"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

DAKHNO, G., inzh.; AGAFONOV, Yu., inzh.; IVONCHIK, A., tekhnik

Reserves for lowering the cost of pile foundations in Noril'sk. Zhil. stroi. no.1:12-14 '64. (MIRA 18:11)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONIN, A.I.

137-58-2-2823

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 89 (USSR)

AUTHORS: Vorotyntsev, Yu. V., Ivonin, A. I.

TITLE: A Means of Studying the Performance of Blooming-mill Operators (Metod issledovaniya raboty operatorov blyumingov)

PERIODICAL: Tr. In-ta chernoy metallurgii AN UkrSSR, 1957, Vol 11 pp 143-151

ABSTRACT: Results are given of a time study of the operations that occur during blooming-mill rolling. Used in the study was a specially designed timing device which recorded simultaneously on moving tape the operating time of all 7 of the blooming mill's electric motors and recorded also the time of operation in either direction. A description is given of the timing device and of a supplementary design for it which would make it possible to record on the same tape the time elapsing from the moment the metal is engaged by the rolls until the moment it emerges from the rolls. Use of the timing device afforded the possibility of comparing the performance of blooming-mill operators, of developing the best methods for doing the work, and of enabling the operators to study, learn, and adopt such methods. A similar oscillo-

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137-58-2-2823

A Means of Studying the Performance of (cont.)

graphic method was found helpful in determining the actual work load on the motor, the sequence and duration of the engagement of the various mechanisms, and the manner in which the various operations are applied ---all of which is necessary if the latent potential of blooming mills is to be exploited.

1. Rolling mills--Operation

V.D.

Card 2/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

ZHERDEV, I.T., doktor tekhn.nauk; IVONIN, A.I., kand.tekhn.nauk; PISHCHIKOV, G.P., inzh.; NIKOLAYEV, A.N., inzh.

Using strain-gauge method in determining specific pressures caused by piercing. Biul.nauch.-tekh.inform.VNITI no.4/5:31-38 '58. (MIRA 15:1)

(Strain gauges) (Rolling (Metalwork))

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVANOV-EMIN, B.N.; NISEL'SON, L.A.; IVOLGINA, A.T.

Solubility of scandium hydroxide in sodium hydroxide solutions. Zhur. neorg. khim. 5 no. 12:2841-2842 D '60. (MIRA 13:12)
(Scandium hydroxide)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 2, p 284 (USSR) SOV/137-59-2-4317

AUTHORS: Zherdev, I. T., Ivonin, A. I., Pishchikov, G. P., Nikolayev, A. N.

TITLE: An Extensometric Method for Determination of Specific Pressures During Piercing Operations (Tenzometricheskiy metod opredeleniya udel'nykh davleniy pri proshivke)

PERIODICAL: Byul. nauchno-tekhn. inform. Vses. n.-i. trubnyy in-t, 1958, Nr 4-5, pp 31-38

ABSTRACT: The determination of specific and total roll pressures (RP) during piercing operations was conducted on a laboratory rolling-piercing mill at the VNITI [diameter of the roll (R) at the gorge: 158 mm, length of the body of the R: 140 mm] on specimens made of 1Kh18N9T steel, heated to a temperature of approximately 1150°C, and having a length of 120 mm and a diameter of 35 mm. Emanating from the length of the deformation area, which was determined earlier by the method of the deceleration of a pierced specimen passing through the rolls, seven wire resistance pressure gages were placed along the length of the right working R (one at the gorge and three each along the length of the inlet and the outlet cones) in such a manner that they

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were inclined at an angle of 30° with respect to each other. In order to measure the total pressure, wire resistance strain gages were attached to the two pressure screws of the left working R. Indications from the measuring rods carrying the gages, the combined pressure gages, and the gages mounted on the pressure screws were calibrated with the aid of a special attachment on a tension testing machine. Inasmuch as the experimental conditions permitted registering the specific pressures in one sectional plane only, seven specimens were pierced in order to determine the pressure distribution over the entire deformation area. The readings of the gages were recorded on an oscillograph of the MPO-2 type, the rate of advance of the film amounting to 1 m/sec (in the case of specific pressures) and 0.05 m/sec (in the case of the total pressure). The tests demonstrated that the values of the total pressure, measured directly and computed from the specific pressures, practically coincide in the case of piercing without a mandrel and diverge by 20% or more during piercing operations with a mandrel. This latter circumstance is explained by the downward displacement of the axis of piercing with respect to the axis of the roll stand and by the radial distribution of the spot strain gages.

V. D.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

S/137/61/000/012/088/149
A006/A101

AUTHORS: Zherdev, I.T., Ivonin, A.I., Pishchikov, G.P.

TITLE: Experimental investigation of the pressure on the working surface of piercing mill rolls

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 35, abstract 12D284 ("Nauchn. tr. Dnepropetr. metallurg. in-t", 1959, no. 40, 115 - 128)

TEXT: The distribution of metal pressure along the deformation seat during piercing was investigated with the aid of wire pressure meters mounted on the working roll of the mill. The pressure on two clamping screws of each roll was measured with wire gauges glued onto each clamping screw. Grade X 25 T (Kh25T) and 1 X3H9T (1Kh3N9T) steel specimens were investigated. The location of the piercing axis above or below the mill axis causes non-uniform metal pressure on the working rolls. To assure a stable piercing process, the blank axis should be shifted in respect to the mill axis. To facilitate the exchange of the worn out ruler guide, the axis of piercing is usually located above the mill axis.

Card 1/2

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

Experimental investigation ... S/137/61/000/012/088/149
A006/A101

When determining the total pressure of metal on the piercing mill rolls, it is necessary to measure the pressure simultaneously on two working rolls.

N. Yudina

[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

GALLAY, Ya.S., dotsent; IVONIN, B.A., inzh.; POLNER, G.Ye., inzh.

Cleaning the surface of metal strip. Stal' 24 no.2:155-156 F '64.
(MIRA 17:9)

1. Severo-Zapadnyy zaochnyy politekhnicheskiy institut i Leningradskiy staleprokatnyy zavod.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONIN, F. M.

Ivonin, F. M. "The raising of colored foxes in state farms", Karakulevodstvo i zverovodstvo, 1949, No. 1, p. 55-58.

SO: U-3042, 11 March 53, (Letopis'nykh Statey, No. 10, 1949).

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONIN, F. M.

Fur Farming

Make every effort to increase productiveness of animals on state farms. Kar. i zver. 6 No. 1, 1953.

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

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONIN, I.P.

F

3710. MINERS OF ROSTOV DISTRICT ON OCCASION OF SECOND ANNUAL "MINERS' DAY". Ivonin, I.P. (Ugol (Coal), 1949, (8), 13-16). Some figures are given for increases in output and in degree of mechanisation. (L).

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONIN, Ivan Pavlovich, Geroy Sotsialistichnoy Pratsi; LOKOT', S.Ya., red.; VER, A.Ya., red.

