"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

BOROVIK, L.I.; PEDOS, I.F.; PIMENOV, A.F.; SHAPOVALOV, P.P.

Dependence of the sheet profile on the roll grooving. Metallurg 9 no.7:28-29 Jl '64. (MIRA 17:8)

1. Novolipetskiy metallurgicheskiy zavod.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

KUZNETSOV, Sergey Mikhaylovich; CHESTUKHIN, S.A., inzh.-geodezist, retsenzent; ELIMOV, G.D., kand.tekhn.nauk, retsenzent; MOSKVITIN, M.S., dotsent, retsenzent; LEVCHUK, G.P., dotsent, kand.tekhn.nauk, retsenzent; LEBEDEV, N.N., dotsent, retsenzent; SLOTOV, G.F., dotsent, retsenzent; GRIGOR'YEV, V.M., inzh. geodezist, retsenzent; PIMENOV, A.F., inzh.-geodezist, retsenzent; BELIKOV, Ye.F., dotsent, red.; KHROMCHENKO, F.I., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Geodetic operations in the design and construction of hydraulic structures] Geodezicheskie raboty pri proektirovanii i stroitel'stve gidrotekhnicheskikh sooruzhenii. Moskva, Izd-vo geod.lit-ry, 1960. 173 p. (MIRA 13:9)

(Hydraulic engineering) (Surveying)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

BOROVIK, L.I., inzh., GRISHKO, A.G., inzh.; PIMENOV, A.F., inzh.

Effect of the finishing roll surface on the quality of sheet iron. Stal' 20 no.8:726-728 Ag '60. (MIRA 13:7)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Rolls(Iron mills)) (Surfaces (Technology))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

BOYARSHINOV, M.I.; PIMENOV, A.F.

Effect of speed on certain parameters of finishing. Izv. vys. ucheb. zav.; energ. met. no.1:130-138 '61. (MIRA 14:2)

1. Magnitogorskiy gorno-metallurgicheskiy institut.
(Rolling (Metalwork))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

KUPRIN, M.I., kand.tekhn.nauk; BOROVIK, L.I., inzh., PIMENOV, A.F., inzh.

Improving the performance of the tensioning device on a two-high straightener. Stal' 21 no.2:139-142 F '61. (MIRA 14:3)

1. Magnitogorskiy gorno-metallurgicheskiy institut i Magnitogorskiy metallurgicheskiy kombinat.
(Rolling(Metalwork)) (Metals--Finishing)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

S/133/61/000/002/005/014
A054/A033

AUTHORS: Kuprin, M.I., Candidate of Technical Sciences, Borovik, L.I., Engineer, and Pimenov, A.F., Engineer

TITLE: Improving the Operation of the Stretching Device of Double Stand Dressing Mills

PERIODICAL: Stal', 1961, No. 2, pp. 139-142

TEXT: The stretching of the strip during its passing through the dressing mill ensures its uniform and smooth processing. It is possible to decrease the pressure of the metal on the roll, which, if too high, would cause deformation of the rolls and moreover affects the deformation in the roll gap. By modifying the tension, stretching of the strip can be raised from 0.3 to 5%. Tension also contributes toward the prevention of warping of the strip. Therefore, a high tension is required, only limited by the yield point, because, when the tension value exceeds the latter, an uncontrolled free extension of the strip takes place and flow lines and longitudinal warping result. When determining the tension values of a strip, it must be considered

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A054/A033

Improving the Operation of the Stretching Device of Double Stand Dressing Mills

that not the same amount of tension is required during the passing of the strip through the dressing mill. On the path from the de-coiling device to the first working stand the strip - sometimes in 40% of its width - displays foldings or warpings, therefore, the tension applied calculated for the cross-section surface of the strip, should not exceed 0.6 $\sigma_s$ (10-11 kg/mm$^2$). Between the two working stands and also between the second working stand and the outgoing stretching device warping decreases considerably, but is not eliminated entirely. In this sector tension should not exceed 0.8 $\sigma_s$, whereas between the outgoing stretching device and the coiling drum it should be 0.15 ÷ 0.2 $\sigma_s$ in order to ensure a close coiling. If the specific tension at the output of the second stand is calculated to be

$$q_1 = (0.6 \div 0.8)\ \sigma_s \qquad (1)$$

and the tension between outgoing stretching device and coiling drum is

$$q_3 = (0.15 \div 0.20)\ \sigma_s \qquad (2)$$

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Improving the Operation of the Stretching Device of Double Stand Dressing Mills

$$\frac{Q_1}{Q_2} = e^{\mu\alpha_1} \quad (5); \quad \frac{Q_2}{Q_3} = e^{\mu\alpha_2} \quad (6); \quad \frac{Q_1}{Q_3} = e^{\mu\alpha(\alpha_1 + \alpha_2)} \quad (7),$$

where $Q_1$ - the total tension between the 2nd stand and upper stretching roll, $Q_2$ - idem, between the lower stretching roll and the upper stretching roll; $Q_3$ - idem, between the lower stretching roll and the coiling device, $\alpha_1$ and $\alpha_2$ - angles of wrap for the upper and lower stretching rolls, respectively. The graphical dependence of these relations on the angle of wrap are plotted in Fig. 2 for $\mu = 0.1-0.6$. As the angles of wrap are practically equal for both the upper and lower stretching rolls, the following optimum relation can be established between the three tension values, with the aid of (5) and (6):

$$\frac{Q_2}{Q_3} = \frac{Q_1}{Q_2} \quad \text{or} \quad Q_2 = \sqrt{Q_1 Q_3} \qquad (8)$$

The force applied on the periphery of the upper roll, S, and the correspond-



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A054/A033

Improving the Operation of the Stretching Device of Double Stand Dressing Mills

$$\frac{Q_1}{Q_2} = e^{\mu\alpha_1} \quad (5); \quad \frac{Q_2}{Q_3} = e^{\mu\alpha_2} \quad (6); \quad \frac{Q_1}{Q_3} = e^{\mu\alpha(\alpha_1 + \alpha_2)} \quad (7),$$

where $Q_1$ - the total tension between the 2nd stand and upper stretching roll, $Q_2$ - idem, between the lower stretching roll and the upper stretching roll; $Q_3$ - idem, between the lower stretching roll and the coiling device, $\alpha_1$ and $\alpha_2$ - angles of wrap for the upper and lower stretching rolls, respectively. The graphical dependence of these relations on the angle of wrap are plotted in Fig. 2 for $\mu = 0.1-0.6$. As the angles of wrap are practically equal for both the upper and lower stretching rolls, the following optimum relation can be established between the three tension values, with the aid of (5) and (6):

$$\frac{Q_2}{Q_3} = \frac{Q_1}{Q_2} \quad \text{or} \quad Q_2 = \sqrt{Q_1 Q_3} \quad (8)$$

The force applied on the periphery of the upper roll, $S_1$ and the correspond-

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Improving the Operation of the Stretching Device of Double Stand Dressing Mills

ing force for the lower roll, $S_2$, are determined by the tension values:

$$S_1 = Q_1 - Q_2; \quad S_2 = Q_2 - Q_3 \qquad (9)$$

and, assuming an optimum relation between these values, they are:

$$S_1 = Q_1 - \sqrt{Q_1 Q_3}; \quad S_2 = \sqrt{Q_1 Q_3} - Q_3 \qquad (10)$$

As $\frac{Q_1}{Q_3} = \theta$, the optimum relation between the peripheral forces of stretching rolls, and consequently, the relation of the driving moments on the axis of each roll, $M_1$ and $M_2$ will be:

$$\frac{S_1}{S_2} = \frac{M_1}{M_2} = \frac{Q_1 - \sqrt{Q_1 Q_3}}{\sqrt{Q_1 Q_3} - Q_3} = \frac{\theta - \sqrt{\theta}}{\sqrt{\theta} - 1} = \sqrt{\theta} \qquad (11)$$

Fig.3 represents the dependence of the limit relation $\frac{S_1}{Q_3}$, $\frac{S_2}{Q_3}$, $\frac{Q_1}{Q_3}$ on $\mu$ (calculated for $\alpha_1 = \alpha_2 = 160°$).



