

HAUSNER, M.; DOLEZAL, V.; SAPOSNIKOVA, O.

Various psychodiagnostic testing methods during psychotherapy using LSD. *Activ. nerv. sup.* 5 no.2:218-219 My '63.

1. Psychiatricke oddeleni fakultni polikliniky, Praha - I  
ustav pro chemii lecarskou a soudni fakulty vseobecneho  
lekarstvi KU, Praha.

(PSYCHOTHERAPY) (LYSERGIC ACID DIETHYLAMIDE)  
(PROJECTIVE TECHNIQS) (PSYCHOSES, TOXIC)

KUS, Henryk; SZEWCZAK, Eugeniusz; SOLTYS, Wieslaw; SAPOTA, Jan

High fracture of the tibia and fibula complicated by acute  
ischemia of the leg. Chir. narzad. rachu ortop. pol. 28  
no.5:513-517 '63.

1. Z III Kliniki Chirurgicznej AM we Wroclawiu. Kierownik:  
prof. dr. Z.Jezioro.

SAFOTA, Jan

Functional examination of the valve and of its usefulness for  
the creation of an artificial ileocecal cardia. Pol. przegl.  
chir. 37 no.4:311-315 Ap '65.

1. Z III Kliniki Chirurgicznej Akademii Medycznej we Wroclawiu  
(Kierownik: prof. dr. Z. Jezioro).

U S S R .

Treatment of sulfite waste liquor obtained from a drastic cook with a weak acid. S. A. Sapozhnikov and V. A. Il'inskaya. Voprosy Lesokhim. i Khim. Drevesiny. Trudy Inst. Lesokhoz. Problemy, Akad. Nauk Latv. S.S.R. 6, 77-81(1953)(in Russian).—Normal yields of alc. are obtained by fermentation of waste liquors (I) from a drastic cook with a weak acid if I are taken to pH 5.5. At this pH the aldehyde bisulfite addn. products, which may inhibit alc. fermentations are least stable. The negative effect of SO<sub>2</sub> on I on the rate of fermentation was thus confirmed. (cf. U.S. Pat. 2,645,446). Elizabeth H. H. H.

SAPOTNITSKIY, S. A.

USSR/Chemical Technology - Chemical Products and Their Application. Wood Chemistry Products. Cellulose and Its Manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63378

Author: Kamaldina, O. D., Massov, Ya. A., Sapotnitskiy, S. A., Sukhanovskiy, S. I., Alekseyeva, N. G., Ivanovskiy, N. A.

Institution: None

Title: Production of Vanillin from Lignosulfonates

Original

Periodical: Gidroliznaya i lesokhim. prom-st', 1955, No 2, 12-14

Abstract: For the production of vanillin (I) from lignosulfonates (LS) of sulfite-wash concentrates LS are oxidized in alkaline medium in autoclaves at elevated temperature and I is separated from the reaction mixture by acidification with  $H_2SO_4$  to pH 4.5, followed by extraction with benzene at  $60^\circ$  whereby crude I is obtained containing 40-50% I and 50-60% resins. Crude I is treated with bisulfite to form a vanillin-bisulfite compound readily soluble in water. After separation of aqueous and resin layers the bisulfite compound

Card 1/2

USSR/Chemical Technology - Chemical Products and Their Application. Wood Chemistry  
Products. Cellulose and Its Manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63378

Abstract: of vanillin is decomposed with  $H_2SO_4$ ; I forms a precipitate and is separated by centrifugation. The recovered I is purified by distillation at  $\sim 140^\circ/1-3$  mm Hg and a product is obtained containing 92-97% I, which is recrystallized from distilled water at  $50^\circ$ , the crystals being separated in a centrifuge. The I thus obtained is dried and packaged. I from LS is used the same as synthetic I.

Card 2/2

SAPOTNITSKIY, S.A., kandidat tekhnicheskikh nauk

Effect of  $SO_2$  on the fermentation process. *Gidroliz. i lesokhim. prom.*  
8 no.4:28-29 '55. (MLRA 8:9)  
(Fermentation) (Sulfur dioxide)

SAPOTNITSKIY, S.A.

The fermentation of saccharide liquors in the presence of bisulfite compounds. (S. A. Sapotnitskiy and A. G. Moskaleva. Gidriia. i Lesokh. Prom. S. No. 6, 7-9 (1936)).  
 To 2.5 and 5.0% solutions of glucose (I), galactose (II), and xylose (III) was added 20% NaHSO<sub>3</sub> soln. The amount of bisulfite addn. compounds of saccharides was detd. polarimetrically after the establishment of equil. The latter was reached in 2-4 days with hexoses, and in 7-9 days with III. In 2.5% NaHSO<sub>3</sub> soln. was bound 14.8% of I, 20.3% of II, and 31.6% of III; in 5.0% NaHSO<sub>3</sub> soln. it was raised to 18.3% of I, 22.2% of II, and 32.8% of III. The rates of the attainment of equil. were of the order I > II > III. To establish the effect of noncarbohydrate carbonyl groups on the bisulfite addn. compounds AcH was added to 2.5% and 5-furaldehyde to 5.0% saccharide soln. The liberation of I, II, and III from the bisulfite addn. was of the order III > II > I. A 2.5% mixt. of II and III was 47%, the one of I and III 38%, and the one of I and II 35% bisulfite bound. The formation of bisulfite addn. compds. was stepwise as indicated by the sharp bends in the plots of concn. of the mixt. vs. aldehyde-combined SO<sub>3</sub>. The re-establishment of the optical activity on the addn. of AcH was of the order I-II > III-II > III-I. It was thus detd. that NaHSO<sub>3</sub> reacted first with noncarbohydrate aldehydes, with which it formed undissoc. compds.; and the remaining NaHSO<sub>3</sub> then reacted with saccharides. This resulted in a diminished yield of EtOH upon fermentation.  
 T. Jureck.

(Handwritten initials and a circled number 1)



NEPENIN, Nikolay Nikolayevich; KOMAROV, F.P., kandidat tekhnicheskikh nauk, retsenzent; SAPOZHITSKIY, S.A., kandidat tekhnicheskikh nauk, retsenzent; ROZENBERGER, N.A., kandidat tekhnicheskikh nauk, retsenzent; BLOSHCHIN, I.I., inzhener, retsenzent; GRYMAN, A.A., inzhener, retsenzent; ZAMORUYEV, B.M., inzhener, retsenzent; KLOPOV, V.M., redaktor; FEDOROV, V.M., redaktor izdatel'stva; KARASIK, N.P., tekhnicheskii redaktor

[Technology of woodpulp] Tekhnologiya tselliulozy. Moskva, Goslesbumizdat. Vol.1. [Sulfite-cellulose manufacture] Proizvodstvo sul'fitnoi tselliulozy. 1956. 748 p. (MIRA 9:7)  
(Woodpulp)

SAPOTNITSKIY, S.A.; GLUSHCHENKO, N.V.; KHRISTYUK, I.A.