[Lvov Economic Administrative Region] L'vivs'kyi ekonomichnyi administratyvnyi raion. Kyiv, 1958. 36 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser. 2, no.10). (MIRA 12:2)

1. Golova L'vivs'kogo radnargospu (for Ivonin).
(Lvov Economic Region--Economic conditions)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONIN, I.P., Geroy Sotsialisticheskogo Truda, laureat Stalinskoy premii

Important industrial AICA. Nauka i zhyttia 9 no.9:4-8 S '59.
(MIRA 13:1)

1. Predsedatel' sovnarkhoza L'vovskogo ekonomicheskogo i administrativnogo rayona.
(Lvov Economic Region--Industries)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONIN, I.P., Geroy Sotsialisticheskogo Truda

Coal miners of Lvov-Volyn' Basin strive for the fulfillment of the seven-year plan ahead of time. Ugol' 36 no.8:23-27 Ag '61. (MIRA 14:9)

1. Predsedatel' L'vovskogo sovnarkhoza.
(Lvov-Volyn' Basin--Coal mines and mining--Labor productivity)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

KHRUSHCHEV, N.S.; PODGORNYY, N.V.; ZASYAD'KO, A.F.; RUDAKOV, A.P.; KAZANETS, I.P.; SHILIN, A.A.; MEL'NIKOV, N.V.; BURMISTROV, A.A.; SHEVCHENKO, V.V.; MAYAKOV, L.I.; ROZENKO, P.A.; KUZ'MICH, A.S.; ZADEMIDKO, A.N.; BRATCHENKO, B.F.; STRUYEV, A.I.; KRASNIKOVSKIY, G.V.; BOYKO, A.A.; KAGAN, F.Ya.; USKOV, A.A.; VLADYCHENKO, I.M.; TOPCHIYEV, A.V.; DEGTYAREV, V.I.; KHUDOSOVTSEV, N.M.; GRAFOV, L.Ye.; IVANOV, V.A.; KRATENKO, I.M.; GOLUB, A.D.; IVONIN, I.P.; SAVCHENKO, A.A.; ROZHCHENKO, Ye.N.; CHERNEGOV, A.S.; MARKELOV, M.N.; LALAYANTS, A.M.; GAPONENKO, F.T.; POLUEKTOV, I.A.; SKLYAR, D.S.; PONOMARENKO, N.F.; POTAPOV, A.I.; POLYAKOV, N.V.; SUBBOTIN, A.A.; POLSTYANOY, G.N.; TRUKHIN, P.M.; TKACHENKO, A.G.; OSTROVSKIY, S.B.; NYRTSEV, M.P.; DYADYK, I.I.; SHPAN'KO, T.P.; RUBCHENKO, V.P.

Kondrat Ivanovich Pochenkov; obituary. Sov. shakht. 11 no.9: 48 S '62. (MIRA 15:9)
(Pochenkov, Kondrat Ivanovich, 1905-1962)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONIN, Ivan Pavlovich; DAVYDOV, Viktor Viktorovich; ZORIN, Leonid Fedorovich; IVANNIKOV, Ivan Andreyevich; AKSENOV, V.P., kand. tekhn. nauk, retsenzent; BYKHOVSKAYA, S.N., red. izd-va; MAKSIMOVA, V.V., tekhn. red.

[Open pit mining of native sulfur deposits] Otkrytaia razrabotka mestorozhdenii samorodnoi sery. Moskva, Gosgortekhizdat, 1963. 303 p. (MIRA 17:1)
(Sulfur mines and mining) (Strip mining)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONIN, M.A.

Length of meteors' flight as function of their brightness. Izv. AN Turk.SSR no.5:96 '56. (MLRA 9:12)

1. Institut fiziki i geofiziki Akademii nauk Turkmenskoy SSR. (Meteors)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

VOLOSHIN, A.I.; BOGOYAVLENSKIY, K.A.; AKHTYRCHENKO, A.M.; TURIK, I.A.; ZHIDKO, A.S.; LYALYUK, V.S.; GABAY, L.I.; ONOPRIYENKO, V.P.; STARSHINOV, B.N.; BABIY, A.A.; SAVELOV, N.I.; Prinimali uchastiye: TORYANIK, E.I.; VASIL'YEV, Yu.S.; SHEMEL', T.I.; SENYUTA, V.I.; BONDARENKO, I.P.; AMSTISLAVSKIY, D.M.; ANDRIANOV, Ye.G.; SERGEYEV, G.N.; ZAMAKHOVSKIY, M.A.; LYUKIMSON, M.O.; IVONIN, V.K.; TSIMBAL, G.I.; SEN'KO, G.Ye.; KONAREVA, N.V.; SOLODKIY, Yu.L.; LUKASHOV, G.G.; TARASOV, D.A.; GORBANEV, Ya.S.; SUPRUN, I.Ye.; TIKHOMIROV, Ye.I.; KONONENKO, P.A.; PROKOPOV, V.N.; GULYGA, D.V.; PLISKANOVSKIY, S.T.; PONOMAREVA, K.Ye.

Effect of the length of coking on coke quality and the performance of blast furnaces. Koks i khim. no.12:26-32 '61.
(MIRA 15:2)

1. Ukrainskiy uglekhimicheskiy institut (for Voloshin, Bogoyavlenskiy, Akhtyrchenko, Turik, Zhidko, Lyalyuk, Toryanik, Vasil'yev, Shemel'). 2. Zhdanovskiy koksokhimicheskiy zavod (for Gabay, Senyuta, Bondarenko, Amstislavskiy, Andrianov, Sergeyev, Zamakhovskiy, Lyukimson, Ivonin, TSimbal). 3. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov (for Onopriyenko, Starshinov, Babiy, Sen'ko, Konareva, Solodkiy). 4. Zavod "Azovstal'" (for Savelov, Lukashov, Tarasov, Gorbanev, Suprun, Tikhomirov, Kononenko, Prokopov, Gulyga, Pliskanovskiy, Ponomareva).

(Coke)
(Blast furnaces)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONINA, M.K.

Useful trip. Tekst.prom. 22 no.10:87 O '62. (MIRA 15:11)

1. Instruktor proizvodstvennogo obucheniya tkatskogo tsekha Rizhskogo kombinata "Rigas Audums".
(Vitebsk—Textile industry)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONINA, O.M.

PSHENITSYN, N.K.; IVONINA, O.M.

Gravimetric determination of palladium using 1,2-cyclohexanedione-dioxime (nioxime). Zhur. neorg. khim. 2 no.1:121-127 Ja '57. (MLRA 10:4)
(Palladium) (Cyclohexanedione)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

Ivonina, O. M.

AUTHORS: Pshenitsyn, N.K. and Ivonina, O.M. 565

TITLE: Solubility of Palladium Cyclohexanedionedioximate. (O Rastvorimosti Tsiklogeksandiondioksimata Palladiya.)

PERIODICAL: "Zhurnal Neorganicheskoy Khimii" (Journal of Inorganic Chemistry, Vol.II, No.2, pp.317-319. (U.S.S.R.)

ABSTRACT: For making more effective use of cyclohexanedionedioxime for the analysis of platinum metals, further information is necessary on the physical chemistry of the corresponding complex compounds. In addition to analytical usefulness such information would have theoretical significance.

The aim of the work described was to fill the gap in the literature on the solubility of palladium cyclohexanedionedioximate at 25 and at 70° in water and in hydrochloric-acid solutions at various concentrations.

At 25°C the solubility of the complex compound increases with increasing acidity (range studied 0.1 - 4.4 N). The solubility of the cyclohexanedionedioximate increased with increasing temperature. Under optimal conditions the solubility of the complex compound of palladium was less than that permissible for gravimetric determinations, and the solubility was in any case considerably lower than that of palladium dimethyldioximate.

There is one reference, Russian. 1 table.