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Improving the Operation of the Stretching Device of Double Stand Dressing Mills

$\frac{S_1}{Q_3}$ and $\frac{S_2}{Q_3}$ are plotted by means of continuous lines at the optimum $\frac{S_1}{S_2}$ relation, while with dotted line for $\frac{S_1}{S_2} = 1.3$. It can be seen that only the continuous lines ensure the prevention of slip. The problem of scratches appearing on the strip surface due to its slipping when tensions are too high at the outgoing side, and too low in the stretching-coiling machine, were studied experimentally, by registering the electro-energetic parameters of the coiling drum drive and those of the rollers of the outgoing stretching machine. It was found that slips occurred when rolling about 1000 tons of sheets on the stand; simultaneously scratches could also be observed and their number increased with the operational time of the mill. This must be attributed to a smoothing of the surface roughness resulting in the decrease of the frictional coefficient. In order to prevent scratch formation, the stretching rolls were shot blasted, thus obtaining a roughness of 3 micron, while the

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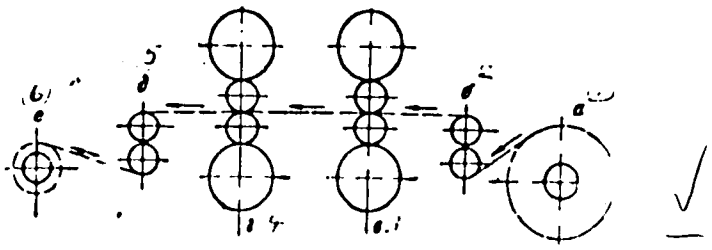
Improving the Operation of the Stretching Device of Double Stand Dressing Mills

friction coefficient value increased to 0.61 as compared with a 0.27 coefficient for polished rolls. There are 3 figures.

ASSOCIATION: Magnitogorskiy gorno-metallurgicheskiy institut (Magnitogorsk Metallurgical Institute) and MMK

Figure 1:

Layout of the Double Stand Dressing Mill
1 - uncoiling device; 2 - first stretching device; 3 - first working stand; 4 - idem, second; 5 - outgoing stretching device; 6 - coiling-up device



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Improving the Operation of the Stretching Device of Double Stand Dressing Mills

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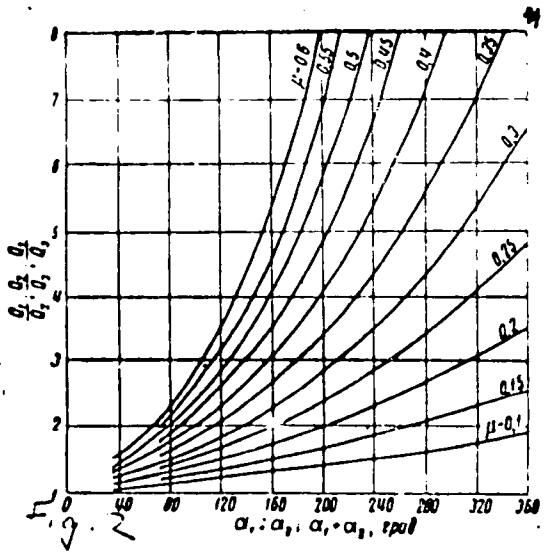
**Figure 2:**

Dependence of the limit relations between tensions, which are in accordance with the condition of non-slipping, on the wrap angle $\alpha$ and friction coefficient $\mu$.

(above the curves slipping is possible)

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Improving the Operation of the Stretching Device of Double Stand Dressing Mills

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A054/A033

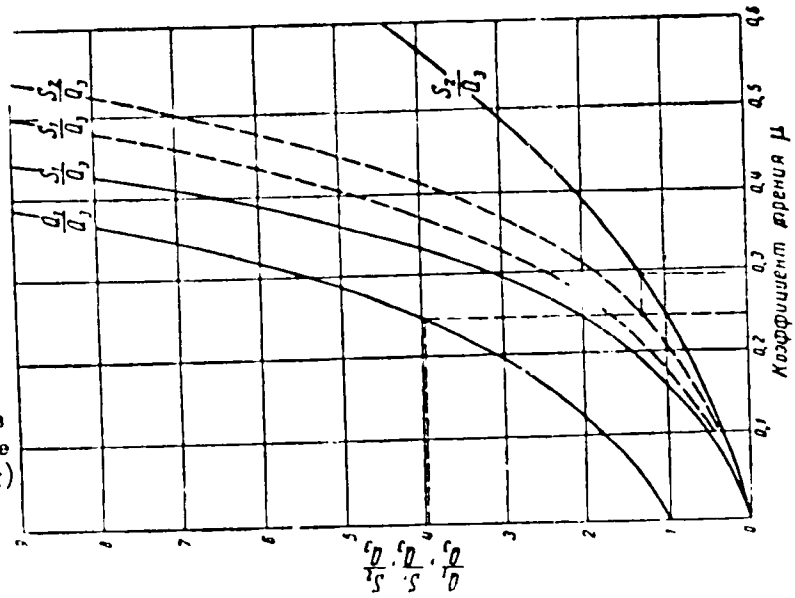


Figure 3:

Dependence of the possible limit-relations of tensions at the outgoing side of the second stand $Q_1$, of the peripheral force of the upper roll $S_1$ and the peripheral force of the lower roll $S_2$ with the tension on the coiling-stretching drum $Q_3$ on the friction coefficient (the relations are in accordance with the condition of non-slipping) Dotted line: $\frac{S_1}{Q_3}$ and $\frac{S_2}{Q_3}$ at $\frac{S_1}{S_2} = 1.3$

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A161/A133

The effect of speed on some skin-pass parameters

the work rolls; friction and ultimate strength of rolled metal are rising with increasing rolling speed, and this accounts for a more intense decrease in stretching. 4) If friction is higher in the 1st stand (rough rolls) the total stretching (due to the rolling out of the roughened strip surface by the polished work rolls in the 2nd stand) drops with increasing speed less (to 26%) than on polished rolls only (to 46.5%). 5) Tension decreases with increasing speed; at 10 m/sec the tension drop amounts to 21.4%. 6) Metal pressure on rolls rises with an increasing speed in proportion to the speed; at 10 m/sec the pressure increase is 10%. A decreasing tension between stands apparently also increases the pressure. 7) It is advisable to compensate decreasing stretching by increasing the strip tension in proportion to the increasing dressing speed. There are 5 figures and 4 non-Soviet-bloc references.

ASSOCIATION: Magnitogorskiy gorno-metallurgicheskiy kombinat (Magnitogorsk Mining and Metallurgical Combine)

SUBMITTED: May 17, 1960

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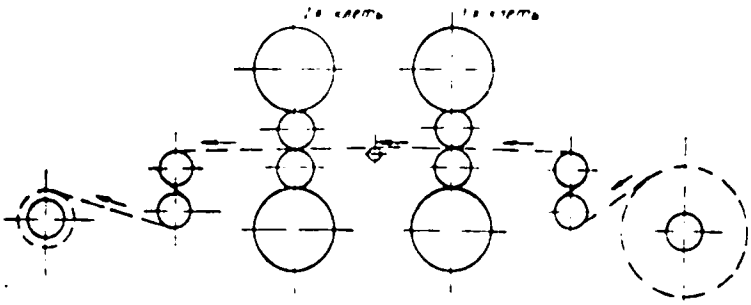
The effect of speed on some skin-pass parameters

Fig. 1.



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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

BOYARSHINOV, I.M.; PIMENOV, A.F.

Best diameter for the working rolls on the first stand of a skin rolling mill. Stal' 21 no.9:811-816 S '61. (MIRA 14:9)
(Rolls (Iron mills))

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

ACC NR: AP6036113 SOURCE CODE: UR/0365/66/002/006/0686/0691

AUTHOR: Shalyafirner, A. M.; Dogtyareva, R. A.; Pimenov, A. F.; Alyshova, Ye. I.; Yerakov, V. I.; Lifanov, V. F.; Anzin, G. N.