Effect of cymene on the precipitation of slime from sulfite liquor. *Gidroliz. i lesokhim. prom.* 9 no.4:13-14 '56.

(MLRA 9:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti (for Sapotnitskiy and Glushchenko) 2. Tsentral'nyy nauchno-issledovatel'skiy institut bumagi (for Khristyuk).  
(Cymene) (Sulfite liquor)

SAPOTNITSKI, S. A.

Improvement in production of vanillin from lignosulfonates. S. A. Sapotnitski, O. D. Kamaldina, and Yu. A. Maslov. *Gidroliz. i Lesokhim. Prom.* 9, No. 7, 14-16 (1968).—The addn. of  $\text{Na}_2\text{SO}_3$  recovered from lignosulfonates after neutralization with  $\text{H}_2\text{SO}_4$  by crys.tn., lowers the consumption of  $\text{NaOH}$  from 83 to 23%, and at the same time increases the yield of extrn. by 10% (5.49 g./l.). Extrn. of vanillin (I) with  $\text{C}_6\text{H}_6$  is carried out at 45-55° under agitation. At higher temps., resinification occurs. For the same reason the temp. during blow-off after splitting the  $\text{NaHSO}_3$  adduct is kept at 40°. Raw I is vacuum distd. at as low a pressure as possible. As pressure is raised from 1 to 13 mm. Hg the yield is lowered from around 80 to 70%.  
T. Jurcic

1/3  
1/3

SAPOTNITSKIY, S.A.; BUYEVSKOY, A.V.; GALAKHOVA, V.Ye.

Neutralisation of extra vapors of sulfite waste liquor.  
Gidroliz. i lesokhim. prom. 9 no.8:20-21 '56. (MLRA 10:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy  
i sul'fitno-spirovoy promyshlennosti.  
(Sulfite liquor) (Vapors)

SAPOTNIKSKIY, S. A.

Effects of some sulfur compounds on yeast. S. A.  
Sapotnikski and A. G. Moskaleva (All-Union Sci. Research  
Inst. Hydrology and Sulphite Ac. Ind. Leningrad) *izvestiya*  
Akad. Nauk SSSR Ser. Khim. Nauk 1964, No. 1, p. 29.

L SAPOTNITSKIY, S.A.

SAPOTNITSKIY, S.A.

SAPOTNITSKIY, S.A., kand.tekhn.nauk

Utilization of sulfite liquors. Khim.nauka i prom. 2 no.4:466-469  
'57. (MIRA 10:11)

(Sulfite liquor)

SAPOTNITSKIY, S.A., kandidat tekhnicheskikh nauk.

Clarification of sulfite alkalies. Gidroliz. i lesokhim. prom.  
10 no.3:32 '57. (MLRA 10:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy  
i sul'fitno-spirtovoy promyshlennosti.  
(Alkalies)



SAPOTNITSKIY, S.A.; MASSOV, Ya.A.; MYASHNIKOVA, R.M.

Conversion of sulfite-waste liquor concentrate from a fluid to a solid state. *Gidroliz.i lesokhim.prom. 10 no.4:17 '57. (MIRA 10:7)*

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti.  
(Sulfite liquor)

САПОТНИЦКИЙ, С.А.

SAPOTNITSKIY, S.A.

Thermal conditions during the removal of  $SO_2$  from sulfite liquors  
of soft pulp. *Gidroliz. i lesokhim. prom.* 10 no.6:15 '57.

(MIRA 10:12)

1. *Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'-  
fito-spirovoy promyshlennosti.*  
(Sulfite liquor) (Sulfur dioxide)

SAPOTNITSKIY S.A.

SAPOTNITSKIY, S.A.

Effect of the lignosulfonate cation valence on sulfite cooking.  
Bum.prom.32 no.8:5-6 Ag '57. (MIRA 10:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirovoy promyshlennosti.  
(Lignosulfonic acids) (Woodpulp industry)

SAPOTNITSKIY, S.A.; MYASNIKOVA, R.M.; MASSOV, Ya.A.

Steam desorption of  $SO_2$  from experimental solutions. *Gidroliz. i  
lesokhim. prom.* 11 no.5:15-16 '58. (MIRA 11:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i  
sul'fitno spirtovoy promyshlennosti.  
(Desorption) (Sulfur dioxide) (Hydrolysis)

SAPOTNITSKIY, S.A.

Decomposition of glucose during sulfite cooking. Zhur. prikl. khim.  
31 no.2:312-314 P '58. (MIRA 11:5)

(Glucose) (Woodpulp)

BUYEVSKOY, A.V.; SAPOTNITSKIY, S.A.

Sulfuric acid precipitation of lignosul'fonates in the presence  
of some components of sulfite liquor. Trudy LFA no.80 pt.2:  
29-36 '58. (MIRA 13:4)  
(Lignosulfonic acids) (Sulfite liquor)

SAPOTNITSKIY, S.A.; GIUSHCHENKO, N.V.; YEGOROVA, E.A.

Separation of sugars from disulfite compounds in sulfite liquors.  
Gidroliz. i lesokhim prom. 12 no.7:8-10 '59 (MIRA 13:3)

1. Nauchno-issledovatel'skiy institut gidroliza sakhara.  
(Sugars) (Sulfite liquor)

SAPOTNITSKIY, Solomon Abramovich, kand.tekhn.nauk; MIKHAYLOV, M.I.,  
red.; SARMATSKAYA, G.I., red.isd-va; PARAKHINA, N.L.,  
tekm.red.

[Utilization of sulfite liquors] Ispol'zovanie sul'fitnykh  
shchelokov. Moskva, Goslesbumizdat, 1960. 180 p.

(MIRA 14:1)

(Sulfite liquor)



SAPOTNITSKIY, S.A.; GLUSHCHENKO, N.V.; Primali uchastiye: SPICHKINA,  
T.G.; RUDENKO, T.A.

Oxidation of sulfites by air in diluted acidified solutions.  
Zhur.prikl.khim. 35 no.10:2191-2195 O '62. (MIRA 15:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy  
i sul'fitno-spirovoy promyshlennosti.  
(Sulfites) (Oxidation)

SAPOTNITSKIY, S.A.; MGSKALEVA, A.G.

