLRA 10:7)
(Paper-making machinery)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

ALEKSEYEV, A.A., inzhener, redaktor; ASHKENAZI, K.M., doktor tekhnicheskikh nauk, redaktor; GRABOVSKIY, V.A., kandidat tekhnicheskikh nauk, redaktor; GORBACHEV, A.N., kandidat tekhnicheskikh nauk, redaktor; IVANOV, S.N., kandidat tekhnicheskikh nauk, redaktor; LAPIN, P.S., kandidat tekhnicheskikh nauk, redaktor; NEPENIN, N.N., doktor tekhnicheskikh nauk, redaktor; PUZYREV, S.A., kandidat tekhnicheskikh nauk, redaktor; RYUKHIN, N.V., kandidat tekhnicheskikh nauk, redaktor; FLYATE, D.M., kandidat tekhnicheskikh nauk, redaktor; SHAPIRO, A.D., kandidat tekhnicheskikh nauk, redaktor; ELIASHBERG, M.G., kandidat tekhnicheskikh nauk, redaktor; KHUDYAKOVA, A.V., redaktor; VOLKHOVER, R.S., tekhnicheskiy redaktor.

[Paper maker's handbook] Spravochnik bumazhnika (tekhnologa) Moskva, Goslesbumizdat. Vol. 1 1955. 790 p. (MLRA 8:10)
(Paper industry)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

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IVANOV, S.N., kandidat tekhnicheskikh nauk.

External defects of paper and their prevention. Bum.prom. 20 no.4:24-30 Ap '55. (MLRA 8:6)
(Paper)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N., kandidat tekhnicheskikh nauk

Paper tearing on paper making machines and ways to avoid it. Bum. prom. 30 no.9:21-22 S '55. (MIRA 8:12)
(Paper making machinery)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N., kandidat tekhnicheskikh nauk.

Paper quality control during papermaking machine operations.
Bum.prom.31 no.4:10-13 Ap '56. (MLRA 9:7)
(Paper industry—Quality control)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

LARIN, P.S., kandidat tekhnicheskikh nauk; IVANOV, S.N., kandidat tekhnicheskikh nauk; RUBEKIN, B.A., inzhener-tekhnolog.

About the article "Pulp separation in continuous beater roll grinding". Bum.prom.31 no.4:21-22 Ap '56. (MLRA 9:7)

1.TSentral'nyy nauchno-issledovatel'skiy institut bumagi (for Larin, Rubekin).2.Lesotekhnicheskaya Akademiya imeni S.M.Kirova (for Ivanov).
(Woodpulp industry)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S. N.

Indicators of the quality of paper during its manufacture in the paper machine. p. 194.

PAPIR A CELULOSA. Vol. 11, no. 9, Sept. 1956

Praha, Czechoslovakia

SOURCE: East European List (EEAL) Library of Congress, Vol. 6, No. 1, January 1957

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

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IVANOV, S.N.

ALEKSEYEV, A.A., inzhener, redaktor; ASHKENAZI, K.M., doktor tekhnicheskikh nauk, redaktor; GRABOVSKIY, V.A., kandidat tekhnicheskikh nauk, redaktor; GORBACHEV, A.N., kandidat tekhnicheskikh nauk, redaktor; IVANOV, S.N., kandidat tekhnicheskikh nauk, redaktor; LARIN, P.S., kandidat tekhnicheskikh nauk, redaktor; NEPENIN, N.N., doktor tekhnicheskikh nauk, redaktor; PUZYREV, S.A., kandidat tekhnicheskikh nauk, redaktor; RYUKHIN, N.V., kandidat tekhnicheskikh nauk, redaktor; FLYATE, D.M., kandidat tekhnicheskikh nauk, redaktor; SHAPIRO, A.D., kandidat tekhnicheskikh nauk, redaktor; ELIASHBERG, M.G., kandidat tekhnicheskikh nauk, redaktor; KHUDYAKOVA, A.V., redaktor izdatel'stva; KARASIK, N.P., tekhnicheskiy redaktor

[Paper maker's handbook] Spravochnik bumazhnika (tekhnologa). Moskva, Goslesbumizdat, Vol.2., book 1. 1956. 458 p. (MLRA 10:2)

1. Leningrad TSentral'nyy nauchno-issledovatel'skiy institut tsellyuloznoy i bumazhnoy promyshlennosti (Paper industry)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N., kandidat tekhnicheskikh naik, dotsent.

