SHVARTSAFEL!, ENG. YE.

MEAT INDUSTRY

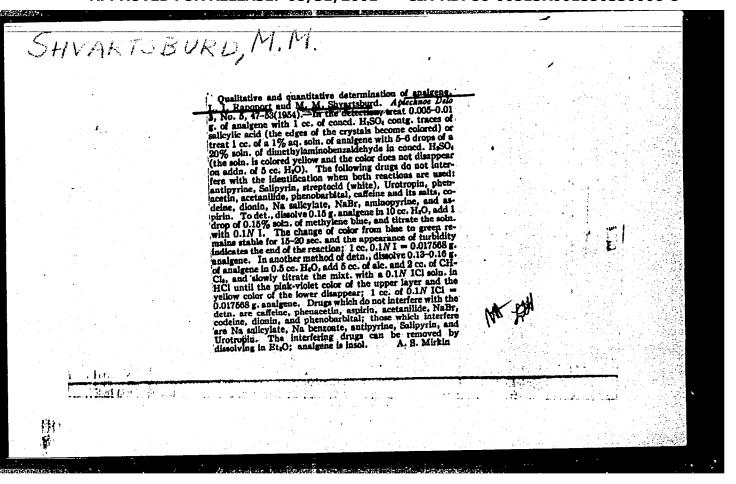
Growing enterprise. Mias. ind. SSSR 23 no. 3 (1952)

9. Monthly List of Russian Accessions, Library of Congress, September 195%, Uncl.

KUL'BERG, L.M.; SHVARTSBURD, M.M.

New method for the detection of iodide impurities in bremides. Ukr.khim.shur.17 no.5:799-800 \*51. (MLRA 9:9)

1.Saratevskiy gesudarstvennyy universitet.
(Iedides) (Bremides)



SHVARTSBURD, M.M., analitik

Troublesome qualitative reactions in complex medicinal compounds. Apt.delo 6 no.3:52-55 My-Je '57. (MIRa 11:1)

1. Iz apteki No.24 v Kiyeve (upravlyayushchiy N.I.Tkachuk) (CHEMISTRY, MEDICAL AND PHARMACEUTICALO

SHVARTSBURD, M.M., analitik

Consecutive detection of two or three ingredients with on reagent or in the course of one reaction. Apt.delo 9 no.1:60-61 Ja-F '60.

(MIRA 13:6)

1. Iz praktiki apteki No.24 Kiyeva.
(DRUGS-ADULTERATION AND ANALYSIS)

SHVARTSBURD, M.P., inzh.

Rizamples of redesigning parts in order to improve their operational efficiency. Stroi. i dor. mashinostr. 2 no.11:35-36 N \*57.

(Building machinery) (Road machinery) (MIRA 11:1)

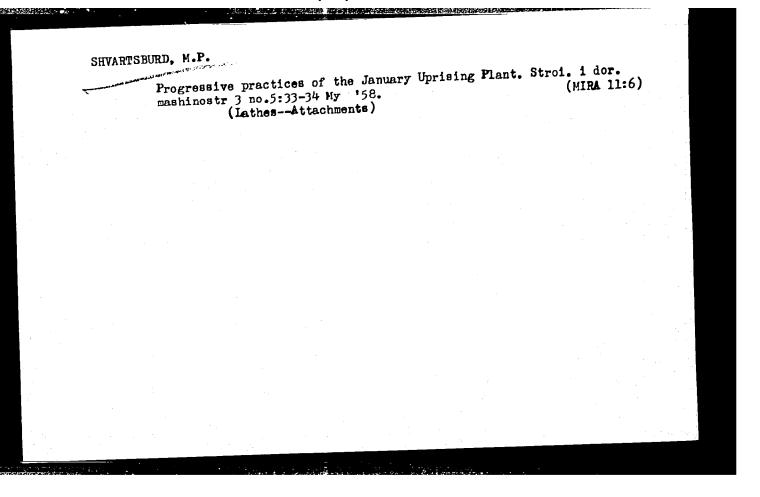
SHVARTSURD, M.P., inzh.

Initiator of introducing progressive work methods everywhere. Stroi.
i dor. rashinostr. 3 no.1:39 Ja '58.
(Dubchak, G.N.)

SHVARTSBURD, M.P., inzh.

Improving equipment at the January Uprising Plant. Stroi. i dor.
mashinostr. 3 no.2:35-36 F '58. (MIRA 11:2)

(Machine tools--Attachments)



SHVARTSBURD, M.P., inzh.

Experience in machining workpieces. Stroi. i dor. meshinostr. 3
(MIRA 11:8)
no. 8:31 Ag '58.

(Milling machines)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330006-8"

Forger and innovator. Stroi. i dor.mashinostr. 3 no.11:38-39
(MIRA 11:11)

K '58. (Oveiannikov, Dem'ian Vasil'evich)

SHWARTSBURD, M.P., inzh.

Standardization of pressure lubricators for cranes. Stroi. i dor.
mashinostr. no.4:35 Ap '58.

(Lubrication and lubricants)

(Lubrication and lubricants)

AUTHOR:

Shvartsburd, M.P., Engineer

117-58-6-20/36

TITLE:

A Grease Gun Head for Lubricators With Consistent Lubricants

(Golovka shpritsa dlya maslenok konsistentnykh smazok)

PERIODICAL:

Mashinostroitel', 1958, Nr 6, p 31 (USSR)

ABSTRACT:

The grease gun heads now produced according to GOST 3027-45, are complicated and do not resist pressures higher than

150 kg per cm<sup>2</sup>. In the Odesskiy kranovoy zavod imeni "Yanvarskogo vosstaniya" (Odessa Crane Plant imeni "Yanvars-... koye vosstaniye" a new head was devised, which is simpler and is resistant to pressures of  $250-300 \text{ kg/cm}^2$ . The device is

represented in the figure. There is 1 figure.

AVAILABLE:

Library of Congress

Card 1/1

1. Grease gun heads-Design

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330006-8"

25(7)

sov/117-59-3-25/37

AUTHOR:

Shvartshurd, H.P., Engineer

TITLE:

A Two-Mill Set for Milling the Teeth of a Ratchet Wheel (Nabor iz dvukh frez dlya frezerovaniya zub'-

yev khrapovika)

PERIODICAL:

Mashinostroitel', 1959, Nr 3, p 39 (USSR)

ABSTRACT:

The described special holder for two milling cutters, one righ and one finishing, permits the semi-automatic machining of four large ratchet wheels in one setting on a "Komsomolets" gear milling machine. It is now in use also on a "5342" gear cutter of the Kolomenskiy zavod tyazhelogo mashinostroyeniya (Kolomna Heavy Machine Tool Building Plant). The two mills work in couple and perform the rough and the finish cut at one time. The idea has eliminated the subsequent fitting of the ratchet wheels with the use of templates. The work rate rose 40%, and the work quality improved. There is I photograph.

Card 1/1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330006-8"

PELEVIN, M.A., insh.; SHVARTSRURD, M.P., insh.

Universal equipment for hardening parts by high-frequency currents.

Stroi.i dor.mashinostr. 4 no.5:33-35 My '59.(MIRA 12:7)

(Metals-Hardening)

SHVARTSBURD, H.P., inzh.

Boring precise holes in welded metal structures of truck cranes. Stroi. i dor.mashinostr. 4 no.6:32-34 Je 159.

(MIRA 12:8)

(Drilling and horing)

Use of multiple-purpose adjusting equipment considerably increases the labor productivity. Stroi.i dor.mashinostr. no.7: 27-29 J1 '59. (MTRA 12:11)

(Factory management)

SHVARTSBURD, M.P., inzh.

Pneumatic clamps for parts. Mashinostroitel' no.11:19 N '59.

(MIRA 13:3)

(Drilling and boring machinery--Attachments)

CHERNETSKIY, C.I.; SIPITINER, Yu.B.; SHVARTSBURD, M.P.

Read justable universal pneumatic attachments. Mashinstroitel'
no.8:27 Ag '60.

(Machine tools—Attachments)

SHVARTSBURD, S.I., uchitel' matematiki 425-y sredney shkoly (Moscow);

GONCHAROV, V.L., professor, redaktor; TSVETKOV, I.L., redaktor;

TYSHEEVICH, Z.V., tekhnicheskiy redaktor

[Systems of equations; methodical development of the subject for a course in algebra for class 8] Sistemy uravnenii; metodicheskaia razrabotka temy dursa algebry VIII klassa. Pod red. V.L.Goncharova. Moskva, Izd-vo Akademii pedagog. nauk RSFSR, 1955. 94 p. (MLRA 8:7) (Equations)

VILENKIN, N.Ya.; SHVARTSBURD, S.I. (Moskva)

Some applications of exponential and logarithmic functions.

