

SOV/144-58-8-7/18

Non-compensated e.m.f. in the Short-circuited Sections of DC
Motors Fed by a Pulsating Voltage

ASSOCIATION: Novocherkasskiy elektrovostroitel'nyy zavod
(Novocherkassk Electric Locomotive Works)

SUBMITTED: July 23, 1958

Card 3/3

VASILENKO, G.V., inzh.; BOCHAROV, V.I., inzh.

Possible methods of further improving the traction characteristics
of the VL22^m electric locomotive. Elek. i tepl. tiaga 3 no.3:8-9
Mr '59. (MIRA 12:5)

(Electric locomotives)

AUTHOR: Vasilenko, G.V. (Engineer) SOV/144-59-8-4/14
TITLE: The Evaluation of the Regulation Properties of a d.c.
Traction Motor
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Elektromekhanika, 1959, Nr 8, pp 41-47 (USSR)
ABSTRACT: One of the most important properties of an electric locomotive is the availability of the power at high speeds, which depends on the characteristics of the motors. Neglecting variations in e.m.f., the output of the locomotives at maximum speed is proportional to the current taken by the traction motor at this speed. This problem was studied by V.S. Khvostov, who derived formula (1) for the motor current. He assumed that the magnetic flux corresponding to maximum speed lies on the straight part of the magnetisation curve. If at this speed the iron is saturated, formula (1a) should be used. In the case of diesel-electric locomotives in which the voltage applied to the motors is regulated, and also in rectifier locomotives in which the main poles are resistively shunted, the more general formula (1b) should be used. The factor that Khvostov calls the regulation

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SOV/144-59-8-4/14

The Evaluation of the Regulation Properties of a D.C. Traction Motor coefficient is given by formula (2); the ratio of the field current to the armature current at maximum field weakening is multiplied by the saturation factor of the magnetic system of the motor under rated conditions; the reciprocal of this product gives the coefficient. A study is then made of variations in the regulation coefficient (and, therefore, of the utilisation of the power) in two cases: the air gap between the armature and the main pole is altered but (1) the magnetic flux under rated conditions is maintained constant by appropriate variation of the excitation, and (2) the excitation remains constant, so that the rated magnetic flux of the motor varies. The changes in the utilisation of rated output of the motor in the first of these cases is then considered. The basic assumptions are stated. The analysis proceeds from the diagram of the air gap and the steel part of the magnetic circuit given in Fig 1. Expression (7) is derived for the saturation factor. The permissible field-weakening is considered. The new regulation coefficient obtained on changing the air gap is given by Eq (10) and it will be seen that it varies in direct proportion to the change in the air gap

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SOV/144-59-8.4/14

The Evaluation of the Regulation Properties of a D.C. Traction Motor under the main pole. The second case, where the air gap is changed without altering the excitation, is then considered. It will be seen from Eq (15) that the regulation coefficient is inversely proportional to the saturation factor. The utilisation of the output at maximum speed also alters. In this case graphical analysis is accurate and vivid. The magnetic characteristics of a series traction motor type NB-406 with a saturation factor at rated conditions of 2.15 are given in Fig 3, and in Fig 2 they are resolved between the steel and the air gap for different values of air gap. The results obtained are tabulated and the data used to construct the graphs in Fig 4 which show the change in magnetic flux and saturation factor of this motor as functions of the air gap between the main pole and the armature. It is concluded that when the air gap is altered, if the rated magnetic flux is maintained constant by altering the permissible degree of field weakening, the regulation factor varies in direct proportion to the change in air gap. When the excitation is constant, so that the flux is allowed to vary as the air gap is altered,

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The Evaluation of the Regulation Properties of a D.C. Traction Motor
then the regulation coefficient alters less and is
inversely proportional to the change in saturation
factor. The practical implications of this work in re-
designing the motor to obtain maximum output at high
speeds are briefly considered. A simple numerical example
is worked out.

Card 4/4 There are 4 figures, 1 table and 3 Soviet references.

ASSOCIATION: Novocherkasskiy elektrovostroitel'nyy zavod
(Novocherkassk Electric Locomotive Works)

SUBMITTED: March 25, 1959

VASILENKO, G.V., inzh.

Effect of the magnetic system of the traction motor on the
utilization of power at high locomotive speeds. Trudy MIIT
114:68-83 '59. (MIRA 13:4)
(Electric locomotives)

VASILENKO, Georgiy Vadimovich, inzh.

Consideration of the demagnetizing reactance of the armatures
of electric traction motors. Izv. vys. ucheb. zav.; elektromekh.
3 no.6:105-111 '60. (MIRA 15:5)

1. Otdel elektricheskikh mashin Novocherkasskogo elektro-
stroitel'nogo zavoda.

(Electric motors)
(Electric railway motors)

VASILENKO, G.V.