Effect of alkali liquor on glucose decomposition in the sulfite  
pulping process. Bum.prom. 37 no.6:12-13 Je '62. (MIRA 15:6)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut  
gidroliznoy i sul'fitnospirovoy promyshlennosti.  
(Woodpulp)

SAPOTNITSKIY, S.A.; GLUSHCHENKO, N.V.

Upgrading of sulfite liquor for the biosynthesis of antibiotics.  
Sbor.trud. NIIGS 11:102-105 '63. (MIRA 16:12)

SAPOTNITSKIY, S.A.; GALAKHOVA, V.Ye.; NIKITINA, N.A.; AKURA, V.D.

Preparation of calcium-free sulfite liquors for biochemical treatment.  
Gidroliz. i'leokhim.prom. 16 no.1:7-9 '63. (MIRA 16:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy  
i sul'fitospirtovoy promyshlennosti.  
(Sulfite liquor)

SAPOTNITSKIY, S.A.; GLUSHCHENKO, N.V.; SPICHKINA, T.G.

Combining the processes of the blowing and evaporation of sulfite liquor. *Gidroliz. i lesokhim. prom.* 16 no.4:3-4 '63.  
(MIRA 16:7)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut  
gidroliznoy i sul'fitnospirovoy promyshlennosti.  
(Sulfite liquor)

SAPOTNITSKIY, S.A.; MYASNIKOVA, R.M.; SHARKOV, V.I.

Use of SO<sub>2</sub> for the inversion of oligosaccharides in the liquor of bisulfite cooking of vegetable raw materials. *Gidroliz. i lesokhim.prom.* 17 no.1:12-13 '64. (MIRA 17:4)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti.

SAPOTNITSKIY, S.A.; USACHEVA, V.T.

Composition of the sugars of sulfite liquors from the bisulfite  
pulp of high-yield cellulose. Sbor.trud.NIIGS 12:199-203  
'64. (MIRA 18:3)

SAPOTNITSKIY, S.A.; GLUSHCHENKO, N.V.

Effect of monosulfite on the blocking of sulfite liquor sugars.  
Sbor.trud.NIIGS 12:204-207 '64. (MIRA 18:3)



SAPOTNITSKIY, S.A.; NOVITSKAYA, L.I.

Carbonyl bisulfite compounds of lignosulfonic acids of sulfite liquor.  
Gidroliz. i lesokhim.prom. 17 no.8:12-13 '64. (MIRA 18:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy  
i sul'fitno-spirtovoy promyshlennosti, Leningrad.

SAPOTNITSKIY, Solomon Abramovich; MIKHAYLOV, M.I., red.

[Use of sulfite liquors] Ispol'zovanie sul'fitnykh  
shchelokov. Moskva, Lesnaia promyshlennost', 1965. 282 p.  
(MIRA 18:12)

SHARKOV, V.I.; SAPOTNITSKIY, S.A.

Solve the problem in the best interests of the state. Sum. proc. 36  
no.2:9 F '61. (MIRA 14:2)

1. Direktor Nauchno-issledovatel'skogo instituta gidroliznoy i  
sul'fitno-spirtovoy promyshlennosti (for Sharkov). 2. Zaveduyushchiy  
laboratoriyey pereabotki sul'fitnykh shchëlokov Nauchno-issledovatel'-  
skogo instituta gidroliznoy i sul'fitno-spirtovoy promyshlennosti  
(for Sapotnitskiy).  
(Woodpulp) (Alcohol)

SHAMRAY, Ye.F. [Shamrai, I.E.F.]; KHIL'KO, O.K. [Khyl'ko, O.K.]; ~~SAPOTSINSKAYA,~~  
Ye.B. [Sapotsins'ka, I.E.B.]

Method of quantitative determination of nitrogen in organic  
compounds and tissues. Ukr. biokhim. zhur. 34 no.3:443-450  
'62. (MIRA 18:5)

1. Kafedra biokhimi Kiyevskogo meditsinskogo instituta.

SAPOV, Gennadiy Vasil'yevich, kand. ekon. nauk; KOGAN, Ye.L., red.

[Chemistry and public welfare] Khimia i narodnoe blagosostoianie. Moskva, Znanie, 1964. 39 p. (Novoe v zhizni, nauke, tekhnike. III Serii: Ekonomika, no.18)

(MIRA 17:9)

САПОВ, Л. И.

Military - Naval Medical Academy

SAPOV, I.A.

Reflex actions from proprioceptors to the heart. Report No.2:  
Modifications of cardiac functions following multiple application of  
static load [with summary in English]. Biul.eksp.biol.i med. 43 no.1:  
14-20 Ja '57. (MIRA 10:8)

1. Iz Voenno-morskoy meditsinskoy akademii, Leningrad. Predstavlena  
akademikom K.M.Bykovym,  
(HEART, physiology,  
eff. of conditioned static work load in dogs (Rus))  
(REFLEX, CONDITIONED,  
eff. of conditioned static work load on heart in dogs  
(Rus))

SAPOV, I.A.

Reflex action from proprioceptors on the heart; characteristics of some properties of proprioceptive conditioned reflex actions on the heart [with summary in English]. Biul. eksp. biol. i med. 44 no. 9: 19-23 S '57. (MIRA 10:12)

1. Iz Voenno-morskoy meditsinskoy akademii, Leningrad. Predstavlena akademikom K.M. Bykovym.

(REFLEX, CONDITIONED,

proprioceptive, eff. on heart (Rus))

(HEART, physiology,

eff. of proprioceptive conditioned reflexes (Rus))



SAPOV, I.A.

Effect on the heart of reflexes from proprioceptors; changes in conditioned reflexes produced following unconditioned effects on the heart from proprioceptors. [with summary in English].

Biul. eksp. biol. i med. 44 no. 11:3-8 #57 (MIRA 11:11)

(REFLEXES, CONDITIONED, RESPONSE

eff. of unconditioned eff. from proprioceptors on heart in dogs (Rus))

(HEART, physiology,

conditioned reflex after unconditioned eff. from proprioceptors on heart in dogs (Rus))

SAPOV, I.A.

Reflex effects from proprioceptors on the heart; some peculiarities of proprioceptive reflexes following resection of the posterior trunks of the spinal cord [with summary in English]. *Biul. eksp. biol. i med.* 44 no.12:8-12 D '57. (MIRA 11:4)

1. Iz kafedry normal'noy fiziologii Voenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova. Predstavlena akademikom K.M. Bykovym.

(HEART, physiology,  
eff. of spinal section on reflex funct. (Rus))  
(SPINAL CORD, physiology,  
eff. of section on heart reflex funct. (Rus))

~~SAPOV, I.A.~~; TYAGIN, N.V. (Leningrad)

Cervical novocaine block. Eksp. khir. 3 no.6:46 N-D '58. (MIRA 12:1)  
(NOVOCAINE) (~~NOCK~~---INNERVATION)

EXCERPTA MEDICA Sec 2 Vol 12/7 Physiology July 59

SAPOV I. A.

