

22945

S/125/61/000/007/001/013  
DC40/D112

Resistance welding ....

Tubes from carbon and stainless steel were welded in the experiments, all 38 mm in diameter and with 2 mm-thick walls. The welding speed reached with stainless steel tubes was 27 m/min. The lower speed reached with carbon steel, 22 m/min, is explained by the difference between the physical properties of the steels, and the three times higher resistance of the carbon steel. Tests of tubes welded by this method showed they had the same properties as seamless tubes. The corrosion resistance of joints of tubes welded by radio-frequency current was higher than that of welds produced by an argon-shielded arc. It was found that intense sparking was not necessary for obtaining joints with a strength equal to that of the base metal. It was obvious that the advantage of the method is higher with smaller carbon steel tube diameters, and it is recommended to determine by trial the proper maximum tube diameter up to which the application of this method is economically justified. The new technology includes removal of the burr on the tube inside by an oxygen jet immediately after upsetting of the tube between the rolls, when the burr is still hot. The design of one of the first oxygen nozzles is shown (Fig.5). The oxygen jet out of the nozzle slit is thin and wide, and is directed across the burr. The burr was removed fully

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Resistance welding ....

and continually at welding speed. The tube surface at the seam was sufficiently smooth and the remainders of the burr did not exceed the tolerance of tube wall thickness. Slag blown off the seam by the jet could be separated easily from the walls by knocking on the outside of the tube. One "10-60" argon arc welding stand at Nikopol'skiy Yuzhnotrubnyy zavod (South Tube Plant in Nikopol') has been re-equipped for induction welding with a 200 kw ЛЗ-207 (LZ-207) tube generator. A strong water jet was used to protect the ferrite core from metal sputter. There are 5 figures and 5 references: 2 Soviet-bloc and 3 non-Soviet-bloc. The two references to English-language publications read as follows: W.C.Rudd, High Frequency Resistance Welding, "Welding Journal", No.7, 1957; L.A.Jonston, F.G.Trotter, G.F. Brassart, Performance Record of the Thermatool High Frequency Resistance Welding Process, "British Welding Journal", No.4, 1960.

ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN USSR (Electric Welding Institute "Order of the Red Banner of Labor" im. Ye.O.Paton AS UkrSSR)

SUBMITTED: March 9, 1961.

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Resistance welding ....

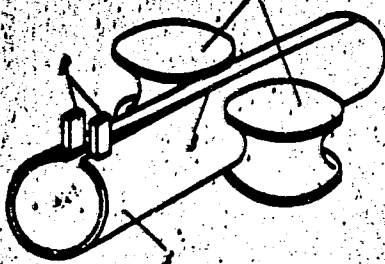


Fig.1. Welding with contacts:  
1 - tube; 2 - contacts;  
3 - closing point between the  
edges; 4 - compressing rolls.

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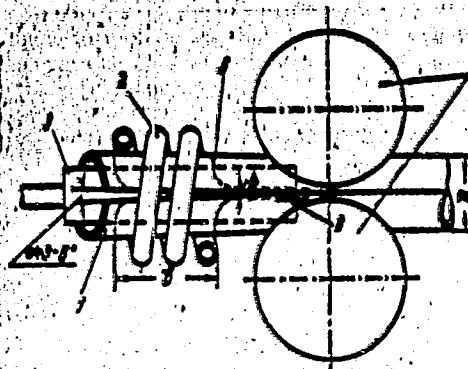


Fig.2. Welding with induction coil:  
1 - tube; 2 - induction coil;  
3 - magnetic core; 4 - compressing  
rolls; 5 - the way of electric  
current; 6 - the zone of melting.

Resistance welding .....

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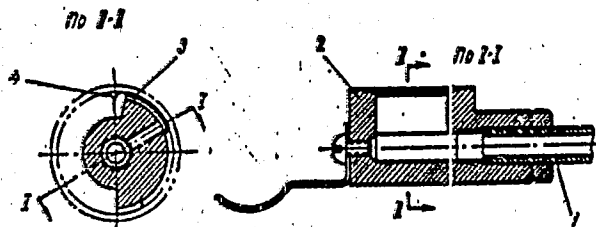


Fig.5. Burr removing nozzle:  
1 - guide pipe; 2 - nozzle casing;  
3 - nozzle; 4 - burr.

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PESKOVATSKIY, S.A. [Pieskovats'kyi, S.A.]; CHERNETS, A.N. [Chernets', A.N.];  
POSTOGVARD, G.I. [Postohvard, H.I.]; SHEINA, T.G. [Sheina, T.H.];  
OLEYNIK, I.N. [Oliinyk, I.M.]

Growing lanthanum ethyl sulfate single crystals with gadolinium  
and cerium ethyl sulfate impurities and their physical  
properties. Ukr.fiz.zhur. 7 no.1:22-30 Ja '62. (MIRA 15:11)

1. Institut radiofiziki i elektroniki AN UkrSSR, Khar'kov.  
(Crystals—Growth)  
(Ethanol)

OLEYNIK, I.P., kandidat ekonomicheskikh nauk.

Electric power industry of the Rumanian People's Republic.  
Elektrichestvo no.11:86-88 N '56. (MLRA 9:12)

1. Institut ekonomiki Akademii nauk SSSR.  
(Rumania--Electric power)

OLEYNIK, I.P.

Chemical industries in Rumania. Biul.tekh.-ekon.inform. no.10:  
82-85 ' 58. (MIRA 11:12)  
(Rumania--Chemical industries)

LYUTIN, L.V.; BURDYN', T.A.; KUZ'MENSKOVA, O.M.; OLEYNIK, I.P.

Preparing fracturing fluids and studying their physicochemical  
properties. Trudy VNI no.16:128-156 '58. (MIRA 11:12)  
(Oil wells--Hydraulic fracturing)



YAN TSZYAN'-BEY [Yang Chien-peil]; STARODUBROVSKAYA, V.N.; KONOVALOV,  
Ye.A.; GUAN' DA-TUN [Kuan Ta-t'ung]; OLEYNIK, I.P.; SEMENOVA,  
L.S.; KHE LI [He Li]; CHEZHAN SY-TSYAN' [Chang SSI-ch'ien];  
VOINOV, A.M.; SHIRYAYEV, S.L.; KURAKIN, V.A.; STUPOV, A.D., red.;  
KANZVSKAYA, T.M., red.; GERASIMOVA, Ye.S., tekhn.red.

[Economy of the Chinese People's Republic, 1949-1959] Ekonomika  
Kitaiskoi Narodnoi Respubliki, 1949-1959. Moskva, Gosplanizdat,  
1959. 304 p. (MIRA 13:5)

1. Zavednyushchiy sektorom ekonomiki stran narodnoy demokratii  
Instituta ekonomiki AN SSSR (for Stupov).  
(China--Economic conditions)

OLBYNIK, I.P.; GERTSOVICH, G.B., kand.ekon.nauk, red.; SAVEL'YEV, V.I.,  
red.; STREL'TSOVA, A., red.; DENISOVA, L., red.; TIMOKHIN, I.,  
tekhn.red.

