

KOVSHIKOV, F. I., kand. med. nauk

History of the terminology of shock and the classical description
of its clinical stages. Vest. khir. no.12:93-99 '61.
(MIRA 15:2)

1. Iz laboratorii eksperimental'noy patologii (nauchn. rukovod. -
prof. I. R. Petrov) Leningradskogo instituta perekrivaniya krovi.

(SHOCK)

KOVSHIKOV, K.

How we conduct centralized payments. Fin. SSSR 22 no.3:75-80
Mr '61. (MIRA 14:7)

(Gukovo---Clearinghouse)
Grkovo---Construction industry---Finance)

S/129/61/000/004/001/012
E073/E535

AUTHORS: Tavadze, F. N., Corresponding Member of the AS,
Georgian SSR, Kovshikov, Ye. K., Engineer

TITLE: Automatic Signalling of the Beginning of Martensitic
Transformation

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov,
1961, No.4, pp.2-5

TEXT: The authors developed an instrument for automatic signalling of the beginning of martensitic transformation during quenching of components. The device consists of two equal coils (Fig.2), the primary windings 1 and 2 of which are series connected to an a.c. supply. The secondary windings 3 and 4 are series connected to a galvanometer via selenium rectifiers 6 and 7. The ends of the secondary windings are connected in such a way that the induced currents should be opposite to each other and if the coils do not contain ferromagnetic masses, the galvanometer will produce no deflection. One of the coils is mounted in the quenching water tank. If a ferromagnetic component is placed into it, the current intensity induced in the secondary winding changes and the difference in the current intensities produces a

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EO73/E535

Automatic Signalling of the

deflection of the galvanometer reading. Depending on the mass of the component, the sensitivity can be varied by varying the current intensity in the primary windings by means of the autotransformer 5. The stand on which the apparatus is mounted is made of plastic. The bodies of the coils, 650 mm high and 500 mm diameter, are made of vinyl. The windings of the coils, which are in the water tank, are enclosed in a hermetic vinyl jacket and embedded in paraffin. The primary windings consist of 600 turns of 0.74 mm diameter wire. The secondary windings consist of 3000 turns of 0.5 mm thick wire. The zero position of the galvanometer is established by means of the rheostats R_1 and R_2 . The component to be quenched is held by tongs of nonmagnetic steel and submerged into the water inside the coil. As soon as the temperature of the beginning of martensite transformation is reached, i.e. as soon as the first sections of the ferromagnetic phase appear, the pointer of the galvanometer is deflected and a light and sound signal is switched on, which indicates to the operator the exact time when the component should be thrown into oil. The signalling equipment can signal not only the beginning but also an intermediate position and the end of the martensitic transformation. The advantage of the apparatus

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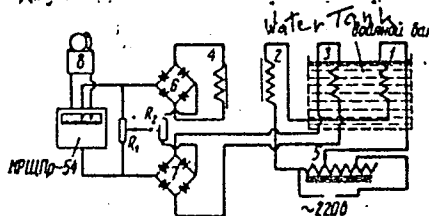
Automatic Signall of the

is that the percentage of rejects due to hardening cracks is sharply reduced and a uniform hardness of the component is ensured and also that semi-skilled operators can be employed. The automatic signalling equipment can also be fitted into an oil bath for determining the time when forging dies should be taken out of the oil for tempering. Thereby, it is possible to prevent cracks forming as a result of holding the dies too long in the cooling oil. Furthermore, the apparatus can be used in mass production of components of the same type made of high carbon steel. There are 2 figures and 3 references: all Soviet.

ASSOCIATION: Institut metallurgii AN Gruzinskoy SSR
(Institute of Metallurgy, AS, Georgian SSR)

Fig.2

Vodyanoy bak - water tank
220 б - 220 V



Фиг. 2. Схема автоматического сигнализатора.

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KOVSHIKOV, Ye. K., inzh.

Hardenability of steel in isothermal quenching. Metalloved. i
term. obr. met. no.6:5-7 Je '61. (MIRA 14:6)

1. Institut metallurgii AN Gruzinskoy SSR.
(Steel--Quenching)

KOVSHIKOV, Ye.K., inzh.

KLD-2 automatic machine for the control of the hardness of bolts.
Metalloved. i term. obr. met. no.9:51-56 S '61. (MIRA 14:9)
(Hardness-Testing) (Testing machines)

S/129/62/000/004/010/010
E193/E383

AUTHORS: Tavadze, F.N., Academician of AS Georgian SSR
and Kovshikov, E.K., Engineer

TITLE: Conference on metallography and heat-treatment

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov,
no. 4, 1962, 61 - 62

TEXT: A conference devoted to new developments in
metallography and heat-treatment of metals was convened in
Tbilisi from December 7 - 10, 1961, by the governing bodies of
administrative, technical and scientific organisations. ✓
The following 25 papers were delivered:
"High-temperature strength of chromium-manganese austenite
with various alloying elements as a function of the nitrogen
content" by Academician of the AS Georgian SSR F.N. Tavadze
(Tbilisi);
"New methods of producing high-strength steels" by Doctor of
Technical Sciences Professor S.M. Baranov;
"Alloying of steels with nitrogen and some data on the physico-
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Conference on

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chemical and technological properties of nitrogen-bearing alloys" by Candidate of Technical Sciences V.M. Berezhiani;
"Technology of fabrication of high nitrogen-content manganese alloys" by Engineer I.B. Baratashvili (Tbilisi);
"Search for nickel-free constructional steels [suitable for fabrication] for large parts" by Doctor of Technical Sciences Professor M.P. Braun (Kiyev);
"Modified heat-resistant steel" by Engineer V.V. Vinokur (Kiyev);
"Factors determining high mechanical strength of the 3M437 (EI437) alloy" by Candidate of Technical Sciences V.G. Chernyy (Kiyev);
"The specific features of the effect of rare-earth metals on the structure and properties of industrial constructional steels" by Candidate of Technical Sciences Ya.Ye. Gol'dshteyn;
"Distribution of silicon in various phases during solidification of steels and cast irons" by Engineer F.K. Tkachenko (Zhdanov);
"Thermomechanical treatment of alloys" and "New trends in studies of structure and properties of metals and alloys" by hot-stage metallographic methods" by Doctor of Technical Sciences M.G. Lozinskiy (Moscow);
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Conference on