3019. CONDITIONED REFLEX REGULATION OF BLOOD PRESSURE (Russian text) - Sapov I. A. Dept. of Norm. Physiol., S.M. Kirov Order of Lenin Mil. Med. Acad., Leningrad - BYULL. EKSPER. BIOL. I MED. 1958, 46/10 (13-18) Graphs 2 Tables 1

- The conditioned reflexes formed on the basis of unconditioned changes of the blood pressure in stimulation of the proprioceptors with the aid of static load were studied in experiments on 3 dogs. It was demonstrated that the reflexes referred to are rapidly acquired, re-established and changed, but in comparison with this their extinction is slower. It is thus assumed that these conditioned reflexes provide the adjustment of function of the cardiovascular system to the constantly changing conditions of existence.

VOZHKOVA, A.I.; SAPOV, I.A. (Leningrad)

Methods for investigating physiological changes in the human body  
caused by noise. Gig. truda i prof. zab. 4 no.5:36-40 My '60.  
(MIRA 13:9)

(NOISE—PHYSIOLOGICAL EFFECT)

SAPOV, I.I.

Determining the capacities of railroad distribution tank farms in agricultural regions. Transp. i khran. nefti i nefteprod. no.5:29-33 '64. (MIRA 17:8)

1. Volgogradskaya proyektno-konstruktorskaya kontora.

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AI/00/794

amplitude of relative displacements and the greater the contrast of movements of adjacent zones, the greater is the possibility of strong earthquakes occurring. A necessary sign of a region's seismicity is disjunctive movements of the Quaternary. Even relatively insignificant movements attest to seismicity. The lines of a sub-crustal fault separating tectonic zones are relatively inactive, owing, perhaps, to the thickness of the weakened zones in which it is impossible for great stresses to build up. The most dangerous zones in the seismic sense are those areas where longitudinal and transverse structures intersect. The epicenters are distributed along the axis of the transverse arched uplifts, at their basements, and in places where faults intersect. Orig. art. has: 2 figures.

[CS]

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 032/

Cerd . 2/2

SIDOROV, L.P.; SAPOV, O.P.

Quaternary history of the relief of the Lake Yashil'kul' basin  
in the Pamirs. Izv. Vses. geog. ob-va 97 no.6:518-526 N-D '65.  
(MIRA 19:1)



SAPOV, P.

Duty and honor. NTO 5 no.2:6-8 F '63.

(MIRA 16|3)

1. Zamestitel' predsedatelya soveta pervichnoy organizatsii Nauchno-  
tekhnicheskogo obshchestva Rostovskogo zavoda sel'skokhozyaystvennogo  
mashinostroyeniya.

(Engineers)

KOHTOROV, B. K., SAPCOV, P.

"Fusing A Forming Tool," Stanki i Instrument, 10, No. 2, 1939

Report U-1505, 4 Oct 1951.

SAPOV, P. M., TRUNIN, N. P., KARASEV, Ya. F.

Laboratory Welding Instruments, Rost Agricultural Machine Works, -c1949-.

Engineer

"Electrosmelting of punching dies and woodworking tools," Avtogen. Delo, No. 2, 1949

SAPOV, P. M.

38067 SAPOV, P. M., SHAPIRO, A. A., and VALYAYEV, S. S.

Zavarka defektov chugunnykh detaley stal'nymi elektrodami so spetsial'noy.  
Sel'khoz mashina 1949, No. 12, S. 23-24

SAPOV, P. K. (Eng)

**Welding**

Conventional symbols for welding joints on drawings. Avtog delo 23, no 9 1952

Monthly List of Russian Accessions, Library of Congress, November 1952, **Unclassified**

6114\* Toward the Wider Use of Protection Welding. Shiro  
primeniati' svarku elektrozaklepkami. (Russian.) A. Z.  
Blishtein, P. M. Sapov, and B. Z. Feldman. Selkhozmaslina,  
1954, no. 12, Dec., pp. 2-25.

Determination of parameters; operation technique; strength of  
welds. Graphs, diagrams, tables, X-ray diffraction patterns.  
1 ref.

SOV/137-59-3-7040

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 301 (USSR)

AUTHORS: Lifshits, Ya. G., Sapov, P. M.

TITLE: Low-temperature Sulfidization and its Effect on the Durability of Cutting Tools and the Wear Resistance of Machine Parts (Nizkotemperaturnoye sul'fidirovaniye i yego vliyaniye na stoykost' instrumenta i iznosostoykost' detaley mashin)

PERIODICAL: Byul. tekhn.-ekon. inform. Sovnarkhoz Rostovsk. ekon. adm. r-na, 1958, Nr 4, pp 3-5

ABSTRACT: Two types of baths were developed by the Rostsel'mash [Rostov-na-Donu Agricultural Machinery Plant] for purposes of low-temperature sulfidization (S) of metal parts: 1) The Nr-26 thermochemical bath, which consists of three parts of hyposulfite and two parts of KCNS, operates at a temperature of 220-230°C, the exposure time being five hours; 2) the Nr-26 electrochemical bath involves the following procedures: One hour of lead priming in a solution of  $PbCO_3$  (162 g/liter) at a current density of 0.003 a/cm<sup>2</sup> followed by a one-hour period in a bath (current density: 0.003 a/cm<sup>2</sup>; temperature: 60-70°C) consisting of a hyposulfite solution (112 g/liter) and KCNS (28.6 g /

Card 1/2

SOV/137-59-3-7040

Low-temperature Sulfidization and its Effect on the Durability (cont.)

liter). Large-scale program of wear testing of components was carried out in laboratories, test stands, machine shops, and in the field. It was established that S enhances the process of wearing in of mated components and increases the durability of tools and machine parts operating at high pressures and under conditions of semilubricated friction (F) when sliding F is accompanied by rolling F (e.g., in dies for rolling of threads and in sprocket wheels of harvesters). In the case of sliding or abrasive F only (the teeth on the threshing drum of a harvester) or under conditions of cutting (screw taps, tangential threading dies) when a sulfur-bearing layer is separated in the course of wear, the S does not improve wear resistance.

A. S.

Card 2/2



SAPOV, P. M.