Mat. v shkole no.5:9-21 S-0 '59. (MIRA 13:2)

(Functions, Exponential)

VILENKIN, N.Ya.; SHVARTSBURD, S.I. (Moskva) Problems related to the explanation of exponential and logarithmic functions. Mat.v shkole no.4:41-43 J1-4g 60. (MIRA 13:9)

(Functions, Exponential)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330006-8"

SHVARTSBURD, S.I. (Moskva)

Experience obtained from work with pupils of the 9th grade studying to be programmers. Mat. v shkole no.5:9-16 S-0 '60. (MIRA 13:10) (Mathematics--Study and teaching)

VILENKIN, N.Ya.; SHVARTSBURD, S.I. (Moskva)

Teaching limits of variables and of functions in a secondary school.

Mat. v shkole no.1:24-34 Ja-F '61. (MIRA 14:3)

(Calculus --Study and teaching)

SHVARTSBURD, Boris Isaakovich; SHVARTSBURD, Semen Isaakovich; UMANSKIY, G.S., red.; MAKHOVA, N.N., tekhn. red.

[Problems in mathematics for schools specializing in machine building]Zadachi po matematike dlia shkol s mashinostroitel'noi spetsializatsiei; posobie dlia uchitelsi IX-XI klassov. Moskva, Uchpedgiz, 1962. 93 p.

(MIRA 16:1)

(Mathematics--Problems, exercises, etc.)

ASHKINUZE, V.G.; SHVARTSBURD, S.I. (Moskva)

Schools specializing in mathematics. Mat. v shkole no.2:81-83 Mr-Ap '63.

(MIRA 16:4)

(Mathematics—Study and teaching)

AUTHOR: Shvartsburd Ye. Ya . Engineer

110-58 - 5-12/25

AUTHOR: Divalesould, Terra, Diffineer

TITLE: The Power Balance and Economic Aspects of Vertical

Enamelling Furnaces (Energeticheskiy balans i voprosy

ekonomichnosti vertikal'nykh emal'pechey)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, Vol 29, Nr 5, pp 39 - 41 (USSR).

ABSTRACT: Vertical enamelling furnaces of 15 up to 150 kW are used for wires of diameter 0.07 up to 3 mm or more. Their low efficiency calls for improvement. It is defined as the ratio of the power actually required to dry and polymerise the lacquer to the total input of the furnace. Efficiency figures for various types of enamelling furnaces, when using oil lacquers are given in Table 1; the values range from 1.5 to 3%.

Wires are enamelled by applying a film of liquid lacquer which is then heated. The heat input to the furnace is partly dissipated with the outgoing hot gas, partly lost through the furnace walls and partly used to heat the wire and lacquer. Energy balances based on this sub-division have been calculated for various types of enamelling furnace; the results are displayed in Table 2. The percentages do not total 100%

Card 1/3

110-58 -5-12/25

The Power Balance and Economic Aspects of Ventical Enamelling Furnaces

because they are referred to the rated power of the furnaces which are in fact regulated: moreover, some of the calculations are approximate.

It will be seen that a large part of the power, on an average 62%, is lost with the discharged gases and the heat lost through the walls averages 25%; only 8% of the power is used to heat the enamelled wires. The furnace efficiency can be reduced by reducing the air movement. The outlet aperture cannot be made too small or else the vibrating wires will touch it during the enamelling process but the amount of air passing through the furnace can be cut down by installing a suitable inlet fan. If the air-flow is thereby halved, the power consumption of a 70 kW furnace, for example, can be reduced by 19 kW. However, in cutting down the air flow there is a risk of forming explosive mixtures in the equipment. The lower limit of nonexplosive concentration for vapours of the solvents formed when enamelling with vinylflex synthetic lacquer is 3% and with oil lacquers (kerosene) 1%. Results of calculations of solvent contents in the atmospheres of different furnaces with reduced air flow are given in Table 3 and it is shown that the normal air flow can be halved without risk of explosion.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330006-8"

110-58-5-12/25
The Fower Balance and Economic Aspects of Vertical Enalphing Furnaces

is clearly a useful way of saving power. Also, the losses through the wall can be cut down by making the furnaces smaller, which is possible because the working chambers are often too big and, in particular, the furnaces should be made as narrow as possible.

There are 3 tables.

ASSOCIATION: NIIKP

SUBMITTED: June 24, 1957

Card 3/3

(N) <u>L 11629-66</u> EWT(m)/EWP(t	)/EWP(k)/EWP(b)/EWA(c SOURCE CODE: UR/C	) JD/HW 0286/65/000/022/0012	/0012
INVENTOR: Shvartsburd, Ye. Ya.		•	16 B
ORG: none TITLE: Method of wire extrusion. Class	7, No. 176229		
SOURCE: Byulleten' izobreteniy i tovarn	ykh znakov, no. 22, 1	965, 12	5
ABSTRACT: This Author Certificate intro transferred by a liquid medium. To make pressure fluid is forced to move in the	duces a method for wi	re extrusion by pre s continuous, the h n. The friction	ssure igh-
which is created between the wife for a orig. art. has: 1 figure.		[AZ]	
SUB CODE: 13/ SUBM DATE: 26Feb63/ AT	ID PRESS: 4/77		
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ACCESSION NR: AP4033637

\$/0188/64/000/002/0076/0078

AUTHOR: Shvartsburg, A. B.

TITLE: Study of a ring current shielded by a conducting cylinder

SOURCE: Moscow. Universitet. Vestnik. Seriya III. Pizika, astronomiya, no. 2, 1964, 76-78

TOPIC TAGS: ring current, shielded ring current, conducting cylinder, cylindrical current shield, Poisson equation

ABSTRACT: The author assumes that within a hollow cylinder whose radius is a and whose height is 2\$\mathcal{l}\$, there is a circular current filament j of radius \$r\_0\$ whose plane is equally distant from the ends and parallel to them. If it is assumed that the walls of the cylinder are superconducting, the field within the cylinder canthe walls of the Poisson equation. After putting this equation into cylindrible determined by the Poisson equation. After putting this equation into cylindrical coordinates it appears that the field components \$H\_Z\$ and \$H\_T\$ are equal to 0 at the boundaries of the cylinder. It is then possible to find an expression for the internal Green's function. From this point a series of formulas leads to derivation of the distribution of H within the cylinder and subsequent computations make it possible to find the potential function of the ring current. Through

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ACCESSION NR: AP4033637

similar calculations the problem of the field of a charged ring within a conducting cylinder can be solved. "The author thanks Academician V. I. Veksler for sustained interest in the study and Yu. N. Lobanov, V. G. Makhan'kov and O. I. Yarkov for valuable discussions." Orig. art. has: 15 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy institut yadernoy fiziki (Scientific Research Institute of Nuclear Physics)

SUBMITTED: 15Apr63

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: GP

NO REF SOV: 002

THER: 001

Card 1 2/2

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EWT(1)/ETC(F;/EFF(n)-2/EWO(m) IJP(c) I. 12085-/6 EWT() ACC NR. AP5024701 UR/0056/65/049/003/0797/0806 SOURCE CODE: **AUTHORS:** Shvartsburg, A. B. Tsytovich, ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences SSSR (Fizicheskiy institut Akademii nauk SSSR) Contribution to the theory of nonlinear interaction of waves in a magnetoactive anisotropic plasma 21, 22, 3 Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. SOURCE: 3, 1965, 797-806 TOPIC TAGS: magnetoactive plasma, anisotropic plasma, plasma interaction, plasma wave propagation, plasma oscillation, plasma decay ABSTRACT: A procedure previously used by one of the authors (Tsytovich, with A. Gaylitis, ZhETF v. 46, 1726, 1964 and v. 47, 1469, 1964; also with L. M. Kovrizhnykh, ZhETF v. 46, 1455, 1964) is used to obtain general equations describing nonlinear interaction of waves in an anisotropic plasma both in the presence and in the absence of external magnetic fields. Unlike in earlier papers, the results are not confined to the assumption that the plasma is isotropic even in the case of zero magnetic field, and are therefore suitable for a description of the

L 12085-66

ACC NR: AP5024701

interaction of waves in a system of interpenetrating plasmas. sults can be used for an analysis of the interaction and nonlinear conversion of non-potential oscillations and waves in a plasma, such as interaction between a plasma and intense high-frequency radiation in the radio and optical bands. Damping is neglected and a procedure for analyzing the interaction of waves having random phases is used. Explicit expressions are derived for the probabilities of scattering of normal waves by plasma electrons and ions and for the probabilities of the decay processes. The equations obtained are limited to a weakly turbulent plasma, and in this approximation the nonlinear effects describe the interaction between waves that satisfy the dispersion relations of the linear theory. Orig. art. has: 31 formulas

NR REF SOV: 018/ OTH REF: 002 SUBM DATE: 12Feb65/ 20/ SUB CODE:

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330006-8"