"The role of structure of metals in diffusion processes" by
Doctor of Technical Sciences Professor S.Z. Bokshteyn (Moscow);
"The role of the structural factor in attaining high strength
in heat-resistant alloys" by Candidate of Technical Sciences
Ye.Ye. Levin (Leningrad);
"Study of various methods used to prevent cracking during
quenching of large parts made of constructional steels" by
Engineer L.S. Levin (Moscow);
"Operational experience relating to heat-treatment of rolled
products at the Chelyabinsk Plant" by Engineer A.I. Komissarov
(Chelyabinsk);
"The criterion of reversible temper brittleness and the size
factor" by Engineer O.S. Kostyrko (Kiyev);
"Reversible temper brittleness in cast steels of the chromium-
manganese group" by Engineer G.N. Krukovskoy (Kiyev);
"The effect of some factors on susceptibility of steels to
temper brittleness" by L.G. Sakvarelidze (Tbilisi);
"New technology of heat-treatment in a complex automated line
in the production of motor-car suspension springs" by Engineer
O.I. Yudina;
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S/129/62/000/004/010/010
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Conference on

"A new method of determining hardenability of steel during isothermal quenching (austempering)" by Engineer Ye.K.Kovshikov;
"Nitriding of tractor gears" by Candidate of Technical Sciences S.G. Lantofel' (Omsk);
"On the problem of utilization of high-strength steels" by Engineer V.S. Sysoyeva;
"Graphitization of steels" by Candidate of Technical Sciences P.Ya. Gruzlov (Moscow);
"Incorporation of nitriding for case-hardening of motor-car components in closed-cycle automated aggregates" by V.F. Nikonov;
"Heat-treatment of tools in water-vapour atmosphere" by Engineer G.G. Korolev (Moscow);

Card 4/4

~~KOVSHIKOV, Yevgeniy Konstantinovich, inzh.; SUKAZOV, E.A., inzh., red.;~~
~~SHILLING, V.A., red. izd-vb; GVICAb, V.L., tekhn. red.~~

[Device for signalling the time of holding parts in
quenching media during intermittent hardening]Signalizator
prodlzhitel'nosti vyderzhki detalei v okhlazhdaiushchikh
sredakh pri preryvистой zakalke. Leningrad, 1962. 10 p.
(Leningradskii dom nauchno-tekhnicheskoi propagandy. Ob-
men peredovym opytom. Seriya: Metallovedenie i termiche-
skaia obrabotka, no.6) (MIRA 15:9)
(Steel--Quenching)

TAVADZE, F.N., akademik; KOVSHIKOV, Ye.K., inzh.

Conference on metals and their heat treatment. Metalloved.1
term.obr.met. no.4:61-62 Ap '62. (MIRA 1584)

1. Gruzinskaya SSSR (for Tavadze).
(Physical metallurgy--Congresses)

L 19304-63 EWP(q)/EWT(m)/BDS ASD/AFFIC JD
ACCESSION NR: AR3006905 S/0137/63/000/007/I020/I020

SOURCE: RZh. Metallurgiya, Abs. 71129 ~~KB~~

AUTHOR: Tavadze, F. N.; Kovshikov, Ye. K.

TITLE: Mechanism and structural forms of the intermediate conversions of the austenite of stamping steels

CITED SOURCE: Tr. Gruz. politekhn. in-t, no. 4 (84), 1962, 65-74

TOPIC TAGS: austenite, stamping steel, carbide, 5KhNM, 5KhNV, 5KhNT, hardness, viscosity, tempered steel

TRANSLATION: The mechanism and structural forms of the intermediate conversion of austenite (A) of steels 5KhNM, 5KhNV, and 5KhNT were studied in the temperature range 600-2000 by the method of microscopic analysis, supplemented in a number of cases by a measurement of the hardness and α_k ; the basic attention was paid to the transformations that occur in the lower (375-275C) temperature region of the intermediate conversions. In the lower temperature region of intermediate conversions, the structure represents a mixture of the tempered α -phase, dispersed carbides of the cementite type (Σ -carbides), the untempered

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α -phase, and A. The Σ -carbide is coherently bonded to the initial matrix, a simple orientation bond in this carbide existing only with the lattice of the δ -phase. A mechanism is proposed for the decomposition of A in this temperature region of intermediate conversion. In the upper temperature region of intermediate conversion, the structure consists of alternating plates of ferrite and enriched A, the untempered α -phase, and dispersed carbides. The use of a narrow temperature range (of the order of 500) in the lower temperature region of intermediate conversions (300-3500) is recommended for the production of the best complex of mechanical properties of stamping steels. A. Nefedov.

DATE ACQ: 12Aug63

SUB CODE: ML

ENCL: 00

Card 2/2

ASTAP'YEV, A.A., kand.tekhn.nauk; KOVSHIKOV, Ye.K., inzh.; TAVADZE,
F.N., akademik

Rapid heating of forging dies for hardening. Metalloved. 1 term.
obr. met. no.10:41-44 0 '62. (MIRA 15:10)

1. AN Gruzinskoy SSR (for Tavadze).
(Tool steel—Hardening)

TAVADZE, F.N.; KOVSHIKOV, Ye.K.

Heat treatment of forging dies. Metalloved. i term. obr. met.
no.7:41-42 JI '63. (MIRA 16:7)

(Dies (Metalworking)) (Steel---Hardening)

ACC NR: AP6035506 (N) SOURCE CODE: UR/0135/66/000/011/0041/0042

AUTHOR: Kovshikov, Ye. K. (Candidate of technical sciences); Kimina, T. P. (Engineer)

ORG: Tbilisi Branch of VNIIESO (Tbiliskiy filial VNIIESO)

TITLE: Welding an AT3 titanium-alloy experimental vacuum chamber

SOURCE: Svarochnoye proizvodstvo, no. 11, 1966, 41-42

TOPIC TAGS: titanium alloy, vacuum chamber, argon shielded arc welding, submerged arc welding, chemical synthesis, arc welding, corrosion resistance, weld evaluation / AT3 titanium alloy

ABSTRACT: An experimental vacuum chamber for tartaric acid synthesis has been fabricated from rolled AT3 titanium-alloy plates 6 mm thick and a forging with a cross section of 22 x 25 mm. The height of the chamber is 2100 mm, inside diameter is 1160 mm, and the thickness of the walls and end closures is 6 mm. Manual, argon-shielded arc welding was done with a tungsten electrode 3 mm in diameter and Sv-AT3 filler wire. Submerged arc welding was performed with an AMT-7 flux. The strength of welds was 91--96% of that of the base metal. Metal of welds and weld-adjacent zone had a martensite-like structure of a'-phase. Welded specimens tested for 400 hr under operating conditions had sufficient

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UDC: 621.791.754:546.29:669.295.5

ACC NR: AP6035506

corrosion resistance. Hydraulic tests at 6 kg/cm² for 15 min did not reveal any indications of leaking. The chamber is being tested under operational conditions at the Tbilisi combine of Samtrest. Orig. art. has 2 figures.