Relationship between the combinatorial reliability and the coefficient
of stability in a traction motor. Izv. vys. ucheb. zav.; elektromekh.
3 no.11:72-81 '60. (ISSN 14:2)
(Electric railway motors)

VASILENKO, G.V.

Efficient method for calculating and designing the magnetic system of a traction electric motor with given regulatory characteristics. Izv. vys. ucheb. zav.; elektromekh. 4 no.10:43-4 1961. (MIRA 14:11)
(Electric railway motors)

ZOLOTAREV, P.A., VASILENKO, G.V.

Improving the traction properties of N8 and VL23 electric locomotives. Zhel.dor.transp. 42 no.8:21-22 Ag '60.

(MIRA 13:8)

1. Nachal'nik otdela elektricheskikh mashin konstruktorskogo byuro Novocheerkasskogo zavoda (for Zolotarev). 2. Rukovoditel' gruppy elektricheskikh mashin konstruktorskogo byuro Novocheerkasskogo zavoda (for Vasilenko).

(Electric locomotives)

VASILENKO, G.V.

Determining the commutation parameters of d.c. machinery. Sbor.
nauch. trud. EINII 2:165-169 '62. (MIRA 16:8)

(Commutation (Electricity))
(Electric machinery)

VASILENKO, G.V.

General relationships between the expenditure of copper in winding wire and the efficiency of traction motors with collector voltages up to 1500 and 1000 volts. Sbor. nauch. trud. FNII 3:83-92 '63.
(MIRA 17:4)

VASILENKO, Georgiy Vadimovich, inzh.

Doubling of the number of balancing connections in electrical machines. Izv. vys. ucheb. zav.; elektromekh. 6 no.5:634-636 '63. (MIRA 16:9)

1. Rukovoditel' gruppy spetsial'nogo konstruktorskogo otdela Novocherkasskogo elektrozostroitel'nogo zavoda.
(Electric machinery)

VASILENKO, Georgiy Vadimovich, inzh.

Effect of the field of the principal pole on the commutation of
a traction motor. Izv. vys. ucheb. zav.; elektromekh. 6 no.6:
768-774 '63. (MIRA 16:9)

1. Rukovoditel' gruppy spetsial'nogo konstruktorskogo otdela
Novocherkasskogo elektrovostroitel'nogo zavoda.
(Electric machinery)

VASILENKO, Georgiy Vadimovich, inzh.

Use of an analog computer in studying the performance of a traction motor in nonsteady operation. Potential stability criteria. Izv.vys. ucheb.zav.; elektromekh. 7 no.10:1195-1199 '64.

(MIRA 18:1)

1. Rukovoditel' gruppy Vsesoyuznogo nauchno-issledovatel'skogo i proyektno-konstruktorskogo instituta elektrovozostroyeniya.

VASILENKO, I.

The master miner is the labor organizer of his shift. Mast.
ugl. 3 no.8:6-7 Ag '54. (MIRA 7:9)

1. Gornyy master shakhty im. Ordzhonikidze kombinata Sta-
linugol'.
(Coal mines and mining)

V I I H /
SATANOVSKIY, L., inzhner-podpolkovnik; VASILENKO, I., mayor tekhnicheskoy sluzhby.

Method for reconditioning blancer bushings. Tankist no.5:56-57 My
'56. (MIRA 11:3)
(Tanks (Military science)--Engines--Maintanance and repair)

VASILENKO, I.

A communist labor plant. Sov.profsoiuzy 16 no.13:21-25 J1 '60.
(MIRA 13:8)

1. Predsedatel' zavkoma Dneprodzerzhinskogo koksokhimicheskogo
zavoda.

(Efficiency, Industrial)
(Dneprodzerzhinsk--Trade unions)

RAYEVSKIY, N.P.; VLADIMIROV, B.V.; KOMAROV, N.S., red.; SHCHUCHKIN, N.V.,
red.; SOLOV'YEV, D.I., red.; RABINOVICH, I.P., red.; VASILENKO,
I.F., red.; MODEKL', B.I., tekhn. red.

[Theory, design, and manufacture of agricultural machinery] Teoriia,
konstruktsiia i proizvodstvo sel'skokhoziaistvennykh mashin. Moskva,
Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol.7. [Atlas of
general agricultural machinery parts] Atlas obshchikh detalei sel'khoziai-
stvennykh mashin. 1945. 335 p. (MIRA 14:6)
(Agricultural machinery)

VASILENKO, Ivan Fomich

"Grain Combines," in the book Mashinostroyeniye. Entsiklopedicheskiy spravochnik (Encyclopedia of Machine Building), Vol. 12, Moscow, 1948 (Section 4)

"Agrotechnical Requirements and New Designs for Combines," in the book O novykh mashinakh dlya sotsialisticheskogo sel'skogo khozyaystva (New Machines for Socialist Agriculture), No. 3, 1948, (pages 4-10).