[Development of Rumanian industry under the system of a people's  
democracy] Razvitie promyshlennosti Rumynii v usloviakh  
narodno-demokraticheskogo stroia. Moskva, Proizvodstvenno-izda-  
tel'skii kombinat VINITI, 1959. 441 p. (MIRA 12:10)  
(Rumania--Industries)

VASIL'TSOV, V.D.; VOLCHENKO, M.Ya.; GERTSOVICH, G.B., kand.ekon. nauk;  
ZHARKOV, Ye.I.; KONOVALOV, Ye.A., kand. ekon. nauk; MATVIYEVSKAYA,  
E.D.; OLEYNIK, I.P., kand. ekon. nauk; RAYEVSKAYA, E.S.,;  
SKVORTSOVA, A.I.; SOKOLOVA, N.V.; SOTNIKOVA, I.A.; TANDIT, V.S.;  
TRIGUBENKO, M.Ye.; FIRSOVA, Yu.V.; SHABUNINA, V.I.; YUMIN, M.N.;  
STOROZHEV, V.I., kand. istor. nauk, red.; LEPNIKOVA, Ye., red.;  
SIRNOV, G., tekhn. red.

[Economy of the people's democracies in figures for 1960] Ekono-  
mika stran sotsialisticheskogo lageria v tsifrakh 1960 g. Pod  
red. G.B.Gertsovicha, I.P.Oleinika, V.I.Storozheva. Moskva, izd-  
vo sotsial'no-ekon. lit-ry, 1961. 238 p. (MIRA 15:4)  
(Communist countries--Economic conditions)

OLEYNIK, I.P., kand. ekon. nauk, nauchn. sotr.; VOINOV, A.M., nauchn. sotr.; SEMENOV, I.I., nauchn. sotr.; PLAKSIN, S.V., nauchn. sotr.; KACHALOV, I.P., nauchn. sotr.; SEMENOVA, L.S., nauchn. sotr.; STOROZHEV, I.V., nauchn. sotr.; GERTSOVICH, G.B., nauchn. sotr.; SERGEYEV, V.P., nauchn. sotr.; ALIKHODZHICH, A., nauchn. sotr.; LISOV, V.Ye., red.; NIKOLAYEV, D.N., red.; PONOMAREVA, A.A., tekhn. red.

[International socialist division of labor] Sotsialisticheskoe mezhdunarodnoe razdelenie truda. Pod red. I.P.Oleinika. Moskva, Izd-vo ekon. lit-ry, 1961. 350 p. (MIRA 14:11)

1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsialisticheskoy sistemy. 2. Institut ekonomiki mirovoy sotsialisticheskoy sistemy AN SSSR (for all except Lisov, Nikolayev, Ponomareva). (Communist countries--Division of labor)

OLEYNIK, Ivan Prokof'yevich, doktor ekon. nauk; NIKOLAYEV, D.N., red.;  
PONOMAREVA, A.A., tekhn. red.

[The victory of socialism in Rumania] Pobeda sotsializma v  
Rumynii. Moskva, Ekonomizdat, 1962. 215 p. (MIRA 16:2)  
(Rumania--Economic conditions)

SOROKIN, G.M.; OLEYNIK, I.P., doktor ekon. nauk; RYABUSHKIN, T.V., doktor ekon. nauk; DUDINSKIY, I.V., kand. ekon. nauk; MIROSHNICHENKO, B.P., kand. ekon.nauk; SERGEYEV, V.P., kand. ekon. nauk; TARNOVSKIY, G.I., kand. ekon. nauk; STOROZHEV, V.I., kand. ist. nauk; KONOVALOV, Ye.A., kand. ekon. nauk; GERTSOVICH, G.B., kand. ekon. nauk; POPOV, K.I., kand. ekon. nauk, red.; ZEVIN, L.Z., red.; NIKOLAYEV, D.N., red.; PAK, G.V., red.; GERASIMOVA, Ye.S., tekhn. red.

[The building of communism in the U.S.S.R. and cooperation among the socialist countries] Stroitel'stvo kommunizma v SSSR i sotrudnichestvo sotsialisticheskikh stran. Pod obshehei red. G.M.Sorokina. Moskva, Ekonomizdat, 1962. 334 p. (MIRA 16:2)

1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsialisticheskoy sistemy. 2. Chlen-korrespondent Akademii nauk SSSR (for Sorokin).

(Communist countries--Foreign economic relations)

LYUTIN, L.V.; OLEYNIK, I.P.

Adsorption of asphaltanes by quartz. Nauch.-tekhn. sbor. po  
dob. nef'ti no.16:78-81 '62. (MIRA 15:9)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.  
(Asphaltanes) (Adsorption) (Quartz)

LYUTIN, L.V.; ABEZGAUZ, I.M.; BURDYN', T.A.; MAILYANTS', N.V.; OLEYNIK, I.P.

Studying the effect of asphaltenes on the processes taking place  
in oil and water flow through a porous medium. Trudy VNI  
no.37:300-337 '62. (MIRA 16:6)  
(Asphaltenes) (Fluid dynamics)



LYUTIN, L.V.; BURDYN<sup>1</sup>, T.A.; OLECHNIK, I.P.; TRONHINA, Z.I.

Effect of surfactants on the flooding of oil from a porous medium.  
Nauch.-tekh. sbor. po dob. nefiti no.24:150-153 '64. (MIRA 17:10)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.

COUNTRY : USSR  
CATEGORY : Cultivated Plants. General Problems. M  
ABS. JOUR. : RZhBiol., No. 3, 1959, No. 10659  
AUTHOR : Lavrenko, A. T., Sova, M. S., Oleynik, K. I., Zhumatly,\*  
INST. : Odessa Agricultural Institute.  
TITLE : Reports on Production Experiments (in a Number of Kolkhozes of Odessa, Zaporozhskaya, Nikolayevskaya, Kirovogradskaya, Zakarpatskaya and Cherkasskaya Oblasts).  
ORIG. PUB. : Tr. Odesk. s.-kh. in-ta, 1958, 13, 137-145.  
ABSTRACT : No abstract.

CARD: 1/1

\*) P. I., Kryuk, L. A., Berdnik, I. V., Osak, V. P.,  
Prokopenko, M. I., Dmitrenko, Ye. A.

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S/123/59/000/010/010/C68  
A004/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1959, No. 10, p. 74, # 37741

AUTHORS: Oleynik, K.N., Kizim, Ye.M.

TITLE: The Application of Caprone Bushings

PERIODICAL: Tekhn.-ekon. byul. Sovnarkhoz Zaporozhsk. ekon. adm. r-na, 1958, No. 2, pp. 37-39 ✓

TEXT: The production of caprone bushings has been organized at the "Kom-munar" Plant. They are used, instead of bronze ones, for the flywheels of K-115 A eccentric presses of 50-ton capacity. The caprone bushings need not be replaced during a period of approximately 4 months.

M.A.G.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

USSR / Zooparasitology - Mites and Insects as Disease Vectors. G-3

Abs Jour : Ref Zhur - Biol., No 18, 1958, No. 81787

Author : Darskaya, N. F.; Olaynik, K. R.  
Inst : Scient.-Res. Antiplague Inst. of Caucasus and Trans-caucasus

Title : *Leptopsylla putoraki* - A Flea of the Mottle Putorakus

Orig Pub : Tr. N.-I. protivochumm. in-ta Kavkaza i Zakavkazya, 1956, No 1, 119-124

Abstract : *L. putoraki* - a flea of the mottled putorakus (shrew) inhabiting deserts of Kazakhstan and Middle Asia. This rare flea species was formerly described by I. F. Ioffe on the basis of one female. The authors for the first time obtained 3 males and 2 females of *L. putoraki*. The morphologically related species of *L. sexdentata* parasitizes, as most representatives of genus *Leptopsylla*, on rodents (evidently, a parasite of the house mouse).