Productivity standards of papermaking machines. Bum. prom. 31 no.7:9-12 Jl '56. (MLRA 9:10)

1. Ordena Lenina Lesotekhnicheskoy akademii imeni S.M. Kirova. (Papermaking machinery)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N., inzhener; VERTINSKIY, N.K., inzhener; RADKEVICH, V.T., inzhener.

The D-348 all-purpose painting machine. Stroi.i dor.mashinostr. 1 no.10:25-26 O '56. (MLRA 9:11)

(Painting, Industrial)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

SHUKHMAN, Fayvish Gilelovich; IVANOV, S.N., red.; FEDOROV, B.M., red. izd-va; BRATISHKO, L.V., tekhn.red.

[Paper machines] Bumagodelatel'nye mashiny. Moskva, Goslesbumizdat. Pt.2. 1957. 299 p. (MIRA 12:7)
(Papermaking machinery)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

ALEKSEYEV, A.A., inzhener, redaktor: ASHKENAZI, K.M., doktor tekhnicheskikh nauk, redaktor; GRABOVSKIY, V.A., kandidat tekhnicheskikh nauk, redaktor; GORBACHEV, A.N., kandidat tekhnicheskikh nauk, redaktor; IVANOV, S.N., kandidat tekhnicheskikh nauk, redaktor; LARIN, P.S., kandidat tekhnicheskikh nauk, redaktor; NEPENIN, N.N., doktor tekhnicheskikh nauk, redaktor; PUZYREV, S.A., kandidat tekhnicheskikh nauk, redaktor; RYUKHIN, N.V., kandidat tekhnicheskikh nauk, redaktor; FLYATE, D.M., kandidat tekhnicheskikh nauk, redaktor; SHAPIRO, A.D., kandidat tekhnicheskikh nauk, redaktor; ELIASHBERG, M.G., kandidat tekhnicheskikh nauk, redaktor; PUZYREV, S.A., redaktor; PYUKHIN, N.V., redaktor; KHUDYAKOVA, A.V., redaktor izdatel'stva; KARASIK, N.P. tekhnicheskiy redaktor

[Paper maker's manual] Spravochnik bumazhnika; tekhnologa. Moskva, Goslesbumizdat. Vol. 2, book 2. 1957. 433 p. (MLRA 10:4)

1 Leningrad. TSentral'nyy nauchno-issledovatel'skiy institut tsellyuloznoy i bumazhnoy promyshlennosti.
(Paper industry)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N., dost.

Using oxidized starch in the manufacture of paper. Bum. prom. 33 no.3:2-3 Mr '58. (MIRA 11:4)

1. Lesotekhnicheskaya akademiya im. S.M. Kirova.
(Sizing (Paper)) (Starch)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N., kand.tekhn.nauk

New developments in the manufacture of paper. [Trudy] NTO bum.i der.prom. no.8:123-143 '59. (MIRA 16:2)
(Paper)
(Papermaking machinery)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, Sergey Nikolayevich. Prinimal uchastiye EYDLIN, I.Ya., kand. tekhn.nauk. KUDRIK, V.I., kand.tekhn.nauk, retsenzent; PEREKAL'SKIY, N.P., retsenzent; FLYUTE, D.M., red.; SIDEL'NIKOVA, L.A., red.izd-va; BACHURINA, A.M., tekhn.red.