Bol'shaya Sevetskaya Entsiklopediya, Vol. VI, 2nd ed., Moscow, 1949

VASILENKO, I.F.

24981 Vasilenko, I.F. Zadachi Mekhanizatsii Vborke, Ochistki, Sortirovaniya
Zerna, Doklady Vsesoyuz. Akad. C.-x. Nauk Im. Lenina, 1949 vyp. 6, c.
104-11.

So: ⁶Setopis 'No 33, 1949

VASILENKO. I.F.; SERGEYEV. A.S.

Seed Industry

Continuous method of cleaning and drying newly harvested grain seeds. Sel. i sem., 19,
No. 7, 1952.

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

VASILENKO, I. \bar{r} .

Theory of the mechanism of harvesting machines. Tr. from the Russian. p. 369.
(VESTNIK, Vol. 4, No. 7/3, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

VASILENKO, I.F., akademik; AVDEYEV, N.Ye., inzh.; MOROZOV, A.F., inzh.;
SOLOV'YEV, V.M., kand.tekhn.nauk; KHYUKOV, V.L., red.; MAKHOVA,
N.H., tekhn.red.; BALLOD, A.I., tekhn.red.

[Grain combines of the U.S.S.R. and foreign countries; theory
and analysis of construction] Zernovye kombainy SSSR i zarubezh-
nykh stran; teoriia i analiz konstruksii. Pod red. I.F.Vasilenko.
Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 294 p. (MIRA 11:12)
(Combines (Agricultural machinery))

VASILANKO, I. F.

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PERIODICAL: S OBNK I DA N OUVISACE E BLEN RIFIKACI I ZHODLSTVI
VOL. 31, no. 5, Dec. 1959

Vasilanko, I. Use of radiosotopes in testing the grading of grain. p. 292.

Monthly List of East European Accessions (EEAI), IC, Vol. 8, no. 5,
May 1959, Unclass.

VASILENKO, I.F., akademik, red.; SOKOLOV, G.N., red.; ANTONOVA, N.M., tekhn. red.

[Mechanization and electrification of agriculture in the U.S.S.R.]
Mekhanizatsiia i elektrifikatsiia sel'skogo khoziaistva v SSSR.
Pod red. I.F.Vasilenko. Moskva, Izd-vo M-va sel'skogo khoz.SSSR,
1959. 244 p. (MIRA 12:10)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina. 2. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Vasilenko).
(Farm mechanization) (Electricity in agriculture)

ACCESSION NR: AT4023780

S/2723/63/000/002/0128/0133

AUTHOR: Gulyanitskiy, A. A.; Miktitshin, S. I.; Ty*nny*y, A. N.; Vasilenko, I. I.

TITLE: The effect of sulfur and dichloramine B additions to oil on the interaction between the friction surfaces

SOURCE: AN UkrRSR. Insty*tut mashy*noznavstva i avtomaty*ky*, L'viv. Vliyaniye rabochikh sred na svoystva materialov (Effect of active media on the properties of materials), no. 2, 1963, 128-133

TOPIC TAGS: oil additive, lubrication, adhesion, seizing sulfur additive, dichloramine, oil, sulfuric acid, dichloramine B, scoring

ABSTRACT: In publications by A. K. Zaytsev and by S. Ya. Veyler and V. I. Likhtman, it was shown that the introduction of sulfur into oil prevents adhesion and seizing. The aim of the present investigation was to determine the influence of oil additives on score prevention and working in of metal rods used for hydraulic pumps, as well as to study the effect of working in on ultimate work capacity. Bronze, different types of cast iron, and lead-coated steel were tested on AIMI-160 friction machines, operating in industrial oil 20. The favorable influence of additives such as sulfur and dichloramine B was explained by the action of iron sulfides and chlorides on the contacting surfaces, resulting

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ACCESSION-NR: AT4023780

in low shear-strain resistance. Dichloramine β was particularly effective since it saturates the surface layer and ensures high anti-seizing action even when the oil continues to work without additives. Dichloramine B is considered preferable to other existing additives. Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: Insty*tut mashy*noznavstva i avtomaty*ky* AN UkrRSR, Lvov
(Institute of Machine Technology and Automation, AN UkrRSR)

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ENCL: 00

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NO REF SOV: 004

OTHER: 000

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Card

MIKITISHIN, S.I.; VASILENKO, I.I.