EWT(d)/EWT(1)/EEC(k)=?, SIC(f)/EFF(n)=2/EWG(m)/FCC/ENA(h)IJP(c) L 20540-66 SOURCE CODE: UR/0386/66/003/003/0105/0114 RB/AT/G: AP6008733 ACC NR: Tsytovich, V. ..., Shvartsburg, A. B. AUTHOR: ORG: Physics Traditute im. P. N. Lebedev, Academy of Sciences SSSR (Instit fiziki Akademii nauk SSSR) TITLE: Nonlinear polarization of radiation passing through a plasma SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 3, 1966, 105-110 TOPIC TAGS: nonlinear plasma, plasma interaction, radio wave propagation, cosmic radiation, cosmic radio source ABSTRACT: The authors show that nonlinear interaction effects can noticeably alter the polarization of radiation passing through a plasma, if the radiation has sufficient intensity or if its path in the plasma is sufficiently long. The results can be used in investigations of the polarization properties of cosmic radiation, propagation of radio waves, etc. This is done by assuming that the nonlinear effects are weak, expanding the current produced by the wave in the plasma in powers of the wave amplitude, and solving the wave propagation equation by the method of Bogolyubov and Van der Pol, as demonstrated elsewhere (Izv. VUZov, Radiofizika v. 8, 3, 1965). The results are used to analyze the interaction between different polariza-Card 1/2

L 20540-66 ACC NR: AP6008733

tion components of a single monochromatic wave, and the relative rotation of the polarization ellipse and the electric vector. They apply also to the interaction of two waves having different frequencies, where it can be shown that the sum of the energies of the two components of each of the polarizations is conserved. Equations for the mean value of the polarization components are obtained for random interacting waves. It is shown that the interaction of any one wave with any other wave can lead only to a change in the ratio of the intensities of the different polarization components, without changing the total energy of the wave. This characteristic property of the nonlinear interaction in question sharply distinguishes it from other known nonlinear interactions (decay processes and induced scattering) that lead to a change in the spectral composition of the radiation. Another consequence of the calculation is the conservation of entropy (which follows from the conservation of the number of quanta), and consequently reversibility of the nonlinear interactions for random waves. A rough estimate is presented to illustrate the role of the interaction under consideration for the most unfavorable case, when the ellipticity is quite small. For the Crab nebula, for example, with energy densities of 5 ev/cm3 at a wavelength ~100 m, the ellipticity is found to be ~10-3. An account of this effect becomes even more important for other radio sources with larger emission density, and also in the case of radio wave propagation in the ionosphere, etc. Orig. art. has: 9 formulas.

ORIG REF: 007/ SUB CODE: 120/ SUBM DATE: 25Nov65/

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330006-8"

ACC NRi APG033428 SOURCE CODE: UR/0057/66/036/010/1896/1900

AUTHOR: Tsytovich, V.N.; Shvartsburg, A.B.

org: none

TITLE: On the theory of the excitation and propagation of electromagnetic waves in a weakly turbulent plasma

SOURCE: Zhurnal tekhnicheskoy fiziki, v.36, no. 10, 1966, 1896-1900

TOPIC TAGS: turbulent plasma, plasma diagnostics, plasma stability, double refraction hydrodynamic theory, perturbation method

ABSTRACT: The authors employ the hydrodynamic equations for the plasma electrons to discuss high frequency perturbations of a weakly turbulent cold plasma. An expression containing terms up to the third degree in the electric field strength is obtained for the current in the plasma. It is assumed that the random electric field due to the turbulence is large compared with the perturbation field, and only terms linear in the latter are retained. A formula is given for the dielectric tensor of a plasma containing both longitudinal and transverse turbulence. The imaginary parts of the dielectric tensor lead to the known decay instabilities. The expression obtained for the increment for quasilongitudinal waves in the presence of transverse turbulence agrees with that obtained in the random phase approximation by V.A.Liperovskiy and V.N.Tsytovich (Preprint FIAN, A-120, 1965) but is valid beyond the limits of appli-

Card 1/2 UDC: 533.915.7

ACC NR: AP6033428

cability of that approximation. New types of instabilities are found, which cannot be described in the random phase approximation. Conditions for the appearance of these instabilities in a plasma containing anisotropic longitudinal or transverse turbulence are found and expressions for their increments are derived. The double refraction of high frequency waves in a plasma containing anisotropic longitudinal refraction of high frequency waves in a plasma containing anisotropic longitudinal turbulence is discussed. The double refraction in a turbulent plasma may prove useful in plasma diagnostics. Orig. art. has: 24 formulas.

SUB CODE: 20 SUBM DATE: 25Feb66 ORIG. REF: 008 OTH REF: 001

Card 2/2

ACC NR: AP6036026 SOURCE CODE: UR/0057/66/036/011/1915/1942

AUTHOR: Tsytovich, V.N.; Shvartsburg, A.B.

ORG: Physics Institute im. P.N.Lebedev, Moscow (Fizicheskiy institut im. P.N.

Lebedeva)

TITLE: Nonlinear interaction of waves in a plasma in a strong external magnetic field

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 11, 1966, 1915-1942

TOPIC TAGS: nonlinear plasma, turbulent plasma, augnetoactive plasma, plasma

ABSTRACT: The scope of this 27 page treatise on nonlinear interactions of waves in magnetized plasmas is indicated by the following section and subsection headings:

1) Nonlinear interaction; 2) Nonlinear scattering; 3) Induced scattering of high frequency waves on ions, a) Scattering through virtual plasma waves of plasma waves and extraordinary waves at the zeroth harmonic; 4) Scattering through plasma waves at the first harmonics; 5) Induced nonlinear. scattering of waves on ions through virtual quasitransverse waves; 6) Induced scattering of low frequency plasma waves on ions; 7) Induced scattering of high frequency waves on electrons; 8) Decay processes, a) Decay of plasma waves into low frequency waves, b) Decay of plasma waves into transverse waves and vice versa, d) Decay of transverse waves into transverse waves and vice versa, d) Decay of transverse waves into transverse waves are based on a modification for the case of weakly damped waves in a magnetized plasma under conditions of weak

ACC NRi APG036026

space dispersion of the general method developed in a series of papers by A. Gaylitis and V.N.Tsytovich (ZhETF, 46, 1726,1964; 47,1468,1964) and by the present authors (ZhETF, 49,795,1965). Three types of waves are discussed: plasma waves, ordinary waves, and extraordinary waves. Under certain conditions the cross section for scattering on ions can exceed that for scattering on electrons. The interaction of waves propagating nearly perpendicularly to the magnetic field can somewhat exceed that of waves propagating parallel to the field. Nonlinear scattering involving virtual waves of different types is discussed and it is shown that induced scattering at the first harmonics of the ion Larmor frequency can exceed that at the zeroth harmonic. The possibility of nonlinear amplification of plasma oscillations at frequencies near the electron cyclotron resonance is discussed. Scattering on ions through virtual quasitransverse waves can exceed that through quasilongitudinal waves; the conditions that this be the case are found, and the induced nonlinear scattering on ions of low frequency plasma waves is discussed. The scattering of waves on the plasma electrons is also discussed. Probabilities are given for a number of decay processes, and equations are presented in an appendix with which probabilities of other decay processes can be calculated. Orig. art. has: 133 formulas, and 5 figures.

SUB CODE: 20 SUBM DATE: 17May65 ORIG. REF: 029 OTH REF: 001

Card 2/2

SHVARTSBURG, G.A. [Shvartsburg, H.4.]; SIVAK, V.1. [Syvak, V.1.]

Improvement of the production of men's trousers. Leh. prom. no.3:

18-19 J1-S '55. (MIPA 18:9)

8(4) AUTHOR:

Shvartsenau, N. F.

SOV/32-25-2-55/78

TITLE:

Resistance Heating Elements for the Zone Melting Process (Nagrevateli soprotivleniya dlya zonnogo plavleniya)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 2, p 232 (USSR)

ABSTRACT:

For the purification of metals and semi-conductors according to the method of zone-recrystallization a thin, powerful heating element is often required consisting of a spiral of heat-resistant alloy in an appropriate case. This case can be manufactured within the plant. A mixture of 30% of heat-resistant alumina and 70% of electro-corundum with a particle size of 80 to approximately 400 mesh is used. The case is manufactured from this mixture and water; it is recommended to bake the crude case at 600° prior to mechanical finishing. After the finishing process the case is baked once more at 1250-1350°, shrinkage amounting to 1.5% at most. Cases produced in this way do not react with the material of the heating element (chrome-nickel, alloy No 2), not even in prolonged operation at temperatures up to 1200°.

Card 1/2

Resistance Heating Elements for the Zone Melting Process

SOV/32-25-2-55/78

A dismantled heating element of the above-mentioned type is shown in a figure (Fig). There is 1 figure.

ASSOCIATION: Institut poluprovodnikov Akademii nauk SSSR (Institute of Semi-Conductors, Academy of Sciences, USSR)

Card 2/2

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#### SHVARTSENAU, N.F.

Purification of tellurium by the zone-melting method. Fiz. tvertela 2 no.5:870-873 My '60. (MIRA 13:10)

1. Institut poluprovodnikov AN SSSR, Leningrad. (Tellurium)

USPANSKIY, Yu.N., prof; TIMOFEYEVA, T.A.; SHVARTSER, I.V.