[Technology of paper manufacture] Tekhnologiia bumagi. Moskva, Goslesbumizdat, 1960. 719 p. (MIRA 13:5)

1. Kafedra tsellyulozno-bumazhnogo proizvodstva Leningradskogo tekhnologicheskogo instituta (for Perekal'skiy).
(Paper industry)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.

New method for a rapid determination of paper pulp concentration. Bum.prom. 35 no.5:31 My '60. (MIRA 13:7)

(Woodpulp)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N., dots.

New papermaking machines. Bum.prom. 35 no.10:28-29 O '60. (MIRA 13:10)

1. Leningradskaya lesotekhnicheskaya akademiya im.S.M.Kirova.
(Papermaking machinery)

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ALEKSEYEV, A.A., inzh., red.; ASHKENAZI, K.L., doktor tekhn.nauk, red.; GRABOVSKIY, V.A., kand.tekhn.nauk, red.; GORBACHEV, A.N., kand.tekhn. nauk, red.; ~~IVANOV, S.N.,~~ kand.tekhn.nauk, red.; LARIN, P.S., kand. tekhn.nauk, red.; NEPENIN, N.N., doktor tekhn.nauk, red.; PUZYREV, S.A., kand.tekhn.nauk, red.; RYUKHIN, N.V., kand.tekhn.nauk, red.; FLYATE, D.M., kand.tekhn.nauk, red.; SHAPIRO, A.D., kand.tekhn.nauk, red.; ELIASHBERG, M.G., doktor tekhn.nauk, red.; KHUDYAKOVA, A.V., red.izd-va; SIDEL'NIKOVA, L.A., red.izd-va; LOBANKOVA, R.Ye., tekhn.red.

[Manual for paper industry technicians] Spravochnik bumazhnika; (tekhnologa). Moskva, Goslesbumizdat. Vol.3. 1961. 719 p. (MIRA 14:6)

1. Leningrad. TSentral'nyy nauchno-issledovatel'skiy institut tsellyuloznoy i bumazhnoy promyshlennosti.
(Paper products)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

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IVANOV, S.N.

Selecting efficient systems of grinding in manufacturing paper from bleaced woodpulp. Bum. prom. 36 no.12:8-11 D '61. (MIRA 15:1)

1. Lesotekhnicheskaya akademiya im. S.M. Kirova.
(Papermaking machinery)
(Woodpulp)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.; LYADOVA, N.V.

Use of tower and digester acids in the preparation of activated silicate. Bum.prom. 36 no.2:15-18 F '61. (MIRA 14:2)

1. Leningradskaya ordena Lenina lesotekhnicheskaya akademiya (for Ivanov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut bumagi i tsellyulozy (for Lyadova).
(Paper) (Silicate) (Acids)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.; DEMCHENKOV, P.A.

Modified types of starch used in paper production. Bum. prom. 36 no.7:9-12 Jl '61. (MIRA 14:9)

1. Leningradskaya ordena Lenina lesotekhnicheskaya akademiya im. S.M.Kirova.

(Paper industry) (Starch)

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IVANOV, S.N.; GORSKIY, G.M.

Use of synthetic fibers for the manufacture of paper and nonwoven fabrics. Bum.prom. 37 no.10:23-26 O '62. (MIRA 15:11)

1. Leningradskaya ordena Lenina lesotekhnicheskaya akademiya im. S.M. Kirova.
(Textile fibers, Synthetic)
(Paper)
(Nonwoven fabrics)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

DEMIDENKO, Ye.I.; IVANOV, S.N.; LAPIDUS, M.Kh.

Determining certain parameters of an automatic press without connecting rod and with self-feeding of the strip. Kuz.-shtam. proizv. 5 no.11:26-30 N '62. (MIRA 17:1)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.

Mineral fillers in paper production and their industrial specifications. (MIRA 16:12)
Trudy IGEM no.95:98-103 '63.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.

BEL'CHENKO, G.I., dotsent, kandidat tekhnicheskikh nauk; IVANOV, S.N., inzhener.