Received 16 October, 1956.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONINA, O.M., Cand Chem Sci -- (diss) "~~Application~~ Use of dioximes in the analysis of platinum metals." Mos, 1958, 13 pp (Acad Sci USSR. Inst of General and Inorganic Chemistry im N.S. Kurnakova) 150 copies (KL, 28-58, 103)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

AUTHORS: Pshenitsyn, N. K., Ivonina, O. M. SOV/32-24-10-7/70

TITLE: Spectrophotometric Determination of Palladium With Nioxime and α-Benzyldioxime (Spektrofotometricheskoye opredeleniye palladiya s nioksimom i α-benzildioksimom)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 10, pp 1185-1189 (USSR)

ABSTRACT: A criticism of the colorimetric methods for the palladium determination is given in the survey by Beamish and McBryde (Bimish and Mak Brayd) (Ref 1). The tendency of palladium compounds to go into organic solvents with oximes has already been exploited by V. M. Peshkova and V. I. Shlenskaya (Refs 2 - 5). Menis and Rains (Menis and Rayns) (Ref 6) investigated the possibility of using α-furyldioxime for the colorimetric determination of palladium. Nielsch (Nil'sh) (Ref 7) described a colorimetric determination method for palladium with dimethylglyoxime. Hooker and Banks (Khuker and Benks) (Ref 8) used successfully 4-methyl- and 4-isopropyl-1,2-cyclohexanediondioxime for nickel- and palladium determinations. A table is given for the comparison of the properties of the dioximes which are recommended for the

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

SOV/32-24-10-7/70

Spectrophotometric Determination of Palladium With Nioxime and α-Benzyldioxime

spectrophotometric palladium determinations. The α-furyldioxime is apparently the most sensitive reagent. The reagents mentioned in the title and investigated in the present paper make possible a determination of palladium in the presence of a number of elements. It was found that an optimum optical density of the palladium-nioxime compound is obtained in the case of a double excess of the latter, whereas 10 % excess is sufficient for the reaction with α-benzyldioxime. The course of the analysis is given. The simple extraction has obvious practical advantages (Ref 10). According to a given diagram the oximate solutions of palladium in chloroform obey Beer's (Ber) Law. The maximum error of the palladium determination with oximes in the presence of Ni, Cu, Pb is 5 %. There are 3 figures, 3 tables, and 15 references, 9 of which are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR
(Institute of General and Inorganic Chemistry imeni N. S. Kurnakov, AS USSR)

Card 2/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONINA, O.M.

Amperometric titration of palladium with 1,2-cyclohexanedione dioxime. Zhur. anal. khim. 19 no.5:644-646 '64.

(MIRA 17:8)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR, Moskva.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

GINZBURG, Susanna Il'inichna; GLADYSHEVSKAYA, Klavdiya Antonovna; YEZERSKAYA, Natal'ya Anatol'yevna; IVONINA, Ol'ga Mikhaylovna; PROKOF'YEVA, Irina Vasil'yevna; FEDORENKO, Nina Vladimirovna; FEDOROVA, Aleksandra Nikolayevna; ZVYAGINTSEV, O.Ye., doktor khim. nauk, otv. red.; VOLYNETS, M.P., red.

[Manual on the chemical analysis of platinum metals and gold] Rukovodstvo po khimicheskomu analizu platinovykh metallov i zolota. Moskva, Nauka, 1965. 312 p. (MIRA 18:2)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

YURKOV, V.A.; IVONINSKAYA, L.A.

Physical properties of $CuAl_2$. Izv.vys.ucheb.zav.;fiz. no.1:138-143 '62. (MIRA 15:6)

1. Arkhangel'skiy lesotekhnicheskiy institut imeni V.V. Kuybysheva. (Copper-aluminum alloys)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

L 08322-67 EWT(m)/EWP(w)/EWP(t)/ETI IJP(c) JD

ACC NR: AR6033784 SOURCE CODE: UR/0058/66/000/007/E013/E013

AUTHOR: Ivoninskaya, Z. N.; Regel', A. R.

TITLE: Investigation of temperature dependence of resistance and thermoelectromotive force of bismuth-cadmium and bismuth-tin alloys of eutectic composition

SOURCE: Ref. zh. Fizika, Abs. 7E94

REF SOURCE: Uch. zap. Leningr. gos. ped. in-ta im. A. I. Gertsena, v. 265, 1965, 172-182

TOPIC TAGS: bismuth alloy, cadmium base alloy, tin base alloy, melting point, electric conductivity, temperature dependence, eutectic mixture, electromotive force

ABSTRACT: Measurements of the electric conductivity and the coefficient of thermoelectromotive force α have been made at temperatures ranging from room temperature to 500C, for the following systems: Bi-Cd compounds (40, 45 and 50 atomic % Bi), Bi-Sn compounds (38, 43, and 48 atomic % Bi), and pure components of these systems. The measuring method is described. Anomalies of the temperature dependence α near the melting point, as a function of the heating speed of the system, are discussed. [Translation of abstract]

SUB CODE: 09, 11, 20/

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONINSKIY, A., CHILINGARIAN, T., POPOV, V.

"Aerial Forest Mensuration, a New Technique of Forest Management" Tr. from the Russian. p. 117, (POLANA, Vol. 9, no. 5, May 1953, Praha, Czechslovakia).

SO: Monthly List of East European Accessions, LC, Vol. 2, No. 11, Nov. 1953, Uncl.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONINSKIY, A.

Principles in the organization of flights on foreign airlines. Grazhd.av. 13 no.1:35-37 Ja '56. (MLRA 9:5)
(Aeronautics, Commercial--Laws and regulations)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVONINSKIY, A.

Is it a quastion only of rights? Grazhd.av. 18 no.11:6-7 N '61. (MIRA 15:2)

(Aeronautics, Commercial)

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

ACC NR: AR6035100 SOURCE CODE: UR/0137/66/000/008/A012/A012

AUTHOR: Ivoninskiy, V. A.; Regel', A. R.

TITLE: Thermoelectric properties of the Bi_2Te_3 - Bi_2Se_3 system in the liquid state

SOURCE: Ref. zh. Metallurgiya, Abs. 8A79

REF SOURCE: Uch. zap. Leningr. gos. ped. in-ta im. A. I. Gertsena, no. 265, 1965, 183-192

TOPIC TAGS: thermoelectric property, electric conductivity, bismuth compound, thermoelectromotive force, bismuth telluride, bismuth selenide, telluride, selenide

ABSTRACT: The thermoelectric properties of the Bi_2Te_3 - Bi_2Se_3 system in the liquid state have been investigated at temperatures ranging from room level to 800—900°. Bi (99.97 %) and thrice-distilled Te and Se served as the initial material for producing these alloys. The selenium used was of the grade intended for use in selenium rectifiers. Measurements of both the electrical conductivity σ ($om^{-1} \cdot cm^{-1}$) and the thermoelectromotive force α (millivolt/deg) were conducted in specially designed vacuum quartz ampulae with welded-in tungsten

Card 1/2

UDC: 669-154:541.183

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

ACC NR: AR6035100

electrodes 0.5 mm in diameter. At the point of contact, the electrodes were shielded with graphite tips. Conventional d-c potentiometers were used. The impedance was measured in two directions of the current through the sample. Altogether, 25 samples of various composition were tested. An increase in σ was observed during melting in samples with higher Bi_2Te_3 content. A maximum value of σ was noted at 20 at % of Bi_2Te_3. The abrupt jump of σ during melting changes from 1.25 for Bi_2Se_3 to 5.3 for 20 at% of Bi_2Se_3. In certain temperature ranges beyond the melting point, the σ value increases in all samples with an increase in temperature. This is explained by the homopolar-bond dissociation process of the homopolar bonds. By further heating the alloys rich in Bi_2Te_3 above the melting point, a change in their temperature coefficient occurs, including a change in sign. Alloys rich in Bi_2Te_3 generate positive thermoelectromotive force α in the impurity conductivity band. At a temperature of $T > 300\,C$ $\alpha<0$ in all alloys, and increases as the temperature increases. It drops sharply at the melting point, and afterwards with increasing temperature it changes its sign to positive in all alloys concerned. Bibliography contains 16 titles. There are 3 figures and 3 tables. [Translation of abstract] [KP]

SUB CODE: 11, 20/

Card 2/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

L 04232-67 EWT(1)/EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) JD/WW/JG/AT

ACC NR: AR6031875 SOURCE CODE: UR/0058/66/000/006/E015/E015

26

AUTHOR: Ivoninskiy, V. A.; Regel', A. R.