ORG: Moscow Institute for Steels and Alloys (Moscovskiy institut stali i splavov); Central Research Institute for Ferrous Metals (Tsentral'nyy nauchno-issledovatel'skiy institut chernykh metallov); Novolipetskiy Metallurgical Plant (Novolipetskiy metallurgicheskiy zavod)

TITLE: Internal oxidation of steel with 3% silicon

SOURCE: Zashchita metallov, v. 2, no. 6, 1966, 686-691

TOPIC TAGS: metal oxidation, silicon steel, hot rolling

ABSTRACT: The article reports a study of the oxidation and decarbonization of steel with 3% silicon and 0.05% carbon in the process of hot rolling in an industrial unit, and of decarbonizing annealing (in the presence of scale) in industrial electric furnaces. Steel strips were hot rolled to a thickness of 2.5 mm. In rolling, the initial oxidation temperature was maintained at 940 ± 10°. The total length of the discharge table was 36 meters; in the last 30 meters the strip was cooled rapidly with water and was in an atmosphere of steam. After this, the strip was coiled and the air supply was cut sharply. The average cooling rate of the strip on the table, under

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ACC NR: AP6036113

different rolling conditions, varied only slightly and was from 19-23 degrees/sec. The total oxidation time and the temperature of the strip before coiling were varied by changing the rolling rate. The temperatures of the strip before water cooling and before coiling were measured with an optical pyrometer and were recorded automatically. The coils were cooled in air over a period of 24 hours. Data on the values of the two abovementioned temperatures and on the time of the oxidation process are presented in a table. Based on the experimental data, a table shows the effect of hot rolling conditions on the formation of scale and on the rate of etching after annealing. In the production of steel, it is necessary to take certain measures which limit the process of internal oxidation: 1) the exit temperature of the strip should be lowered to 900° and the temperature of coiling up to 590-600°, because of the effect of the increase of the cooling rate under the influence of the blowing system; 2) the oxidation time of the metal on the discharge table should be shortened by increasing the rolling rate; 3) the heating rate and the temperature in decarbonization annealing should be increased; this leads to more favorable conditions for the oxidation of carbon, compared to the oxidation of silicon. Orig. art. has: 4 figures and 3 tables.

SUB CODE: 11/ SUBM DATE: 28Dec65/ ORIG REF: 007/ OTH REF: 004

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, A.I.

Changes in the phonocardiogram in disorders of rhythm and conductivity in children with rheumatism. Pediatriia 4 no.7:50-54 Jl'63 (MIRA 16:12)

1. Iz detskogo otdeleniya Nauchno-issledovatel'skogo instituta revmatizma (dir. - deystvitel'nyy chlen AMN SSSR zasluzhennyy deyatel' nauki prof. A.I.Nesterov) AMN SSSR (rukovoditel' raboty - prof. D.D. Lebedev).

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ACCESSION NR: AT4049228 S/3108/64/000/004/0355/0367

AUTHOR: Pimenov, A. I.

TITLE: Design of a remote control mechanism for a radio station with specified accuracy requirements

SOURCE: Vzaimozamenyayemost' i tekhnicheskiye izmereniya v mashinostroyenii; nauchno-tekhnicheskiy sbornik, no. 4, 1964, 355-367

TOPIC TAGS: radio station, remote control, radio transmitter design, transmitter tuning mechanism, tuning accuracy, multi-channel radio station

ABSTRACT: A multichannel radio station, which provides convenient simultaneous contact with several correspondents, generally includes a remote control system which enables the operator to tune automatically to any frequency from among a group or from among all the working frequencies of the station. Such a station consists basically of a remote control mechanism, the operating element of the radio station, a synchronous scanning system, a sensor which is located on the control panel, and a receiver located on the mechanism. The present paper discusses a remote control mechanism with a preparatory cylinder pertaining to a fixed tuning system; such a mechanism with six channels is shown in Fig. 1 of the Enclosure. This mechanism works in two stages, with manual tuning of each channel to any

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ACCESSION NR: AT4049228

frequency and automatic switching of channels from the control panel to a previously tuned frequency. Manual tuning selects the desired channel. Automatic switching of channels is accomplished by pressing any of the six buttons on the control panel. An electric motor then rotates the preparatory cylinder until the corresponding position has been reached and contact has been established. The overall accuracy of the remote control mechanism depends on the error involved in each component of the mechanism. Therefore, the error in the metering device, the memory element, the tuning device and the carrier clutch is examined separately. The tolerance in various parts and the effects of wear and temperature changes are also considered. The investigation of the error distribution is simple and provides a sufficiently fast technique for designing a mechanism with a specified accuracy. Although the error distribution technique was investigated in the paper for only one concrete mechanism as an example, it can also be employed in the design of analogous mechanisms. Orig. art. has: 2 tables, 9 figures and 15 numbered formulas.

ASSOCIATION: [redacted]

SUBMITTED: 00 ENCL: 01 SUB CODE: EC

NO REF SOV: 005 OTHER: 000

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ACCESSION NR: AT4049228

ENCLOSURE: 01

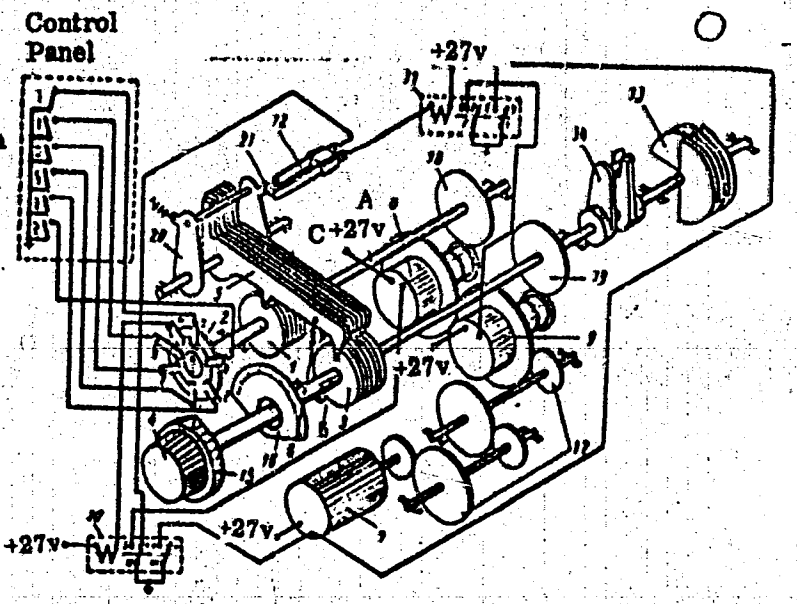


Fig. 1. Electrocinematic diagram of a mechanism with a preparatory cylinder:
A - preparatory cylinder; B - memory; C- lever group.
1, 3 - disks; 2 - commutator; 4 - knob; 5 - lever; 6 - spring; 7 - electric motor; 8, 9 - electric clutches ; 10, 11 - relays; 12 - contact group; 13 - variable capacitance; 14 - carrier clutch; 15 - knob; 16 - scale; 17 - gear; 18, 19 - wheels; 20 - yoke; 21 - push rod.

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, A.I.

Electrocardiogram in unipolar leads in healthy children and in children during the active phase of rheumatism. Vop. okh. mat. i det. 7 no.5:61-66 My '62. (MIRA 15:6

1. Iz detskogo klinicheskogo otdeleniya Nauchno-issledovatel'skogo instituta revmatizma (dir. - deystvitel'nyy chlen AMN zasluzhennyy deyatel' nauki prof. A.I. Nesterov, rukovoditel' - prof. D.D. Lebedev).
(ELECTROCARDIOGRAPHY) (RHEUMATIC FEVER)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, A.I.