Activity of salivary glands in dogs after a single mass X-irrediation of the abdomen [with summary in English]. Med.rad. 2 no.6:37-41 N-D'57. (MIRA 11:2)

1. Iz kafedry normal'noy fiziologii (zav. - prof. Yu.N.Uspenskiy)
Astrakhanskogo meditsinskogo instituts
(ROENTGEN RAYS, eff.

abdom. irradiation on salivary gland funct. in dogs)
(ABDOMEN, eff. of radiations on x-irradiation, on salivary gland funct. in dogs)
(SALIVARY GLANDS, physiol.
eff. of x-irradiation of abdom. in dogs)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330006-8"

89669

S/135/61/000/003/006/014 A006/A001

1.2300

Shvartser, A. Ya.

minir.

AUTHOR:

Building Up With Taper Electrodes

PERIODICAL. Svarechnoye proizvodstvo, 1961, No. 3, pp. 17-19

TEXT: At the Donetskiy Polytechnic Institute a new, highly efficient method of building up with taper electrodes was developed. (Author's Certificate No. 124568 with priority from February 21, 1959). The method can be also used for the electro-slag casting of a variety of parts. Figure 1 shows a scheme of the building-up process using a basic shaped electrode, representing a hollow rotary taper whose wall thickness  $\tilde{O}$  is selected depending on the thickness of the built-up layer  $S:\tilde{O}=S\sin\frac{\omega}{2}$  where  $\omega$  is the angle at the taper vertex. It is suggested to select  $\tilde{O}$  within  $\tilde{D}$  to 20 mm. The basic shaped electrode can be employed for the building up of annular or circumferential welds. For the first case a truncated taper is used, for the latter a full taper. The taper electrode is manufactured by casting, press-forming or folding of a sheet. Its shape may be different (Fig. 2). The taper electrode can be very well combined with tubular electrodes of a corresponding section (Fig. 3). The equipment required is simple;

Card 1/6

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89669

E/135/61/000/003/006/014 A006/A001

Eurlding Up With Taper Electrodes

the A-569, and A-550 machines designed by the Institute of Electric Welding imeni Ye. O. Paton or analogous apparatus may be amployed. A special machine for building up with taper electrodes is snown in Figure 4. It was designed by the Denetskiy Polytechnic Institute, and is equipped with devices for correcting the position of the electrode and of the work piece. Building up can be performed at high current intensities, permitting the building up of 1,200 imes 1,200 mm surfaces. The movable carriage is driven by a d-c motor which is fed from an electro-mechanical amplifier. Fower supply to the building up device can be brought about by transformers TWC-1000-3 (TShS-1000-3) or TWC-3000-3 (TShS-3000-3). The described machine is fed from a single-phase 500 kvamp transformer. Prior to welding, the horizontal position of the work piece must be strictly observed. The electrode is then shortened by a solid electroconductive flux AH=25 (AN-25). AH -8 (AN-8) flux is filled into the taper and placed externally around the elecprode tip. The electrode is in a downward position. The process is conducted under electrosiag conditions, which can however be altered to are welding conditions. The main parameters characterizing the process are: the electrode thickness; the angle of confeity; the electrode feed rate; the current intensity; the depth of the slag pool and the voltage on the slag pool. A combined graph (Fig. 6) shows the electrode feed  $S_{
m n}$ , current intensity (I), voltage (U),

Card 2/6

Building Up With Taper Electrodes

S/135/61/000/003/006/0°14 A006/A001

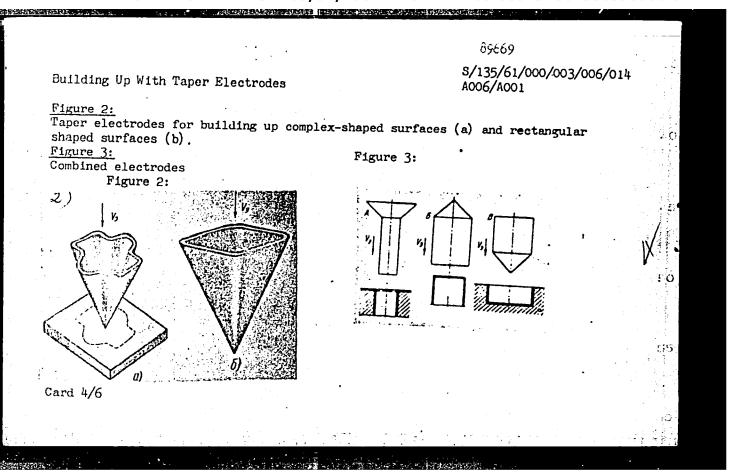
power (W) and penetration depth  $(h_n)$  when welding an experimental 20 mm thick St.3 steel plate with a 65G steel taper electrode of 7 mm wall thickness. The built up shape is a 200 mm diameter circle. The graph shows that the electrode feed must be variable to assure a more or less constant penetration depth. This duces high coefficients of building-up, attaining up to 50 - 60 g/amp · hr. The fing up various alloyed layers of cast iron, non-ferrous metals and their alloys. During building up with taper electrodes a natural motoring effect is observed electrode makes it possible to built in the taper in the figure 1:

electrode makes it possible to build up large areas exceeding its cross section by many times. Simple equipment can be used since only the feed of the electrode is required being its single motion. The author thanks I. I. Frumin, Doctor of Technical Sciences (Institute of Electric Welding imeni Ye. O. Paton) for his assistance as a consultant.

Schematic drawing of the building-up process with a taper electrode. 1 - taper electrode; 2 - slag pool; 3 - flux; 4 - work piece; 5 - support.

Card 3/6

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330006-8"



Building Up With Taper Electrodes

8/135/61/000/003/006/014 A006/A001

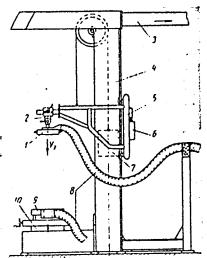


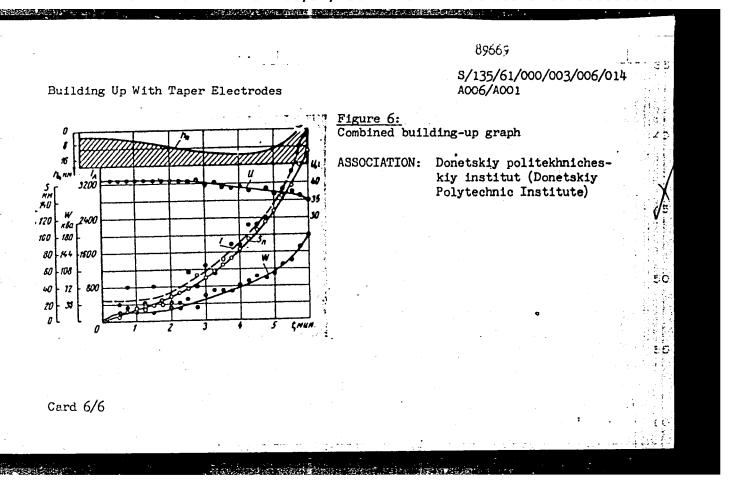
Figure 4:

Machine for building-up with taper electrodes

1 - power connection of electrode; 2 - mechanism of angular correction; 3 - ventilator; 4 - support;

5 - carriage; 6 - reductor with motor; 7 - counterweight; 8 - power supplying cables; 9 - power connection table; 10 - mechanism of linear correction

Card 5/6



#### SHVARTSER, A.Ya.

New method of manufacturing certain types of bimetal tools. Avtom. svar. 14 no.9:82-84 S \*61. (MIRA 14:8)

1. Donetskiy politekhnicheskiy institut.

(Laminated metals) (Electroforming)

SHVARTSER, A.Ya.; SMOLYANITSKIY, Ya.A.

Equipment for the study of internal stresses in castings leing chilled for controlled shrinkage. Izv. vys. ucheb. zav.; chern. met. 5 nc.3:196-201 '62. (MIRA 15:5)

1. Donetskiy politekhnicheskiy institut.
(Founding) (Thermal stresses)

SHVARTSER, A. Ya.; GOLUB, T. Ya.; LUGOVAYA, G. V.

Powder metal lamellar electrodes for electric slag hard facing. Avtom. svar. 15 no.11:71-76 N '62. (MIRA 15:10)

1. Donetskiy politekhnicheskiy institut.

(Hard facing) (Metal powder products)

SHVARTSER, A.Ya., inzh.; SHAPOVALOV, S.I., kand.tekhn.nauk; LUGOVAYA, G.V., inzh.; GLAZUNOV, F.A., inzh.; TKACHENKO, V.A., inzh.; MOZNAIM, G.I., inzh.

Electric slag hard facing of beaters in impact-action crushing machines. Svar. proizv. no.3:22-25 Mr '63. (MIRA 16:3)

- 1. Donetskiy politekhnicheskiy imstitut (for Lugovaya).
- 2. Yasinovatskiy mashinostroitelinyy savod (for Moznaim).
  (Hard facing) (Crushing machines)

SHVARTER, A.YA., inch.