Effect of hydrogen on the character of the stress-deformation curve.
Vliian. rab. sred' na svois. mat. no.3:28-34 '64.

(MIRA 17:10)

VASILENKO, I.I.; TYNNYY, A.N.; MIKITISHIN, S.I.

Method of increasing the hardness of friction surfaces. Vliian. rab.
sred-na svois. mat. no.3:151-154 '64. (MIRA 17:10)

TYNYY, A.N.; VASILENKO, I.I.; MIKITISHIN, S.I.

Investigating the changes in electric resistances and micro-hardness of workhardened materials at low-temperature annealing.
Vop. mekh. real. tver. tela no.3:174-178 '64.

(MIRA 17:11)

GULYANITSKIY, A.A.; TYNNY, A.N.; BARAN, M.I.; MIKITISHIN, S.I.; VASILENKO,
I.I.

Antiseizing and antifriction properties of metals in engine-pump
parts. Nauch.zap. IMA AN URSR. Ser. mashinoved. 10:148-151 '64.

Effect of heat treatment of the blades of hydraulic pumps on their
wear. Ibid.:158-164 (MIRA 17:10)

TYNYY, A.N.; VASILENKO, I.I.; MIKITISHIN, S.I.

Changes in the structure of surface layers caused by wear. Nauch.zap.
IMA AN URSR.Ser.mashinoved. 10:152-157 '64.

(MIRA 17:10)

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IJP(c) JD/JW/JG/WB

ACCESSION NR: AP5019662

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57

AUTHOR: Tkachenko, N. N.; Vasilenko, I. I.; Karpenko, G. V.

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51

TITLE: Fracture of copper alloys during tests in mercury salt solutions

B

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 3, 1965, 355-360

55,71

TOPIC TAGS: copper alloy, brass fracture, bronze fracture, mercury nitrate solution, embrittlement, brittle fracture, anodic polarization, cathodic polarization

ABSTRACT: The fracture of brass under the action of mercury is usually attributed to its embrittlement owing to the penetration of atoms of mercury. The attendant decrease in strength and plasticity is due to a more or less pronounced decrease in the specific free energy of the new surfaces that develop in the process of plastic deformation, as a result of the adsorption of mercury ions thereon as well as of the formation of amalgams. During tests of brass in solution of mercury nitrate, the diffusion penetration of mercury into brass may be accompanied by the dissolution of anodic sectors, which usually contributes to crack formation. Considering, however, that cathodic polarization from an external current source was absent

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prior to fracture (although in many cases of corrosion cracking cathodic protection prolongs the time until fracture), it had been concluded (R. B. Mears, R. H. Brown, E. H. Dix, Symposium on Stress Corrosion Cracking of Metals, ASTM-AIME, 1944, 67-110) that the fracture of brass in solutions of mercury salts (in the absence of polarization) is due to the penetration of mercury into the metal. In this connection, to clarify the role of anodic processes, the authors investigated the effect of anodic and cathodic polarization, in the presence of different current densities, on the length of the period until the fracture of brass in mercury nitrate solutions. Cylindrical specimens of brass and aluminum bronze (7% Al, 2% Fe, 91% Cu) with uniformly pure surfaces were, after machining and 2 hr annealing in a vacuum ($1 \cdot 10^{-4}$ mm Hg) at 300°C, subjected to fracture tests and tensile tests in special machines while being immersed in a bath of 0.15% mercury nitrate solution. The time until fracture was determined from the instant the solution was poured into the tank. Control experiments without polarization from an external current source also were performed (the platinum electrode was removed from the bath). It was found that both anodic and cathodic polarization accelerated the embrittlement and fracture of the specimen, anodic polarization being particularly effective. In the case of brass this effect of mercury was more marked than in the

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L 01123-66

ACCESSION NR: AP5019662

case of bronze. This is primarily attributed to the presence of ²¹zinc in bronze. Under conditions of the experiment, anodic polarization only partly prevented the deposition of mercury ions on the brass surface. At the same time it led to an intense dissolution of anodic sectors of the metal and thereby to the facilitation of crack formation in the surface layers, which were already embrittled by the penetrated mercury. A major role in accelerating the formation and development of cracks in the presence of anodic polarization is played by the selective nature of penetration of mercury into the metal -- through the adsorptional migration over grain boundaries and over the outcropping surface dislocations and other structural defects. As a result of such a mercury penetration, the metal becomes strongly embrittled and, in addition, the heterogeneity of its structure is enhanced, thus apparently leading to an intensification of electrochemical processes. Thus, anodic polarization leads to a sharp decrease in strength and plasticity but only in the cases where the surface layers are embrittled by the mercury diffusing into them. Orig. art. has: 6 figures. 4

ASSOCIATION: Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov (Physico-Mechanical Institute, AN UkrSSR)

44,55

Card 3/4

L 01123-66

ACCESSION NR: AP5019662

SUBMITTED: 26Feb65

ENCL: 00

SUB CODE: MM, GC

NO REF SOV: 006

OTHER: 002

Card 4/4

DP

L 11421-66

ACC NR: AP6002119

SOURCE CODE: UR/0369/65/001/006/0697/0700

AUTHOR: Vasilenko, I.I.; Tkachenko, N.N.; Karpenko, G.V.