B

TITLE: Electrothermic properties of a Bi_2Te_3—Bi_2Se_3 system in the liquid state

SOURCE: Ref. zh. Fizika, Abs. 6E118

REF SOURCE: Uch. zap. Lenningr. gos. ped. in-ta im. A. I. Gertsena, v. 265, 1965, 183-192

TOPIC TAGS: bismuth telluride, bismuth selenide, bismuth system, conductivity measurement, thermal emf measurement, thermoelectric Q factor

ABSTRACT: The conductivity and thermal emf of α alloys of the Bi_2Fe_3—Bi_2Se_3 system of various composition were measured in the temperature range of room temperature up to 800—900C. The thermoelectric Q-factor of liquid melts is evaluated, and it is shown that it can reach a value of $\sim$ 0.8. An evaluation of the forbidden zone width yielded values of 0.1 to 0.15 ev. The conductivity jump during melting was 1.3—5.5 for the investigated alloys. Anomalies in the temperature dependence of α in the vicinity of the melting temperature were detected. [Translation of abstract]

SUB CODE: 09, 07/

Card 1/1

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOS, J.

"The role of hygiene in eradication of mastitis." Vet. Fac., Zagreb

Stocarstvo 7 : 558-567, 1952

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOS, Dr. Josip

"The Significanceof Colostrum in the Resistence of Young Organisms to Bacterial Infections". Prof. of Zoohygiene, Vet. Faculty, Zagreb U.

SOURCE: Vet., SVEZAK 4, p. 712, 1953

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOSEVIC, M.

Development and characteristics of radio relay communications. p. 356. VAZDUHOPLOVNI GLASNIK. (Jugoslovensko ratno vazduhoplovstvo) Zemun.

Vol. 11, No. 3, May June 1955

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. 4, No. 12, December 1955

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOSEVIC, M.

Wave fields, their division, and names. p. 504.

VAZDUHOPLOVNI GLASNIK. (Jugoslovensko ratno vazduhoplovstvo) Zemun, Yugoslavia
Vol. 11, no. 4, July/Aug. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, Sept. 1959.

Uncl.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOSEVIC, Nebojsa, inz.

Introduction of the 380 kv. tension in the elctric-power system of Yugoslavia. Elektroprivreda 17 no. 1: 6-18 Ja '64.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOSEVIC, Nebojša, inz.

Preliminary computation of reactive forces in the electric-power system of Yugoslavia. Elektroprivreda 17 no. 3:134-146 Mr '64.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOVICH, D.I.

Preventing breakdown in an underwater gas pipeline. Gaz. prom. 7 no.11:46-47 N '62. (MIRA 17:9)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOVICH, V.A., Cand Tech Sci--(diss) "Certain problems of the non-linear theory of ~~shaft~~ rod vibrations." Len, 1958. 11 pp (Min of Higher Education USSR. Nos Order of Lenin Power Engineering Inst), 100 copies (KL,26-58, 110)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOVICH, V.A., aspirant

Nonlinear vibrations of slightly curved bars. Izv. vys. ucheb. zav.; mashinostr. no.1:27-35 '58. (MIRA 11:6)

1.Moskovskiy energeticheskiy institut.
(Elastic rods and wires--Vibration)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOVICH, V.A., inzh.

Natural bending nonlinear vibration of rods. Nauch.dokl.vys. shkoly; mash.i prib. no.1:96-101 '58. (MIRA 12:1)

1. Predstavleno kafedroy "Soprotivleniye materialov" Moskovskogo energeticheskogo instituta.
(Elastic rods and wires--Vibration)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

24(5)

AUTHOR: Ivovich, V.A. SOV/159-58-3-8/31

TITLE: The Ultraharmonic Oscillations of a Rod With a Mass Concentrated on a Moveable Mount

PERIODICAL: Nauchnyye doklady vysshey shkoly, Mashinostroyeniye i priborostroyeniye, 1958, pp 51-57 (USSR)

ABSTRACT: The author considers the conditions required for ultraharmonic solution of non-linear equations describing the oscillatory motion of a rod, whose moveable support has some concentrated mass. The axial shift of this mass creates inertia forces non-linearily connected with the transverse displacement of middle rod section. A number of other authors studied the harmonic solution of non-linear equation (Krylov and Bogolyubov, 1935; Bolotin, 1956 and Gol'denblat, 1948). However, the equation of forced, pseudoharmonic oscillations is essentially different from the equation of a linear

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

oscillator, since a number of different types of solutions may exist in dependence on the initial condition and also in the frequency relation of disturbing forces and small linear self-oscillations. These solutions describe harmonic, subharmonic and ultraharmonic oscillations. In his paper the author derives equations for the ultraharmonic oscillations. He presents an equation of the kinetic potential of the oscillatory system, based on the diagram shown in figure 1

$$L=\frac{m}{2}\int_0^l \left(\frac{\partial V}{\partial t}\right)^2 dx+\frac{M}{2}\left(\frac{u(e,t)}{t}\right)^2-\frac{EI}{2}\int_0^l \left(\frac{\partial^2 V}{\partial x^2}\right)^2 dx-p_0U(l,t)$$

whereby m - is the running mass of the rod, EI - is the bending rigidity. The author presents formulae for the axial displacement, the transverse displacement, ultraharmonic oscillations of the order n = 3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

The Ultraharmonic Oscillations of a Rod With a Mass Concentrated on a Moveable Mount

SOV/159-58-3-8/31

and n = 2 and graphical solutions. He found two types of biharmonic oscillations having common point with the harmonic approximation. He established experimentally that the resonance of the second harmonic actually takes place (another type of oscillation was not checked). The test arrangement consisted of a beam and a lever with a mass at its end served as moveable support. An inertia vibrator was used consisting of two light plastic gears with holes into which unbalancing weights were screwed. When rotating one of the gears, the weights rotated in opposite directions thus the horizontal components of the pulsating force were mutually equalized. The vibrator was driven by means of a flexible shaft by an electric motor. The oscillations were recorded by an oscillograph. Figures 5 and 6 represent the oscillogram of harmonic and ultraharmonic oscillations. There are

Card 3/4

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

The Ultraharmonic Oscillations of a Rod With a Mass Concentrated on a Moveable Mount SOV/159-58-3-8/31

1 diagram, 3 graphs, 2 oscillograms and 3 Soviet references.
This article was presented by the

Kafedra "Soprotivleniye materialov" Moskovskogo energeticheskogo instituta (Chair "Material Strength" of the Moscow Institute of Power Engineering)

SUBMITTED: December 2, 1957

Card 4/4

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

BOLOTIN, V.V.; MAREYN, N.S.; VINOKUROV, A.I.; POZNYAK, E.L.; IVOVICH, V.A.