Unipolar leads and their use in practical electrocardiography; survey of the literature. Pediatriia 39 no.2:76-80 F '61. (MIRA 14:2)

1. Iz detskogo otdeleniya Nauchno-issledovatel'skogo instituta revmatizma Ministerstva zdravookhraneniya RSFSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.I. Nesterov, nauchnyy rukovoditel' - prof. D.D. Lebedeva).
(ELECTROCARDIOGRAPHY)

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9(6) 13.4000

AUTHOR: Pimenov, A.I., Post Graduate Student

TITLE: Analyzing the Accuracy of the Remote Control of Radio Stations on Moving Objects

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, 1959, Nr 6, pp 29-37 (USSR)

ABSTRACT: General information on four existing types of remote control mechanisms of radio stations on moving objects and their components, the formulas for calculating the angular errors of the components, and the method of calculating the accuracy of the mechanisms, are given, and recommendations are made on how to design the mechanism taking into account their accuracy characteristics. The remote control mechanism types are: a rack mechanism (Figure 1) consisting of a set of cams tightly fixed on a shaft (used in radio

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D002/D006

Analyzing the Accuracy of the Remote Control of Radio Stations on Moving Objects

stations with not more than 6 channels); a mechanism with a preparation shaft (Figure [illegible]) used in stations with more than 6 channels; a revolver type mechanism (Figure 3) for radio stations with not more than 1[illegible] channels; and mechanism with a switching-type memory installation (Figure 4). The article was recommended by the Kafedra "Pribory tochnoy mekhaniki" (Chair "Instruments of Precision Mechanics"). There are 4 diagrams, 1 graph and [illegible] Soviet references.

ASSOCIATION: Moskovskoye ordena Lenina i ordena Trudovogo Krasnogo Znameni vysshcye tekhnicheskoye uchilishche imeni N. E. Baumana (Moscow Higher Technical School of the Order of Lenin and the Order of the Red Banner of Labor, imeni N.E. Bauman).

SUBMITTED: October 25, 1959

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, A.I.

Classification and precisi n analysis of various index lins.
Priborostroenie no.7:9-12 Jl '60. (MIRA 13:7)
(Measuring instrument)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

[illegible]NOV, A. I.,
M. A. [illegible], Sintet. [illegible], No. [illegible], 19-2[illegible], 1934

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, A.K., inzh.

Study of heat exchange in turbulent gas flow in rough channels in electrical machines. Elektrotekhnika 36 no.11:60-62 N '65. (MIRA 18:11)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

[illegible]

[illegible] between the external and internal problem and on the basis of the conservative

Card 1/2 UDC: 530.24.01: 532.542

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ACC NR

nature of the law of heat exchange relative to variation of the [illegible] conditions. [illegible] turbulent boundary layer is estimated in accordance with a limiting theory [illegible] described in the earlier paper. It is assumed that the distribution of the velocities and of [illegible] conservative with [illegible] isothermal conditions. It is concluded that the results of the calculations can explain many of the published experimental data. Orig. art. has: 2 figures and 1[illegible] formulas.

SUB CODE: 20/ SUBM DATE: 01Dec04 ORIG REF: 006/ OTH REF: [illegible]

Card [illegible]

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

L 41031-66 EWT(m)/T

ACC NR: AP6018624 (A) SOURCE CODE: UR/0065/66/000/006/0048/0052

AUTHOR: Grigor'yev, M. A.; Pimenov, A. M.; Zelenskaya, R. G.

ORG: NAMI, VNII NP

TITLE: Evaluation of service qualities of automotive oils by engine tests

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1966, 48-52

TOPIC TAGS: lubricant, lubricating oil

ABSTRACT: In order to provide appropriate equipment for the testing of automotive motor oils in the Soviet Union the NAMI-1 test unit was developed and used at NAMI for comparative engine tests, evaluating the test results by the UIM-6 method, US method 344-T (USA Standard No. 691, March 1959), and also by the PZV method. The unit includes a single cylinder engine, corresponding to a section of engine ZIL-130. The unit permits rating of piston deposits, varnish, piston ring coking, wear of the cylinder-piston section, low-temperature deposits, and the oxidizability of oils and bearing corrosion. Lubricants type A, B, and C were rated, represented by oil AC-2,5 with admixtures of 0.7, 0.7, and 0.25% additive Santolub 493, and of 0.7, 1.5, and 4% additive Monto 613, respectively. Standard gasoline A-76 was used in 100-hr runs. Method UIM-6 gave higher ratings for ring mobility than method 344-T, and the latter permitted a differentiation by points of piston grooves and seals, although the final results for both methods were similar. The types of deposit, however, may differently

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ACC NR: AP6018624

affect engine performance and correspond to different service properties of motor oils. Method 344-T is employed by various organizations in the Soviet Union and is widely used in other countries. Thus, an important modification of the method without suitable research is hardly expedient. Orig. art. has: 1 table and 1 figure.

SUB CODE: 11/ SUBM DATE: none/ OTH REF: 001

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

GRIGOR'YEV, M.A., kand.tekhn.nauk; [illegible], I.M.

Single-cylinder carburetor [illegible] for evaluating operating characteristics of motor oils. Avt.prom. 31 no.5:10-13 My '65. (MIRA 18:[illegible])

1. TSentral'nyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, A.M.; MIKHAYLOV, N.A.

Preliminary fuel filters for tractor diesel engines. Trakt. i sel'khozmash. 32 no.9:20-22 S '62. (MIRA 15:12)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktornyy institut.
(Tractors--Fuel systems) (Diesel fuels)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, A.M., inzh.

New fuel filter elements for diesel tractors. Trakt.i sel'khozmash. 31 no.8:8-10 Ag '61. (MIRA 14:7)

1. Nauchno-issledovatel'skiy avtotraktornyy institut.
(Diesel engines—Oil filters)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

KIRILLOV, G.N., inzhener; MOSKALEV, P.D., mekhanik; PIMENOV, A.N., shofer; KONEV, B.F., inzhener, retsenzent; KAPRALOV, B.A., redaktor; MODEL', B.I., tekhnicheskiy redaktor.

[Servicing and regulating the feed system of carburetor motors] Obslushivanie i regulirovka sistemy pitaniia karbiuratornykh dvigatelei. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1954. 144 p. (MLRA 7:8)
(Automobiles--Engines)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, Aleksandr Nikolayevich, dotsent; GRINENKO, G.R., inzhener, retsenzent; KUTUKOV, G.M., inzhener, retsenzent, redaktor; PITERMAN, Ye.L., redaktor; KOLESNIKOVA, A.P., tekhnicheskiy redaktor.

[Equipment and machinery for timber rafting] Mekhanizmy i mashiny na lesosplave. Moskva, Goslesbumizdat, 1954. 419 p. (Lumbering--Machinery) (MLRA 7:11)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

DONSKOY, Ivan Petrovich; PIMENOV, A.N., retsenzent, SHUL'TS, G.F., retsenzent; ARNSHTEYN, G.B., redaktor; YEPISHKINA, A.V., redaktor; KOLESNIKOVA, A.P., tekhnicheskiy redaktor.

[Transporting lumber by water] Vodnyi transport lesa. Moskva, Goslesbumizdat, 1955. 331p. (MLRA 8:11)
(Lumber--Transportation)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, Aleksandr Nikolayevich; POMINOVA, Galina Ivanovna; NIKOLAYEVA, M.I., redaktor izdatel'stva; SHITS, V.P., tekhnicheskiy redaktor

[Floating tree-length logs and bucking them on the roadstead] Splav khlystov i ikh razdelka na reidakh prog.lava. Moskva, Goslesbumizdat, 1956. 68 p. (MIRA 10:1)
(Lumbering)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

RODIONOV, Viktor Ivanovich; RAKHMATULLIN, Mennan Garifzyanovich; [redacted] A.N., redaktor; OSOKINA, A.M., redaktor izdatel'stva; KARASIK, N.P., tekhnicheskiy redaktor

[Floating tree-length logs in the Volga-Kama Basin] Splav khlystov v Volzhsko-Kamskom basseine. Moskva, Goslesbumizdat, 1957. 57 p. (MIRA 10:8)

(Volga River--Lumber--Transportation)
(Kama River--Lumber--Transportation)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, Aleksandr Nikolayevich, dotsent, kand.tekhn.nauk; MANUKHIN, German Aleksandrovich, dotsent, kand.tekhn.nauk; BUDYKA, S.Kh., dotsent, retsenzent; DONSKOY, I.P., retsenzent; ORLOV, N.N., inzh., retsenzent; YEGOROV, A.V., inzh., retsenzent; KOLOSOV, D.V., red.; PITERMAN, Ye.L., red.izd-va; BACHURINA, A.M., tekhn.red.