SUB CODE: 11, 13/ SUBM DATE: none

Card 2/2

ACC NR: AP6035506 (N) SOURCE CODE: UR/0135/66/000/011/0041/0042

AUTHOR: Kovshikov, Ye. K. (Candidate of technical sciences); Kimina, T. P. (Engineer)

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Card 1/2

UDC: 621.791.754:546.29:669.295.5

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SUB CODE: 11, 13/ SUBM DATE: none

Card 2/2

MAXIMOV, V.I.,dots.; VOSKOBOYNIKOV, V.M.,dots.; KOVSHIKOVA, L.P.,assistant

Conduction anesthesia in diagnosing infectious balanitis in
bulls. Veterinariia 36 no.1:64-66 Ja '59. (MIRA 12:1)

1. Vitebskiy veterinarnyy institut.
(Vaginitis in cattle) (Novocaine)

FEDOROVSKIY, Yu.N.; KOVSHILLO, A.I.

Qualitative analysis of rhacencephalograms in some vascular diseases of the brain. Trudy 1-go MMI 34:582-592 '64.

(MIRA 18:11)

1. Kafedra psikhologii (zav. - zasluzhannyi deyatel' nauki prof. V.M. Banskhoikov) 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

KOVSHILO, A.I.; TRET'YAKOVA, L.Z.

Analysis of the electric reactions of the brain to rhythmic light stimulation in cerebral vasopathy and sclerosis of the cerebral vessels. Trudy 1-go MMI 34:563-568 '64.

(MIRA 18:11)

1. Kafedra psikhatrii (zav. - zasluzhenny deyatel' nauki prof. V.M. Banshchikov) 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

KOVSHILO, V.Ye. (Leningrad)

Some data for a hygienic evaluation of labor conditions in a caisson in the mechanized cutting of subway tunnels. Gig. truda i prof.zab. 3 no.4:8-11 J1-Ag '59. (MIRA 12:11)

1. Sanitarno-gigiyenicheskiy meditsinskiy institut, Kafedra gigiyeny truda s klinikoy professional'nykh zabolevaniy.
(LENINGRAD--SUBWAYS)
(CAISSONS--HYGIENIC ASPECTS)

KOVSHILOVA, A. I.

Kovshilova, A. I. "The paraffin treatment of trepanated wounds of the mamillary appendages and of firearm wound diseases of the LCR organs", Sbornik trudov Leningr. nauch.-issled, in-ta po boleznyam ukha, nosa, gorla i rtschi, Vol.IX, 1948, p. 186-98.

SO: U - 3042, 11 March 53, (Letopis "Zhurnal "nykh Statay, No. 7, 1949)

KOVSHILOVA, A. I.

Kovshilova, A. I. "On treating Leffler's bacillophoric bacillus with ultraviolet rays", Sbornik trudov Leningrad nauch.-issled. in-ta po boleznyam ukha, nosa, gorla i rechi, Vol. IX, 1948, p. 199-205.

SO: U - 3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 7, 1949).

KOVSHOV, A. A.

USSR / Microbiology. Anaerobic Bacilli.

F-6

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72205.

Author : Lukin, Yu. B.; Kovshov, A. A.

Inst : Ufa Scientific-Research Institute of Vaccines
and Sera.

Title : Comparative Evaluation of Some Methods of Intro-
duction of Tetanus Antigens in the Production of
Antitetanus Serum.

Orig Pub: Tr. Ufimsk. n.-i. in-ta vaktsin i syvorotok, 1957,
vyp. 4, 191-195.

Abstract: No abstract.

Card 1/1

KOVSHOV, A. I.: Master Phys-Math Sci (diss) -- "On the locations of special points of functions represented by series of Dirichlet polynomials". Gor'kiy, 1958. 6 pp (Gor'kiy State U im N. I. Lobachevskiy), 150 copies (KL, No 11, 1959, 114)

AUTHOR: Kovshov, A.I. (Gor'kiy) SOV/39-45-4-6/7

TITLE: ~~On the Position~~ of the Singularities of Functions Being Representable by Series of Dirichlet Polynomials (O raspolozhenii osobykh tochek funktsiy, predstavimyykh ryadami polinomov Dirikhle)

PERIODICAL: Matematicheskiy sbornik, 1958, Vol 45, Nr 4, pp 489-510 (USSE)

ABSTRACT: The paper consists of an introduction and three paragraphs. § 1 contains some partially known auxiliary theorems, § 2 gives the principal result:

Theorem: Let $\varphi(z) = \sum_{n=0}^{\infty} b_n z^n$ have a single singular point in $z=1$. Let α , $\alpha \neq 0$, be a singular point of $f(z) = \sum_{n=0}^{\infty} a_n z^n$ and the vertex of the Mittag-Leffler star of $f(z)$. If $\phi(z) = \sum_{n=0}^{\infty} a_n b_n z^n$ is regular in α , then in a sufficiently small neighborhood of α there holds the representation $f(z) = f_1(z) + f_2(z)$, where $f_1(z)$ is regular in α , while the singularities of $f_2(z)$ in the neighborhood of α form a certain curve arc (α is an inner point of the curve arc). The proof of the theorem is based essentially on an assertion of

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On the Position of the Singularities of Functions Being
Representable by Series of Dirichlet Polynomials

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existence due to Mygglid [Ref 3] and a result of Polya [Ref 1]. Then it is stated that in the proof in reality a stronger assertion was proved. Finally two theorems formulated by Blambert [Ref 10] are proved very simple. § 3 is devoted to the investigation of the connection between the domains of uniform convergence and the uniform boundedness of the sequences

$$P_n(z) = \sum_{j=1}^{P_n} a_{nj} f(\lambda_j z), \quad Q_n(z) = \sum_{j=1}^{P_n} a_{nj} \varphi(\lambda_j z)$$

(here the a_{nj} are constants, the λ_j in general are complex numbers, $f(z)$ and $\varphi(z)$ entire analytic functions). Furthermore the connection between the domains of regularity of the limit functions $P(z)$ and $Q(z)$ are investigated. Under several assumptions

six theorems are proved, e.g.: Let $\zeta(u) = \sum_{k=1}^{\infty} \frac{b_{nk}}{a_{nk}} \cdot \frac{1}{u^{nk+1}}$ have

the single singular point in $u = 1$. If $\{P_n(z)\}$ converges

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On the Position of the Singularities of Functions Being
Representable by Series of Dirichlet Polynomials

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uniformly in E , so does $\{Q_n(z)\}$.
There are 15 references, 8 of which are Soviet, 1 German,
1 Swiss, 3 French, and 2 English.