Vibration and vibration resistance of conductors of overhead electric power lines. Nauch. dokl. vys. shkoly; energ. no.2: 55-62 '58. (MIRA 11:11)

(Electric lines--Vibration)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOVICH, V.A., kand. tekhn. nauk

Natural nonlinear vibrations of rods caused by arbitrary form of initial deflection. Izv. vys. ucheb. zav.; mashinostr. no.10: 45-52 '58. (MIRA 12:11)

1.Moskovskiy energeticheskiy institut.
(Elastic rods and wires--Vibration)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

AUTHOR: Ivovich, V.A. 20-119-1-10/52

TITLE: On the Question of the Forced Pseudoharmonic Vibrations of Bars With Resilent Supports (K voprosu o vynuzhdennykh psevdogarmonicheskikh kolebaniyakh sterzhney s uprugo-podatlivymi oporami)

PERIODICAL: Doklady Akademii Nauk, 1958, Vol 119, Nr 1, pp 42-45 (USSR)

ABSTRACT: The considered vibrations are described by the equation [Ref 3]

$$\frac{d^2q}{dt^2} + \omega^2 q + \gamma q^3 + \varkappa q \frac{d^2}{dt^2}(q^2) = \frac{p_0}{m} \cos \Omega t.$$

For the approximate solution the author replaces the right hand side by

$$\frac{p_0}{mA} q,$$

where A = const. Then the solution can be solved rigorously. For a harmonic excitation, the obtained approximate solution is sufficiently exact for practical purposes in the neighborhood of free vibrations for arbitrary amplitudes as well as for small amplitudes, such that the toilsome construction of

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APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

AUTHOR: Ivovich, V. A. 20-119-2-11/60

TITLE: Subharmonic Oscillations of Rods with Non-Linear Inertia (O subgarmonicheskikh kolebaniyakh sterzhney s nelineynoy inertsionnost'yu)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol 119, Nr 2, pp 237-240 (USSR)

ABSTRACT: The present report deals with the subharmonic solutions of the nonlinear equations describing the transverse oscillations of an elastic rod taking into account the inertia forces acting on the axis. These forces of inertia are dependent on the existence of a concentrated mass on the movable support. Different from the equation of the linear oscillator, in the case dealt with here ultraharmonic and subharmonic oscillations can exist additionally to the harmonic motion if certain conditions are present. The experimental investigation showed the following: in certain cases, besides the generally known small oscillations with the period of the perturbing

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APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

Subharmonic Oscillations of Rods With Non-Linear Inertia 20-119-2-11/60

force, also oscillations with a significantly greater amplitude and with a period which is a whole multiple of the period of the external force can occur. The present paper investigates the transverse oscillations of a rod with constant cross section with hinge-type supported ends. The movable support is supposed to carry the concentrated mass M. m denotes the mass per unit length and l the span width. When in the middle of the span width the concentrated pulsating force P cos pt acts, the equation $q^{\cdot\cdot} + 2\varepsilon q^{\cdot} + xq(q^2)^{\cdot\cdot} + \omega^2 q = S \cos pt$ is obtained. ε denotes the coefficient of visceous damping and $\varkappa$ the coefficient of nonlinear inertia $\varkappa = M\pi^4/4ml^3$; $S = 2P/ml$ further holds. The solution of the above equation is put down in the form $q = C + A_{1/n}\cos((pt/n)+\varphi) + A_1\cos(pt + \psi)$. The author determines the constant by the method by B. G. Galerkin.

Card 2/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

Subharmonic Oscillations of Rods With Non-Linear Inertia 20-119-2-11/60

The results of the calculations are given explicitly for the cases of the subharmonic resonances of the orders 1/2 (n = 2) and 1/3 (n = 3). Finally the experiment and the device used for it are described. A sketch shows the oscillogram assumed for the subharmonic oscillations of the order 1/2. The results obtained this way coincide well with the calculations. The demultiplication resonance described by the equation given in the beginning was obviously observed here for the first time. There are 4 figures and 5 references, 5 of which are Soviet.

PRESENTED: September 25, 1957, by N. N. Bogolyubov, Member, Academy of Sciences USSR

SUBMITTED: September 18, 1957

AVAILABLE: Library of Congress

Card 3/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

24(6); 25(2) PHASE I BOOK EXPLOITATION SOV/3241

Akademiya nauk SSSR. Institut mashinovedeniya

Problemy prochnosti v mashinostroyenii, vyp. 5 (Problems of Strength in Mechanical Engineering, Nr 5) Moscow, Izd-vo AN SSSR, 1959. 69 p. Errata slip inserted. 2,500 copies printed.

Ed.: F. M. Dimentberg, Doctor of Technical Sciences; Ed. of Publishing House: G. B. Gorshkov; Tech. Ed.: I.F. Koval'skaya.

PURPOSE: This book is intended for analysts and designers of turbomachines and vibration machines. It will also be of interest to teachers and students working on the problems of vibrations in machines.

COVERAGE: This book contains 4 articles on vibrations in machines. An article by V. O. Kononenko discusses the problem of nonstationary vibrations with respect to a general vibrational system, taking into account the connection with the motor. Essentially the same problem but with respect to a rotating shaft is studied in the article by L. A. Rastrigin. In the article by S. M. Grinberg, a study is made of the nonstationary process in a case of an arbitrary problem of the law of excitation frequency variation. Finally, in the article

Card 1/2

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

by V. A. Ivovich, a study is made of a number of problems on nonlinear natural and forced vibrations of rods, which have a longitudinal elasticity on the end and longitudinally varying mass. The results obtained by the authors in these articles will be of interest to those studying modern elastic rod structures subject to dynamic effects. References follow each article.

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Rastrigin, L. A. Vibrations of an Elastic Shaft Passing Through the Critical Velocity, Taking Into Account Its Connection With the Motor 10

Grinberg, S. M. The Action of Forces of Variable Frequencies on Linear Systems 34

Ivovich, V. A. Certain Nonlinear Problems of the Vibration of Rods 47

AVAILABLE: Library of Congress

AC/lsb
4-9-60

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOVICH, V.A., kand. tekhn. nauk (Moskva)

Determining the periods of nonlinear vibrations of rods. Issl. po teor. sooruzh. no.8:107-119 '59. (MIRA 12:12)
(Elastic rods and wires--Vibration)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOVICH, V.A., kand. tekhn. nauk

Designing a flexible suspension device with a very low frequency of natural vibrations. Vest. mashinostr. 45 no.6:24-25 Je '65. (MIRA 18:6)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOSEVIC, N.

IVOSEVIC, N. Study and use of the electric-power system in France. p. 182

Vol. 9, no. 4/5, Apr./May 1956
ELEKTROPRIVERDA
TECHNOLOGY
Beograd

Sos East European Accession, Vol. 6, no.3, March, 1957

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOVOTENKO, B.A., inah.

Principal relationships in the design of multipolar printed windings of end-type electrical machines. Trudy MEI no.38: 209-222 '62. (MIRA 17:2)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOYLOV, A. A.

Ivoylov, A. A. -- "Investigations of the Process of Electrical Separation in the Field of a Corona Discharge." Irkutsk State Sci Res Inst "Irgiredmet" of the Min Nonferrous Metallurgy USSR, Irkutsk State U imeni A. A. Zhdanov, Irkutsk, 1954. (Dissertation for the Degree of Candidate in Physicomathematical Sciences.)