[Mechanizing rafting operations and vessels] Mekhanizatsiia lesosplavnykh rabot i flot. Moskva, Goslesbumizdat, 1959. 412 p. (MIRA 13:3)

1. Zaveduyushchiy kafedroy transporta lesa Belorusskogo lesotekhnicheskogo instituta (for Budyka). 2. Zaveduyushchiy kafedroy vodnogo transporta lesa Lesotekhnicheskoy akademii im. S.M.Kirova (for Donskoy).
(Lumber--Transportation)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

BIMENOV, Aleksandr Nikolayevich. Primimal uchastiye UTKIN, N.A., dots.; GONIK, A.A., kand. tekhn. nauk, retsenzent; FARBER, A.V., inzh., retsenzent; LEBEDEV, N.I., red.

[Machines and mechanisms for lumber floating] Mashiny i mekhanizmy na lesosplave. Izd.2., ispr. i dop. Moskva, Lesnaia promyshlennost', 1965. 388 p. (MIRA 19:1)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

SHIFRIN, M.Yu.; PIMENOV, A.K.

Piercing rectangular ingots in a round container. Kuz.-shtam.proizv. 5 no.8:11-15 Ag '63. (MIRA 16:9)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

SHIFRIN, M.Yu.; PIMENOV, A.A.

Barrel shape forming during the upsetting of hollow blanks.
Kuz.-shtam.proizv. 5 [illegible] -15 Jl '63. (MIRA [illegible])

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

BELYAYEV, Yu.N.[translator]; KOROLEV, I.G.[translator]; TIKHOMIROV, V.L.[translator]; PIMENOV, B.K., red.; MILITAREVA, Yu.E., red.; KHARKOVSKAYA, L.M., tekhn. red.

[National economic development of the Korean People's Democratic Republic after the liberation]Razvitie narodnogo khoziaistva Koreiskoi Narodno-Demokraticheskoi Respubliki posle osvobozhdeniia. Pod red. i s predisl. B.K.Pimenova. Moskva, Izd-vo inostr. lit-ry, 1962. 237 p. Abridged translation from the Korean. (MIRA 15:12)

(Korea, North—Economic conditions)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

CA

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**Increasing the stability of butter** D. M. Punenov. *Molochno-Maslodel'naya Prom.* 5, No. 3, 4-8(1938). *Chimie & industrie* 47, 1188. By irradiating butter with x-rays for 10 min. it can be kept for a long time at ordinary temp. in an atm. of $CO_2$. Irradiation with ultraviolet light permits even longer keeping and increases the vitamin D content. The organoleptic properties of the butter are unaffected by this treatment. A. Papineau-Couture

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

GOTOVTSEV, A.A.; PIMENOV, A.P.; L'VOV, I.P.

Standartizatsiia 28 no.2:21-24 F '64. (MIRA 17:3)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, B., khudozhnik-dekorator; SIMIN, L., khudozhnik-dekorator

From the practice of show window dressing. Sov.torg 34 no.3:58-59 Mr '61. (MIRA 14:2)

1. Gorpromtorg, g.Kishinev.
(Show windows)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMONOV, F., polkovnik

Future officers in special training. Voen. vest. 42 no.10:59-60 O '62. (MIRA 15:10)
(Communications, Military) (Military education)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

DOBROSKOK, I.I.; SURIN, Ye.V.; BROVMAN, M.Ya.; MIKHAYLOV, G.M.; KRULEVETSKIY, S.A. Prinimali uchastiye: ASFANDIYAROV, R.F.; BELOV, Ye.M.; IVANOV, V.I.; MARKOV, V.I.; SOLOV'YEV, Yu.P.; PIMENOV, F.A.; TUROMSHEV, A.F.; KHVES'KO, V.A.; NIKITSKIY, N.V.

Investigating the power parameters of a continuous steel casting plant. Stal' 22 no.3:223-225 Mr '62. (MIRA 15:3)

1. Yuzhnoural'skiy mashinostroitel'nyy zavod (for Asfandiyarov, Belov, Ivanov, Markov, Solov'yev). 2. Novolipetskiy metallurgicheskiy zavod (for Pimenov, Turomshev, Khves'ko). 3. TSentral'nyy nauchno-issledovatel-skiy institut chernoy metallurgii (for Nikitskiy).
(Continuous casting—Equipment and supplies)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

ZELENIN, N.I.; SHALTYKO, G.Ye.; CHERNYSHEVA, V.P.; TATARKINA, G.V.; FAYNBERG, S.; YANKOVSKAYA, T.A., Prinimali uchastiye: SOKOLOVA, Z.N.; KULESHOVA, A.A.; KRESTENKO, M.N.; BOBROV, V.V.; PIMENOVA, F.

Developing methods for the cold fractionation of shale tar. Part 1. Using light tar as wood impregnating. Il. Khim. i tekh.gor.slan. i prod. ikh perer. no.12:273-284 '61. MIRA 17:1

1. Leningradskiy inzhenerno-ekonomicheskiy institut i Leningradskiy institut inzhenerov zheleznodorozhnogo transporta.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, G., inzh.

Following the example of Vladimir builders. Stroitel' no.7 Ap '60. (MIRA 13:6)

(Yurginskoye--Precast concrete)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

MAKIAKOV, A.I.; PIMENOV, G.G.; SHEPELEV, V.I.

Evaluation of the mobility of macromolecules in the amorphous regions of crystalline polymers by means of nuclear magnetic resonance. Vysokom. soed. 7 no.11:1894-1898 N '65. (MIRA 18:[illegible])

1. Kazanskiy gosudarstvennyy universitet. Submitted [illegible] 1964.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

KUZNETSOV, [illegible]A., [illegible]RASIMOV [illegible] [illegible]MENKO, [illegible], MAKLAKOV, A[illegible]
[illegible]IMENOV, [illegible]

Nature of transitions in polymetaphenylene isophthalamide.
Vysokom. soed. [illegible] (MIRA [illegible])

1. Vladimirskiy nauchno-issledovatel'skiy institut sinteticheskikh smol i Kazanskiy gosudarstvennyy universitet.

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ACCESSION NR: AR5011412 UR/0081/65/000/006/S011/S012

30
B

SOURCE: Ref. zh. Khimiya, Abs. 6S70

AUTHOR: Zhuravleva, I.P.; Zgadzay, E.A.; Maklakov, A.I.; Pinenov, G.G. 44,55

TITLE: Physical properties of polymers with conjugated bonds. Polyphenylene imine

CITED SOURCE: Sb. Itog. nauchn. konferentsiya Kazansk. un-ta za 1962 g. Kazan', 44,55

TOPIC TAGS: polyenylene imine, conjugated polymer, electric property, magnetic property, thermoelectric property, physical property, semiconducting polymer

TRANSLATION: Polyphenylene imine was reprecipitated, heated (not always) in vacuum or in air for 2 hrs at 200-300°C; the electroconductivity and static magnetic susceptibility were determined; a Debye powder pattern was photographed; and the nuclear magnetic resonance spectrum was recorded. The electroconductivity in vacuum ($3 \cdot 10^{-2}$ mm Hg) at 20-300°C is in conformity with the law: $\sigma = \sigma_0 \exp(-E/kT)$, at 20° is $10^{-7}$-$10^{-14}$ ohm$^{-1}$cm$^{-1}$, E = 0.38 to 0.78 ev. At 120 to 140°C the polyphenylene imine undergoes irreversible changes with absorption of heat and change of crystallinity, and the log $\sigma$ - (1/T) curve drops sharply. Unheated polyphenylene imine

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has the highest electroconductivity, and that heated in air at 300°C has the lowest. The application of vacuum decreases the conductivity 1½ to 3 times. Judging by the sign of the thermoelectromotive force, the electroconductivity of the polyphenylene imine is of the hole type. It was also established that polyphenylene imine is highly hygroscopic, which fact causes changes in its electroconductivity. On the basis of its magnetic properties it cannot be included in any one known class of magnetic materials. The static magnetic susceptibility, determined by the Gouy method in magnetic fields of 300-5350 oersteds at 20 to 120°C, is positive and equal to $0.17-16.59 \cdot 10^{-6}$, and for an annealed polyphenylene imine reaches a maximum at 600 to 800 oersteds. The magnetization curve under the condition of this investigation did not reach saturation. The Debye powder patterns obtained on a URS-55 unit with copper emission and nickel filter indicate that crystallinity decreases after heating at 200°C in vacuum (and especially in air) and disappears entirely after heating at 300°C. At ~20°C the nuclear magnetic resonance spectrum of polyphenylene imine not treated with vacuum had a narrow and a wide (halfwidth 5.5 oersteds) portion, the first of which disappeared entirely under vacuum, while the second widened to 6.2 to 6.4 oersteds. The presence of semiconductor properties of polyphenylene imine was also established. L. Andreyev.