Device for recording the deformations of a specimen. Swar. proize. no.3:12-13 S 164. (VIRA 17.12)

1. Donetskiy politekhmiohaskiy institut.

EWT(m)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b) S/0125/64/000/011/0022/0027 ACCESSION NR: AP4049515 AUTHOR: Shvartser, A. Ya. (Candidate of technical sciences); Morozov, Yu. D. (engineer) TITLE: Electroslag welding process with a free forming of the filler metal SOURCE: Avtomaticheskaya svarka, no. 11, 1964, 22-27 TOPIC TAGS: horizontal weld, electrode slip, tapered electrode, circular heat source ABSTRACT: Horizontal electroslag welding has been considered impossible but may be carried out by various methods. Whatever the method employed, the electrode slip should also occur either in transverse or in longitudinal direction. A tapered electrode makes the surfacing of differently shaped areas possible using a vertical electrode travel only. In approximation the heat source may be assumed to be as linear, circular and with a continuously increasing diameter. Inside such circular heat source a characteristic cooling process takes place. There are no thermal flows in radial direction. The crystallization of the hot metal occurs only from the bottom upward and the process sets in only after energy is Card 1/2

L 32458-65

**ACCESSION NR: AP4049515** 

disconnected. Thus, the filler metal remains liquid until welding is completed. Furthermore, a free spreading of the filler metal along the horizontal surface of the part takes place. The hot metal wets the surface being built up. The authors succeeded in eliminating the defects which characterize imperfect fusion by investigating the laws that govern the spreading of the hot metal in the electric slag welding on a horizontal surface. The free forming of the filler layer and the observation of the rules of feeding electrode metal to the pool secure high-quality 🔏 welds. Care should be taken to provide for transverse wire electrode vibrations to occur along a curve that corresponds to the outline of the freely spreading edge of the layer. When cylindrical electrode is used its edge should follow the shape of the edge of the built-up layer so that the zone in which the drop of the electrode metal occurs, coincides with the edge of that layer. The rate of electrode feeding should always conform to the rate of surfacing. The advantage, of the method is that it assures a fine surfaced layer, while the productivity of the process is high. Orig. art. has: 7 figures and 4 equations.

ASSOCIATION: Donetskiy politekhnicheskiy institut (Donets Polytechnic Institute)

SUBMITTED: 17Mar64

ENCL: 00

SUB CODE: MM

NR REF SOV: 005

OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330006-8"

SHAPOVALCV, S.I., kand. tekhn. nauk; TOLOTAREVSKIY, D.B., inzh.; SHVARTSER, A.Ya., kand. tekhn. nauk

Preventing the separation of the facing layer from the base metal in electric slag hard facing of high-manganese on low-carbon steels. Svar. proizv. no.6:3-5 Je \*65. (HMA 18:8)

1. Donetskiy politekhnicheskiy institut.

<del></del>	
ACC NR: AP6035711 (N) SOURCE CODE: UR/0413/66/000/019/0058/0058	
INVENTOR: Zolotarevskiy, D. B.; Shvartser, A. Ya.	
ORG: none	
TITLE: Interlayer for joining low-carbon steel to high-manganese steel. Class 21, No. 186584	
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 58	
TOPIC TAGS: metal joining, metal welding, high manganese steel welding, discipling steel welding, metal bonding, manganese steel, low conton steel	
ABSTRACT: This Author Certificate introduces an interlayer, containing carbon, manganese, silicon and phosphorus, for facilitating the joining of low-carbon and to	
steel to high-manganese steel. To increase the joint strength of the strength	
SUB CODE: 13/1/SUBM DATE: 09Jul65/	
Card 1/1 UDC: 621.791.042	
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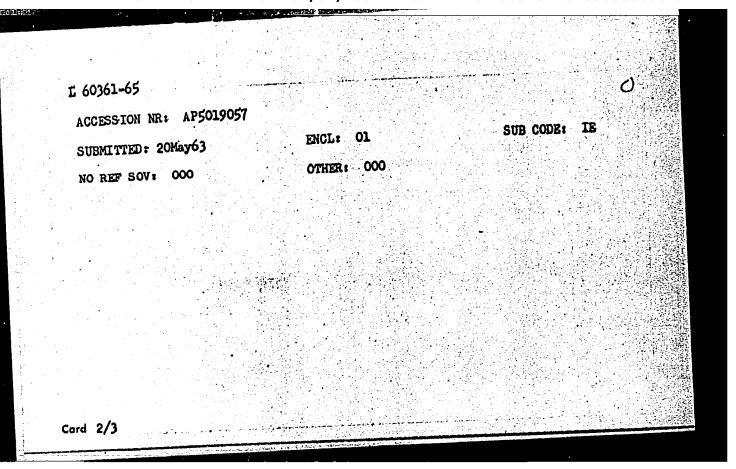
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SHVARTSER, Boris Vol'fovich; DZEVUL'SKIY, V.A., kand. tekhn.
nauk, dots., red.; LAVRENT'YEV, M.V., kand. tekhn. nauk,
dots., red.; MIRONETS, Ye.M., red.

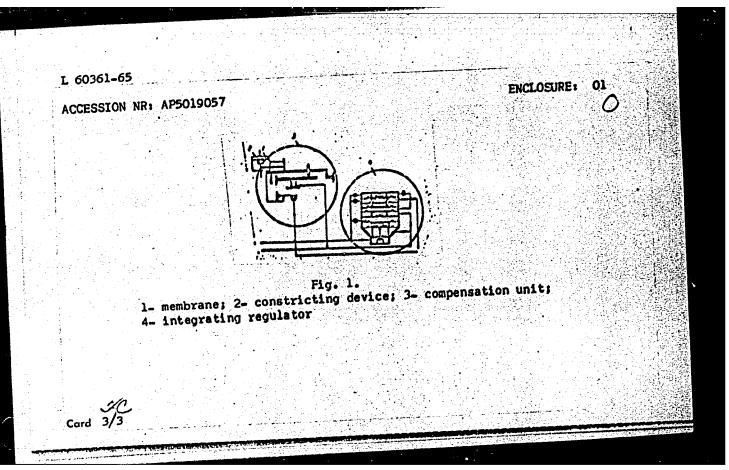
[Collection of problems on the fundamentals of heat engineering and hydraulics] Sbornik zadach po osnovam teplotekhniki i gidravliki. Kiev, Izd-vc Kievskogo univ., 1965. 81 p. (MIRA 18:4)

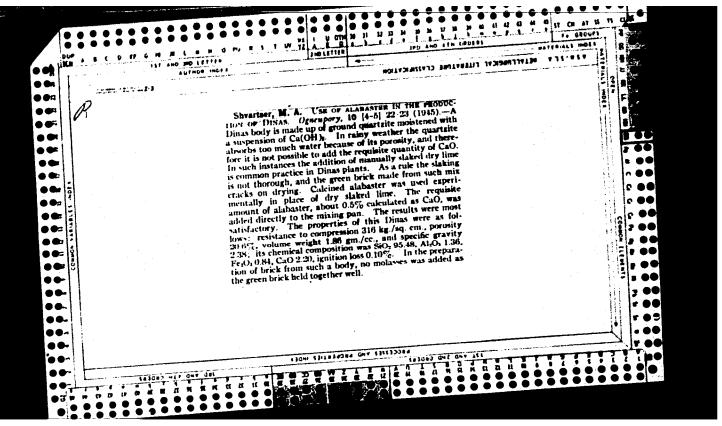
EMA(h)/EMP(k)/EMT(d)/EMT(1)/EMP(h)/ETC(m)/EEC(m)/EMA(d)/EMP(1)/EMP(w) UR/0286/65/000/012/0085/0085 AUTHORS: Podgovetskiy, M. L.; Shvartser, V. I.; Sheynkerman, E. Z.; Shvartser L. I.; Turina, M. A.; Fateyeva, N. V. TITLE: Pneumatic flow meter. 0 Class 42, No. 172074 Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 85 TOPIC TAGS: flow meter, pneumatic device ABSTRACT: This Author Certificate presents a pneumatic flow meter measuring unit and a pneumatic transducer. To increase the accuracy of measurement, the sensitive unit of the measuring unit is in the form of a membrane. The membrane is provided with a constricting device, e.g., a throttle, which is kinematically coupled by a system of levers to a compensation unit (see Fig. 1 on the Enclosure). To eliminate natural vibrations and to obtain zero compensation, an integrating regulator is included in the feedback channel. Orig. art. has: 1 ASSOCIATION: Konstruktorskoye byuro "Tsvetmetavtomatika" pri gosudarstvennom komitete tyazhelogo energeticheskogo transportnogo mashinostroyeniya pri gosplane, SSSR (Construction Bureau "Automatic Equipment for Nonferrous Metals" for the State Committee of Heavy Power Transport Machine Construction for Gosplan,

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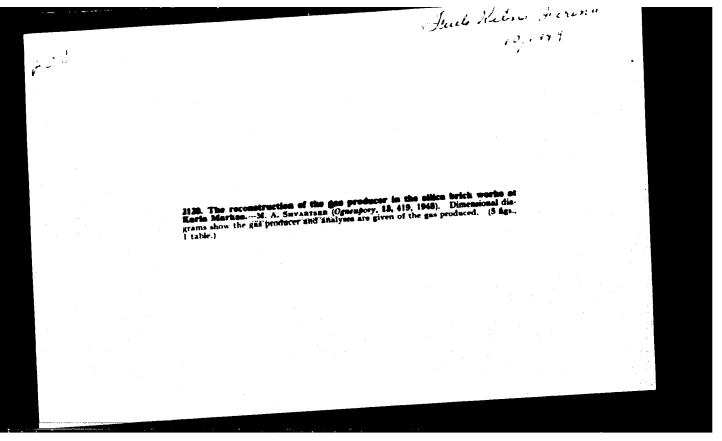


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Dec 52

SHVARTSER, M. A.