SOV/355-59-4-16/16

35 (1)

AUTHORS:

TITLE:

PERIODICAL:

ABSTRACT:

Alexandrov, P. K., Scientific Secretary, Pol'dava, B. Z.,  
 Chief Engineer of the Technical Department

The Krasny Sovarkhos Welders Discuss Welding Industry  
 Development. (Svarobchiki Krasovskogo sovarkhosa  
 obshchayut voprosy razvitiya svarobchnogo proizvodstva)

Svarobchnoye proizvodstvo, 1959, Nr 4, pp 44 - 45

Information is presented on welding conferences in the  
 Krasny oblast, since the beginning of the Soviet organiza-  
 tion of industry after the XXI Communist Party Congress.  
 There was a conference at the plant "Pospel'mash" in  
 September 1958 on general prospective development, with  
 reports by Engineer Kochanov, Engineer Mironov on  
 welding into production, "Svarobchiki" magazine, "Mecha-  
 nization of Assembly, Welding Work and Modernization  
 of the Plant's Equipment", Engineer Saizmov on "High-  
 Efficiency Electrodes and their Prospective Use at the  
 Plant". A conference was organized at the plant "Prodmash"  
 on the problem of using natural gas for cutting metals.

Card 1/6

with a demonstration of the process, which is extensively  
 used at other plants of the Krasny Sovarkhos system, a  
 conference at the Taganrog plant "Krasnyy kotel'shnik"  
 discussed the problems of electric slag welding and shielded  
 metal arc welding. It is mentioned that nearly all existing welding  
 processes are extensively used at all plants and construc-  
 tion projects in the Krasny oblast. Building plants. It  
 is explained that maximum automation and mechanization of  
 welding and the auxiliary processes is the task of the  
 scientific and practical workers and the welders themselves.  
 More detailed information is given on the conference of  
 December 1958, concerning technical development of welding  
 and the introduction of new welding techniques at the oblast  
 plants during 1958-1965, with 98 practical welding special-  
 ists and scientific workers participating. At this con-  
 ference, Engineer B. Z. Val'dman (Technical Department of  
 the Sovarkhos) spoke of the success achieved at the  
 "Krasnyy kotel'shnik" and the Taganrogskiy kombaynovy zavod  
 (Taganrog Combine Harvester Plant). There, the production

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of the self-propelled "SK-1" combine has been mastered, the  
 necessary welding equipment has been completed, and the  
 auxiliary operations mechanized. The plant "Krasnyy kotel-  
 shnik" is using natural gas instead of acetylene for  
 cutting, has mechanized 50% of the gas cutting work and is  
 using oxygen jets for the butt welding of pipes by the con-  
 tact-flash method (to intensify the welding process and re-  
 move the slag from inside pipes). The plant "Krasnyy  
 zavod" has had good results in using welding in CO2  
 shielded metal arc welding. The production of hydraulic systems for combine harvester  
 plants. The entire welding production is to be doubled  
 during the seven-year plan as compared with 1958, starting  
 by welding is to be increased by 2.5 times, the production  
 of electrodes by 6 times (the lack of good electrodes has  
 wire is presently causing great difficulty) film by 1.5  
 times, and the seams of mechanization by 2.2 times. The  
 use of contact welding will have to be increased 2.7  
 and welding in CO2 will also have to be used extensively.

Card 3/6

SOV/135-59-4-16/16

The Roster Sovmash Welders Discuss Welding Industry Development

Engineer V. P. Dzydenko, Candidate of Technical Sciences and Stalin Prize Laureate (plant "Krasnyy kotel'shchik") made a report "On the Application of New Steel Grades in the Production of Boilers, and on the Technology of Welding These Steels". His plant is starting the use of the electric slag welding process for steel "15H135F" and is studying the welding of austenitic and other steels and alloys. Engineer V. M. Krasnov (plant "Krasnyy kotel'shchik") and Engineer V. T. Kochka ("Kostel'mash") told of their plants experience in the repair of the body of Mechanizing and Automating Welding. Engineer V. I. Barent- ed reports on "General Experience with Welding of Carbon Dioxide at the Sovmash's Plants". Candidate of Techni- cal Sciences A. I. Zelenov of the Kostel' (Kostel' Institute of Machine Building) and Engineer P. M. Sidorov- Institute of Railroad Engines) and Engineer P. M. Sidorov- Chief of the "Kostel' and Central Plant Laboratory, made reports on "Extending the Volume of Coating Work, and Introducing Modern Methods of Restoring Parts and Tools".

Card 4/6

SOV/135-59-4-16/16

The Roster Sovmash Welders Discuss Welding Industry Development

Engineers V. I. Strota and I. I. Fomin delivered reports on "Development and Use of Stamped-Welded Designs to Replace the Cast and Forged, as a Way to Reduce the Weight of Machines". Chief Engineer of "Kostovozobrazheniye" V. I. Kharilovich, told the conference of the experience of the "Kostovozobrazheniye" in the repair and modernization of electric power plants, and of its work in improving existing and the creation of new equipment. Engineer V. I. Kharilovich reported on the production of welded joints in critical metal structures. Engineer V. I. Kharilovich of Kostovozobrazheniye reported on the production of electric locomotives. The conference followed the example of the Moscow welders and appealed to all special- ists of the Roster to work to fulfill their practical obligations in the mechanization of welding and the automa- tion of welding processes in mass production.

Card 5/6

SOV/135-59-4-16/16

The Roster Sovmash Welders Discuss Welding Industry Development

ASSOCIATION: Kostovozobrazheniye Roster Sovmash.

Card 6/6

SAPOV, P.M.

Factory laboratory promotes technical development.  
Mashinostroitel' no.2:24 F '60. (MIRA 13:5)

1. Nachal'nik Tsentral'noy laboratorii zavoda "Rostsel'mash."  
(Agricultural machinery---Technological innovations)

S/032/60/026/04/41/046  
B010/B006

AUTHOR: Sapov, P.M., Director

TITLE: On the Work of the Tsentral'naya laboratoriya zavoda "Rostsel'mash"  
(Central Laboratory of the Plant "Rostsel'mash")

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 4, pp. 507-508

TEXT: The work done at the central laboratory of the plant "Rostsel'mash" and new processes for the plant developed there are surveyed in detail. Thus investigations are being made at the shape foundry shop with a view to shortening the full annealing cycle of foundry cast iron in "Dresler" furnaces by admixtures of bismuth and boron (0.01-0.002%). Tests carried out by the Gor'kovskiy avtozavod (Gor'kiy Motor Vehicle Plant) are utilized for these investigations. Verification of laboratory tests under operating conditions proved that admixtures of bismuth and boron can reduce full annealing cycles from 53-60 h to 35-40 h. The welding shop of the central plant laboratory, in collaboration with the Moskovskiy institut "NIItraktorsel'khovmash" (Moscow Institute "NIItraktorsel'khovmash") developed a method of spot welding of hot-rolled steel sheet, which leads to a cost reduction.