SUB CODE: OC, EM ENCL: 00

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

L 27333-66 EWT(m)/EWP(j)/T IJP(c) RM

ACC NR: AP6008768 SOURCE CODE: UR/0190/65/007/011/1894/1898

41
38
B

AUTHORS: Maklakov, A. I.; Pimenov, G. G.; Shepelev, V. I.

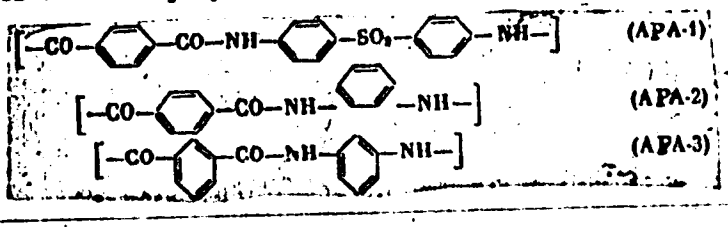
ORG: Kazan State University (Kazanskiy gosudarstvennyy universitet)

TITLE: Evaluation of the mobility of macromolecules in amorphous regions of crystalline polymers by nuclear magnetic resonance

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 11, 1965, 1894-1898

TOPIC TAGS: macromolecular chemistry, nuclear magnetic resonance, crystalline polymer

ABSTRACT: NMR spectra of polyethyleneterephthalate, isotactic polystyrene, and a number of aromatic polyamids with monomeric units




Card 1/2 UDC: 678.01:53

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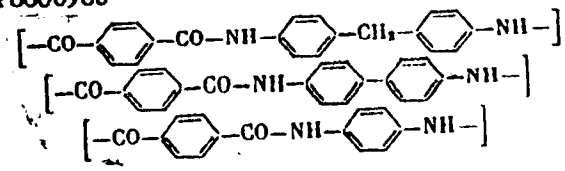
ACC NR: AP6008968



(APA-4)

(APA-5)

(APA-6)

were studied at 20--350C by using a scheme described by A. I. Maklakov and G. G. Pimenov (Dokl. AN SSSR, 157, 1413, 1964). It was shown that the temperature $T_n$ of appearance of the narrow component in the complicated NMR signal of the above polymers may serve as a measure of the mobility of the macromolecules in their amorphous areas. The $T_n$ of 25 samples has been determined. The relationship between the structure of the polymer and $T_n$ is discussed. "The authors express their gratitude to R. S. Balakirev, G. A. Kuznetsov, and L. B. Sokolov for supplying a number of samples." Orig. art. has: 1 table and 2 figures.

SUB CODE: 07/ SUBM DATE: 07Dec64/ ORIG REF: 008/ OTH REF: 009

Card 2/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

MAKLAK [illegible]

[illegible] the amorphous and cry[illegible] [illegible] 165. (MIRA 18.[illegible])

[illegible] universitet.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

MAKLAKOV, A.I.; PIMENOV, G.G.; SAGITOV, R.Ya.

Study of polymers subjected to uniaxial stretching at high deformation rates. Vysokom.soed. 3 no.9:1410-1414 S '61. (MIRA 14:9)

1. Kazanskiy gosudarstvennyy universitet imeni V.I.Ul'yanova-Lenina.

(Polymers) (Deformations (Mechanics))

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

27578

15 8510

AUTHORS: Maklakov, A. I., Pimen[illegible] G. G., Sagit[illegible] R. Ya.

TITLE: Investigati[illegible] high deformati[illegible] rates

PERIODICAL: [illegible]

TEXT: The phenomenon of "hairline [illegible]" and the [illegible] changes are the topic of this publication. [illegible] made of Lavsan [illegible] investigated. [illegible] heated to 120°C for [illegible] hr, which causes the film [illegible] tests were performed with an PMM-[illegible] (RMI-[illegible]) machine at [illegible] of 100, 200, 500, and 1000 mm/min and constant temperature [illegible]. The X-ray pictures were taken with a УРС [illegible] URS-5 [illegible] apparatus [illegible] anode and nickel filter; the anode voltage was [illegible] kV, the amperage [illegible] The structure of hairline cracks was studied using an МБИ-[illegible] (MBI-[illegible]) microscope. The density of the samples was [illegible]

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27578

S [illegible]

B [illegible]

Investigation of polymers.

technique. The formation of hairline cracks was [illegible] amorphous and crystalline polyethylene terephthalate, low density polyethylene, polypropylene, caprone, and enant which [illegible] were all crystalline before deformation which [illegible] cracking is possible under conditions of high rate [illegible] shows that stress curves are the same with formation of a [illegible] bottleneck and of hairline cracks. The stress which causes the formation of hairline cracks is, however, smaller than the one which [illegible] parent substance. The structure of hairline cracks in amorphous and crystalline Lavsan is somewhat different. The [illegible] with increasing temperature at constant stretching rate. The sample remains completely transparent when deformed at a definite temperature. The higher the deformation rate, the higher are the initial temperature [illegible] stretching without formation of hairline cracks, and [illegible]. The formation of hairline cracks occurs below the [illegible] the center of the Lavsan sample with only a thin [illegible] transparent. The density of samples of oriented Lavsan with cracks at [illegible] C.[illegible] - 1.13 g/cm³, strongly differs from that of the same samples showing hairline cracks (about 1.[illegible]2 g/cm³) and drops with rising temperature and

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27575
S/190/61/003/004/013/016
B124/B101

Investigation of polymers...

drawing rate. The orientation of the amorphous Lavsan film with hairline cracking leads to the phase transition of the oriented film. This was confirmed by the appearance of new symmetry elements in the X-ray pictures. When the samples showing hairline cracks are heated [illegible] for 5 hr, the bending strength in the direction of drawing, but not perpendicular to this direction, is considerably reduced. The number of hairline cracks is somewhat reduced by storage in a mixture of phenol and tricresol at 20°C; pressures of [illegible] atm lead to an increase in transparency with density increasing from 1.01 to 1.36. The formation of a bottleneck with hairline cracks in forced elastic deformation of amorphous polyethylene terephthalate at room temperature is accompanied by a phase transition, while only the degree of orientation increases when hairline cracks form in high-rate uniaxial deformation of crystalline low-pressure polyethylene, polypropylene, enant, and caprone. When the stretching rate of Lavsan is reduced below about 200 mm/min, no further hairline cracking is found at room temperature. The dependence of hairline cracking on the regular structure of the molecule in a polymer is proved by the fact that no hairline cracks form in high-pressure polyethylene. V. A. Kargin and G. L. Slonimskiy (Ref. 5: Kratkiye [illegible]herki po fiziko-khimii polimerov

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

27578
S/190/61/003/009/013/016
B124/B101

Investigation of polymers...

(Short treatise on physical chemistry of polymers), izd. MGU, 1960, p. 170 are mentioned. There are 3 figures, 1 table, and 6 references: 7 Soviet and 1 non-Soviet.