Card 1/2

OLEYNIK, L.A., fel'dsher

Role of Subprofessional medical personnel in the transportation of patients. Med.sestra 21 no.8:46 Ag '62. (MIRA 15:9)

1. Leningradskaya stantsiya skoroy pomoshchi.  
(TRANSPORT OF SICK AND WOUNDED)

1. OLEYNIK, L. F.
2. USSR (600)
4. Viticulture
7. Pinching back short ends of the Bayan Shirey variety. Vin. SSSR 13, No. 5, 1953.

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

MARTAKOV, A.A.; OLEYNIK, L.F.

Testing grape varieties in Chilik District of Alma-Ata Province.  
Trudy VNIIViy "Magarach" 8:281-292 '59. (MIRA 14:1)  
(Chilik District--Grapes--Varieties)

YEGOROVA, N.S., kand.med.nauk; OLEYNIK, L.I.

Secondary diseases in chicken pox. *Pediatrila* 38 no.12:63 '60.  
(MIRA 14:2)

1. Iz detskogo revmaticheskogo otdeleniya sanatoriya "Podmoskov'ye)  
(glavnyy vrach M.N. Chiknaverov).  
(CHICKEN POX) (RHEUMATIC FEVER)



KATAYEV, G.A.; ZAKHAROVA, E.A.; OLEYNIK, L.I.

Determination of copper and lead microimpurities in arsenic and  
gallium arsenide. Metod. anal. khim. reak. i prepar. no.5/6:102-  
104, '63. (MIRA 17:9)

1. Tomskiy politekhnicheskyy institut.

BRILING, N.S.; LEVACHEVA, I.I.; ZASOV, V.D., nauchn. red.; OLEYNIK,  
L.K., red.

[Detailing structural units] Detalirovanie uzla stroitel'-  
noi konstruktsii. [n.p.] Resvuzizdat, 1963. 23 p.  
(MIRA 17:7)

RUDENSKAYA, I.M.; SHESTOPEROVA, S.V., prof., red.; OLEJNIK, I.K.,  
red.

[Petroleum bitumens; chemical composition, colloidal  
structure, and production methods] Neftianye bitumy; kbi-  
micheskii sostav, kolloidnaya struktura, svoistva i spe-  
soby proizvodstva. Moskva, Kosvuzizdat, 1963. 40 p.  
(MIRA 17:5)

TRESKINSKIY, S.A.; OLEYNIK, L.K., red.

[Special features in designing roads] Osobyie sluchai  
proektirovaniia dorog. Moskva, Rosvuzizdat, 1963. 59 p.  
(MIRA 17:6)

KOSHKIN, K.T.; OLEYNIK, L.K., red.

[Technological bases for the organization of the repair of motor vehicles: dismantling and washing, routing used in reconditioning parts, assembly by the selective part matching] Tekhnologicheskie osnovy organizatsii avtoremontnogo proizvodstva; razborochno-moschnye raboty, marshrutnaia tekhnologiya vosstanovleniia detalei, sborka po metodu selektivnogo podbora detalei. Moskva, Rosvuzizdat, 1963. 78 p.  
(MIRA 17:4)

STRUVE, Natal'ya Ernestovna; LAKHTIN, Yu.M.; prof., red.; OLENIK,  
L.K.; red.

[New engineering materials] Novye materialy v tekhnike.  
Moskva, Vysshain shkola, 1963. 90 p. (MIRA 18:4)

ANTONOV, Aleksandr Mikhaylovich; BRONSHTEYN, L.A., red.; OLEYNIK,  
L.K., red.; SHVETSOV, S.V., tekhn. red.

[Organization and planning of road construction; "Construction finance plan of a road building organization" for the special course in "Construction and maintenance of automobile roads."] Organizatsiia i planirovanie dorozhnogo stroitel'stva; "Stroifinplan dorozhno-stroitel'noi organizatsii" dlia spetsial'nosti "Stroitel'stvo i ekspluatatsiia avtomobil'nykh dorog." [n.p.] Rosvuzizdat, 1963. 93 p.  
(MIRA 17:3)

KALECHITS, Ye.V.; ROMANYCHEV, Ye.D.; IVANOV, N.N., prof., red.;  
GLEJNIK, L.K., red.

[New developments in road building; variant design of the plans for the general organization of automobile road construction] Novosti dorozhnogo stroitel'stva; variantnoe proektirovanie skhem obshchei organizatsii stroitel'stva avtomobil'nykh dorog. [n.p.] Rosvuzizdat, 1963. 50 p.  
(MIRA 17:9)

1. Otdeleniye usovershenstvovaniya rukovodyashchikh i inzhenerno-tekhnicheskikh rabotnikov (for Kalechits, Romanychev).



GELIN, M.Ya.[deceased]; KHOTKEVICH, S.G.; OLEJNIK, L.K., red.

[Machine tools and mechanisms used in sanitary engineering operations] Stanki i mekhanizmy dlia proizvodstva sanitarno-tekhnicheskikh rabot. Moskva, Vysshaya shkola, 1965. 308 p. (MIRA 19:1)

DIDYK, B.S.; KOZENKO, A.V.; TSIN, M.R.; ZATULOVSKIY, S.S.; KOLESOVA, V.V.;  
Prinimali uchastiye: SHIYAN, V.G.; KHOKHLOV, P.L.; OLEYNIK, L.S.;  
SHEMYAKOVA, L.V.

Hot crack in tubes of nodular cast iron and ways to avoid them.  
Nauch. trudy Inst. lit. proizv. AN URSR 11:70-79 '62.

(MIRA 15:9)

(Pipe, Cast iron--Defects)  
(Centrifugal casting)

OLEYNIK, L.U.

Accounting for the gross and commodity output in machinery  
manufacturing plants. Trudy KhPI 22 no.2:117-128 '59.  
(MIRA 15:9)  
(Kharkov--Machinery industry--Accounting)

LEPEYKO, I.P., inzh.; OLEYNIK, L.U., kand.ekonomicheskikh nauk

Increasing engineering efficiency of units by welding.  
Mashinostroenie no.4:62-64 J1-Ag '62. (MIRA 15:9)

1. Khar'kovskiy elektromekhanicheskiy zavod (for Lepyko).
2. Khar'kovskiy politekhnicheskiy institut (for Oleynik).  
(Electric welding) (Machinery--Construction)

LEPEYKO, I. P., inzh.; OLEYNIK, L. U., kand. ekonom. nauk

Economic efficiency of using welded structures. Svar. proizvod.  
no.10:22-23 0 '62. (MIRA 15:10)

1. Khar'kovskiy elektromekhanicheskiy zavod (for Lepesko).
2. Khar'kovskiy politekhnicheskiy institut (for Oleynik).

(Machinery—Welding)

GAL'PERINA, T.S., kandidat meditsinskikh nauk; OLEYNIK, L.Ya.; CHERNOGOROV, I.A.,  
professor, zaveduyushchiy.

Diagnostic value of double carbohydrate tolerance test. Klin.med. 31 no.8:  
30-37 Ag '53. (MLRA 6:11)

1. Kafedra vnutrennikh bolezney Moskovskogo meditsinskogo stomatologicheskogo  
instituta. (Pancreas)

OLEYNIK, M. I.