Card 1/3

On the Work of the Tsentral'naya laboratoriya zavoda  
"Rostsel'mash" (Central Laboratory of the Plant  
"Rostsel'mash")

S/032/60/026/04/41/046  
B010/B006

Experiments to manufacture punched aluminum-alloy parts for combines are being carried out in collaboration between the last-mentioned institute and the Institut elektrosvariki im. Patona (Institute of Electric Welding imeni Paton). A question which has yet to be solved is the jointing of iron metal and aluminum. The central plant laboratory together with the OGT, SKB of the plant, and the Institut RISKhM (Rostovskiy institut sel'skokhozyaystvennogo mashinostroyeniya (Rostov Institute of Agricultural Machine Construction)) have worked out a test program for the substitution of plastic parts for 56 parts of the SK-3 machine.<sup>3</sup> Thirty-one combines of the type SK-3 with 29 plastic parts (made of Capron and powder-metallurgical materials) have already been manufactured by the cooperative work of the central plant laboratory and the pilot plant. The Solnechnogorskaya tsentral'naya "MIS" (Solnechnogorsk Central "MIS") recommends the introduction of powder-metallurgical materials and plastics. The plastic material prepared from 50% phenol-formaldehyde resin and 50% sawdust prepared at the central plant laboratory proved to be better than the phenol-aldehyde plastics prepared according to GOST 5689-51. The central plant laboratory, in collaboration with the kafedra teorii mekhanizmov i mashin RISKhM (Chair of Theory of Mechanisms and Machinery of the RISKhM) has overcome the first stage of experimental work on

Card 2/3

On the Work of the Tsentral'naya laboratoriya zavoda  
"Rostsel'mash" (Central Laboratory of the Plant  
"Rostsel'mash")

S/032/60/026/04/41/046  
B010/B006

the application of powder-metallurgical- and Capron parts in combines. Tests  
showed that alone the substitution of powder-metallurgical casings for 13  
ball bearings No. 60024 in the SK-3 machine leads to a production saving of  
4 million rubles.

ASSOCIATION: Tsentral'naya laboratoriya zavoda "Rostsel'mash" (Central Laboratory  
of the Plant "Rostsel'mash")

Card 3/3

SAPOV, P.M.

Organizing the work of factory laboratories. Zav.lab. 26 no.5:  
643-645 '60. (MIRA 13:7)

1. Nachal'nik Tsentral'noy laboratorii zavoda "Rostsel'mash".  
(Testing laboratories)

LIFSHITS, Ya.G., kand.tekhn.nauk; KRISCHIK, V.S., inzh.; SAPOV, P.M.;  
TIRATSUYAN, A.V.

Using powder-metal bearings for the SK-3 combine. Trakt. i sel'-  
khoz mash. 30 no.9:29-31 S '60. (MIRA 13:9)

1. Rostovskiy n/Donu Institut sel'khoz masheniya (for Lifshits, Kreshchik)
2. Rostsel'mash (for Sapov, Tiratsuyan).  
(Combines (Agricultural machinery)) (Bearings (Machinery))



DYURGEROV, N.G., inzh.; ISHCHEKNO, Yu.L., inzh.; ZOLOTYKH, V.T., kand.  
tekhn.nauk; SAPOV, P.M., inzh.; GRIGOR'YEV, G.G., inzh.; ZHIDKOV,  
A.I., inzh.; BARILOV, O.A., inzh.

Multiple-operator automatic welding under flux without ballast  
rheostats. Svar. proizvod. no.4:40 Ap '63. (MIRA 16:5)

1. Rostovskiy-na-Donu institut sel'skokhozyaystvennogo  
mashinostroyeniya (for Dyurgerov, Ishchenko). 2. Rostovskiy zavod  
sel'skokhozyaystvennogo mashinostroyeniya (for Sapov, Barilov,  
Grigor'yev, Zhidkov).

(Electric welding--Equipment and supplies)

BUDNIK, N.M., kand. tekhn. nauk; SHEVCHENKO, A.A., inzh.; DYURGEROV, N.G.;  
SAPOV, P.M., inzh.; BARILOV, O.A.; NAKHIMOVICH, E.I.

Reconditioning shafts by build-up welding with a short arc.  
Trakt. i sel'khoz mash. no.9:43 S '64.

(MIRA 17:11)

1. Rostovskiy-na-Donu institut sel'skokhozyaystvennogo mashino-  
stroyeniya (for Dyurgerov). 2. Rostovskiy zavod sel'skokhozyayst-  
vennogo mashinostroyeniya (for Nakhimovich).

RYLOV, L.A., inzh.; BUDNIK, N.M., kand. tekhn. nauk; SAPOV, P.M., inzh.;  
NEGODAYEV, V.A., inzh.

Characteristics of the resistance welding of phosphated steel.  
Trakt. i sel'khoz mash. no.11:41-43 N '65. (MIRA 18:12)

1. Rostovskiy institut sel'skokhozyaystvennogo mashinostroyeniya  
(for Rylov, Budnik). 2. Rostovskiy zavod sel'skokhozyaystvennogo  
mashinostroyeniya (for Sapov, Negodayev).

L 07429-57 EWP(k)/EWT(d)/EWP(h)/EWP(l)/EWP(v)  
ACC NR: AP6030273 (N) SOURCE CODE: UR/0125/66/000/008/0050/0053

4  
36  
B

AUTHOR: Gufan, R. M.; Zolotykh, V. T.; Budnik, N. M.; Martinovich, V. V.; Gur'yev, K. S.; Sapov, P. M.; Barilov, O. A.; Fel'dman, B. Z.

ORG: [Gufan, Zolotykh, Budnik, Martinovich] Rostov-na-Donu Institute of Agricultural Machine Building (Rostovskiy-na-Donu institut sel'khoz mashinostroyeniya); [Gur'yev] Taganrog Electrical Equipment Plant (Taganrogskiy zavod elektrotekhnicheskogo oborudovaniya); [Sapov, Barilov, Fel'dman] "Rostsel'mash" Plant (Zavod "Rostsel'mash")

TITLE: The ISO universal welding oscillator

SOURCE: Avtomaticheskaya svarka, no. 8, 1966, 50-53

TOPIC TAGS: welding, hf oscillator, spark ignition, automatic welding, WELDING  
EQUIPMENT COMPONENT

ABSTRACT: The authors describe the new ISO spark welding oscillator developed on the basis of an experimental investigation of the operation of various types of oscillators. This is a general-purpose unit, i. e. it may be used both as a series and as a parallel oscillator. The unit should be connected in series for welding currents which do not exceed the value given in the specifications and in parallel for higher currents. The hot side of the power line is fused and the unit has a line filter, step-up power transformer with limiting resistors, spark oscillator circuit, high-frequency output transformer and output capacitor. A schematic diagram and photographs

UDC: 621.791.03:621.3.072

Card 1/2

L 07429-67

ACC NRI AP6030273

of the unit are given and the operating principle is described. The unit requires a 220 vac power supply at 50 cps. The oscillator consumes less than 75 w with a power transformer secondary voltage of 2300 v. The minimum hf open-circuit voltage is 5 kv and the maximum continuous welding current with series connection is 350 a. The overall dimensions of the instrument are 310x280x165 mm and the entire unit weighs less than 15 kg. A comparison with the OSTsN-2M oscillator shows that the ISO unit generates much less radio interference. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 13, 09/ SUBM DATE: 22Mar66/ ORIG REF: 001

Card 2/2

SAPOV, V.S.; LEVITSKIY, Yu.L.