SO: Knizhnaya Letopis', No. 23, Moscow, June 1955, pp. 87-104

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOYLOV, A.A.

Planning of standard structures should be changed. Prom.stroi. 38 no.3:13-16 '60. (MIRA 13:6)

1. Direktor Proyektnogo instituta No.1 Ministerstva stroitel'stva RSFSR.

(Factories--Design and construction)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

GLUKHOVSKIY, K.; IVOYLOV, A.; SHAGAL, G.

Thin-walled reinforced concrete three-dimensional shells. Na stroi.Ros. no.1:10-13 Ja '61. (MIRA 14:6)

1. Zamestitel' nachal'nika Glavleningradstroya (for Glukhovskiy). 2. Direktor proyektnogo instituta No.1 Ministerstva stroitel'stva RSFSR (for Ivoylov). 3. Glavnyy konstruktor proyektnogo instituta No.1 Ministerstva stroitel'stva RSFSR (for Shagal).
(Roofs, Shell) (Reinforced concrete construction)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

GLUKOVSKIY, K.A.; IVOYLOV, A.A.; LOBANOV, N.D.; SHAGAL, N.D.; EMDIN, N.A.

Precast prestressed reinforced concrete shells for covering industrial and public buildings. Prom. stroi. 39 no.3:30-35 '61.
(MIRA 14:4)

(Precast concrete construction) (Roofs, Shell)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOYLOV, A.; GERSHANOK, R., inzh.; GLEBOV, V., inzh.

Prestressed girders without angle braces. Na stroi.Ros. 3 no.4:27-28 Ap '62. (MIRA 15:9)

1. Direktor Leningradskogo proyektnogo instituta No.1 (for Ivoylov).

(Trusses)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

RE'NEV, V.M.; IVOYLOV, A.P.

Case of occupational disease due to grinding of hexachlorane. Gig. sanit., Moskva no. 1:48-49 Jan 1953. (CLML 24:2)

1. Of Leningrad Order of Lenin Institute for the Advanced Training of Physicians imeni S. M. Kirov and of the Sanitary Epidemiological Station at Vologda Station of the First Northern Railroad.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

USSR/Physics - Radiogram Powders

"Graphical Method of Determining Interplane Distances by Radiograms of Powders," A. S. Ivoylov

Iz Ak Nauk SSSR, Ser Fiz, Vol 17, No 2, pp 206-210

Determinations are made by comparing interplane distances obtained by interpreting radiograms of powders with interplane distances of various crys substances. Suggests graphic methods as most advantageous. Criticism of this article by V. I. Mikheyev is appended. Received 17 Feb 53.

262T94

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

Ivoylov, A.S.

48-10-20/20

AUTHOR: Ivoylov, A.S., Losev, N.F.

TITLE: The Quantitative X-Ray Spectrum Determination of Titanium According to Secondary Spectra (Kolichestvennoye rentgenospektral'-noye opredeleniye titana po vtorichnym spektram)

PERIODICAL: Izvestiya AN SSSR Seriya Fizicheskaya, 1957, Vol. 21, Nr 10, pp. 1465-1468 (USSR)

ABSTRACT: The longwave-X-ray-spectrograph developed by M.A.Blokhin was used for these investigations. The "method according to the external standard", developed by the authors (Dissertation, 1954, Rostov on Don) was used for the quantitative X-ray spectrum analysis according to secondary spectra. Ore and processed products served as objects of the investigation. The investigation of the degree of influence exercised by various factors upon the intensity of the K_{α_1}-lines of titanium showed that, by the method of the external standard, it is not possible to carry out a direct analysis of the ore material. In order to be able to employ this method the authors made use of the data concerning the permanent composition of ore mixed with "buffer". It is shown that by a previous mixing (dilution) of the samples, i.e. by approaching the standard composition of the samples, it is possible to attain a quite satisfactory accuracy of a quantitative

Card 1/2

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOYLOV, A.S.

Improving sanitary working conditions of miners. Bezop.truda v prom. 2 no.9:24 S '58. (MIRA 11:9)

1.Irkutskiy gosudarstvennyy institut redkikh metallov.
(Mining engineering--Safety measures)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOYLOV, A.S.; DENISOVA, L.L.

Method of determining the mass absorption coefficient of X rays for powders and solutions. Zav. lab. 24 no.5:562-565 '58. (MIRA 11:6)

1. Irkutskiy gosudarstvennyy nauchno-issledovatel'skiy institut redkikh metallov.

(X rays)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOYLOV, A.S.; GREBENNIKOVA, D.T.

Use of microradiography for the investigation of mineral raw materials. Zav. lab. 24 no.5:582-585 '58. (MIRA 11:6)

1. Irkutskiy gosudarstvennyy nauchno-issledovatel'skiy institut redkikh metallov.
(Radiography) (Mineralogy)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOYLOV, A.S.; SHARONOVA, A.V.

Determination of minerals by X-ray analysis. Rent.min.syr. no.1: 153-155 '62. (MIRA 16:3)

1. Irkutskiy gosudarstvennyy institut redkikh metallov. (X-ray crystallography)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOYLOV, A.S.; DENISOVA, L.L.

X-ray method of determining the quartz content in mineral mixtures. Rent. min. syr. no.2:17-22 '62. (MIRA 16:11)

1. Irkutskiy nauchno-issledovatel'skiy institut redkikh metallov.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOYLOV, A.S.; DENISOVA, L.L.

X-ray diffraction method of determining quartz in mineral mixtures. Zav.lab. 28 no.6 700-702 '62. (MIRA 15:5)

1. Irkutskiy gosudarstvennyy nauchno-issledovatel'skiy institut redkikh metallov.
(Quartz--Analysis) (X rays--Diffraction) (Minerals--Analysis)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

ZAV'YALOVA, L.L.; IVOYLOV, A.S.

Effect of the size of particles on the results of quantitative X-ray phase analysis. Zav. lab. 31 no.8:986-989 '65. (MIRA 18:9)

1. Irkutskiy gosudarstvennyy nauchno-issledovatel'skiy institut redkikh metallov.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOYLOV, V., podpolkovnik

A company on the march and in a meeting engagement. Voen. vest. 43 no.5:43-45 My '64. (MIRA 17:6)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

L 14958-65 EWT(m)/EPF(c)/EWP(j)/ Pc-4/Pr-4/Pb-4 IDC(b)/SSD(a)/
AEDC(a)/AS(mp)-2 RM/WLK

ACCESSION NR: AT4048192 S/0000/64/000/000/0109/0115

AUTHOR: Baranova, V. G., Pankov, A. G., Khripin, E. G., Glazy*rina, R. V., Belyayeva, V. D., Obeshchalova, N. V., Dolgova, N. A., Kn;azeva, M. F., Mishina, A. V., Ivoylova, M. A.

TITLE: The use of gas chromatography in the production of monomers for synthetic rubber

SOURCE: Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po gazovoy khromatografii. 2d, Moscow, 1962. Gazovaya khromatografiya (Gas chromatography); trudy* konferentsii. Moscow, Izd-vo Nauka, 1964, 109-115

TOPIC TAGS: gas chromatography, monomer production, two-stage chromatography, integral volume detector, katharometer, hexene demethylation, synthetic rubber, isopentane dehydration, flame ionization detector, isoprene polymerization

ABSTRACT: This is a survey of applied and applicable methods for chromatographic analysis. For example, two-stage chromatography for contact separation of the following components is described: H_2, $N_2 + O_2$, CH_4, C_2H_6, C_3H_8, C_4H_{10}, C_4H_8 and C_4H_6. Integral volume detectors with autorecorders are applicable where no very low concentrations are involved (e.g. the mixture from the catalytic dehydration of isopentane).