AUTHORS: Gladkovskiy, V. A. and Oleynik, M. I.

126-3-21/34

TITLE: Rig for investigating the mechanical properties of metals under high hydrostatic pressure. (Ustanovka dlya issledovaniya mekhanicheskikh svoystv metallov pod vysokim gidrostaticheskim davleniyem).

PERIODICAL: "Fizika Metallov i Metallovedeniye" (Physics of Metals and Metallurgy), 1957, Vol.4, No.3, pp. 531-535 (U.S.S.R.)

ABSTRACT: The test rig developed by Bridgman, P.W. (1) has the disadvantage that it is not possible to maintain constant the hydrostatic pressure during the tests. The test rig used by Ratner, S.I. (2) for tensile tests of non-ferrous metals under conditions of external hydrostatic pressures of up to 4000 kg/cm<sup>2</sup> did permit maintaining the pressure constant for the entire duration of the tests. In the Metal Physics Institute of the Ural Branch of the Ac.Sc. U.S.S.R. a test rig was designed and built permitting testing of metals under pressures of up to 10 000 kg/cm<sup>2</sup> with automatic recording of the test results. The rig consists of a high pressure chamber, a small hydraulic press, a high pressure compressor and electrical apparatus. A sketch of the main assembly of the test rig is shown in Fig.1, p.532; the basic electrical circuit diagram is shown in Fig.2, p.533. The high pressure chamber consists of a thick wall steel cylinder with an external diameter of

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126-3-21'34

Rig; for investigating the mechanical properties of metals under high hydrostatic pressure. (Cont.)

200 mm, an internal diameter of 20 mm and a length of 230 mm. Automatic recording of the stress-strain curves is effected by means of electrical circuits incorporating strain gauges, a multi-channel electronic amplifier, a loop oscillograph and other instruments. A typical oscillogram obtained during deformation of hardened Be bronze under a pressure of 3000 kg/cm<sup>2</sup> is reproduced in Fig.3, p.534 indicating the tensile stress, the hydrostatic pressure and the deformation. The graph, Fig.4, gives the dependence of the tensile stress on deformation for hydrostatic pressures of 3000 atm and 1 atm. The hydrostatic pressure increases appreciably the yield point but the increase in the tensile stress with increasing deformation at a hydrostatic pressure of 3000 kg/cm<sup>2</sup> is considerably lower than at atmospheric pressure. Acknowledgment is made to Prof. L. F. Vereshchagin for his valuable advice.

Card 2/2

There are 4 figures and 2 references, one of which is Slavic.

SUBMITTED: August 2, 1956.

ASSOCIATION: Institute of Metal Physics, Ural Branch of the Ac.Sc.  
U.S.S.R. (Institut Fiziki Metallov Ural'skogo Filiala AN SSSR)  
AVAILABLE; Library of Congress



OLEYNIK, M.I.

AUTHOR: Oleynik, M.I.

120-6-35/36

TITLE: An Electrical Lead for High-pressure Chambers  
(Elektrovvod dlya sosudov vysokogo davleniya)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.6,  
p. 119 (USSR)

ABSTRACT Experiments involving high pressures often require an electrical lead brought out of a high-pressure chamber. A number of such high-pressure-to-low-pressure leads have been described in the literature (Refs. 1 and 2). The most widely used of these is the conical inlet. Such a device requires a considerable skill to prepare. A simpler device has been used in the Ural Branch of the Ac.Sc. USSR (Fig.1) and is now described. It can be used at hydrostatic pressures of  $7 \times 100 \text{ kg/cm}^2$ . There are 1 diagram and 2 Slavic references.

ASSOCIATION: High-pressure Physics laboratory of the Ural Branch of the Ac.Sc. USSR. (Laboratoriya fiziki vysokikh davleniy Ural'skogo filiala AN SSSR)

SUBMITTED: May 10, 1957.

AVAILABLE: Library of Congress  
Card 1/1

SOV/120-58-4-25/30

AUTHORS: Vereshchagin, L. F., Gladkovskiy, V. A., Gleyrik, M. I.

TITLE: An Instrument for Measuring the Hardness of Metals at Ultra-High Pressures (Pribor dlya izmereniya tverdosti metallov pri sverkhvysokikh davleniyakh)

PERIODICAL: Pribory i tekhnika eksperimenta, 1958, Nr 4, p 103 (USSR)

ABSTRACT: At the present time machines are available which may be used to investigate plastic deformation of specimens under the action of hydraulic compression. The instrument described in this paper differs from those described so far in that the mechanical properties of a metal under pressure may be determined without damage to the sample. The hardness of metals under pressure is determined from the impression on its surface made by a standard indenter in the form of a sphere, cone, etc. The instrument may be used in static tests on metals under hydrostatic pressures of up to

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SOV/120-58-4-25/30

An Instrument for Measuring the Hardness of Metals at Ultra-High Pressures

10 000 kg/cm<sup>2</sup>. A ~~cross section~~ drawing through the instrument is shown in Fig 1 and it was developed and is being used at the Urals Branch of the Academy of Sciences of the USSR. There is 1 figure, no tables or references.

ASSOCIATION: Laboratoriya fiziki sverkhvysokikh davleniy AN SSSR  
(Laboratory of Ultra-High Pressure Physics of the  
Academy of Sciences, USSR)

SUBMITTED: October 16, 1957.

Card 2/2

SOV/126-8-1-25/25

AUTHORS: Nemnonov, S.A., Oleynik, M.I. and Frolov, A.P.

TITLE: Contribution on a Method for X-ray Investigation of Substances at High Pressure. 1. A Sectional X-Ray Tube

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 8, Nr 1, pp 158-160 (USSR)

ABSTRACT: To reduce the long exposure times normally required for X-ray investigations at high pressures, the Institut fiziki metallov AN SSSR (Institute of Physics of Metals, Ac.Sc., USSR) have developed and made an electronic X-ray tube which can be taken apart. The tube (Fig 1) is of simple construction and provides a very powerful X-ray beam. The cathode is connected to a URS-70 X-ray apparatus inter-locked with a TsVL-100 diffusion pump. Suitable provision is made for avoiding ingress of oil vapour.

There are 3 figures and 1 Soviet reference.

ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of Physics of Metals, Ac.Sc., USSR)

SUBMITTED: December 4, 1958  
Card 1/1

24.7600

1043, 1158, 1164 also 1413, 1045

20153  
S/056/61/040/002/006/047  
B113/B214

AUTHORS: Grazhdankina, N. P., Gaydukov, I. G., Rodionov, K. P.,  
Oleynik, M. I., Shchipanov, V. A.