ORG: Physicomechanical Institute, AN UkrSSR, L'vov (Fiziko-mekhanicheskiy institut AN UkrSSR)

TITLE: Effect of electrodeposits on cracking of hardened steel during testing in air and in hydrogenating corrosive media

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 6, 1965, 697-700

TOPIC TAGS: copper, nickel, cadmium, zinc, chromium, protective coating, steel, hydrogen embrittlement, sulfuric acid, corrosion protection, cathode polarization, tensile strength

ABSTRACT: The effect of cadmium, zinc, nickel, chromium, copper, and brass plating and of aging conditions after deposition on the short-term and long-term static strength of oil-hardened 45 steel was studied by testing in air and in 20% H₂SO₄. The coatings were found to decrease σ_b considerably. Aging for 2 hr. at 210 - 220C completely restored the strength of Cr- and Ni-plated samples, but not in the case of the other deposits. The effect of aging temperature on the recovery of the strength of Cd, Zn, and Card 1/2

2

L 14/21-66

ACC NR: AP6002119

Cu-plated samples was studied. The decrease in long-term strength observed in the latter case was due to an incomplete desorption of the hydrogen dissolved in the metal. In 20% H₂SO₄, of all the metals, only the copper deposit provided a complete protection against corrosive attack of the steel. It is postulated that these protective properties are due to the low diffusional permeability of the coating to hydrogen. The copper deposit prevents hydrogen desorption during aging and protects the steel against hydrogen absorption during testing in the electrolyte both with and without cathodic polarization. Copper plating is therefore recommended for practical applications of this type. Orig. art. has: 3 figures and 1 table.

SUB CODE: 11, 07 / SUBM DATE: 27Jun85 / ORIG REF: 004 / OTH REF: 004

FW
Card 2/2

VABISHKO, I.I.; KOVCHIK, S.Ye.; MIKITENKO, S.I.

Effect of the external medium on the disintegration energy of
U-8 carbon steel. Fiz.-khim. mekh. mat. 1 no.1:14-21 '65.

(MIRA 19:1)

1. Fiziko-mekhanicheskiy institut AN UkrSSR, Lvov. Submitted
September 5, 1964.

TKACHENKO, N.N.; VASILENKO, I.I.; KARPENKO, G.V.

Modeling the corrosive effect of a working medium on the strength of geometrically similar specimens. Fiz.-khim. mekh. mat. 1 no.5: 539-541 '65. (MIRA 19:1)

1. Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov. Submitted April 14, 1965.

VASILENKO, I.I.; KARPENKO, G.V.; MIKITISHIN, S.I.; TRACHENKO, N.N.

Reversible and irreversible hydrogen brittleness. Fiz.-khim. mekh.
mat. 1 no.5:624-625 '65. (MIRA 19:1)

1. Fiziko-mekhanicheskiy institut AN UkrSSR L'vov. Submitted
June 16, 1965.

VASILENKO, I.I. [Vasylenko, I.I.], kund.tekhn.nauk

Mekh. sil'. hosp. 9 no.10:16-17 0 '58. (MIRA 11:10)
(Agricultural machinery--Hydraulic equipment)

VASILENKO, I.I. [Vasylenko, I.I.], kand.tekhn.nauk; KAL'BUS, G.L.,
[Kal'bus, H.L.], kand.tekhn.nauk

Control board with instruments for the testing of brakes
without removing the engine from the tractor. Mekh.sil'.
hosp. 10 no.12:12-13 D '59. (MIRA 13:3)
(Tractor breaks)

NASTENKO, M.M., nauchnyy rabotnik; VASILENKO, I.I. [Vasylonko, I.I.],
nauchnyy rabotnik

Automatic control of SKEM-20 sugar beet combines. Mekh.sil'.
hosp. 11 no.3:25-26 Mr '60. (MIRA 13:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanizatsii i
elektrifikatsii sel'skogo khozyaystva.
(Sugar beets--Harvesting) (Automatic control)

NASTENKO, M.M.; nauchnyy sotrudnik; VASILENKO, I.I. [Vasylenko, I.I.],
nauchnyy sotrudnik; DCVBISH, V.M. [Dovbysh, V.M.], nauchnyy sotrudnik