USSR/Engineering - Refractories, Kilns

"On the Layout of Automatic Temperature Regulation in a Tunnel Kiln for Burning Chrome-

Magnesite Products," M. A. Shvartser, V. I. Ivanovskiy, Engrs

Ogneupory, No 12, pp 534-540

Discusses automatic temp control system installed on exptl basis for one of tunnel kilms at Karl Marx Plant in 1951. Though facilitating operation of kilm and decreasing fuel consumption, system, according to authors, has number of defects which are analyzed, suggestions are given for eliminating them in future designs.

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330006-8" THE RESERVE THE PROPERTY OF TH

s/131/60/000/06/02/012 B015/B007

AUTHORS:

Antonov, G. I., Minkovich, B. D., Shvartser, M. A., Shakhov, G. S., Semenov, I. N., Khiliko, M. M., Molchanova, M. I.

TITLE:

Production and Practical Testing of Burned and Unburned

Small-size Forsterite Bricks 19

PERIODICAL:

Ogneupory, 1960, No. 6, pp. 244-251

TEXT: A. S. Frenkel', Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (Ukrainian Scientific Research Institute of Fireproof Materials) recommended measures for the purpose of increasing the production of refractory regenerator forsterite bricks as well as for the simultaneous reduction of their actual costs. This may be brought about by using unburned small-size bricks. For the purpose of checking these measures, the Panteleymonovskiy ogneupornyy zavod (Panteleymonovka Works of Fireproof Materials) together with the Ukrainian Scientific Research Institute of Fireproof Materials in 1957 produced industrial batches of burned and unburned small-size forsterite bricks. S. B. Vinokur, N. S. Mitrokhina, and B. A.

Card 1/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330006-8" 是这种种种的,我们就是这种的,我们就是这种的。

Production and Practical Testing of Burned S/131/60/000/06/02/012 and Unburned Small-size Forsterite Bricks B015/B007

Faynerman (Footnote p. 245) took part in this work. The chemical composition of the ground powders may be seen from Table 1, the characteristics of the pastes and blanks from Table 2, and the properties of the burned and unburned products from Table 3. The burned small-size forsterite bricks corresponded to YMTV 5127-55 (ChMTU 5127-55) and were not inferior to bricks of normal size. Fig. 1 shows the checkerwork of a regenerator made from small-size bricks. Experiments with these bricks were carried out at the zavod im. Kirova (Works imeni Kirov). The characteristics and mine-ralogical composition of the burned small-size forsterite bricks after their use are given in Tables 4 and 5. Table 6 shows the results of a furnace campaign, and Fig. 2 the temperature course of the regenerator. Figs. 3 and 4 show unburned forsterite bricks after being used, and Table 6 and Fig. 5 show the operational conditions of furnaces. Tables 7 and 8 give the characteristics and the mineralogical composition of unburned small-size forsterite bricks after use. Petrographical investigations were carried out by L. I. Karyakin (Ref. 2). By way of a summary, the authors declare that burned small-size bricks are in no way inferior to standardsize bricks. By the use of 50-60% of unburned bricks in furnace construction, the production of refractory forsterite bricks for generators may

Card 2/3

Production and Practical Testing of Burned 5/131/60/000/06/02/012 and Unburned Small-size Forsterite Bricks B015/B007

be increased and their actual costs may be reduced by roughly 25%. There are 5 figures, and 8 tables.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (Ukrainian Scientific Research Institute of Fireproof Materials) Antonov, G. I., Minkovich, B. D.; Panteleymonovskiy ogneupornyy zavod im. K. Marksa (Panteleymonovka Works of Fireproof Materials imeni K. Marx) Shvartser, M. A., Shakhov, G. S., Semenov, I. N.; Makeyevskiy metallurgicheskiy zavod im. Kirova (Makeyevka

Metallurgical Plant imeni Kirov) Khil'ko, M. M., Molchanova, M. I.

Card 3/3

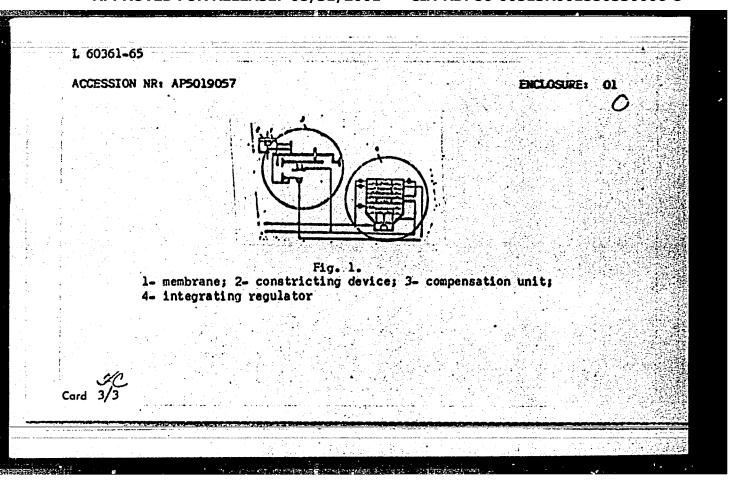
APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001550330006-8"

ARKAD'YEV, A.G.; MAR'YANOVSKIY, Ya.M.; PODGOYETSKIY, M.L.; SHVARTSER, V.I.; SHNEYEROV, M.S.

Air-jet reaction feedback in pneumatic converters with power compensation. Priborostreenie no.2:5-7 F '61. (MIRA 14:2) (Pneumatic control)

EWA(h)/EWP(k)/EWT(d)/EWT(1)/EWP(h)/ETC(m)/EEC(m)/EWA(d)/EWP(1)/EWP(v) Pf-4/P1-4/Po-4/Pg-1/Ps-4/Peb ACCESSION NR: AP5019057 UR/0286/65/000/012/0085/0085 681.121 AUTHORS: Podgoyetskiy, M. L.; Shvartser, V. I.; Sheynkerman, E. Z.; Shvartser L. I.; Turina, M. A.; Fateyeva, N. V. TITLE: Pneumatic flow meter. O Class 42, No. 172074 Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 85 SOURCE: TOPIC TAGS: flow meter, pneumatic device ABSTRACT: This Author Certificate presents a pneumatic flow meter measuring unit and a pneumatic transducer. To increase the accuracy of measurecontaining a ment, the sensitive unit of the measuring unit is in the form of a membrane. The membrane is provided with a constricting device, e.g., a throttle, which is kinematically coupled by a system of levers to a compensation unit (see Fig. 1 on the Enclosure). To eliminate natural vibrations and to obtain zero compensation, an integrating regulator is included in the feedback channel. Orig. art. has: 1 diagram. ASSOCIATION: Konstruktorskoye byuro "Tsvetmetavtomatika" pri gosudarstvennom komitete tyazhelogo energeticheskogo transportnogo mashinostroyeniya pri gosplane, SSSR (Construction Bureau "Automatic Equipment for Nonferrous Metals" for the State Committee of Heavy Power Transport Machine Construction for Gosplan, SSSR Card 1/3

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	ACCESSION NR: AP5019057		Ó	
	SUBMITTED: 20May63	ENCL: 01	SUB CODE: IE	
	NO REF SOV: OOO	OTHER: 000		
Ca	rd 2/3			



SHVARTSEV, S.L.

Underground waters in the Yenisey Valley of the Siberian Platform. Mat. Kom. po izuch. podzem. vod. Sib. i Dal' Vost. no.2: 90-100 62. (MIRA 17:8)

UDODOV, P.A.; RASSKAZOV, N.M.; SHVARTSEV, S.L.

Plan of the regionalization of Siberia for pourposes of hydrogeological prospecting for ore deposition. Geol. 1 geofiz. no.11:95-97 '62.

(MIRA 16:3)

1. Tomskiy politekhnicheskiy institut i Sibirskiy nauchno-isslativatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya.

(Siberia--Geochemical prospecting) (Siberia--Ore deposits)

SHVARTSEV, S.L.

Some results of hydrochemical studies under permafrost confittions. Geol. rud. mestorozh. 5 no.2:100-110 Mr-Ap 163.

(MIRA 16:6)

KONTOROVICH, A.E.; SADIKOV, M.A.; SHVARTSEV, S.L.

Distribution of some chemical elements in surface and subsoil waters of the northwestern part of the Siberian Platform.

Dokl.AN SSSR 149 no.1:179-180 Mr \*63. (MIRA 16:2)

1. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya. Predstavleno akademikom N.M.Strakhovym.