SUBMITTED: March 13, 1957

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1. Functions - Theory 2. Polynomials - Applications

L 36200-66

ACC NR: AP6011457

SOURCE CODE: UR/0109/66/011/004/0752/0754

AUTHOR: Smorgonskiy, V. Ya.; Kovshov, A. I.

ORG: none

TITLE: Critical conditions in a circular waveguide with dielectric bushing

SOURCE: Radiotekhnika i elektronika, v. 11, no. 4, 1966, 752-754

TOPIC TAGS: waveguide, circular waveguide, dielectric waveguide

ABSTRACT: Several papers have been devoted to the analysis of critical conditions in a circular waveguide with dielectric bushing: they have considered either symmetrical modes or thin bushings (e.g., H. Unger, BSTJ, 1962). The present article analyses the critical conditions with asymmetrical modes and arbitrary bushing thickness. A dispersion equation is set up, and critical frequencies (calculated on a "Minsk-1" digital computer) for three principal

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UDC: 621.372.853.1.09

Card 2/2 *lll*

SMORGONSKIY, V.Ya.; KOVSHOV, A.I.

Carrying capacity of an elliptical waveguide operating in the
H₁₁ mode. Radiotekh. i elektron. 10 no.5:945-947 My '65. (MIRA 18:5)

SCV/101-59-1-a/10

AUTHOR: Kovshov, D. A.

TITLE: Chronicle (Khronika)

PERIODICAL: Tsement, 1959, Nr 1, p 28 (USSR)

ABSTRACT: A meeting of the Spetsiyal'nyy Tekhnicheskiy Sovet (Special Technical Council) dealing with new equipment for cement manufacture was held 18 - 20 December 1958. A project of a new rotary kiln was reviewed. The characteristics of the kiln are: dimensions - 4.5 x 170 m, daily output - 1,200 tons, wet system of production, equipped with a grate cooler. The kiln's body is welded throughout. The material used is steel sheets, of MSt.3 quality. The thickness of the sheets in the hot portion of the kiln is 46 mm, from the passage to the cold portion - 30 mm. The under-rim sleeves are 60 mm thick, with an additional circular band 40 mm thick. The kiln's body is assembled of 2 m long parts. The rims are of cast steel of Ct 35 quality. The rims are supplied in two halves to be electrically welded at the spot. The kiln is mounted upon seven supports and is driven by two

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electric motors, symmetrically disposed in relation to the geometrical axis of the kiln. Further details concerning the manufacture of cement itself was discussed at the meeting. The Technical Council approved the project, adding several modifications to the workshop drawings. The transportation and prefabrication of the kiln's parts was also discussed. Various methods were submitted by the Zavod imeni Nosenko (g. Nikolayev) (Plant imeni Nosenko in Nikolayev), by the Uralmashzavod (Ural Heavy Machinery Plant) jointly with the Sibtyazhmash Zavod (Siberian Heavy Machinery Plant) and by the Institut elektrosvarki imeni Ye. O. PatonaAN USSR (Institute of Electrical Welding imeni Ye. O. Paton of the Academy of Sciences Ukr SSR) Giprotsement (State Planning Institute for Cement Industry Enterprises) has submitted its report dealing with the intensification of the calcination process of clinker. This was achieved by the addition of cyclone heat exchangers working in parallel. The Spasskiy tsementnyy zavod (Primorskiy Sovnarkhoz) (Spasskiy Cement Plant) has put a rotary kiln designed by Giprotsement into operation. The kiln, 3.0 x 60 m, is equipped with cyclone heat exchangers working in

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parallel. The average hourly production during the first months was 13 - 14 tons. Its efficiency was 0.90, heat expenditure - 900 - 1,000 kcal/kg of clinker, temperature of escaping gases - 200 - 250°. The Technical Council expressed the opinion that a kiln equipped with the heat exchangers becomes a serious competitor to the kilns of the "Lepol" type.

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SOV/101-59-3-8/10

AUTHOR: Kovshov, D.A., Engineer

TITLE: Chronicle

PERIODICAL: Tsement, 1959, Nr 3, pp 29-30 (USSR)

ABSTRACT: Last May, the Special Engineering Council of the institute "Giprotsement" discussed the problems of design and construction of new equipment for cement plants. It was stated that the projected 5.0x185 kilns of 1800-ton-per-day clinker output capacity, and 4.5x170 m and 1200-per-day (considered by the Special Engineering Council in May and December 1958) are now under construction. The article gives specifications on the new kiln projects. A 4.0x150m, 900-ton-per-day rotating kiln, developed by the Stavropol' Branch of the VNIISTrommash institute in cooperation with the leading kiln-building plant ("Strommashina" in Bryansk) is to be produced by this plant starting this year. A 5x85m, 1800 ton of clinker per day rotary kiln, project developed by the institute "Yuzhgiprotsement", including a con-

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veyer calciner, has been postponed until work experience with such kilns of 850 ton per day has been acquired. A project for a 4.5x170m kiln, for the specific conditions of the Belgorodskiy tsementnyy zavod (the Belgorod Cement Plant), developed by the Trust "Org-proyekttekhmontazh" (the trust belongs into the scope of the Construction Ministry of RSFSR), is not considered unsuitable for any other plants. Details are also mentioned on the "Lepol'" (Russian, transliterated) system kilns in use at the cement plants in Krivoy Rog and Pervomaysk. Some of their deficiencies are mentioned: low heat-utilization factor, they take 1312 or, respectively, 1350 large calories per kilogram of clinker (heat consumption for the drying of raw material not included). The Special Engineering Council considered it necessary that Gosstroy SSSR (Gosstroy of the USSR) give the special assembly and welding organizations the assignment to work out (with assistance of the institutes "Giprotsement and Yuzhgiprotsement") a standard assembly project for kilns of the type already mentioned for the Belgorod

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Cement Plant. The project, to be yet developed, must include a mechanical means of maintenance during the operation period. It will have to include a 60-ton gantry crane with 16 m span moving on rail track laid along the kiln. Such a project will suit open-air kilns as well as kilns in buildings. This standard project was marked for discussion at the next session of the Special Council in October 1959.