Some rolling defects of thin sheets. Stal' 15 no.2:149-152 F '55. (MLRA 8:5)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Sheet metal)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S. N.

"Investigation of the effect of deformation on the graphitization of white cast iron." Min Higher Education USSR. Dnepropetrovsk Order of Labor Red Banner Metallurgical Inst imeni I. V. Stalin. Dnepropetrovsk, 1956. (Dissertation for the Degree of Candidate in Technical Science).

SO: Knizhnaya letopis', No. 16, 1956

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[illegible] on the [illegible] of iron alloys [illegible] Ivanov [illegible] Izvest. Akad. [illegible] 7 [illegible] 1956, No. 10, 3-11 — Deformation effects were studied upon the graphitization of a pre-eutectic coarsely cryst. white iron modified with Mg (C 3.12, Si 0.49, P 0.44, S 0.008, Mg 0.062%) in which graphite seps. in the undeformed metal as spherical inclusions, readily observable under a microscope, when formed out of contact with the eutectic cementite. When in contact with cementite and the solid soln. graphite grows non-uniformly forming inclusions of irregular shape, which is not affected by deformation with a load of 60 and 120 kg./

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sions, readily observable under a microscope, when formed out of contact with the eutectic cementite. When in contact with cementite and the solid solution, graphite grows non-uniformly, forming inclusions of irregular shape, which is not affected by deformation with a load of 60 and 120 kg./sq. mm. With 180 kg./sq. mm. load the no. of inclusions becomes, however, much larger, and they assume a shape of flat platelets with thickened edges. Their shape is explained by a rapid filling of the microscopic cracks with graphite. At this stage, C becomes readily detached from cementite at all graphitization stages. After the cracks are filled, graphitization from cementite comes virtually to an end, because it could proceed only by the diffusion of low-mobility Fe, Mn, Si atoms. At the contact with ferrite and [illegible] however, the process does proceed further, which [illegible] diffusion towards the inclusion. [illegible] of the atoms in the matrix [illegible]

W. M. Sternberg

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which shows that it is due not to a C diffusion towards the inclusion, but to the diffusion of the atoms in the matrix away from it.

W. M. Sternberg

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IVANOV, S.N.

129-10-1/12

AUTHOR: Bunin, K.P., Corresponding Member Ac.Sc. Ukraine, and Ivanov, S.N., Candidate of Technical Sciences.

TITLE: On the transformation of cementite into austenite and ferrite during graphitisation and decarburisation of iron. (O prevrashchenii tsementita v austenit i ferrit pri grafitizatsii i obezuglerozhivanii chuguna)

PERIODICAL: "Metallovedeniye i Obrabotka Metallov" (Metallurgy and Metal Treatment), 1957, No.10, pp. 2 - 4 (U.S.S.R.)

ABSTRACT: Data are given on the microscopic transformation of cementite into austenite and ferrite, which were obtained in investigating the graphitisation and decarburisation of magnesium-inocculated below-eutectoidal white iron of the following composition: 3.12% C, 0.49% Si, 0.38% Mn, 0.062% Mg, 0.44% P, 0.008% S. The specimens were cubes 10x10x10 mm cut from a 7 ton cylindrical ingot of 800 mm dia. Graphitisation annealing was effected in vacuum at 950, 850 and 680 C and some experiments were carried out at 1 000 and 1 100 C. The character of the change of the carbide phase was determined by investigating specimens for which the isothermal annealing was stopped after various time intervals. Under the investigated conditions of transformation of the cementite into austenite and ferrite, solution of the cementite is possible

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24897

S/109/61/006/008/017/018
D207/D304

9.4300

AUTHOR: Ivanov, S.N.