Modernization of automatic voltage control networks of  
rectifying systems. Avtom., telem. i svyaz' 9 no.11:37-38  
N '65. (MIRA 18:12)

1. Starshiy inzh. Ufimskoy distantzii Kuybyshevskoy dorogi  
(for Sapov). 2. Starshiy inzh. laboratorii svyazi Kuybyshev-  
skoy dorogi (for Levitskiy).

SAPOVSKIY, B., mayor

Improve the effectiveness of fire; from the experience of firing  
on moving targets with the help of a radiolocation station.

Voen. vest. 42 no.10:74-75 0 '62.

(MIRA 15:10)

(Radar, Military) (Target practice)

SAPOZHENKO, Yu.F.; SOKOLOV, V.

Winter ornithofauna of Repetek. Ornitologia no.4:194-199 '62.  
(MIRA 16:4)  
(Repetek region—Birds)



SAPOZHENKOV, Yu.F.

Mass destruction and burial of animals in petroleum. Izv. AN Turk,  
SSR no.5:98-100 '58. (MIRA 11:12)

1.Repetekskaya peschano-pustynnaya stantsiya.  
(Repetek Desert Preserve--Zoology)

SAPOZHENKOV, Yu.F.

Winter activities of reptiles in the eastern Kara Kum. Izv. AN  
Turk. SSR no.5:89-91 '59. (MIRA 13:3)

1.Repetekskaya peschano-pustynnaya stantsiya.  
(Repetek Reserve--Reptiles)

SOKOLOV, V.Ye.; SAPOZHENKOV, Yu.F.

Winter fauna in the environs of Repetek (southeastern Kara Kun).  
Vest. Mosk. un. Ser. 6: Biol, pochv. 15 no. 5:9-19 8-0 '60.  
(MIRA 13:12)

1. Kafedra zoologii pozvonochnykh Moskovskogo universiteta.  
(Repetek region--Zoology)

SAPOZHENKOV, Yu.F.

Fox (*Vulpes vulpes* L.) farming in Turkmenistan. Izv. AN Turk.SSR.  
Ser. biol. nauk no.6:90-92 '61. (MIRA 15:1)

1. Repetekskaya peshano-pustynnaya stantsiya AN Turkmenskoy SSR.  
(TURKMENISTAN FOXES)

SAPOZHENKOV, Yu.F.

Distribution of the caracal (*Felis caracal* Schr.) in Turkmenia.  
Zool. zhur. 40 no. 2:295-297 F '61. (MIKA 14:2)

1. Repetek Sand-Desert Station and Repetek State Preserve  
(Turkmenian S.S.R.).  
(Turkmenistan—Lynx)

SAPOZHENKOV, Yu.F.

Distribution and ecology of *Felis margarita* in eastern Turkmenistan.  
Zool.zhur. 40 no.7:1086-1089 J1 '61. (MIRA 14:7)

1. Repetek Sand Desert Station and State Preserve of the Academy  
of Sciences of the Turkmenia S.S.R.  
(Turkmenistan—Cats)

SAPOZHENKOV, Yu.F.

Ecology of the African wild cat (*Felis lybica* Forst.) in the  
eastern Kara Kum. Zool. zhur. 40 no.10:1585-1586 0 '61.  
(MIRA 14:9)

1. Sand-Desert Station of Repetek and State Game Preserve of the  
Academy of Sciences of the Turkmen S.S.R.  
(Repetek region--Cats)

SAPOZHENKOV, Yu.F.

Ecology of the caracal (*Felis caracal* Mull.) in the Kara Kum.  
Zool.zhur. 41 no.7:1111-1112 J1 '62. (MIRA 15:11)

1. Chair of Vertebrates Zoology, Moscow University.  
(Kara Kum--Cats)



SAPOZHENKOV, Yu.F.

Ecology of mynah in the Repetek region. Ornitologiya no.5:  
177-182 '62. (MIRA 16:2)  
(Repetek region—Mynahs)

SAPOZHENKOV, Yu.F.

Ecology of the hare *Lepus tolai* Pall. in the sandy Karakum. Zool.  
zhur. 43 no.9:1382-1387 '64. (MIRA 17:11)

1. Kafedra zoologii pozvonochnykh Moskovskogo gosudarstvennogo  
universiteta.

L 2028-66 EWT(1)/EWA(j)/EWA(b)-2 JK

ACC NR: AP5023650

UR/0296/65/000/004/0091/0092

44.3  
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B

AUTHOR: Afanas'yeva, O. V.; Sapozhenkov, Yu. P.

TITLE: Data on ixodic ticks (parasitiformes, Ixodidae) of Tolai hares in Turkmenia

SOURCE: AN TurkmSSR. Izvestiya. Seriya biologicheskikh nauk, no. 4, 1965, 91-92

TOPIC TAGS: animal parasite, brucellosis, tularemia, epidemiology

ABSTRACT: The Tolai hare is found in great numbers in all parts of Turkmenia and plays an important role in spreading various ectoparasites because of its high mobility and frequent contacts with wild animals and man. In 1958-60 the authors investigated 645 Tolai hares in the Repetek Rayon (Eastern Kara-Kum) for ixodic ticks. Though literature data show that the area contains some 21 ixodic tick species, the authors isolated only 8 of these species (Rhipicephalus pumilio, R. leporis, R. turanicus, R. Schulzei, R. bursa, Hyalomma asiaticum, H. anatolicum, H. plumbeum) and one argasidic tick (Ornithodoros sp.). Tolai hares bearing ixodic ticks were found throughout the year except in December, with the lowest numbers found in January, February and November and the highest in June. The number of ticks isolated from animals was also lowest in January, February and November and highest in June, with none isolated in Decem-

Card 1/2

L 2028-66

ACC NR: AP5023650

ber. Only 5 Ornithodoros sp. nymphs were isolated from the 645 animals, evidently because argasidic ticks are known to remain on a host for a very short period. Orig. art. has: 1 table. 3

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: 20Feb64

ENCL: 00

SUB CODE: LS

NR REF SOV: 003

OTHER: 000

Card 2/2

SALIM HANCOU, Ph.D.