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AUTHOR: Kovshov, D.L. 101-58-3-9/12

TITLE: Chronicle (Khronika)

PERIODICAL: Tsement, 1958, Nr 3, pp 30-31 (USSR)

ABSTRACT: On December 6, 1957, the Soviet government created a special Technical Council for supplying the existing cement plants with up-to-date equipment and for elaborating new projects. The Council is attached to the Giprotsement Institute, with the institutes' director, Yu.S. Lur'ye, as chairman of the new establishment. The Technical Council is comprised of leading specialists in the field of cement production, machine building, scientists from research institutes and universities. During the first session of the Technical Council, on May 8-10, 1958, the technical project of a rotary furnace with a production capacity of 1,800 tons of clinkers per day was examined. The project had been developed by specialists of the E. Thaelmann (Tel'man) plant (Soviet Zone of Germany) in cooperation with Soviet specialists from the Giprotsement and Nitsement Institutes, and the UZTM and Sibtyazhmash. The furnace is intended for the wet production method. Its body is cylindrical with an interior

Card 1/2

Chronicle

101-58-3-9/12

diameter of 5 m, the total length being 185 m. The Council approved the installation of the rotary furnace, and K.V. Nikulin of the Gosplan SSSR pointed out that a furnace of these dimensions was not intended for mass production and could only be useful in regions with a great demand for cement and adequate deposits of raw material.

ASSOCIATION: Tekhnicheskii ~~sovet~~ pri institute Giprotsement (Technical Council Attacheu to the Giprotsement Institute)

1. Cement--Production
2. Industrial plants--Modernization

Card 2/2

KOVSHOV, G.N.

KOMAROV, A.V., doktor tekhn.nauk, nauchnyy sotrudnik; SOLOV'YEV, I.F.,
kand.tekhn.nauk, nauchnyy sotrudnik; KRAVCHENKO, V.S., inzh.,
nauchnyy sotrudnik; KOVSHOV, G.N., inzh., nauchnyy sotrudnik.

Experimental multide~~stination~~ transportation of merchandise in
combined railroad-waterway communications. Rech.transp. 17 no.2:
8-13 F '58. (MIRA 11:2)

1. Institut kompleksnykh transportnykh problem AN SSSR.
(Merchant ships--Cargo)
(Railroads--Freight)

KOVSHOV, G.N., inzh.; MOKROUSOVA, N.I., inzh.; NESTEROV, Ye.P., kand.
tekh.nauk

Computing planned car movements on an electronic calculating machine. Vest.TSNII MPS 19 no.5:23-25 '60.
(MIRA 13:8)

1. Institut kompleksnykh transportnykh problem Akademii nauk SSSR.

(Railroads--Traffic)
(Electronic calculating machines)

MAKSIMOVICH, B.M., kand.tekhn.nauk; KOVSHOV, G.N., inzh.; ROZE, V.A., inzh.

Use of electronic calculating machines for long-range estimates of
car flows. Zhel.dor.transp. 42 no.10:32-35 0 '60. (MIRA 13:10)
(Railroads--Traffic) (Electronic calculating machines)

SHMUKLER, M.M., inzh., KOVSHOV, G.N., inzh.

Use of electronic digital computers for the distribution of car flows by destination. Zhel.dor.transp. 45 no.7:79-80 J1 '63. (MIRA 16:9)
(Railroads--Management) (Railroads--Electronic equipment)

KOVSHOV, G.N.

Shortest route in a transportation system. Vest. TSNIi MPS
22 no.4:59-63 '63. (MIRA 16:8)

1. Institut kompleksnykh transportnykh problem Gosplana SSSR.
(Linear programming)
(Railroads--Management)

DENISOV, E.I.; KOVSHOV, N.I.; FILIN, A.P.

Means for individual protection against industrial noise.
Mashinostroitel' no.8:43-44 Ag '63. (MIRA 16:10)

KOVSHOV, P., pensioner-aktivist

Our joint assignment. Okh. truda i sots. strakh. no.6:74
Je '59. (MIRA 12:10)
(Zaporozh'ye--Safety education, Industrial)

GAYSIN, B.M.; GROZOV, D.P.; KOVSHOV, V.M.

Heat insulating perlite shells for riser heads on steel castings.
Lit. proizv. no.10:38 0 '63. (MIRA 16:12)

ACCESSION NR: AP4035814

S/0020/64/156/001/0099/0101

AUTHOR: Nesmeyanov, A. N. (Academician); Kochetkova, N. S.; Vitt, S. V.;
Bondarev, V. B.; Kovshov, Ye. I.

TITLE: Alkylation of ferrocenes

SOURCE: AN SSSR. Doklady*, v. 156, no. 1, 1964, 99-101

TOPIC TAGS: ferrocene, alkylation, Friedel Crafts, ethylferrocene, diethylferrocene, triethylferrocene, tert butylferrocene, butyl ferrocene, preparation, IR spectra, NMR spectra

ABSTRACT: In this work ferrocenes were alkylated to give 80-90% yields, in comparison with the Friedel Crafts methods which give 20-30% of alkylates. Ferrocene was reacted with ethylbromide in the presence of equimolar amounts of $AlCl_3$ and $LiAlH_4$ in n-heptane; the reaction products were water extracted and the organic portion subjected to vacuum distillation. The 100-130C (at 1 mm Hg) fraction contained ethylferrocene and isomers of diethylferrocene, and the 130-150C/1mm fraction contained a mixture of isomeric triethylferrocenes. Mono-, di-, tri- and tetra-tert-butylferrocenes were similarly prepared. IR and NMR

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ACCESSION NR: AP4035814

indicated the third and fourth tert-butyl group is attached to the second g ring.
"NMR spectra were obtained on NMR spectrograph TsIA-5535 at 40 megacycles by
E. I. Fedinyan and P. V. Petrovsk, for which the authors express their sincere
appreciation. Orig. art. has: 2 tables.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR
(Institute of Organometallic Compounds Academy of Sciences SSSR)

SUBMITTED: 03Feb64

ENCL: 00

SUB CODE: OC

NO REF SOV: 005

OTHER: 003

Card

2/2

DEMENT'YEV, Petr Trofimovich; KOVSHOVA, O.N., red.; LOKHMANOVA, M.F.,
tekhn.red.

[Making bricks and slag-cement roofing slate in seasonal brick
factories] Proizvodstvo kirpicha i shlakotsementnogo shifera na
sezonnnykh kirpichnykh zavodakh. Moskva, 1958. 45 p. (MIRA 12:2)
(Roofing, Slate) (Brickmaking)

PATRIK, S.A.; ISHKHANOV, G.S., nauchnyy red.; KOVSHOVA, O.N., red.;
LOKHMANOVA, M.F., tekhn.red.

[Tiled roofs] Cherepichnaia krovlia. Moskva. 1958. 127 p.
(Tiles, Roofing)

MORALEVICH, Yuriy Aleksandrovich; KOVSHOVA, O.N., red.; LEBEDEV, O.S.,
tekh.n.red.

[World of plastics] Mir plastmass. Moskva, Gos.izd-vo "Detskii
mir" M-va kul'tury RSFSR, 1959. 69 p. (MIRA 12:12)
(Plastics)

SEDOV, A.V.; STAKHURSKIY, A.Ye., red.; KOVSHOVA, O.N., red.; LEBREDEV,
O.S., tekhn.red.