TITLE: Effect of pressure on the electrical resistance and the galvanomagnetic effect in chromium telluride

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40, no. 2, 1961, 433-440

TEXT: The temperature dependence of the electrical resistance and the isothermal lines of the galvanomagnetic effect  $r = \Delta R/R$  were measured in the temperature range of magnetic transformation at a pressure of 4600 kg/cm<sup>2</sup>. A high-pressure chamber of austenitic steel was used for the measurement. The object to be observed was placed in the lower part of the chamber which was situated between the poles of an electro-magnet. There were five electric leads in the upper part of the chamber. One of these was used for measuring the electrical resistance of a Manganin manometer. The other four leads were used for the measurement of the electrical resistance of the preparation and the measurement of

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B11; B214

X

Effect of pressure on the...

temperature. The hydrostatic pressure in the chamber was produced by means of a high-pressure compressor according to the system of L. F. Vereshchagin. Measurements showed that the electrical resistance of chromium telluride increased with the pressure; no hysteresis effect was observed. In the pressure range used  $R_p^{-1} dR/dp$  was equal to  $(1 \pm 1.5) \cdot 10^{-4} \text{ kg}^{-1} \text{ cm}^2$ . On the basis of this, it was assumed that a compression on all sides must lead to a shift of the Curie point of chromium telluride toward lower temperatures. However, this effect must be sufficiently large. Direct measurements of the temperature dependence of the electrical resistance at atmospheric pressure and a pressure of  $4600 \text{ kg/cm}^2$  gave for the Curie point the values  $58^\circ\text{C}$  and  $31^\circ\text{C}$ , respectively. The following formula holds for the change of the Curie point  $d\theta_p/dp$  of chromium telluride caused by a change in the pressure on all sides:  $d\theta_p/dp = (-5.9 \pm 0.3) \cdot 10^{-3} \text{ deg} \cdot \text{kg}^{-1} \text{ cm}^2$  (1). This was checked by a measurement of the galvanomagnetic effect  $r = \Delta R/R$  at high pressure. In this case,  $d\theta_p/dp$  was determined for a pressure of

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system Cr-Te is proportional to the decrease of the volume of the unit cell. The dimensions of the unit cell were determined by X-ray analysis. It was possible to obtain the law of the dependence of the galvanomagnetic effect on the magnetic field strength at the Curie point by using the theory of thermodynamics. It was found that for chromium telluride and  $\text{CrTe}_{0.93}\text{Se}_{0.07}$ ,  $r \sim H^{2/3}$ ; for  $T > \theta_f$  the authors obtained  $r \sim H^2$ . The dependence of the galvanomagnetic effect on the temperature in CrTe and in  $\text{CrTe}_{0.93}\text{Se}_{0.07}$  at atmospheric pressure as well as at a pressure of  $4600 \text{ kg/cm}^2$  was studied. It was found that for  $T < \theta_f$  the pressure leads to an increase in the absolute value of the galvanomagnetic effect in CrTe, but for  $T > \theta_f$  (in the paramagnetic range) the  $r(T/\theta_f)$  curves for atmospheric pressure and for  $p = 4600 \text{ kg/cm}^2$  coincide. This shows that the change in the galvanomagnetic effect caused by pressure is related to the change in magnetization. In the range of investigation, the curves for  $\text{CrTe}_{0.93}\text{Se}_{0.07}$  lie lower than

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Effect of pressure on the...

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4600 kg/cm<sup>2</sup> and a field of 8000 oe from the shift of the maximum of the galvanomagnetic effect. It was found that

$d\theta_f/dp = -6.2 \cdot 10^{-3} \text{ deg} \cdot \text{kg}^{-1} \cdot \text{cm}^2$ . By means of the compressibility  $\kappa = (22 \pm 3) \cdot 10^{-7} \text{ cm}^2/\text{kg}$ ,  $d\theta_f/dV$  was determined to be  $3.2 \cdot 10^{25} \text{ deg} \cdot \text{cm}^{-3}$ . The

change of Curie temperature is related to the reduction in the inter-atomic distance on account of the substitution of tellurium atoms by selenium ( $\text{CrTe}_{1-x}\text{Se}_x$ ). In order to obtain exact results on the

temperature of magnetic transformation of the alloy  $\text{CrTe}_{1-x}\text{Se}_x$ , and on

the dependence of its change on the volume of the unit cell, three different methods were used for the determination of  $\theta_f$ . First, it was

determined from the bend of the  $R(T)$  curves; secondly, from the maximum of the galvanomagnetic effect; and thirdly, "from the vanishing of spontaneous magnetization, determined by the method of "thermodynamic coefficients" ( $T = \theta_f$  for  $\alpha = 0$ ). Always the same value was obtained for

$d\theta_f/dV$ , which showed that the integral of volume interaction in the

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those for CrTe. If it is assumed that  $c$  in the equation  $a = c\beta^{-2/3}\sigma_0^{8/3}$  (4), in which  $c$  is given by  $c = r_s/\sigma_s^2$  ( $\sigma_s$  - spontaneous magnetization), is not affected by pressure, the change in the spontaneous magnetization of CrTe caused by pressure may be considered to be due only to the change in the exchange integral for a constant value of the magnetic moment at absolute saturation. It can then be said that the observed increase of the intensity of the para process under pressure is related to the decrease of the thermodynamic coefficient  $\beta$  in Eq. (4).  
I. G. Fakidov and S. D. Margolin are thanked for the magnetic measurements. Yu. A. Bazhin, N. S. Akulov, K. P. Belov, G. A. Zaytseva, Ya. I. Kondorskiy, and V. L. Sedov are mentioned. There are 6 figures, 2 tables, and 15 references: 7 Soviet-bloc and 8 non-Soviet-bloc.

ASSOCIATION: Institut fiziki metallov Akademii nauk SSSR  
(Institute of the Physics of Metals of the Academy of Sciences USSR)

SUBMITTED: July 30, 1960

Card 5/5

FROLOV, A.P.; VERESHCHAGIN, L.F.; RODIONOV, K.P.; OLEYNIK, M.I.

Methods of X-ray investigation of materials under high pressures.  
Part 2: Equipment for the preparation of X-ray pictures of  
powders under pressure of up to 18,000 k/cm<sup>2</sup>. Fiz. met. i  
metalloved. 14, no.1:80-84 J1 '62. (MIRA 15:7)

1. Institut fiziki metallov AN SSSR i Institut fiziki vysokikh  
davleniy AN SSSR.

(Metal powders)

(X rays—Diffraction)

YURCHAKOVICH, Ya.M.; OLEYNIK, M.I.

Geochemical characteristics of the bentonites in Babino, Kovalyva,  
Plibunovka, and Listvin (western regions of the Ukrainian S.S.R.).  
Trudy UkrNIGRI no.5:345-357 '63. (MIRA 18:3)

OLEYNIK, M.I.; YURCHAKEVICH, Ya.M.

Experience in the activation of bentonitic clays from  
western provinces of the Ukraine in connection with the  
improvement of their adsorption and catalytic properties.  
Trudy UkrNIGRI no.7:136-149 '63.

(MIRA 19:1)

1. OLEYNIK, M. M.
2. USSR (600)
4. Hotbeds
7. How to build a hotbed with electric heat. Dost.sel'khoz. no. 12 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

OLEYNIK, M.M.

OLEYNIK, M.M.

Results of using additional illumination for cucumbers. Trudy Inst.  
fiziol.rast. 10:101-109 '55. (MIRA 8:9)

1. Zaporozhskiy filial Vsesoyuznogo instituta elektrifikatsii sel'skogo  
khozyaystva. (Cucumbers) (Plants, Effect of light on)

PONOMAR'OV S.G. [Ponomar'ov, S.H.], kand. tekhn. nauk; OLEYNIK, M.M.  
[Oleinyk, M.M.]; CHERANOVSKAYA, S.B. [Cheranova'ska, S.B.]

Synthetic adhesives for the gluing-on of leather on the glass  
plate. Leh.prom. no. 4:53-55 O-D '63. (MIRA 17:5)

OLEYNIK, M. P.