Attachment for the sutomatic control of tractors. Mekh. sil'.
hosp. 12 no.7:29-30 J1 '61. (MIRA 14:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanizatsii i
elektrifikatsii sel'skogo khozyaystva.
(Tractors) (Automatic control)

LUK'YANYUK, V.I., kand. sel'skokhoz. nauk, dotsent; VASILENKO, I.I., aspirant

Effect of high fertilizing rates on the formation and performance
the photosynthetic apparatus in winter wheat plants. Izv.
TSKHA no.2:7-18 '63. (MIRA 16:10)

VASILENKO, P.M., akademik; VASILENKO, I.I., kand.tekhn. nauk;
YESIPOVICH, M.N., red.

[Automation of the processes of agricultural production]
Avtomatizatsiia protsessov sel'skokhoziaistvennogo pro-
izvodstva. Moskva, Kolos, 1964. 383 p. (MIRA 18:1)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk
imeni V.I.Lenina (for Vasilenko, P.M.).

L 10324-67 EWT(m)/EWP(t)/ETI IJR(c) JE/WB
ACC NR: AP6020921 SOURCE CODE: UR/0369/66/002/002/0227/0227
21/

AUTHORS: Vasilenko, I. I.; Vyval', I. P.; Karpenko, G. V.

ORG: Physical Mechanics Institute of the AN UkrSSR, L'vov (Fiziko-mekhanicheskiy institut AN UkrSSR)

TITLE: Some data pertaining to the effects of heat treatment on the corrosion cracking of carbon steel

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 2, 1966, 227

TOPIC TAGS: stress corrosion, corrosion resistance, metal property, steel/ 40Kh steel

ABSTRACT: The effects of surface heat treatment with high frequency current (HFC) on the surface corrosion cracking of 40Kh steel were investigated, and the results are very briefly reported. It was found that HFC surface hardening increased the static corrosion resistance (in 20% H₂SO₄, 100 hours) to 68 dynes/mm², i.e., twice that obtained for volume hardening of the specimens. The most effective surface treatment was found to be volume hardening and annealing (at 200C to HRC = 48--50) of the specimen followed by HFC surface annealing (to HRC = 27--30). The static corrosion strength of these specimens reached 115--120 dynes/mm².

SUB CODE: 11/ SUBM DATE: 03Aug65/ ORIG REF: 002

Card 1/1 Lm

ACC NR: AP6029686 (A) SOURCE CODE: UR/0369/66/002/004/0450/0456

AUTHOR: Baboy, Yu. I.; Vasilenko, I. I.; Karpenko, I. V.

ORG: Physics-Engineering Institute, AN UkrSSR, L'vov (Fiziko-mekhanicheskiy institut AN UkrSSR); Physics-Technical Institute of Low Temperatures, AN UkrSSR, Khar'kov (Fiziko-tekhnicheskiy institut nizkikh temperatur, AN UkrSSR)

TITLE: The influence of some types of mechanical processing on the stress corrosion cracking of 40-Kh steel (A)

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 4, 1966, 450-456

TOPIC TAGS: corrosion resistant steel, stress corrosion, thermal process, microgeometry

ABSTRACT: Results are presented from an investigation of the influence of the physical-mechanical state of the near-surface layers of metal and microgeometry of the surface of samples on their stress-corrosion cracking as a function of thermal and mechanical processing of the steel. The intensity and nature of the formation of fissures in the metal after these types of treatment is also studied. The studies were performed on steel oil-quenched from 850 C and tempered at 170, 320, 450, and 530 C for 2 hours. The stress-cracking tests were

Card 1/2

ACC NR: AP6029686

performed in 20% H₂SO₄ with monaxial extension. The types of surface processing were high-speed turning, pressure cutting, and grinding. The experiments showed that the various physical and mechanical states of the near-surface layer of the metal produced by various mechanical processes, even though the microgeometry of the surface was identical, resulted in different resistances to corrosion cracking. High-speed turning increased the resistance of the steel to stress-corrosion cracking over power turning, which leaves residual stresses in the metal. Turning of annealed and low-temperature-tempered steel, creating a solid white layer, sharply increases the resistance to stress corrosion cracking. After etching in an electrolyte, samples processed by high-speed turning showed reduced microirregularities, which cause an increase in resistance to stress cracking of these samples. The final mechanical treatment influences primarily the length of the incubation period of corrosion fissures. The investigation showed that the growth rate of fissures in flat samples in neutral and acid electrolytes was approximately identical and did not depend on the conditions of polarization, whereas the durability of cylindrical samples depends strongly on the pH of the electrolyte and the conditions of polarization. Orig. art. has: 5 figures and 1 table.