[Care of the bicycle] Ukhod za velosipedom. Moskva, M-vo kul'-
tury RSFSR, Izd-vo "Detskii mir", 1959. (Prilozhenie k zhurnalu
"Iunyi tekhnik," no.21 (63)). (MIRA 14:1)

1. Tsentral'naya stantsiya iunyh tekhnikov, Moscow.
(Bicycles and tricycles)

MARKELLOV, Aleksandr Aleksandrovich; KOVSHOVA, O.N., red.; VLASENKO,
L.N., tekhn.red.

[Homemade magnetic tape recorders] Samodel'nyi magnitofon.
Moskva, M-vo kul'tury RSFSR. Izd-vo "Detskii mir," 1960.
36 p. (MIRA 13:?)
(Magnetic recorders and recording)

KOVSHOVA, S.

Persistent innovator. Avt.transp. 43 no.3:8 Mr '65.

(MIRA 18:5)

KOVSHOVA, S. I. (Rego)

Electrical activity of the muscles in late tonic stress. Trudy
LSGMI 64:155-159 '61. (MIRA 15:7)

1. Kafedra fiziologii Leningradskogo sanitarno-gigiyenicheskogo
meditsinskogo instituta. Zav. kafedroy - prof. Yu. M. Uflyand.

(ELECTROMYOGRAPHY) (PARALYSIS, SPASTIC)

KOVSHOVA, S. I.

Analysis of the contractile properties of muscle in contracture
in an experiment on the whole body. Trudy LSGMI 64:227-235 '61.
(MIRA 15:7)

1. Kafedra fiziologii Leningradskogo sanitarno-gigiyenicheskogo
meditsinskogo instituta. Zav. kafedroy - prof. Yu. M. Uflyand.

(MUSCLES--MOTILITY)

KOVSHOVA, YE. A.

Kovshova, Ye. A., Lipatnikova, A. V, and Zhelnova, G. G. "On the sanitary conditions of the barbershops of the city of Ufa," Voprosy dermato-venerologii, Vol. IV, 1948, p. 13-15.

SO: U-3736, 21 May 53, (Letopis, 'Zhurnal 'nykh Statey, No. 18, 1949).

KOVSHOVA, YE. A

Kovshova, Ye. A. "A case of primary actinomycosis of the skin," Voprosy dermato-venerclogii, Vol. IV, 1948, p. 110-12.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 18, 1949).

KUZNETS, M. M., Prof.; KOVSHOVA, YE. A.

Bashkiria - Fungi

Changes in the fungi of Bashkiria in the post-war period. Vest. ven. i dermat., No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress October 1952 UNCLASSIFIED

KOVSHOVA-MEDVEDEVA, Ye.A., Cand Med Sci -- (diss) "^{Fungal}Bacterial
diseases in Bashkiriya and ^{ways} of eliminating them." Ufa,
1958, 17 pp. (Bashkir State Med Inst in ¹⁵fifteenth Anniversary
of VLKSM) 200 copies (KL, 50-58, 129)

KOVSHOVA-IMEDVELEVA, Ya. A.

Data on Fungal flora of the Bashkir A.S.S.R. for 9 years (1947-1955) and some data on the control of microsporosis caused by *Microsporum lanosum*. Vest.derm. i ven. 33 no.3:54-56 My-Je '59. (MIRA 12:9)

1. Iz Ufinskogo kozhno-venerologicheskogo instituta (dir. - starshiy nauchnyy sotrudnik P.N.Shishkin, nauchnyy rukovoditel' - prof.G.S.Maksimov).
(RINGWORM, prev. & control
in Russia (Rus))

KOVSHOVA-MEDVEDEVA, Ye. A.

Significance of trichophytoses in the epidemiology of mycoses in
the Bashkir ASSR. Vest. dermat. i ven. 34 no.1:22-24 Ja '60.

(MIRA 14:12)

1. Iz Ufimskogo kozhno-venereologicheskogo instituta (dir. - kandidat
meditsinskikh nauk P. N. Shishkin, nauchnyy rukovoditel' prof.
G. S. Maksimov)

(RINGWORM)

KOVSHOVA-MEDVEDEVA, Ye. A., kand. med. nauk

Trichophytosis due to fungi of animal origin. Vest. dermat. i ven.
no.4:20-23 '62. (MIRA 15:4)

1. Iz Ufimskogo kozhno-venerologicheskogo instituta (dir. -
starshiy nauchnyy sotrudnik P. N. Shishkin, nauchnyy rukovoditel' -
starshiy nauchnyy sotrudnik G. E. Shinskiy).

(RINGWORM)

1. KUCHERSKIY, L. V., Eng., KOVSHULY, A. A., Eng.
2. USSR (600)
4. Kizel Basin - Mine Explosions
7. Problem of explosions in the coal mines of the Kizel Basin. Ugol' 28, No. 2, 1953.

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

KOVSHULYA, A.A., kandidat tekhnicheskikh nauk.

Difficulties in mining at great depths and measures to reduce them.
Sbor.trud.Inst.gor.dela AN URSR no.4:18-34 '56. (MLRA 10:5)
(Mining engineering)

KOVSHULYA, Afanasiy Andreyevich [Kovshulia, P.A.], kand.tekhn.nauk;
~~POLYSHCHUKA, P.D., red.~~

[Raw materials supply for the ferrous metal industry in the
Ukraine] Syrovynna baza chornoj metalurgii na Ukraini. Kyiv,
1958. 47 p. (Tovarystvo dlia poshyrennia politychnykh i
naukovykh znan' Ukrain's'koi RSR. Ser.4, no.7) (MIRA 12:1)
(Ukraine--Iron mines and mining) (Ukraine--Manganese ores)
(Ukraine-Lime)

KUCHEROV, P.S., otv.red.; STARIKOV, N.A., akademik, red.; PEN'KOV, A.M.,
red.; KUKHTENKO, A.I., doktor tekhn.nauk, red.; KOVSHULYA,
A.A., kand.tekhn.nauk, red.; GARMASH, N.Z., kand.tekhn.nauk, red.;
KISINA, I.V., red.izd-va; YURCHISHIN, V.I., tekhn.red.

[Tapping and working mineral deposits] Voprosy vskrytiia i
razrabotki mestorozhdenii poleznykh iskopaemykh. Kiev, 1958.
172 p. (MIRA 12:6)

1. Akademiya nauk USSR, Kiyev. Institut gornogo dela. 2. Chlen-
korrespondent AN USSR (for Kucherov, Pen'kov). 3. AN USSR (for
Starikov).