Reproduction of animals in the sandy desert of the Karakum. Zool.  
zhurn. 12 no. 6: 976-981. '85.

(MIRA 18:10)

1. Kafedra zoologii i ornitologii Mskovskogo gosudarstvennogo  
universiteta.

SAPOZHENKOV, Yu.F.

Ecology of the sand marmot *Spermophilopsis leptodactylus*  
*leptodactylus* Licht. in the sandy Kara Kum. Zool.zhur. 44  
no.10:1553-1557 '65. (MIRA 18:11)

1. Kostromskoy pedagogicheskiy institut.

SAPOZHENKOV, Yu.F.

Zoogeographical characteristics of psammophilous mammals in  
the sandy desert of the Kara Kum. Zool.zhur. 44 no.11:1701-  
1705 '65. (MIRA 18:12)

1. Kafedra zoologii Kostromskogo pedagogicheskogo instituta.

ACC NR: AP7001000 (A,N) SOURCE CODE: UR/0439/65/044/011/1701/1705

AUTHOR: Sapozhenkov, Yu. F.

ORG: Department of Zoology, Kostroma Pedagogical Institute (Kafedra zoologii Kostromskogo pedagogicheskogo instituta)

TITLE: Zoogeographical peculiarities of psammophiloos mammals of the Kara-Kum desert

SOURCE: Zoologicheskii zhurnal, v. 44, no. 11, 1965, 1701-1705

TOPIC TAGS: zoogeography, mammal, biologic ecology, ~~desert~~ ANIMAL  
PHYSIOLOGY / KARA KUM DESERT

ABSTRACT: The majority of mammals of the Kara-Kum desert consists of specialized desert-dwelling species which are widely distributed in North Africa and Central Asia. A zoogeographical survey shows the small mammalian species to be descended from Turan desert types. Gerbils were the most prevalent species. Thirty-six other species were also classified according to habitat and many adaptations to desert life were observed.

[WA-50; CBE No. 14]  
[LP]

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 010

Card 1/1

UDC: 599(252):591.9+591.5



SAPOZHNIKOV, G.D.

Large tectonic zone in the Dzheshkazgan-Ulutau region. Trudy Inst.  
geol.nauk no.101:125-131 '48. (MIRA 9:12)  
(Dzheshkazgan-Ulutau region—Geology, Structural)

SAPOZHINOV, A. B.

Sapozhinov, A. B. "A defective field in the form of an elliptic cylinder in a limitless medium," Trudy Sib. fiz.-tekh. in-ta, Issue 26, 1948, p. 175-82

SO: U-5241, 17 December 1953, (Letopis 'Zhurnal 'nykh Statey No. 26, 1949)

SAPozHINOV, A. B.

Sapozhinov, A. B. "Fields of dispersion from hidden defects with small disclosure," Trudy Sib. fiz.-tekhn. in-ta, Issue 26, 1948, p. 189-94

SO: U-5241, 17 December 1953, (Letopis 'Zhurnal 'nykh Statey, No. 26, 1949)

SAPCZHKOVA, A.A., brigadir zemsnyaya

Our suction dredge operates in winter. Transp. stroi. 15  
no.11:34 N '65. (MIRA 18:11)

1. Trest Transgidromekhanizatsiya.

NOVIKOV, N.I.; SAPOZHKOVA, A.I.

Noncontact optical devices for measuring diameters of large  
parts. Izv tekh. no.9:8-9 S '61. (MIRA 14:8)  
(Optical instruments)

MAKAREVICH, B.K., kand.tekhn.nauk; ~~NOVIKOV~~, N.I., inzh.; PELIKS, A.Ya.,  
inzh.; ABRAMZON, E.L., inzh.; SAPOZHKOVA, A.I., inzh.

Device for automatic measurement of diameters of parts machined  
on lathes. Vest.mash. 42 no.4:73-77 Ap '62. (MIRA 1584)  
(Lathes) (Electronic measurements)

*SAPozHKOV, A.I.*

S/122/62/000/004/005/006  
D221/D302

AUTHORS: Makarevich, B.K., Candidate of Technical Sciences,  
Novikov, N.I., Peliks, A.Ya., Abramzon, E.L., and  
Sapozhkov, A.I., Engineers

TITLE: A device for automatic measurement of diameters on  
lathes

PERIODICAL: Vestnik mashinostroyeniya, no. 4, 1962, 73 - 77

TEXT: The investigations of ENIMS revealed that over 25 % of the  
auxiliary time is taken up by measurements. The device designed by  
TsNIITMASH uses a burnishing roller with an inductive transducer  
and a contactless revolution counter for the automatic measurement  
of components during their machining on lathes. This principle does  
not require additional setting when changing from one diameter to  
another. The rotor and stator are toothed, and the inductivity of  
the coil varies with the relative change of position between the  
teeth and cavities of the former. The shaft of the unit carries a  
wheel, which is brought into contact with the workpiece, so that  
their ratio determines the speed of rotation of the rotor. The out-  
Card 1/2

A device for automatic measurement ... S/122/62/000/004/005/006  
D221/D302

put of the transducer forms a sine wave counted by an electronic device. The linear expression of the pulse is  $A = d/mz$ , where  $d$  is the diameter of the burnishing roller in mm,  $m$  is the r.p.m. of the workpiece and  $z$  is the number of pulses per one revolution of the roller. The experiments at various speeds of turning indicate that stable results are ensured with a pressure of 70 - 80 kg. The effect of surface finish on the accuracy of measurements is shown by deviations  $\leq 0.03 - 0.04$  mm. Random errors follow the Gaussian distribution. The transducer is connected to a bridge. The electronic circuit is described and illustrated, together with the transducer. The authors analyze the various errors which arise in the arrangement and indicate the total error without considering inaccuracies due to temperature. The device allows a 60 - 80 % reduction of the auxiliary time to be achieved. Use of the indicated pressure of the roller against the workpiece demonstrates a negligibly small slip, and thus has no effect on the readings. There are 8 figures and 4 Soviet-bloc references.

Card 2/2



SAPOZHKOV, A.V.

Effect of noradrenaline on collateral coronary circulation. Biul.  
eksp. biol. i med. 58 no.8:72-74 Ag '64.

(MIRA 18:3)

1. Kafedra farmakologii (zav. - dotsent V.V. Gatsura) Kemerovskogo  
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count, the pear grafts flowered and bore  
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