SUB CODE: 11/ SUBM DATE: 24Mar66/ ORIG REF: 005/ OTH REF: 002

Card 2/2

TKACHENKO, N.N.; VASILENKO, I.I.; KARPENKO, G.V.

Modeling the process of chemical dissolution of geometrically similar specimens. Fiz.-khim. mekh. mat. 1 no.2:144-146 '65.
(MIRA 18:6)

1. Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov.

KARPENKO, I.V.; VASILENKO, I.I.; KARPENKO, G.V.

Corrosion cracking of hardened steel in the presence of white
nonpickling layers on the surface of steel. Fiz.-khim. mekh.
mat. 1 no.2:167-171 '65. (MIRA 18:6)

1. Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov.

VASILENKO, I.I.

Corrosion cracking of carbon steel. Fiz.-khim. mekh. mat. 1
no.2:182-187 '65. (MIRA 18:6)

1. Fiziko-mekhanicheskiy institut AN UkrSSR, L'vov.

VASILENKO, I.I.

Seed sifting with horizontal oscillation of sieves. Nauch.trudy Inst.
mash. i sel'khoz.mekh. AN URSR 4:69-80 '54. (MIRA 9:9)
(Sieves) (Seeds)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858730002-7

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858730002-7"

DIDENKO, V.Ye.; TSAREV, M.N.; DMITRIYEV, M.M.; LEYTES, V.A.; OBUKHOVSKIY,
Ya.M.; IVANOV, Ye.B.; CHERTOK, V.T.; URSALENKO, R.N.; KRIGER, I.Ya.;
PINCHUK, A.K.; ANTONENKO, N.Z.; SMUL'SON, A.S.; VASIL'CHENKO, S.I.;
DRASHKO, A.M.; RAYEVSKIY, B.N.; KUCHIRYAVENKO, D.N.; SAVCHUK, A.I.;
ZHURAVLEVA, L.I.; BAUTIN, I.G.; KHRIYENKO, V.Ya.; MOSENKO, N.K.; CHE-
BONENKO, G.P.; LISSOV, L.K.; MAMONTOV, V.V.; BELUKHA, A.A.; POYDUN, V.F.;
VOLODARSKIY, M.B.; KAL'CHENKO, G.D.; LEVCHENKO, V.M.; BASHKIROV, A.A.;
VOROB'YEV, M.F.; IL'CHENKO, L.I.; PODSHIVALOV, F.S.; MOGIL'NIY, P.P.;
LEVI, A.R.; VASLYAYEV, G.P.; BURNEV, V.V.; OSYPA, S.S.; SAMOFALOV, G.N.;
FOMIN, A.F.; LESHCHINA, A.I.; FANKEL'BERG, G.Ye.; KHODANKOV, A.T.;
MAKARENKO, I.S.; KARPOVA, K.K.; VASILENKO, I.M.; VOLOSHCHUK, A.S.; SHEL-
KOV, A.K.; FILIPPOV, B.S.; TYUT'YUNNIKOV, G.N.; DOLINSKIY, M.Yu.; NIKI-
TINA, P.P.; MEDVEDEV, S.M.; TSOGLIN, M.E.; LERNER, R.Z.; BOGACHEV, V.I.

Mikhail Iakovlevich Moroz; obituary. Koks i khim.no.3:64 '56.(MLRA 9:8)
(Moroz, Mikhail Iakovlevich, 1902?-1956)

RABINOVICH, A.N., doktor tekhn. nauk; CHEPCHENKIV, N.I., kand. tekhn.
nauk; VASILENKO, I.N., inzh.

Transfer machines and lines. Mashinostroenie no.5:8-12 S-0 '63.
(MIRA 16:12)

1. L'vovskiy politekhnicheskii institut.

~~VASILENKO, I.S.~~

Checking internal-contact gears. Izv.tekh.no.3:75-76 My-Je '56.
(Gearing--Measurement) (MIRA 9:9)

VASILENKO, I.S.

Multiple utilization of height gauges. Izv.tekh.no.6:83-85 H-D
'56. (MIRA 10:1)

(Gauges)

VASILONKO, I.S.

Category : USSR/General Problems - Method and Technique of Investigation. 1-4

Pub Jour : Izv Zhur - Fizika, No 3, 1957, No 5605

Author : Vasilonko, I.S.

Title : Preparation of Transparent Scales.

Orig Pub : Izmcrit. tekhnika, 1956, No 3, 81-82

Abstract : Description of a simple method for placing lines, longitudinal lines, sections of curves, etc, on organic glass. The necessary drawing made by pricking (pressing) the lines and dots on the glass. The device employed was a tool-making microscope.