(Mining engineering)

KOVSHULYA, A.A. [Kovshulia, O.A.]; GARMASH, N.Z. [Garmash, M.Z.];
ZIL'BAN, M.S.; KUCHEROV, P.S., otv.red.; BURYACHOK, A.A.,
kand.filolog.nauk, red.-leksikograf; SHTUL'MAN, I.F., red.
izd-va; BUNIIY, R.O.; tekhn.red.

[Russian-Ukrainian mining dictionary] Russko-ukrainakii gornyi
slovar'. 20000 terminov. Sost.A.A.Kovshulia, N.Z.Garmash i M.S.
Zil'ban. Kyiv, 1959. 271 p. (MIRA 13:3)

1. Akademiya nauk USSR, Kiyev. 2. Chlen-korrespondent AN USSR
(for Kucherov).

(Russian language--Dictionaries--Ukrainian)

(Mining engineering--Dictionaries)

KOVSHULYA, A.A., kand.tekhn.nauk; PECHKOVSKIY, V.I., kand.tekhn.nauk;
KAL'CHIK, G.S., gornyy inzh.; CHERNEGOV, A.A., gornyy inzh.

Commentary on the article by L.A.Mizernitskii "Annual production
of an iron mining and dressing combine." Gor.zhur. no.2:74-75 F
'61. (MIRA 14:4)

1. Institut gornogo dela AN USSR, Kiyev.
(Ore dressing)
(Mizernitskii, L.A.)

KOVSHULYA, A.A.

Determining the minimum iron content of ores mined from Krivoy Rog deposits. Sbor.trud.Inst.gor.dela AN URSR no.8:3-10 '61.

(MIRA 15:2)

(Krivoy Rog Basin--Iron ores)

KOVSHULYA, A.A., kand.tekhn.nauk; PECHKOVSKIY, V.I., kand.tekhn.nauk;
KAL'CHIK, G.S., gornyy inzh.; CHERNEGOV, A.A., gornyy inzh.

Response to P.M.Kovachevich's article "Method of determining the
approximate values of mining output in the design and planning of
coal mines." Ugol' 36 no.7:47-48 J1 '61. (MIRA 15:2)
(Mining engineering) (Kovachevich, P.M.)

KOVSHULYA, Afanasiy Andreyevich; KUCHEROV, P.S., *otv. red.*; POKROVSKAYA,
Z.S., *red. izd-va; DAKHNO, Yu.M.,* *tekh. red.*

[Reducing losses of valuable ores of the Krivoy Rog Basin]
Snizhenie poter' bogatykh rud Krivorozhskogo zhelezorudnogo
basseina. Kiev, Izd-vo Akad. nauk USSR, 1962. 127 p.

(MIRA 15:3)

1. Chlen-korrespondent Akademii nauk USSR (for Kucherov).
(Krivoy Rog Basin--Iron mines and mining)

KOVSHULYA, A.A., inzh.

Rock outburst in the block 35-41 of the "Novaia" Mine in the
Krivoi Rog Bassin. Bezop.truda v prom. 6 no.3:12 Mr '62.
(MIRA 15:3)

1. Institut gornogo dla Akademii nauk USSR.
(Krivoi Rog Bassin--Mine accidents)

KOVSHULYA, A.A.

Working a potassium salt deposit. Sbor.trud.Inst.gor.dela AN
URSR no.5:48-57 '58. (MIRA 15:5)
(Ukraine--Potassium salts)

KOVSHULYA, A.A.

Possibility of preventing displacement of overlying rocks in
Krivoy Rog deposits. Sbor.trud.Inst.gor.dela AI' URSR no.5:58-68
'58. (MIRA 15:5)
(Krivoy Rog Basin---Iron mines and mining)

STARIKOV, N.A. [deceased]; KOVSHULYA, A.A.; PECHKOVSKIY, V.I.;
KAL'CHIK, G.S.; CHERNEGOV, A.A.

Essential data for engineering geological studies of rocks in
deposits. Trudy Inst.gor.dela AN URSR no.11:66-69 '62.
(MIRA 16:2)

(Rocks--Testing)

KOVSHULYA, A.A.

Some problems in opening and developing new horizons in the
Krivoy Rog Basin. Trudy Inst.gor.dela AN URSR no.11:70-73
'62. (MIRA 16:2)
(Krivoy Rog Basin--Iron mines and mining)

KOVSHULYA, A.A., kand. tekhn. nauk

Economic use of rich iron ores from the Krivoy Rog Region.
Met. i gornorud. prom. no.5:42-45 S-0 '63. (MIRA 16:11)

1. Sovet po izucheniyu proizvoditel'nykh sil UkrSSR.

KOVSHULYA, A.A., kand. tekhn. nauk

Efficient depth of mining Krivoy Rog deposits of rich
iron ores. Met. i gornorud. prom. no.4:34-37 JI-Ag '63.
(MIRA 16:11)

1. Sovet po izucheniyu proizvoditel'nykh sil AN UkrSSR.

KOVSHULYA, A.A., kand. tekhn. nauk; PECHKOVSKIY, V.I., kand. tekhn. nauk;
KAL'CHIK, G.S., inzh.; CHERNEGOV, A.A., inzh.

Possibilities of using sound measuring to determine slope areas
presenting a danger of landslides. Nauch. zap. Ukrniiproekta no.10:
48-57 '63. (MIRA 17:6)

YEGOROV, Nikolay Aleksandrovich; KOVSHULYA, Afanasiy Andreyevich;
PECHKOVSKIY, Vsevolod Ivanovich; BUKHALO, S.M., doktor
ekon. nauk, otv. red.; BORYAKIN, V.N., red.

[Ore resources of the Ukraine] Rudnye resursy Ukrainy. Kiev,
Naukova dumka, 1964. 188 p. (MIRA 17:10)

KOVSHULYA, A.A., kand. tekhn. nauk; PECHKOVSKIY, V.I., kand. tekhn. nauk;
CHERNEGOV, A.A.; KAL'CHIK, G.S.

Advantageousness of mining the Pokrov-Kireyevskiy fluorite
deposit. Met. i gornorud. prom. no.3:58-59 My-Je '64.

(MIRA 17:10)

KOVSHULYA, A.A., kand.tekhn.nauk; PECHKOVSKIY, V.I., kand.tekhn.nauk; KAL'CHIK,
G.S., gornyy inzh.; CHERNEGOV, A.A., gornyy inzh.

Readers' response to the article by S.N.Nikitin "Determining the
expected slipping surface according to stresses in the strip mine
slope."; "Ugol'", 1962, No.1. Ugol' 38 no.3:62 Mr '63.

(MIRA 18:3)

KOVSHULYA, F.A.