ASSOCIATION: Kazanskiy gosudarstvennyy universitet im. V. I. Ul'yanova Lenina (Kazan' State University imeni V. I. Ul'yanov Lenin)

SUBMITTED: October 14, 1960

Card 4/5

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

L 21067-65 EPF(c)/EPR/EPA(s)-2/EWP(j)/EWT(m)/T Pc-4/Pr-4/Ps-4/Pt-10/Pa-4
RPL RM/WW

ACCESSION NR: AP4044884 S/0020/64/157/006/1413/1415

AUTHOR: Maklakov, A. I.; Pimenov, G. G.; Arbuzov, B. A.

TITLE: Nuclear magnetic resonance in pyrolysed polyacrylonitrile

SOURCE: AN SSSR. Doklady*, v. 157, no. 6, 1964, 1413-1415

TOPIC TAGS: polyacrylonitrile, pyrolysis, NMR spectra, pyrolysed polyacrylonitrile

ABSTRACT: Verification of the proposed 2-stage pyrolysis of polyacrylonitrile (PAN) (I-formation of the cyclic structure and conjugation of the C=N bonds and II-reduction of the number of hydrogen atoms and conjugation of the C=C bonds) was sought in this investigation. The NMR spectra of PAN, pyrolysed under $9 \times 10^{-3}$ mm Hg at 210 and 320C for 3, 6 and 10 hours, were obtained in the -150 to +200C temperature interval. From the analysis of the secondary moment-temperature relationships it was concluded that PAN pyrolysed for 3 hours at 210C had already undergone cyclization to I; the second stage of the reaction started to appear on prolonged pyrolysis at this temperature. The role of the

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

L 21067-65

ACCESSION NR: AP4044884

product formed by stage II predominated at 320C. Since $H_2^2$ was independent of time of pyrolysis at 320C; there was no change in the hydrogen structure of the product obtained; the increased specific conductance was attributed to partial graphitization of the material. Orig. art. has: 1 equation and 1 figure

ASSOCIATION: Kazanskiy gosudarstvenny*y universitet (Kazansk State University)

SUBMITTED: 08Apr64 ENCL: 00 SUB CODE: OC, NP

NR REF SOV: 003 OTHER: 004

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

L 2928-66 EWT(m)/EPF(c)/EWP(j)/T/EWA(c)/ETC(m) WW/RM

ACCESSION NR: AP5022606 UR/0190/65/007/009/1592/1596
678.01:53+678.675

AUTHORS: Kuznetsov, G. A.; Gerasimov, V. D.; Fomenko, L. N.; Maklakov, A. I.; Pimenov, G. G.; Sokolov, L. B.

TITLE: The nature of the transitions in polymetaphenyleneisophthalamide

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 9, 1965, 1592-1596

TOPIC TAGS: polymer, resin, thermomechanical property, x-ray, nuclear magnetic resonance, thermal stability, phenylone

ABSTRACT: The nature of the transitions of polymetaphenyleneisophthalamide (phenylone) was investigated by thermomechanical, differential thermal, x-ray, and nuclear magnetic resonance methods. It was desired to determine the best conditions for producing polymers of high thermal stability with improved film and fiber properties. A powdery specimen with a viscosity higher than 1.0 in sulfuric acid and a 5% moisture content was used. The experimental conditions are described. It was found that the initially amorphous phenylone crystallizes upon heating. The thermomechanical curves plotted at a load of 0.8, 6, and 1000 kg/cm$^2$ show that the glass temperature of phenylone is 280C. The x-ray

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L 2928-66

ACCESSION NR: AP5022606

diagrams of amorphous and crystalline phenylone were taken at 26, 100, 286, 356, and 433C. The thermomechanical curve is interpreted on the basis of the data of differential thermal analysis and of x-ray study. After softening at 300C, the polymer starts to crystallize. The range of steady deformation lying at 340-400C corresponds to the crystalline state of phenylone. Heating above 400C causes decomposition, while melting sets in at 430C. The second moment of the absorption line of nuclear magnetic resonance is plotted against temperature for the initial amorphous polymer and for a specimen preheated to 360C. The character of the curves is discussed. It was found that the increase in $\Delta H_2^2$ of the preheated specimen over all temperature ranges produces a smaller mobility and better packing of the molecules, indicative of the crystallization process. The disappearance of the highly elastic state below the melting point of the crystalline substance explains the absence of the minimum on the $\Delta H_2^2$--temperature curve in the range of 290-320C. Orig. art. has: 5 figures.

ASSOCIATION: Vladimirskiy nauchno-issledovatel'skiy institut sinteticheskikh smol (Vladimir Scientific Research Institute of Synthetic Resins); Kazanskiy gosudarstvennyy universitet (Kazan State University)

SUBMITTED: 19Oct64 ENCL: 00 SUB CODE: GC, OC

NO REF SOV: 005 OTHER: 001

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMANOV, G.P.

Theoretical and experimental justification of the [illegible] electrical and mechanical parameters [illegible] the selection [illegible] optimal system for hard facing with a weaving arc. [illegible] 200-210 1962.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, I.

RT-1110 (Some tactical methods of jet-propelled bombers) nekotorykh [illegible] priemakh reaktivnykh bombardirovshchikov.
VESTNIK [illegible] LOTA, ([illegible]): 14-17, [illegible].

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PETROV, I.

P:

Source:

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, I.L. (Moskva)

The work of joining the base of a column with the foundation. Stroi.mekh.i rasch.soor. 4 no.4:18-23 '62. (MIRA 15:8)
(Columns, Iron and steel) (Foundations)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

DIYEV, N.P. [deceased]; OLESOVA, A.I.; PIMENOV, I.V.

Behavior of selenium during metallurgical treatment in the copper smelting industry. Trudy Inst. met. UFAN SSSR no.2:125-139 '58. (MIRA 12:4)

(Selenium) (Ore dressing) (Copper—Metallurgy)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, I. PA 16/49T3

USSR/Aeronautics, Military Jul 48
Guns, Aircraft

"Light and Heavy Armament of Soviet Airplanes," Col Engr I. Pimenov, 7 pp

"Vest Vozdush Flota" No 7 (352)

General review of the development of aircraft armament in Russia.

[redacted] 16/49T3

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

25322

Vooruzhenie sovetskikh samoletov. Vestnik Vozdush. Flota, 1948, No. 7, s. 16-2

SO: LETOPIS NO. 30, 1948

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

POSTNIKOV, Aleksandr Konstantinovich; STEPANOV, Anatoliy Alekseyevich; PIMENOV, Ivan Ivanovich; SHARIKOV, I.M., retsenzent; SEGAL', E.M., redaktor; MEDVEDEVA, L.A., tekhnicheskiy redaktor

[OPL-2 wringing and rinsing machine for retted flax] Otzhimno-promyvnaia mashina OPL-2 dlia l'nianoi tresty. Moskva, Gos.nauchno-tekhn.izd-vo M-va legkoi promyshl. SSSR, 1957. 13 p. (MLRA 10:9)
(Flax)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

1. I. K. . DERKOV

2. USSR (600)

4. Bee Culture - Equipment and Supplies

7. How to store combs. Pchelovodstvo 30 no. 1. 1953.

9. Monthly List of Russian Accessions, Library of Congress, April [illegible]

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

BELENYA, Yevgeniy Ivanovich, [illegible]ktor tekhn. nauk, prof.;
VEDENIKOV, G.S., kand. tekhn. nauk, retsenzent; [illegible],
I.L., [illegible], [illegible], S.A., kand. tekhn. nauk, nauchn.
red.; [illegible], I.S., [illegible]; [illegible], T.M., tekhn. red.

(Supp[illegible] [illegible] Predvaritel'no
[illegible] konstrukt[illegible]. M[illegible]
[illegible]. (MIRA [illegible]

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

BELENYA, Yevgeniy Ivanovich, doktor tekhn. nauk, prof.; VEDENIKOV, G.S., kand. tekhn. nauk, retsenzent; PIMENOV, I.A., kand. tekhn. nauk, retsenzent; POPOV, S.A., kand. tekhn. nauk, nauchn. red.; BORODINA, I.S., red.

[Bearing structures of prestressed metal] Predvaritel'no napriaznennye metallicheskie nesushchei konstruktsii. Moskva, Gosstroiizdat, 1963. 3[illegible] p. (MIRA 17:5)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, I.L.