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L 24958-65

ACCESSION NR: AT4048192

5

Chromatographic equipment with a katharometer is indicated for substances with a boiling point above 40-45C, those which dissolve easily in alkali or where low concentrations (less than 1%) have to be determined. This equipment is described and illustrated (chromatographic separation of complex mixtures from hexene demethylation, or of piperylene in isoprene concentrate). The sensitivity threshold may be increased by using a thermo-chemical monitor (from the Kh-2M apparatus). Standard calibration with an artificial mixture is required for this equipment. The calibration coefficients were found to be constant for considerable variations of concentration and some modification of test conditions. This set-up was also used to determine admixtures of butylenes and methyl-ethyl ether in divinyl of high purity and those of n-butylene in isobutylene. The sensitivity of gas chromatography may be increased by concentration of impurities to a degree where they can be detected, or by increasing the sensitivity of the detector. A flame-ionization detector has been used at the NIIMSK. This considerably facilitates control of product purity and makes possible determination of the basic polymerization centers; thus, e.g., cyclopentadiene was determined as one of the centers of catalytic isoprene polymerization, appearing as early as the dehydration stage. Orig. art. has: 2 tables and 4 figures.

ASSOCIATION: None

SUBMITTED: 16 JUL 64

Card 2/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVOYLOVA, Ye.S., inzh.; SHVYDCHENKO, K.I., inzh.

Utilizing cement dust in structural mortars. Stroi. mat. 9 no.5:32-33 My '63. (MIRA 16:7)

(Mortar)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVNI, D.D.

Air permeability in cloth used for special clothing. Gig. sanit., Moskva no. 1:26 Jan 1953. (CIML 24:2)

1. Of Ivanovo Scientific-Research Institute for the Protection of Labor VTsSPS.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVSHIN, N.K.; BUBLICHENKO, N.L., doktor geologo-mineralogicheskikh nauk otvetstvennyy redaktor; CHERNYSHEVA, N.Ye., kandidat geologo-mineralogicheskikh nauk, otvetstvennyy redaktor; BAKSHEYEVA, M.A., redaktor; ROROKINA, Z.P., tekhnicheskiy redaktor.

[Middle Cambrian trilobites of Kazakhstan] Srednekembriiskie trilobity Kazakhstana. Part I. [Boshchekul' faunal horizon] Boshchekul'skii faunisticheskii gorizont. Alma-Ata, Izd-vo AN KazSSR, 1953. 226 p. (MLRA 8:2)
(Kazakhstan--Trilobites)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVSHIN, N.K.

Kuyandy faunal horizon of the upper Cambrian in the Olenty-Shiderty interfluve of Central Kazakhstan. Izv.AN Kazakh.SSR.Ser.geol. no.16:26-33 '53. (MLRA 9:5)
(Olenty Valley--Paleontology) (Shiderty Valley--Paleontology)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVSHIN, N.K.

Eight new genera of trilobites from the upper Cambrian of Central Kazakhstan. Izv.AN Kazakh.SSR.Ser.geol. no.21:106-123 '55. (MLRA 9:8)

(Kazakhstan--Trilobites)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVSHIN, Nikolay Karpovich, kandidat geologo-mineralogicheskikh nauk; BORUKAYEV, R.A., otvetstvennyy redaktor; VOZHEYKO, I.V., redaktor; KALISTRATOVA, A.Ye., tekhnicheskiy redaktor

[Upper Cambrian trilobites of Kazakhstan] Verkhnekembriiskie trilobity Kazakhstana. Alma-Ata, Izd-vo Akademii nauk Kazakhskoi SSR. Pt.1. [Kuyandin fauna horizon of the Olenty-Shiderty interfluve] Kuiandinskii faunisticheskii gorizont mezhdurech'ia Olenty-Shiderty. 1956. 119 p. (MLRA 9:7)

1. Deystvitel'nyy chlen Akademii nauk Kazakhskoy SSR (for Borukayev)
(Kazakhstan--Trilobites)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVSHIN, Nikolay Karpovich, kandidat geologo-mineralogicheskikh nauk; BORUKAYEV, K.A., akademik, otvetstvennyy redaktor; BURLACHENKO, L.A. redaktor; ALFEROVA, P.F., tekhnicheskiy redaktor

[Middle Cambrian Trilobites of Kazakhstan] Srednekembriiskie trilobity Kazakhstana. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR. Pt. 2. [Agyrek faunal horizon of the Agyrek mountain region] Agyrekskii faunisticheskii gorizont raiona gor Agyrek. 1957. 107 p. 3 plates. (MLRA 10:5)

1. Akademiya nauk Kazakhskoy SSR. (for Borukayev)
(Kazakhstan--Trilobites)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

BANDALETOV, S.M.; BESPALOV, V.F.; BOGATYREV, A.S.; BOK, I.I.; GALITSKIY, V.V.; ZHILINSKIY, G.B., IVSHIN, N.K.; KAZANLI, D.N.; KAYUPOV, A.K.; KONEV, A.K.; KUSHEV, G.L.; LYAPICHEV, G.F.; MEDOYEV, G.TS.; MONICH, V.K.; MYAGKOV, V.M.; NIKITIN, I.F.; NOVOKHATSKIY, I.P.; SATPAYEV, K.I.; SHLYGIN, Ye.D.; SHCHERBA, G.N.

Eminent geologist of Kazakhstan. Vest. AN Kazakh.SSR 15 no.1: 94-95 Ja '59. (MIRA 12:1)
(Borukaev, Ramazan Aslanbekovich, 1899-)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

BORUKAYEV, R.A., akademik, otv.red.; AYTALIYEV, Zh.A., red.; BUBLICHENKO, N.L., red.; BYKOVA, M.S., red.; GALITSKIY, V.V., red.; IVSHIN, N.K., red.; MEDOYEV, G.TS., red.; NIKITIN, I.F., red.; RUKAVISHNIKOVA, T.B., red.; SENKEVICH, M.A., red.; SHLYGIN, Ye.D., red.; SEMENOV, M.N., red.; PROKHOROV, V.P., tekhn.red.

[Transactions of the conference on the unification of stratigraphic diagrams of the Pre-Paleozoic and Paleozoic in eastern Kazakhstan, Alma-Ata, May 12-17, 1958.] Trudy Soveshchaniya po unifikatsii stratigraficheskikh skhem dopaleozoya i paleozoya Vostochnogo Kazakhstana. Alma-Ata. Izd-vo Akad.nauk Kazakhskoi SSR. Vol.1. [Pre-Paleozoic, Cambrian, Ordovician, Silurian] Dopaleozoi, kembrii, ordovik, silur. 1960. 296 p. (MIRA 13:6)

1. Soveshchaniye po unifikatsii stratigraficheskikh skhem dopaleozoya i paleozoya Vostochnogo Kazakhstana. Alma-Ata, 1958. 2. Predsedatel' Orgkomiteta stratigraficheskogo soveshchaniya; AN KazSSR; Institut geologicheskikh nauk AN KazSSR (for Borukayev). 3. Institut geologicheskikh nauk AN KazSSR (for Nikitin). 4. Yushno-Kazakhstanskoye geologicheskoye upravleniye (for Rukavishnikova).
(Kazakhstan--Geology, Stratigraphic)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVSHIN, N.K.