" The Selection of Cultivated Cloves and Ways of Improving It." Kiev State U imeni  
T. G. Shevchenko, Kiev, 1955  
(Dissertation for the Degree of Candidate of Sciences)

SO: Knizhnaya Letopis', No. 32 , 6 Aug 55



~~OLEYNIK, M. P.~~

Plants from the collection of the Botanical Garden of the Academy  
of Sciences of the Ukrainian S.S.R. Trudy Bot. sada AN URSR 3:146-150  
'55.. (MLRA 10:8)

(Kiev--Plants)

TRUSOV, V.V.; OLEYNIK, N.A.

Characteristics of the functional state of the adrenal cortex in patients with peptic ulcers and its changes under the influence of the ganglionic blocking preparations hexonium and gangleron. Trudy Izhev.gos.med.inst. 21:116-119 '64.

(Rik-1964)

1. Kafedra gospital'noy terapii (zav. - dotsent T.N. Makarova, nauchnyy rukovoditel' - dotsent L.A. Leshchinskiy) Izhevskogo meditsinskogo instituta.

BAYKOV, S.P., kand. tekhn. nauk; EELENKO, I.S., kand. tekhn. nauk;  
BELKOV, S.F., inzh.; BELYANCHIKOV, M.P., inzh.; BERNSHTEYN,  
I.L., inzh.; BOGORODITSKIY, D.D., inzh.; BOLONOVA, Ye.V.,  
kand. tekhn. nauk; EROZGOL', I.M., kand. tekhn. nauk;  
VLAMIMIROV, V.B., inzh.; VOLKOV, P.D., kand. tekhn. nauk;  
GERASIMOVA, N.N., inzh.; ZHUKHOVITSKIY, A.F., inzh.;  
KABANOV, M.F., inzh.; KANEVTSOV, V.M., kand. tekhn. nauk;  
KOLMYENKOV, I.V., inzh.; KONDRAT'YEV, I.M., inzh.;  
KUZNETSOV, I.P., kand. tekhn. nauk; L'VOV, D.S., kand.  
tekhn. nauk; LYSENKO, I.Ya., kand. tekhn. nauk; MAKAROV,  
L.M., inzh.; OLENIK, N.D., inzh.; RABINER, Ye.G., inzh.;  
ROZHESTVENSKIY, Yu.L., kand. tekhn. nauk; SAKHON'KO, I.M.,  
kand. tekhn. nauk; SIDOROV, F.N., inzh.; SPITSYN, N.A., prof.,  
doktor tekhn. nauk; SPRISHEVSKIY, A.I., kand. tekhn. nauk;  
CHAIKOV, V.T., kand. tekhn. nauk; SHEYN, A.S., kand. tekhn.  
nauk; NIIBERG, N.Ya., nauchnyy red.; BLAGOSKLONOVA, N.Yu., inzh.,  
red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Antifriction bearings; manual] Podshipniki kachenia; spravochnoe posobie. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 828 p. (MIRA 15:2)  
(Bearings (Machinery))

TANTSYURA, V.N.; OLEYNIK, N.G.

Electric light signals at the Gorodishche Sugar Factory. Sakh.prom. 27 no.  
4:24-26 Ap '53. (MIRA 6:6)

1. Gorodishchenskiy sakharney zavod. (Labor productivity) (Signals and signaling)

OLEYNIK, N.G.

Constructing improved lightweight pavements on the roads of  
Omsk Province. Avt.dor. 21 no.11:7-8 N '58. (MIRA 11:12)

1. Nachal'nik Oblastnogo upravleniya avtoshosdora.  
(Omsk Province--Pavements)

KAGANOVICH, Vladimir Yefimovich; OLEYNIK, Nikolay Georgiyevich;  
SIMONOV, Vladimir Andreyevich; PETROV, I.F., red.;  
SHATOKIN, V.I., tekhn. red.

'Transportation of Omsk Province]Transport Omskoi oblasti.  
Omsk, (mskoe knizhnoe izd-vo, 1961. 45 p. (MIRA 15:8)  
(Omsk Province--Transportation)

MOGILEVICH, V.M.; OLEYNIK, N.G.

Cooperation of institutions of higher education and road construction organizations. Avt.dor. 27 no.12:2-3 D '64. (MIRA 18:2)

1. Rektor Sibirskogo avtodorozhnogo instituta (for Mogilevich).
2. Nachal'nik Omskogo oblastnogo upravleniya po stroitel'stvu dorog (for Oleynik).

OLEYNIK, N.G., inzh. (Omskaya oblast')

Organizing the operation of the D-391 soil-mixing machine.  
Avt. dcr. 28 no.4:13-14 Ap '65. (MIRA 18:5)



OLEYNIK, N.I.; GOL'DGEYL', D.M.

Blower system for cleaning the equipment of electric locomotives.  
Elek. i tepl. tiaga 5 no.9:11-12 Ag '61. (MIRA 14:9)

1. Glavgy inzh. depo Dema Kuybyshevskoy dorogi (for Oleynik).
2. Nachal'nik proizvodstvenno-tekhnicheskogo otdela depo Dema Kuybyshevskoy dorogi (for Gol'dgeyl').  
(Electric locomotives—Equipment and supplies)  
(Electric locomotives—Maintenance and repair)

OLEINIK, N. K.

ANEMIA

RODIONOV, I. M. and OLEINIK, N. K. Resistance of the virus of infectious animals.  
in water.

So: Veterinariya; 23; (10-11); October/November 1946; Uncl.  
TABCON



USSR/Diseases of Farm Animals. Diseases caused by Viruses and Rickettsiae.

Source : Ref Zhur-Biol., No 1, 1958, 2711

Author : Oleynik, N. K., Yazykova K. N., Direnko P. M.,  
Malyarets P. V.

Inst : Ukrainian Institute of Experimental Veterinary  
Sciences

Title : Testing the Laboratory Diagnostic Method of In-  
fectious Anemia in Horses, Worked Out by the Uk-  
rainian Institute of Experimental Veterinary  
Sciences.

Orig Pub : Nauch. tr. Ukr. in-sta eksperim. vet., 1956, 23,  
23-38

Abstract : Results of tests carried out on 281 horses when  
investigating infectious anemia, have confirmed the  
data obtained previously on the effectiveness of  
the given method, established by means of individu-  
al and group biological tests on pigeons.

Card 1/1

OLEYNIK, H.K.

SNEZHKO, Ya.S.; OLEYNIK, H.K.; KURSANOV, H.K.

Prevention of silicosis in drillers. Gig. sanit., Moskva No.12:48-49  
Dec 51. (CINL 21:4)

OLEYNIK, N.K., zaveduyushchiy; LOBANOVA, N.A., glavnyy vrach.

Silicosis in stopers in the coal mining industry. Terap.arkh. 25 no.3:43-52  
My-Je '53. (MIRA 6:9)

1. Otdeleniye profpatologii Ugleural'skoy gorodskoy bol'nitsy No.1.  
(Lunga--Lust diseases) (Miners--Diseases and hygiene)



LITVINENKO, L.M.; OLEYNIK, N.M.

Kinetics of the reactions of benzoyl chloride with primary  
aromatic amines in nitrobenzene. Zhur.ob.khim. 32 no.7:2290-2298  
Jl '62. (MIRA 15:7)

1. Khar'kovskiy gosudarstvennyy universitet imeni A.M.Gor'kogo.  
(Benzoyl chloride) (Amines)



LITVINENKO, L.N.; OLEYNIK, N.M.