Conference on prestressed metal and cable-suspended elements. Stroi. mekh. i rasch. scor. 4 no.3:48 '62. (MIRA 15:6)
(Precast concrete construction—Congresses)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

SOV/137-59-5-[illegible]

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, [illegible]

AUTHORS Diyev, N P, Glesova, A.I., Pimenov, I V

TITLE Behavior of Selenium in Metallurgical Reprocessing in the Copper Smelting Industry

PERIODICAL Tr. In-ta metallurgii, Ural'skiy fil. AN USSR, 1958, Nr 2, pp [illegible] 139

ABSTRACT The authors show the distribution of Se over ore concentration products on the basis of investigations into the composition of concentrates (Cu-Zn ore). The radioactive $Se^{75}$ isotope was used to investigate the rate and mechanism of the Se oxidation in roasting pure $Cu_2Se$ and $Ag_2Se$ and conventional Cu-concentrate. Investigations into the oxidation rate were carried out at 500°, 600°, 700° and 800°C. Gas mixtures of $N_2$ and $O_2$, containing [illegible] and 21% $O_2$ were used for selenide oxidation. The completeness and rate of the Se elimination by oxidation depend more on the temperature than on the $O_2$ concentration in the gaseous phase. The degree of Se elimination in roasting Cu of a charge attains [illegible] 1% [illegible] of $SeO_2$, concentr[illegible]

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SOV/137-59-5-[illegible]

Behavior of Selenium in Metallurgical Reprocessing in the Copper Smelting Industry

flue sections located near the furnaces. When roasting Cu concentrates, [illegible]% Se and 58.5% S are driven-off into the gasiform phase. The authors studied the distribution of Se in reverbatory smelting of cinder, obtained by roasting of Cu-concentrate with radioactive Se. It was found that up to 40% Se and 33.7% S are oxidized in reverbatory smelting. In waste slags ~ 20% Se and 13% are lost. About 40% Se remain in the matte. In bessemerizing the matte ~ 7% Se and 92% S are oxidized. The different behavior of Se and S in the oxidation of materials is explained. It is recommended to extract Se from all dusts of the copper smelting industry by means of sulfating roasting with subsequent leaching-out of the cinder.

N. P.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

[illegible]VA, A. [illegible], [illegible], [illegible], [illegible], [illegible] and [illegible]KOV, [illegible]

[illegible]

[illegible]

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

DIYEV, N.P.; OLESOVA, A.I.; PIMENOV, I.V.; KADNIKOV, B.T.

Oxidation of selenium copper. Trudy Inst. met. AN SSSR no.1: 52-58 '57. (MIRA 11:9)

(Copper--Electrometallurgy) (Selenium)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PHASE I BOOK EXPLOITATION SOV/6417

Suslov, Nikolay Ivanovich, Aleksey Dmitriyevich Grigor'yev, Igor' Veniaminovich Pimenov, Yevgeniy Pavlovich Krestnikov, Valentina Ivanovna Susorova, Valentina Ivanovna Morotskaya, Tamara Vasil'yevna Basargina, and Pavel Alekseyevich Zaytsev

Nemetallicheskiye materialy; spravochnik (Nonmetallic Materials; A Handbook). Moscow, Mashgiz, 1962. 360 p. Errata slip inserted. 32,000 copies printed.

Ed. (Title page): N.I.Suslov, Engineer; Reviewers: A.V.Podol'skiy, Engineer, A.I.Lesik, Engineer, T.V. Basargina, Engineer, and Yu.I. Bagin, Engineer; Tech. Ed.: N.A.Dugina; Executive Ed. of Ural-Siberian Department (Mashgiz): N.D.Chilikina, Engineer.

PURPOSE: This handbook is intended for engineers and technicians in the machine building industry.

COVERAGE: The book contains systematized information on non-metallic materials used in machine building in the Soviet Union.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

Nonmetallic Materials (Cont.)

SOV/6417

Trade names, GOST designations, properties, and applications are given in tabular form for plastics, adhesives, varnishes, dyes, oils, and chemicals. The book deals primarily with plastics, which are divided into seven classes. Chapter I was compiled by Engineer N.I.Suslov; Chapter II, by Candidate of Technical Sciences A.D.Grigor'yev and Engineer I.V.Pimenov; Chapter III, by Engineer V.I.Susorova; Chapter IV, by Engineers E.P.Krestnikov, V.I.Morotskaya, and T.V.Basargina; and Chapter V, by Engineer P.A. Zaytsev. There are 84 references: 83 Soviet and 1 English.

TABLE OF CONTENTS:

Preface 5

Ch. I. Plastics 7

Ch. II. Adhesives 151

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

SUSLOV, Nikolay Ivanovich, inzh.; GROGPR'YEV. A;elseu Dmitriyevich, kand. tekhn.nauk; PIMENOV, Igor' Veniaminovich, inzh.; SUSOROVA, Valentina Ivanovna, inzh.; KRESTNIKOV, Yevgeniy Pavlovich, inzh.; MOROTSKAYA, Valentina Ivanovna, inzh.; BASARGINA, Tamara Vasil'yevna, inzh.; ZAYTSEV, Pavel Alekseyevich, inzh.; PODOL'SKIY, A.V., inzh., retsenzent; LESIK, A.I., inzh., retsenzent; BASARGINA, T.B., inzh., retsenzent; BAGIN, Yu.I., inzh., retsenzent; DUGINA, N.A., red.

[Nonmetallic materials]Nemetallicheskie materialy: spravochnik. Pod red. N.I.Suslova. Moskva, Mashgiz, 1962. 360 p. (MIRA 16:3)

(Nonmetallic materials)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

VY'TKIN, G.P.; OSTROUKHOV, M.Ya.; Prinimali uchastiye: KHOLZAKOV, V.I.; KOPYRIN, I.A.; TARASHCHUK, N.T.; FILIPPOV, Yu.P.; NIKOL'SKIY, M.A.; CHISTYAKOV, A.Ye.; PIMENOV, L.I.

Investigating the process of blast furnace smelting for the production of nickel matte. [Sbor. trud.] Nauch.-issl.inst.met. no.4:71-81 '61. (MIRA 15:11)

(Nickel—Metallurgy)
(Blast furnaces)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

AKSENOV, Ye.; VASIL'YEV, A.; NIKIFOROV, V., PIMENOV, M.; SHADURSKIY, P.

"Peat semibriquet" by [inzh.] D I.Shukhman. Reviewed by E.Aksenov and others. Torf.prom. 39 no.3:39-40 '62. (MIRA 15:4)
(Briquets (Fuel)) (Shukhman, D I.)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

SOV/170-59-3-16/20

AUTHOR: Pimenov, M.A.

TITLE: Resistance to Pulp Motion Through Open Channels (Soprotivleniye pri dvizhenii gidromassy po otkrytym kanalam)

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1959, Nr 3, pp 106-111 (USSR)

ABSTRACT: The number of investigations showed that the peat pulp belongs to systems which possess an anomaly of viscosity. It is a plastic-viscous substance [Ref. 1, 2] which obeys the Bingham equation [Ref. 2]. The author derives a formula which expresses the functional dependence of the pulp discharge Q on its viscosity $\eta$, the absolute value of the critical shear stress $\theta$ and the slope necessary for overcoming this stress. The final formula (14) can serve to determine the slope of the bottom of a pulp-conducting channel for the motion of pulp through it. On the basis of experiments carried out by the author and the recovery of peat with pulp transportation through open channels, the author established the following relation between the concentration of dry substance in the pulp S and the transportation distance l:

$$S = a + \frac{b}{l + d}$$

where a, b, and d are constant quantities obtained from

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, L.I.; ZYAZEV, A.D.

Electric melting reduction of converter slags from nickel production. TSvet. met. 38 no.1:34-36 Ja '65 (MIRA 18:2)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001340910011-1

PIMENOV, M.A., inzh.

Oil and moisture trap for piston air compressors. Energetik 8 no.6:21-22 Je '60. (MIRA 13:7)
(Air compressors)

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