New biostratigraphic scale of the upper Cambrian in the Altai-Sayan geosynclinal area. Trudy Inst. geol. nauk AN Kazakh. SSR no.3:3-62 '60. (MIRA 14:1)

(Altai Mountains—Geology, Stratigraphic)
(Sayan Mountains—Geology, Stratigraphic)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

ABDULKABIROVA, M.A.; ALEKSANDROVA, M.I.; AFONICHEV, N.A.; BANDALETOV, S.M.; BASPALOV, V.F.; BOGDANOV, A.A.; BOKOVIKOV, L.I.; BORSUK, B.I.; BORUKAYEV, R.A.; BUVALKIN, A.K.; BYKOVA, M.S.; DVORTSOVA, K.I.; DEMBO, T.M.; ZHUKOV, M.A.; ZVONTSOV, V.S.; IVSHIN, N.K.; KOPYATKEVICH, R.A.; KOSTENKO, N.N.; KUMPAN, A.S.; KURDYUKOV, K.V.; LAVROV, V.V.; LYAPICHEV, G.F.; MAZURKEVICH, M.V.; MIKHAYLOV, A.Ye.; MIKHAYLOV, N.P.; MYCHNIK, M.B.; NIDLENKO, Ye.N.; NIKITIN, I.F.; NIKIFOROVA, K.V.; NIKOLAYEV, N.I.; PUPYSHEV, N.A.; RASKATOV, G.I.; RENGARTEN, P.A.; SAVICHEVA, A.Ye.; SALIN, B.A.; SEVRYUGIN, N.A.; SEMENOV, A.I.; CHERNYAKHOVSKIY, A.G.; CHUYKOVA, V.G.; SHLYGIN, Ye.D.; SHUL'GA, V.M.; EL'GER, E.S.; YAGOVKIN, V.I.; NALIVKIN, D.V., akademik, red.; PERMINOV, S.V., red.; MAKAUSHIN, V.A., tekhn.red.

[Geological structure of central and southern Kazakhstan] Geologicheskoe stroenie TSentral'nogo i IUzhnogo Kazakhstana. Leningrad, Otdel nauchno-tekn.informatsii, 1961. 496 p. (Leningrad. Vsesoiuznyi geologicheskii institut.Materialy, no.41) (MIRA 14:7)

(Kazakhstan--Geology)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

IVSHIN, Nikolay Karpovich; BORUKAYEV, R.A., akademik, otv. red.; POGOZHEV, A.S., red.; ALFEROVA, P.F., tekhn. red.

[Upper Cambrian trilobites of Kazakhstan]Verkhnekembriiskie trilobity Kazakhstana. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR. Pt.2.[Selety horizon of the Kuyandy stage in central Kazakhstan]Seletinskii gorizont kuiandinskogo iarusa Tsentral'nogo Kazakhstana. 1962. 363 p. (MIRA 16:3)

1. Akademiya nauk Kazakhskoy SSR (for Borukayev).
(Trilobites)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

BORUKAYEV, R.A., akademik, red.; KOROTKOVA, Y e.A., red.; BRAILOVSKAYA, M.Ya., red.; IVSHIN, N.K., kand.geol.-mineral.nauk, zamestitel' red.; KHUDYAKOV, A.G., tekhn.red.

[Areal geology; geology of the Chingiz geanticlinal zone (central Kazakhstan)] Regional'naia geologiia; geologiia Chingizskoi geoantiklinoronoi zony (TSentral'nyi Kazakhstan). Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1962. 165 p. (Akademiia nauk Kazakhskoi SSR, Alma-Ata. Institut geologicheskikh nauk. Trudy, vol.5). (MIRA 16:2)

(Kazakhstan--Geology)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

S/148/61/000/002/005/011
A161/A133

AUTHORS: Shveykin, V.V., Ivshin, P. N., Karpenko, L. N.

TITLE: Experimental determination of pressures and axial slip coefficient in the piercing of large ingots

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no. 2, 1961, 62 - 67

TEXT: The results are given of an experimental investigation of the axial slip in the shell in the piercing mill process with mandrels of different gage, carried out at the Chelyabinskiy truboprokatnyy zavod (Chelyabinsk Tube Rolling Plant). The purpose was to find out the metal pressure on the mill rolls and the mandrel in rolling with new standard roll gages (УПИ (UPI)) that has replaced since 1959 the old "UPI" of 1954. Ingots with 547/531 and 615/500 mm diameters (i.e. diameters of the bottom and top ingot ends) were pierced on 375 and 425 mm diameter mandrels of "20" and СТ.Д (St.D) steel. The slip was studied simultaneously as to its considerable effect on the metal pressure and its dependence on the pressure. It was determined by marks made on the mandrel rod and on the water feed pipe above it, and measuring the mean time during which the shell passed every

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marked distance. The accuracy of such measurements is considered sufficient for practical purposes. The results of slip measurements are illustrated in a graph. The metal pressure on the rolls and on the mandrel were measured simultaneously. The measuring instruments were dynamometers with wire pickups, and the indicating devices were especially calibrated galvanometers taken from shield-type thermocouples. The readings of three galvanometers showing the pressure on the roll necks and the mandrel, an ammeter showing the motor armature current, a voltmeter measuring the voltage on the armature winding ends, a tachometer, and a clock, as well as two signal lamps were all recorded simultaneously with a motion picture camera. This method is stated to be more accurate and dependable than oscillographing. The determined pressure curves are given. The pressure is different in six different stages. It is shown that the old formulae (recommended in 1951) for calculating axial slip coefficient yielded exaggerated results (2.88). As the measurement results prove, it is only 2.0 and has a tendency to decrease in the direction of piercing. The conclusion is made that the reduced axial slip practically does not raise the metal pressure on the rolls with new gaging, reduces the specific power consumption and the piercing time, and improves the quality of rolled tubes in respect of double skin. There are 5 figures and 2 Soviet-bloc references.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

Experimental determination of pressures and ... 3/148/61/000/002/005/011
A161/A133

ASSOCIATION: Ural'skiy politekhnicheskiy institut (Ural Polytechnical Institute) and Chelyabinskiy trubnyy zavod (Chelyabinsk Tube Plant)

SUBMITTED: January 29, 1960

Card 3/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

SHVEYKIN, V. V.; IVSHIN, P. N.

Changes in pipe wall thickness during its rolling without mandrel. Izv. vys. ucheb. zav.; chern. met. 5 no.12:67-73 '62. (MIRA 16:1)

1. Ural'skiy politekhnicheskiy institut.

(Rolling(Metalwork))

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

SHVEYKIN, V.V.; IVSHIN, P.N.

Deformation of tubes without mandrels. Izv. vys. ucheb. zav.; chern. met. 7 no.1:123-130 '64. (MIRA 17:2)

1. Ural'skiy politekhnicheskiy institut.

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"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

SHVEYKIN, V. V.; IVSHIN, P. N.

Dependence of changes in the thickness of pipe walls during their reduction on the toughness and plasticity (hardening) of the metal. Izv. vys. ucheb. zav.; chern. met. 7 no.6:92-96 '64. (MIRA 17:7)

1. Ural'skiy politekhnicheskiy institut.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7"

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000619320012-7

SHVEYKIN, V.V.; IVSHIN, P.N.

Preliminary deformation during pipe reduction without a mandrel. Izv. vys. ucheb. zav.; chern. met. 7 no.8:66-71 '64. (MIRA 17:9)

1. Ural'skiy politekhnicheskiy institut.

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