Bifunctional catalysis by carboxylic acids during the acylation of aromatic amines with organic acid chlorides in a nitrobenzene solution. Zhur.ob.khim. 33 no.7:2287-2298 J1 '63. (MIRA 16:8)

1. Kha'r'kovskiy gosudarstvennyy universitet.  
(Amines) (Acids, Organic) (Catalysis)

LITVINENKO, L.M.; OLEYNIK, N.M.

Remarks on the article of Loucheux Banderet "Interaction of  
arylamines with acid anhydrides. Study of kinetics". Ukr.khim.  
zhur. 30 no.11:1200 '64. (MIRA 18:2)

1. Kar'lovskiy gosudarstvennyy universitet, Nauchno-issledovatel'-  
skaya laboratoriya kinetiki i kataliza organicheskikh reaktsiy.

LITVINENKO, L.P.; OLEJNIK, N.M.; TITSKIY, G.D.

Search in a certain direction for new bifunctional catalysts.  
Dokl. AN SSSR 157 no.5:1153-1155 Ag '64. (MIRA 17:9)

1. Khar'kovskiy gosudarstvennyy universitet. Predstavleno  
akademikom M.I. Kabachnikovym.

OLEYNIK, N.N., inzh.; PONOMAREV, S.G., kand. tekhn. nauk.

Objective evaluation of chrome leather stiffness. Leg. prom. 18 no.3:  
41 Mr '58. (MIRA 11:4)

(Leather--Testing)

ПОБОМАРЕВ, S.G., kand. tekhn. nauk; OLEYNIK, N.N., inzh.

Tanning of skins with chrome liquors covered with sodium  
sulphite. Izv. prom. 18 no.10:39-40 O '58. (MIRA 11:11)  
(Tanning)

OLEYNIK, N.N., inzh.; PONOMAREV, S.G., kand.tekhn.nauk

Effect of some posttanning processes on the volume formation  
in chrome leather. Izv.vys.ucheb.zav.;tekh.leg.prom.  
no.4:61-66 '61. (MIRA 14:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut kozhevenno-  
obuvnoy promyshlennosti. Rekomendovana kafedroy khimii i  
tekhnologii kozhi Kiyevskogo tekhnologicheskogo instituta legkoy  
promyshlennosti. (Tanning)

OLEYNIK, N.N., inzh.; PONOMAREV, S.G., kand.tekhn.nauk

Effect of neutral salts on the forming of the volume of chrome leather. Iz v.vys.ucheb.zav.; tekhn.prom. no.6:44-56 '61.

(MIRA 14:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut kozhevenno-obuvnoy promyshlennosti. Rekomendovana kafedroy tekhnologii kozhi Kiyevskogo tekhnologicheskogo instituta legkoy promyshlennosti.

(Tanning)

(Leather--Testing)

OLEYNIK, N.N., inzh.; PONOMAREV, S.G., kand.tekhn.nauk

Effect of neutral salts on the changes in the permeability of semi-finished products of chrome tanning. Izv.vys.ucheb. zav.; tekh. tekh. prom. No. 2:78-83 '62. (MIRA 15:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut kozhevenno-obuvnoy promyshlennosti. Rekomendovana kafedroy tekhnologii kozhi Kiyevskogo tekhnologicheskogo instituta legkoy promyshlennosti.

(Tanning)



OLEYNIK, N.N., inzh.

Forming of the chrome leather volume. Izv.vys.ucheb.zav.;  
tekh.leg.prom. 3:59-65 '62. (MIRA 15:6)

1. Ukrainkiy nauchno-issledovatel'skiy institut kozhevenno-  
obuvnoy promyshlennosti. Rekomendovana kafedroy tekhnologii  
kozhi Kiyev'skogo tekhnologicheskogo instituta legkoy promysh-  
lennosti.

(Leather)

OLEYNIK, N.N., inzh.; KHURBA, T.T., inzh.; FONOMAREV, S.G., kand.tekhn.nauk

Efficient methods for the manufacture of suede leather from  
pigskins. Nauch.-issl.trudy Ukr NIIKP no.13:13-34 '62.

(MIRA 18:2)

OLEYNIK, N.N., inzh.; PONOMAREV, S.G., kand. tekhn. nauk

Studying the effect of neutral salts on the volume formation of  
chrome leather. Report No.1. Nauch.-issl. trudy Ukr NIIP no.13:  
46-59 '62.

Studying the effect of neutral salts on the volume formation of  
chrome leather. Report No.2. Ibid. 60-63

(MIRA 18:2)

LIVYY, G.V., kand.tekhn.nauk; KHRIPIN, A.G., inzh.; BRAGINSKIY, M.A., inzh.;  
KARPUKHIN, G.G., inzh.; FASTOVETS, O.S., inzh.; ABRAMSKAYA, I.B., inzh.;  
BEREZOVSKAYA, M.C., inzh.; TERESHCHENKO, F.P., inzh.; Prinsipali  
uchastie: OLEYNIK, N.N.; ZHURBA, T.T.; GORONOVSKAYA, M.A.; SHAZIN,  
A.I.; GERTSVOL'F, B.S.

Unit for dynamic drying of chrome leather. Report No.1. Nauch.-  
issl.trudy Ukr NIIKP no.13:89-105 '62.

(MIRA 18:2)

OLEYNIK, N.N. [Oliinyk, N.N.]; PONOMAREV, S.G. [ponomar'cv, S.H.], kand.  
kand. nauk; GRISHILO, V.F. [Hryshylo, V.F.]; LYSENKO, G.H.  
[Lysenko, H.P.]; CHERANOVSKAYA, S.B. [Cheranovs'ka, S.B.]

Color coating of grain-side and refined leather. Leh. prom.  
no.1:41-43 Ja-M '65. (MIRA 18:4)

L 21771-66

ACC NR: AP6002606

(A)

SOURCE CODE: UR/0286/55/000/023/0106/0106

AUTHORS: Ponomarev, S. G.; Oleynik, N. N.; Goronovskaya, M. A. Zhurba, T. T.

9

ORG: none

B

TITLE: Method for combined soaking and depilation of hides. Class 28, No. 143500

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 106

TOPIC TAGS: processed animal product, leather, animal hide

ABSTRACT: This Author Certificate presents a method for combined soaking and depilation of hides by the use of a fermentation vat. To speed up the process and to improve the quality of the hides, aromatic sulphoderivatives, e.g., H acid, are added to the fermentation vat.

SUB CODE: 11/ SUBM DATE: 21 Nov 60

Card

1/1

mg5

UDC: 675.023.3

2

OLEYNIK, N.P.

Technological progress of Rumanian industry. Biol. tech. ekon.  
infrom. no.1:83-85 '57. (MIRA 11:4)

(Rumania--Industry)

OLEYNIK, N.P.