TITLE: Impurities distribution in the vicinity of welded contact on gallium arsenide

PERIODICAL: Radiotekhnika i élektronika, v. 6, no. 8, 1961, 1404 - 1405

TEXT: In the present short communication the author gives the results of experimental determining the impurities distribution in the vicinity of the rectifying contact of diodes made of materials with various intrinsic resistances. The method used was based on the measurement of dependence of contact capacity C on reverse bias at SHF. The diodes were prepared from the n-type gallium having intrinsic resistance ρ = 0.006 and 0.04 ohm. cm the majority carrier concentration and Hall mobility were determined from measuring the Hall constant and the specific resistance. The diode wafers had dimensions 1.7 • 1.7 • 0.5 mm etched in a mixture of alkali and hydrogen peroxide. The rectifying contact was formed by de-

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positing a mixture of 9 % $Z_n + S_n$ onto a thin copper or silver wire (diameter of point about 5 microns) and welded to the crystal by passing a pulse of current 0.25 - 0.5 amp. with 10 msec duration in the foreward direction. The results of the subsequently analyzed static volt ampere characteristics showed the form $I \sim e^{\alpha u}$ dependance where $\alpha \cong 30$ volt^{-1}. From the obtained data it follows (Figs. 1 and 2) that the dependence of C on reverse bias U_{bias} has the form $C \sim (\varphi_k + U_{bias})^{-\frac{1}{n}}$ where $\varphi_k = 1$ volt. For diodes with $\rho = 0.04$ ohm.cm $n \cong 3$ and such a dependence means a nearly linear distribution of impurities near the contact. For diodes with $\rho = 0.006$ ohm.cm, n = 2 which means a sharply defined distribution. The process of welding for materials having $\rho = 0.04$ ohm.cm, seems to introduce irreversible change in concentration and doping in the vicinity of contacts. This may be related to the diffusion process of impurities or to the formation of acceptor centers under

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Impurities distribution in ... S/109/61/006/008/017/018
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the heavy pressure of the contact point. The latter supposition was checked with the following experiment. The gallium arsenide samples with ρ = 0.04 ohm.cm and dimensions 10 · 2 ·2 mm were heated for 1 min by current up to 700-800°C. The comparison of the Hall constant and of specific resistance before and after heating has shown that both constants increase sharply, the Hall mobility remaining constant. Thus, the heating of the material during the process of welding may result in an increase of specific resistivity and in a change of impurity concentration under the contact. There are 2 figures, 1 table, and 6 references: 2 Soviet-bloc and 4 non-Soviet-bloc. The references to the English-language publications read as follows: D.A. Jenny, Proc. IRE, 1958, 46, 4, 717; W.M. Sharpless, Bell System Techn. J., 1959, 38, 1, 259; J.N. Allen, J. Electronics and Control, 1959, 7, 3, 254; J.J. Wysocki, J. Appl. Phys. 1960, 31, 9, 1686.

SUBMITTED: February 14, 1961

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

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D207/D304

Impurities distribution in ...

Fig. 1.

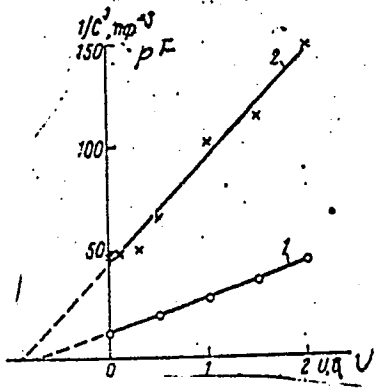
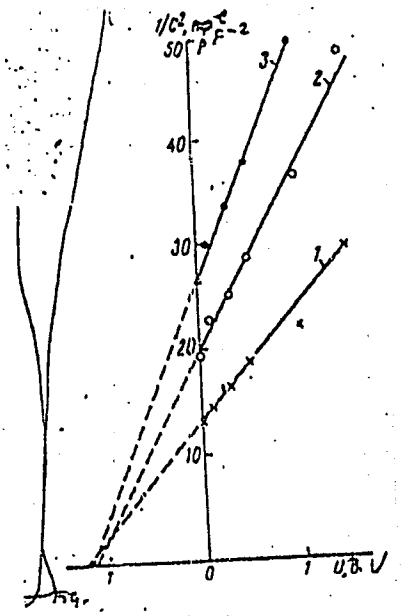


Fig. 2.