NEDIN, Valentin Vasil'yevich; TARASOV, L.Ya., retsenzent; IL'YENKO, V.G.,
redaktor; KOVSHULYA, F.A. redaktor; SHUSTOVA, V.M., redaktor;
EVENSON, I.M., tekhnicheskij redaktor

[Dust control in Krivoi Rog Basin mines] Bor'ba s pyl'iu na rudnikakh
Krivorozhskogo basseina. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry
po chernoi i tsvetnoi metallurgii, 1954. 256 p. (MLRA 8:4)
(Krivoi Rog--Mine dusts)

IL'YENKO, Vasilii Grigor'yevich; KOROBKO, Vasilii Grigor'yevich; KONOGRAY,
Boris Yakovlevich; KOVSHULYA, Fedor Andreyevich; LISTROV, Oleg
Fedorovich; D'YACHENKO, I., red.; GUSAROV, K., tekhn.red.

[Safety techniques in Krivoy Rog Basin mines] Tekhnika bezopasnosti
na shakhtakh Krivbassa. Kiev, Gos.isd-vo tekhn.lit-ry USSR, 1959.

133 p.

(MIRA 13:4)

(Krivoy Rog--Mining engineering--Safety measures)

GOROBETS, A.K., inzh.; KOVSHULYA, F.A., inzh.; SOLGALOV, E.V., inzh.;
TORGONNIKOV, B.M., inzh.

Results of testing new sprayers. Bezop.truda v prom 4 no.6:10-12
Je '60. (MIRA 14:9)

1. Kirovogradskiy nauchno-issledovatel'skiy institut gornorudnoy
promyshlennosti
(Spraying and dusting equipment—Testing)

KOVSULYA, F.A., inzh.; TORGOVNIKOV, B.M., inzh.; SHARUN, V.G., inzh.;
GOROBETS, A.K., inzh.

Systems of the ventilation and the improvement of their designing.
Bezop. truda v prom. 5 no.8:15-18 Ag '61. (MIRA 14:8)

1. Krivorozhskiy nauchno-issledovatel'skiy institut gornorudnoy
promyshlennosti.

(Mine ventilation)

KOVSHULYA, V.

Directed changes in the temperature reactivity of schizophrenics.
Trudy Gos.nauch.-issl.inst.psikh. 27:120-126 '61. (MIRA 15:10)

1. Leningradskiy psikhonevrologicheskiy institut imeni Bekhtereva.
Dir. - chlen-korrespondent Akademii pedagogicheskikh nauk SSSR
prof. V.N.Myasishchev. I psikhiatricheskoye otdeleniye. Nauchnyy
rukovoditel' - starshiy nauchnyy sotrudnik T.Ya.Khvilititskiy.
(SCHIZOPHRENIA) (FEVER THERAPY)

KHVILIVITSKIY, T.Ya.; KOVSHULYA, V.S.; SLUTSKINA, P.I.

Directed change in reactivity in the treatment of mental patients with insulin and aminazine. Trudy Gos. nauch.-issl. psikhonevr. inst. no.20:249-258 '59. (MIRA 14:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy psikhonevrologicheskiy institut imeni V.M. Bekhtereva, Leningrad.

(MENTAL ILLNESS) (INSULIN)
(CHLORPROMAZINE)

S/203/62/002/001/016/019
I023/I223

50000
AUTHOR: Kovshun, I. II.

TITLE: The account of the presence of the meteor maximum mass and the sensitivity of the radiation receiver in determining the height of a homogeneous atmosphere of the Earth by meteor photographic data

PERIODICAL: Geomagnetizm i Aeronomiya, v.2, no.1, 1962, 140-147

TEXT: The theoretical calculation of the height of a homogeneous atmosphere from meteor-track photographs is performed, assuming that the coefficient of heat transfer, the coefficient of resistance and the energy needed to heat and evaporate 1 gm of the meteor remain constant along the whole path of the meteor. It is assumed also that the meteor's dimensions are much smaller than the mean free path of the air molecules, thereby excluding the case of the meteor producing a shock wave. The part of the light-intensity curve which is below the sensitivity of the detector is also taken into account. This leads to the introduction of four coefficients, /C

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S/203/62/002/001/016/019
I023/I223

The account of the presence of the meteor...

which can be determined by solving four equations at any point of the meteor track. The values of these coefficients can then be easily found at any other point. An accurate determination of the meteor velocity at any point of its track is assumed. There is 1 figure. *ve*

ASSOCIATION: Odesskiy gosudarstvennyy universitet,
Astronomicheskaya observatoriya (The Odessa State
University, The Astronomical Observatory)

SUBMITTED: December 1, 1961

Card 2/2

ACC NR: AP7007045

SOURCE CODE: UR/0203/66/006/004/0717/0725

AUTHOR: Kovshun, I. N.

ORG: Odessa Astronomical Observatory, Odessa State University (Odesskiy astronomicheskaya observatoriya, Odesskiy gosudarstvennyy Universitet)

TITLE: New determinations of masses of meteor bodies

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 4, 1966, 717-725

TOPIC TAGS: meteor, astronomy

SUB CODE: 03

ABSTRACT:

The luminescence coefficient τ for all meteors usually is dependent on their velocity v

$$\tau = \tau_0 v, \text{ where } \lg \tau_0 = -9.07. \quad (1)$$

This has been simplified to $\lg \tau_0 = -9.30$. (1a)

These relations are used widely for computing the photometric masses of meteors m_{ph}

$$m_{ph} = -\frac{2}{\tau_0 v} \int_{t_k}^t \frac{I}{v^2} dt, \quad (2)$$

where I is the instantaneous light intensity of the meteor at the time t . Using these and other relations, a study was made of 317 meteors

Card 1/2

UDC: 523.53

ACC. NR: AP7007045

photographed at Odessa, Dushanbe and Cambridge (Harvard). Meteor mass was determined several times on some trails, so 564 determinations of meteor mass were made. Tables 2, 3 and 4, for Odessa, Harvard and Dushanbe respectively, give complete data. Relations (1), (1a) and (2) were used in determining photographic masses. The expression $\lg I = 9.72 - 0.4 M_0$ (M_0 is the absolute stellar magnitude of the meteor) was applied for Odessa and Dushanbe meteors. The expression $\lg I = 9.84 - 0.4 M_0$ was used for Harvard meteors. The author has determined the "new" mass m of meteors, taking into account the dependence of τ on mass, velocity, composition and structure of meteors. Allowance for this dependence introduces into our former concepts on meteor mass a definite contribution characterized by the value $\gamma = m/m_{ph}$. This is tabulated in Table 5 as a function of v and $\lg m_{ph}$ of the meteor...

Orig. art. has: 2 figures, 11 formulas and 5 tables. [JPRS: 38,677]

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