ANDRIANOV, V.N., doktor tekhn.nauk; BERSENEV, Ye.Ye., inzh.; BYSTRITSKIY, D.N., kand.tekhn.nauk; GRENDENNIKOV, A.F., kand.tekhn.nauk; GREPSOV, N.A., kand.tekhn.nauk; ZOYEV, V.A., kand.tekhn.nauk; KLINOV, A.A., kand.tekhn.nauk; KOROLEV, V.F., kand.tekhn.nauk; KUDRYAVTSEV, I.F., kand.tekhn.nauk; KULIK, M.Ye., kand.tekhn.nauk; NAZAROV, G.I., kand.tekhn.nauk; OLEYNIK, N.P., inzh.; OSKTRON, P.A., kand.tekhn.nauk; PODSOSOV, A.N., inzh.; POPOV, S.T., inzh.; PRISHCHEP, L.G., kand.tekhn.nauk; PCHELIN, Yu.N., inzh.; RUBTSOV, P.A., kand.tekhn.nauk; RUNOV, B.A., kand.tekhn.nauk; SAVINKOV, K.P., kand.tekhn.nauk; SAZONOV, N.A., prof., doktor tekhn.nauk; SERGEYEV, A.S., inzh.; SKVORTSOV, P.P., kand.tekhn.nauk; SMIRNOV, B.V., kand.tekhn.nauk; SMIRNOV, V.I., kand.tekhn.nauk; TYMINSKIY, Ye.V., inzh.; URVACHEV, P.N., kand.tekhn.nauk; SHTRURMAN, B.A., inzh.; SHCHUROV, S.V., kand.ekon.nauk; RIZHOVA, L.M., inzh.; VOL'FOVSKAYA, D.N., red.; NIKITINA, V.M., red.; BALLOD, A.I., tekhn.red.

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1. Giprokoks.

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1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokho-  
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Oxidative degradation of polyamides. Part 2: Role of free  
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polycaprolactam. Ukr. khim. zhur. 30 no.4:376-384 '64.

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1. Institut fizicheskoy khimii imeni Pizarzhevskogo AN UkrSSR  
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OLEYNIK, N.V.

Effect of unsteady stressed state conditions on the hardening  
of structural steels. Nauch. zap. Od. politekh. inst. 48:  
49-58 '62.

Strength calculation of cyclically conditioned parts.  
Ibid. 891-94 (MIRA 17:5)

OLEYNIK, N.V., kandidat tekhnicheskikh nauk. .

Author's address: Moscow, U.S.S.R.

On the relation between surface smoothness and the endurance limit. Metalloved.i obr.met. no.4: 51-56 0 '55. (MLRA 9:3)

1. Odeskij politekhnicheskij institut.  
(Surfaces (Technology)) (Steel--Metallography)

OLEYNIK, N. V.

124-1957-10-12256

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 145 (USSR)

AUTHORS: Mak, S. L., Oleynik, N. V., Pronin, V. M.

TITLE: The Fatigue Strength of Samples With Cross-sectional Openings and Partial Drillings (Ustalostnaya prochnost' obraztsov s poperechnymi otverstiyami i zasverlovkami)

PERIODICAL: Nauch. zap. Odessk. politekhn. in-t, 1956, Vol 9, pp 55-60

ABSTRACT: The results of fatigue tests on samples made from normalized steel 6 and steel 40X are reported in the article. The cross-sectional openings and blind drillings were performed with a 3-mm drill bit on steel-6 specimens 15-mm in diameter and with an 8-mm drill bit on steel 40X specimens 12-mm in diameter. The tests were carried out on a NU machine on the basis of  $5 \times 10^6$  cycles. It was established that in both of the materials the fatigue limit and the effective stress concentration factor  $K_{\sigma}$  is practically the same for the specimens with openings and those with partial drillings. The tests performed on specimens having five closely spaced drillings equal in depth, did not show any effects of mutual stress alleviation. Increasing the size of the crosspieces between the drillings had an insignificant effect on the fatigue limit;

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124-1957-10-12256

The Fatigue Strength of Samples With Cross-sectional (cont.)

the magnitude of  $K_{\sigma}$  was slightly decreased. The assumption is voiced that by changing the keyway length, the limit of fatigue would not alter noticeably. In all cases the fatigue failure commenced at the edges of openings or drillings.

G. A. Tulyakov

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OLEYNIK, N.V., kand. tekhn. nauk, dots.; KOSTIN, K.I., kand. tekhn. nauk;  
PROBIL, V.S., kand. tekhn. nauk, dots.

Fatigue resistance of shafts with lateral holes subjected to  
bending. Nauch. dokl. vrs. shkoly; mash. i prib. no. 2:33-38  
'58. (MIRA 12:10)

1. Predstavleno Penzenskim industrial'nym institutom.  
(Strength of materials)



OLEYNIK, N.V.; KOSTIN, K.I.

Role of stress concentrations caused by repeated unloading  
of metals. Nauch.dokl.vys.shkoly; mash. i prib. no.1:78-84  
'59. (MIRA 12:8)

1. Stat'ya predstavlena Penzenskim politekhnicheskim institutom.  
(Strains and stresses)

18 8200 1413 1327 2808

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S/123/61/000/015/004/032  
A004/A101AUTHOR: Oleynik, N. V.

TITLE: The effect of discontinuities in loading on endurance

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 15, 1961, 18, abstract  
15A124 ("Nauchn.zap. Odessk. politekhn. in-t", 1959, v.14, 42-47)

TEXT: According to some literature data discontinuities in fatigue tests (relaxation) increase the cyclic durability of steels with a carbon content of 0.42 - 0.8%, while others deny this. Specimens from grade 45 and 40X (40Kh) steel 15 mm in diameter with transverse apertures 5 mm in diameter were tested at different overstrain levels. The effect of relaxation of 12 - 15 hours was determined through 0.05 N and 0.1 N (N - normal durability at the given overstrain level, equal to 30 and 22 kg/mm<sup>2</sup> respectively). The mean increase in cyclic durability at  $\delta = 30$  kg/mm<sup>2</sup> amounted to 22% for specimens of grade 45 steel and 22% for 40Kh grade steel, while this value was 8 and 6.6% respectively at  $\delta = 22$  kg/mm<sup>2</sup>. Based on these results the following conclusions were drawn: Relaxation can increase the cyclic durability not only of low-carbon steels but also of steels with a high C-content; this takes place the more intensively

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The effect of discontinuities ...

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the more frequent the discontinuities occur. Stress raisers apparently somewhat reduce but do not eliminate the favorable effect of relaxation. The origination of the first fatigue micro-cracks reduces or completely excludes the positive effect of relaxation. The effect of relaxation can be explained by the aging of the solid solution of  $\alpha$ -iron contained in the steel.

A. Usov

[Abstracter's note: Complete translation]

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S/123/61/000/020/014/035  
A004/A101

AUTHORS: Mak, S. L., Oleynik, N. V., Pronin, V. M.

TITLE: Investigating the effect of stress concentrations near the location of transverse holes and keyways

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 20, 1961, 21, abstract 20B93 ("Nauchno. zap. Odesk. politekhn. in-t", 1959, v. 14, 96-103)

TEXT: The authors present the results of investigating the effect of stress concentrations near transverse holes and keyways on the fatigue strength. The tests were carried out on steel specimens. It was found that the coefficient of stress concentration  $K_{\sigma}$  is higher for transverse blind holes with a flat bottom than for through holes or blind holes with a spherical-shaped bottom. A transverse threaded hole increases  $K_{\sigma}$ . The application of relieving notches near the hole, pressing the holes with balls, countersinking of the hole, pressing a bushing into the hole with a lower modulus of elasticity than the shaft material, are measures to reduce  $K_{\sigma}$ . The most effective means is the application of relieving notches by pressing in a punch ( $K_{\sigma} = 1.0$ ), followed by the pressing of the hole by balls ( $K_{\sigma} = 1.10$ ). The authors present data

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