(Siberian Platform—Chemicals)
(Siberian Platform—Water—Analysis)

UDODOV, P.A.; ROGOV, G.M.; RASSKAZOV, N.M.; SHVARTSEV, S.L.; LUKIN, A.A.

Concerning E.E. Beliakova's article "Principles and methods of compiling prognostic hydrochemical maps of ore deposits."

Sov. geol. 6 no.10:154-157 0 '63. (MIRA 17:1)

1. Tomskiy politekhnicheskiy institut i Sibirskiy nauchno-issledo-vatel'skiy institut geologii, geofiziki i mineral'nogo syr'ya.

redicagondmentical producesting method in the northern swamped regions. Geot. i geofic. 12.713-10 165. (MIRA 1819)

. Big-littychokaya enkpeditsiya Sibirskogo nauchno-issledovatel'skogo instituta geologii, geofiziki i mineral'nogo syr'ya, Tomsk.

OLEYNIKOV, B.V.; SHVARTSEV, S.L.; MANDRIKOVA, N.T.; OLEYNIKOVA, N.N.

Nickel hexahydrite, a new mineral. Zap.Vses.min.ob-va 94

no.5 534 -547 '65.

1. Sibirskiy nauchno-issledovatel skiy institut geologii,
geofiziki i mineral nogo syr'ya, Novosibirsk.

S/118/60/000/011/004/014 A161/A133

AUTHORS:

Tikhanovskaya, G.Ya., and Shvartsgorn, M.A., Engineers

TITLE:

Automatic removal of defective metal in cutting machines

PERIODICAL:

Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 11, 1960,

11-15

TEXT: Detailed information is given on the design and operation of a new reject-eliminating sorting system installed at drum shears in the sheet rolling shop of the Magnitogorskiy metallurgicheskiy kombinat, or MMK (Magnitogorsk Metallurgical Combine). The system has been developed by the (Magnitogorsk Metallurgical Combine). The system has been developed by the Tsentral naya zavodskaya laboratoriya avtomatizatsii proizvodstva (Central Plant Laboratory for Automation of Production) of the MMK. At the time plant Laboratory for Automation of Production) of the MMK. At the time being, 25.6% of the labor in the MMK rolling shops are occupied with sorting being, straightening, cutting and packaging of metal. The system (Fig.1) marking, straightening, cutting and packaging of metal. The system (Fig.1) pierced holes, rolled-in crumbs, etc., and a radioactive MTY -495 (ITU-495) pierced holes, rolled-in crumbs, etc., and a radioactive MTY -495 (ITU-495) micrometer detecting thickness variations. Signals caused by a hole or off-standard thickness are amplified and fed to the communicator unit pro-

Card 1/6

Automatic removal of defective metal ...

5/118/60/000/011/004/014 A161/A133

ducing a command signal to the automatic control system of the first conveyer section after the shears. The conveyer section goes down, and the rejected sheet goes into the reject pocket. The radioactive micrometer uses a strontium isotope with 20 years half-life and performs continuous noncontact measurement in 0.03-0.7 mm sheets. As it does not signal deviations from gage beyond the tolerance limits, it has been fitted with an electronic attachment for setting thickness tolerances. The photoelectric NPP-455 defectoscope is separately illustrated in a block diagram (Fig.2). The electronic "thickness setter" (Fig.3) has two analogous channels. Its measuring system is a double bridge including the free rheochord of the indicating micrometer instrument ( $R_{npub}$ ), two wire-wound alternating resistors ( $R_{max}$ and  $R_{\min}$ ) and additional resistors  $R_1$ ,  $R_2$ ,  $R_3$  and  $R_4$ ; the maximum and minimum tolerance are set with sliders. The automatic reject eliminating system exists in two modifications: the simple first one, including electromagnetic relays with constant time delay for lowering and lifting the first conveyer section, and used on two shears in the shop, and a more complex one on a third shears. The simpler system dependably detects and catches defective

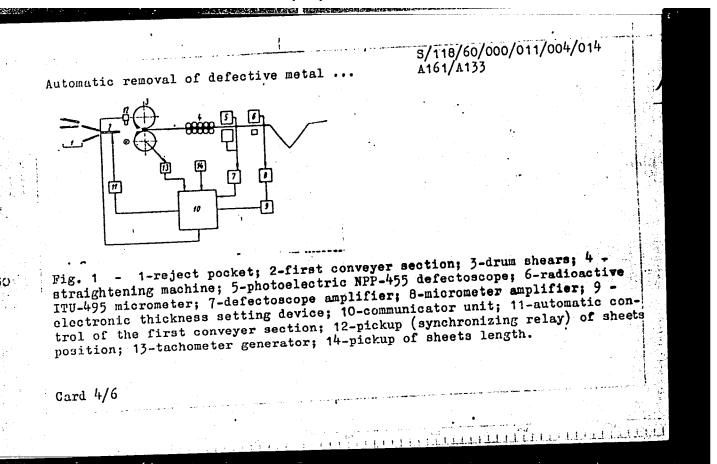
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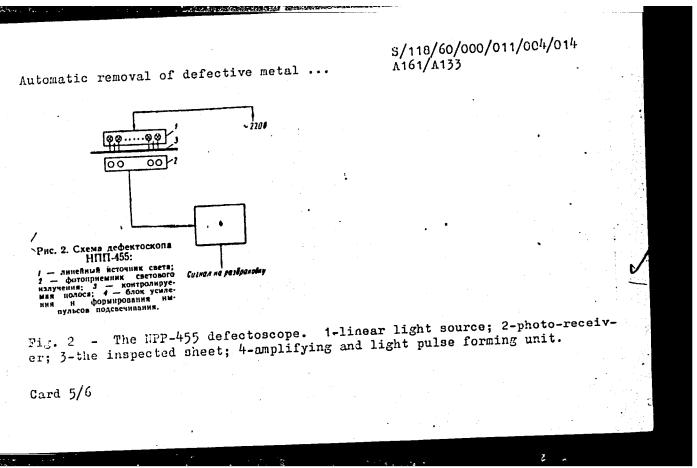
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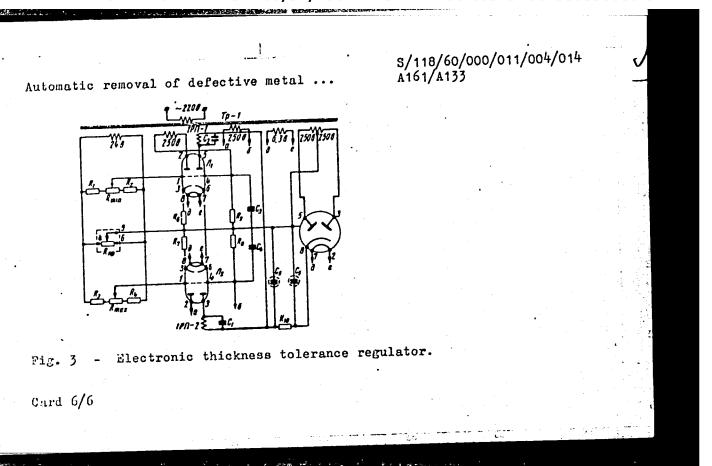
Automatic removal of defective metal ...

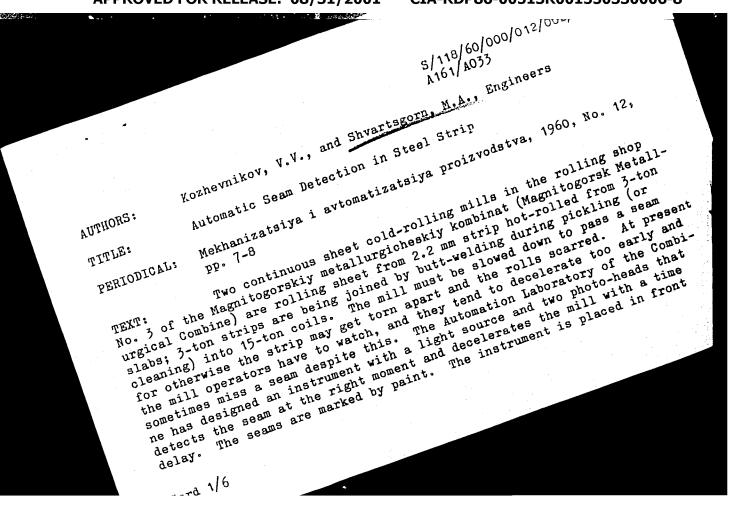
sheets but does not reliably single them out, and several good sheets (4-5) go together with the spoiled ones into the reject pocket. Besides, the lowering or sinking of the conveyer section can start at any moment regardless of the position of the sheets on the conveyer, and good sheets may be jammed and spoiled. The more complex system is free of these faults. It includes a block of electronic relays (53P), an automatic panel, a program switch for the sheet length, and a photo-headch 1 (placed directly behind the flying shears). The article includes a detailed description of the functions of every element in the system. The automatic sorting has replaced 70 men, raised the average work productivity in the shop by 4.5%. There are 7 figures.