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L 27218-65 EWT(m)/EWP(t)/EWP(b) IJP(c) JD

ACCESSION NR: AP5002903 S/0109/65/010/001/0096/0101

AUTHOR: Belova, N. A.; Ivanov, S. N.

TITLE: Investigation of electron-hole junctions of low-resistivity germanium

SOURCE: Radiotekhnika i elektronika, v. 10, no. 1, 1965, 96-101

TOPIC TAGS: germanium semiconductor, semiconductor junction

ABSTRACT: As the peculiarities of behavior of low-resistivity (0.01 ohm-cm) Ge junctions cannot be explained by existing theories, the authors analyze Soviet and American published experimental data and advance a new qualitative explanation for the observed phenomena. The assumption is made that the current in such junctions consists of two parts: a conventional diffusion component and an "excess" component. The nature of the second component is connected with the allowed states within the forbidden band (by the levels formed with the introduction of Ni, Au, Cu, or by the levels of crystal-structure defects). Insofar as the

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ACCESSION NR: AP5002903

above characteristics are inherent to the excess current in a tunnel diode, it is natural to assume that the above "excess component" also owes its existence to a tunnel-type infiltration of electrons from local energy levels in the forbidden band of the semiconductor through the potential barrier of the p-n junction. "In conclusion, the authors wish to thank N. Ye. Skvortsova for discussing the results and her valuable comments." Orig. art. has: 6 figures, 2 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 28Oct63 ENCL: 00 SUB CODE: EC

NO REF SOV: 005 OTHER: 003

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Ca

8

The Degtyarka copper ore deposits. M. I. Merkulov and S. N. Ivanov. *Tsvetnye Metal.* 1935, No. 8, 18-35. A description of the geology, with an est. of available and probable ores of Zn, Cu and Fe. B. N. Daniloff

COMMON ELEMENTS

COMMON VARIABLES INDEX

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ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX

CA

7 **Metamorphism of the Ural pyrite deposits** S. N. Ivanov. *Sovet Geol.* 9, No. 2, 16-65 (1940). The shift tion of sulfide (6) and vein (5) minerals (chiefly pyrite and cerussite) and the similarity of the various pyrite deposits indicates that they were of metamorphic rather than of hydro- or meso-thermal origin. F. H. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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Ca

8

Gumeshev copper deposits in the Urals. S. N. Ivanov. *Sovietsk. Geol.* 1941, No. 2, 81-98. — The av. Cu content of the rocks is 0.05%, that of the quartz-carbonate skarns is 1.81%. Pyroxene-garnet, amphibole-epidote, olivine and magnetite skarns are also described. Among the important minerals are pyrite, magnetite, garnet, chalcopyrite, pyroxene, chlorite; less widespread are cerussite, zoisite, antigorite, tetrahedrite and sphalerite; arsenopyrite is very rare. The deposits are of a contact metasomatic type. F. H. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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CA

New data on the genesis of pyrite deposits of the middle Urals. S. N. Ivanov. *Bull. acad. sci. U.R.S.S., Sér. géol.* 1943, 20–4; *Mineralog. Abstracts* 9, 238(1946); cf. *C.A.* 33, 9210[1].—Cubic crystals of pyrite show when etched with ammonia distinct zonality and reveal an early form of pentagonal dodecahedra. This supports Zavaritskii's theory of pyritic ore formation in the Urals (cf. preceding abstracts). Michael Fleischer