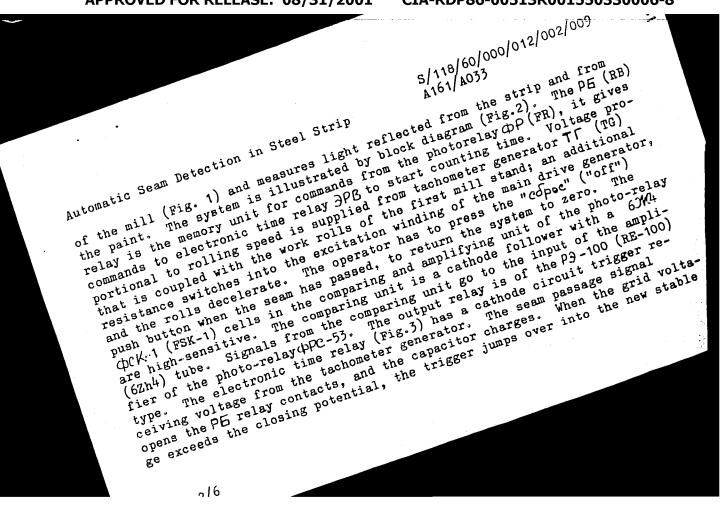
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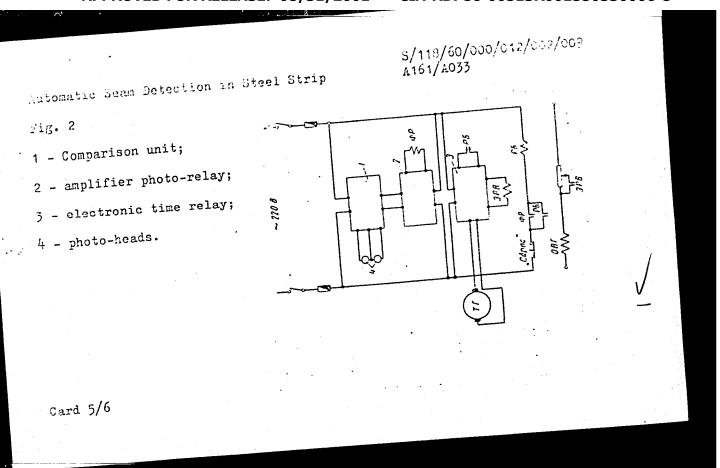


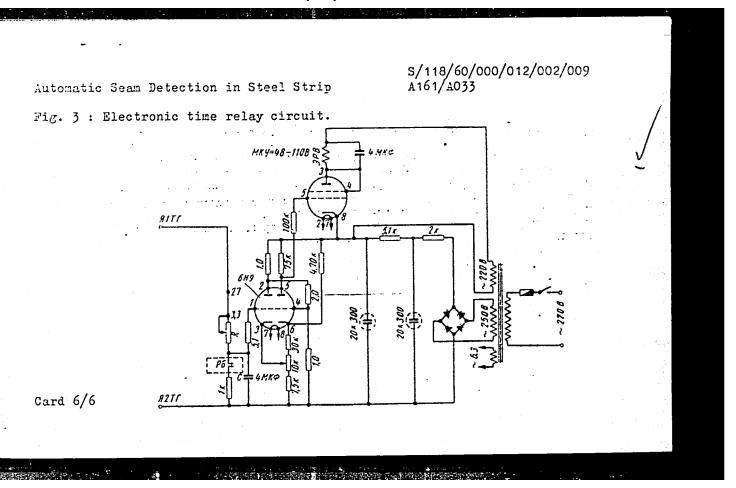
S/118/60/000/012/002/009 A161/A033

Automatic Seam Detection in Steel Strip

state. The capacitor-charging time determines the relay operation time, and the charging time depends on the tachometer generator voltage that is proportional to the work rolls velocity. The Ph contact closes after the passing of a seam, and negative voltage goes to the tube grid, and the trigger returns into stable state. There are 3 figures.

Card 3/6





TIKOTSKIY, A.Ye., inzh.; SHVARTSGORN, M.A., inzh.

Command-transfer length meter for the control of flying shears.

Mekh. i avtom.proizv. 15 no.12:31-33 D '61.

(Shear (Mechanics))

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Warrand, R. S. and Shyartskopf, M. E. "Zine-coating of commer whres and copper caute in a sodier absente solution livestiya Kin-vek, politekin, in-ta, Vol VIII, 1917 (on cover: 1769), S. 157-58

SO: U-52nl, Ty becomer 1763, (leto is 'Zharnal 'nyan Statey, no. 20, 19n7)
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SHYAKTSKRONY 3 MI.

FISHER, P.N.; KEYL', I.A.; VOROB'YEVA, G.I.; SHVARSKROYN, B.M.; ALYAMOVSKAYA, T.S.; ZYBIN, S.Ye.; DRUZHININA, A.T.; SHILOV, Yu.P.

Growing yeast on hydrolysates from coniferous wood. Gidroliz. i lesokhim. prom. 16 no.5:7-12 '63. (MIRA 17:2)

1. Moskovskoye otdeleniye Gosudarstvennogo nauchno-issledovatel'skogo instituta gidroliznoy i sul'fitno-spirtovoy promyshlennosti (for Fisher, Keyl', Vorob'yeva, Shvartskroyh, Alyamovskaya). 2. Ivdel'skiy gidroliznyy zavod (for Zybin, Druzhinina, Shilov).

GROMOVOY, E., kand. tekhn. nauk, ispolnyayushchiy obyazannosti dotsenta; SHVARTSMAN, A., kand. fiz.-matem.nauk, dotsent

Planning the storage of cargo with a view to maximum profits. Mor. flot 25 no.7:13-15 Jl '65. (MIRA 18:7)

1. Odesskiy institut inzhenerov morskogo flota.

SZWARCMAN, A.A. [Shvartsman, A.A.]

Development of electric traction as underground transportation in U.S.S.R. mines. Pt. 2. Wiadom gorn 11 no. 1/2:3-7 Ja-F '60.

AUTHOR:

Shvartsman, A.A., Engineer

SOV-127-58-3-14/24

TITLE:

New Electric Locomotives for Underground Mining (Novyye

elektrovozy dlya podzemnykh gornykh rabot)

PERIODICAL:

Gornyy zhurnal, 1958, Nr 3, pp 63-69 (USSR)

ABCTRACT:

As a result of a collaboration of Aleksandrovskiy i Toretskiy mashinostroitel'nyye zavody (The Aleksandrovskiy and Toretskiy Mashine Building Flants) with Moskovskiy zavod "Dinamo" (The Moscow Plant "Dynamo") and Khar'kovskiy elektrotyagovyy zavod KhETZ (The Kharkov Electric Locomotive Plant KhETZ) new models of electric locomotives for underground mining works were manufactured. A serial production of contact wire locomotive 7KR-1, 10 KR-1 and 14 KR-1 started in 1957. These types are the improved models of the earlier 7KR, 1CkR, 14KR and 14 KRM. By 1958, production of series KR-2 will be taken up. It has the same traction characteristics but has a spring frame suspension and a pneumatic system. The locomotives of the KR-1 series have a traction coefficient of 0.23. The 7KR-1 and 10KR-1 locomotives are driven by two EDR-25 motors, total power 50 kw/h. The Aleksandrovskiy Plant also manufactures the battery operated 12 t locomotive 12 ARP-1,

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also equipped with two NDR-25 motors. The same plant pre-

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pares for production especially powerful contact wire electric locomotives 20kR-1 and coupled battery operated 24 t locomotives 24ARP+1. A description of all of these types is given. The author complains of considerable delay in the production by the KhETT of the motors EDR-25 which delayed the production of KR-1 locomotives by two years. The "Dynamo" also delayed the production of the 14 KR-1 locomotives. As a result of the belated production of ordered motors, the first locomotives produced of the 12ARP-1 type were equipped with the EDR-15 motors instead of EDR-25. As a consequence, the traction power of these locomotives was reduced. production of powerful 20 t locometives was also considerably delayed. The author finds that the intervention of competent authorities is necessary to improve coordination between machine building and electrical industries. There are 4 figures, 3 tables and 2 diagrams.

ASSOCIATION: Permskiy gornyy institut (The Perm Lining Institute)

- 1. Locomotives-Design
- 2. Locomotives-Production
- 3. Electric motors-Performance
- 4. Mining equipment

Card 2/2

AUTHOR:

Shvartsman, A.A., Engineer

SOV-118-58-9-18/19

TITLE:

Bibliography - Mining Transportation Abroad (Bibliografiya -

Rudnichnyy transport za rubezhom)

PERIODICAL:

Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958,

Nr 9, pp 45-46 (USSR)

ABSTRACT:

A joint team, headed by A.O. Spivakovskiy, Corresponding Member of the USSR Academy of Sciences, has composed a book on mining transportation abroad. The following authors are participants: N.D. Samoylyuk, O.V. Mukhin, G.I. Solod, I.F. Goncharevich, A.Ye. Smoldyrev, V.G. Shorin, B.G. Gorbachev, L.G. Medvedev, and A.V. Yevnevich. The book is recommended

for use.

1. Transportation 2. Mines--Transportation

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