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Zavaritskii. S. N. Ivanov. *Bull. acad. sci. U.R.S.S., Sér. géol.* 1944, No. 5, 125-35(in English, 135-6).—Since most of the Cu ores in the region have been assocd. with deep intrusive deposits and quartz-sericite shale, large stretches in the region lacking these deposits have not been prospected for Cu. The new theories of Zavaritskii have proved that the Cu ores need not necessarily be assocd. with such deposits of the cycle giving the shales, but with an earlier cycle. It has also been shown that the sericite was a secondary formation. S. Joffe

COMMON ELEMENTS

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Indium-bearing greenockite from the Sibai pyrite deposits in the Urals. S. N. Ivanov (Uralian Branch of the Acad. of Sci. of the U.S.S.R., Sverdlovsk). *Compt. rend. acad. sci. U.R.S.S.* 54, 619-22(1946)(in English).—Spectroscopic analyses of the greenockite gave medium-strength lines of In. Mineralogical data, with somewhat detailed crystallography, are given. I. E. H.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S. N.

Ivanov, S. N. and Garbutovskikh, T. S. "A rare finding of supergene minerals in the Ural at a depth of 500 meters," Trudy Gorno-geol. in-ta (Akad. nauk SSSR, Ural'skiy filial), Issue 14, 1948, p. 81-83

SO: U-3850, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

CA

Zonal growth of pyrite in ore deposits of the Ural. S. N. Ivanov. (Ural Branch, Acad. Sci. U.S.S.R.). *Zapiski Vsesoyuz. Mineral. Obshchestva* (Mém. soc. russe minéral.) 79, 113-26(1950).—The zonal growth of pyrite, studied in polished sections, is characteristically of a collomorphous texture, i.e. crystn. from a colloid-disperse gel. The higher the degree of metamorphism in the deposits is, the less distinct is the zonal structure; it is typical in all the deposits formed in moderate depths, and at relatively low temps. The structure is compared to the frequent reaction rims observed in Middle Ural effusive rocks, e.g. the albite rims around saussuritized plagioclase. Geometric analysis of the zonal structures shows that in early stages the crystals had a pentagon-dodecahedral form, and that the later-grown layers had much simpler forms, e.g. the cube. Chalcopyrite and sphalerite sometimes also quartz and sericite are formed and included in different stages of the crystn., always independent of the pyrite borders, which are very pure. The Zn-Cu sulfides are distinctly segregated from the Fe sulfides and intersect the zones. The pyrite ore of Karabash is characterized also by a first stage of pentagon-dodecahedral growth, followed by a strong stress action which elongated the crystals in their cross sections. The Zn-Cu ores assocd. with this gneissic variety of pyrite deposits also typically show strong deformation. W. Ritel

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IVANOV, S.

Microlite

Microlite. Nauka i zhizn' 19, no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.

Growth zones of pyrite crystal grains in Ural pyrite deposits. Zap.Vses.min.ob-va 84 no.4:495-497 '55. (MLRA 9:2)

1.Gorno-geologicheskiy institut Ural'skogo filiala Akademii nauk SSSR. (Ural Mountains--Pyrites)

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MALAKHOV, Anatoliy Alekseyevich; ~~IVANOV, S.N.,~~ prof., retsenzent; POKROVSKAYA, I.M., prof., retsenzent; CHERNOUSOV, Ya.M., doktor geologo-mineral.nauk, retsenzent; ARTYUSHINA, V., red.

[Stone documents] Kamennye dokumenty. Sverdlovskoe knizhnoe izd-vo, 1957. 178 p. (MIRA 12:1)

(Geology)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

SSSR H2 no. 4.7

IVANOV, S.N.

Some basic problems in the distribution of sulfide mineralization in pyrite provinces. Zakonom. razm. polezn. iskop. 2:97-109 '59. (MIRA 15:4)

1. Gorno-geologicheskiy institut Ural'skogo filiala AN SSSR. (Pyrites)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619120007-5

IVANOV, S.N.

Some problems relative to the localization of ore deposits of the pyrite type. Trudy Gor.-geol. inst. UFAN SSSR no. 32:135-149 '59. (MIRA 14:5)

(Pyrites)

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