Card : 1/1

AUTHOR: Vasilenko, I.S.

SOV/115-58-1-12/50

TITLE: An Electric Contact Device for a Height Gage (Elektrokontakt-
noye ustroystvo k shtangenreysmasu)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 1, p 23 (USSR)

ABSTRACT: The article describes a contact device for a height gage to measure the diameters of parts with non-continuous surfaces and uneven numbers of projections. The electric contact head comprises an electric bulb which flashes in the moment of contact with the surface of the part being measured. There is 1 photo.

1. Gages--Design 2. Electricity---Applications

Card 1/1

AUTHOR: ~~Vasilenko, I.S.~~ SOV-115-58-4-41/45

TITLE: Improving the Quality of Measuring Equipment (Uluchshat' kachestvo izmeritel'nykh priborov)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 4, pp 93-94 (USSR)

ABSTRACT: The author lists the random and general defects of the UIM-21 universal microscope produced by the Leningradskiy zavod (Leningrad Plant) and of the BP large projector of the Novosibirskiy zavod (Novosibirsk Plant), and suggests means by which these defects could be eliminated.

1. Measurement--Instrumentation

Card 1/1

SOV/115-59-7-6/33

25(1), 28(2)

AUTHOR: Vasilenko, I.S.

TITLE: Flexible Templates

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 7, p 10 (USSR)

ABSTRACT: The author suggests using used photographic or X-ray film for manufacturing flexible templates for checking the profile of a product (for example, radius of curvature, angles, etc.) when proper templates are not available and the usual manufacture of the latter is not suitable. The author explains briefly how to produce such a template from film of 0.2 mm thickness using a compass.

Card 1/1

25(6)

S/115/60/060/02/005/031
D002/D003

AUTHOR: Vasilenko, I.S.

TITLE: End-Pieces for Inner Measurements⁴

PERIODICAL: Izmeritel'naya tekhnika, 1960, Nr 2, p 7 (USSR)

ABSTRACT: Inner grooves or stepped diameters (Figure 1) are difficult to measure with a high accuracy. The "IZO-1" accessory to the "UIM-21" microscope is recommended, having an end-piece with a big diameter sphere. Such an end-piece can be made of a ball used for ball bearings, by cutting away two segments, leaving a plate 4-6 mm high. This plate can be pressed on a rod (Figure 2a) or glued to the rod flange (Figure 2b) by means of carbinol glue. There are 2 diagrams. ✓

Card 1/1

VASILENKO, I.S.; SHMELEVA, Ye.Ye.

Cancer of the cervix uteri in complete prolapse. Vop.onk. 5 no.11:
605-606 '59. (MIRA 14:7)

1. Iz rayonnoy bol'nitsy (glavnyy vrach - A.S.Kolatakov) g.Zadonsk,
Lipetskoy oblasti). Adres avtora: g. Zadonsk, Lipetskoy oblasti,
Rayonnaya bol'nitsa.

(UTERUS--CANCER)

VASILENKO, I.S. (Kiyev, Andreyevskiy spusk, d.34, kv.40)

Intravenous drip administration of a novocaine solution in the treatment of endarteritis obliterans. Nov. khir. arkh. no.4:74-79 JI-Ag 160. (MIRA 15:2)

1. Kafedra khirurgii I 9 zav. - prof. V.I.Akimov) Kiyevskogo instituta usovershenstvovaniya vrachey.
(ARTERIES...DISEASES) (INJECTIONS, INTRAVENOUS)
(NOVOCAINE)

VASILENKO, I.S.

The use of prolon for plastic surgery of the anterior abdominal wall. Vest. khir. 91 no.7:51-52 J1'63 (MIRA 16:12)

1. Iz khirurgicheskogo otdeleniya (zav. - I.S.Vasilenko) Zadonskoy mezhrayonnoy bol'nitsy (nauchnyy rukovoditel' raboty - zav. kafedroy operativnoy khirurgii s topograficheskoy anatomichey Voronezhskogo meditsinskogo instituta prof. T.F.Lavrova)
Adres avtora: Zadonsk, Lipetskoy obl., rayonnaya bol'nitsa.

VASILENKO, I.Ya., kand.med.nauk, podpolkovnik meditsinskoy sluzhby

"Protecting open waters from contamination by radioactive substances"
by A.N. Marei. Reviewed by I.IA. Vasilenko. Voen.-med.shur. no.8:
93-94 Ag '59. (MIRA 12:12)

(WATER--POLLUTION)

(RADIOACTIVE SUBSTANCES)

(MAREI, A.N.)

VASTIENKO, J.

"Unexploited Possibilities in Rolling Mills." Tr. from the Russian. p. 157
(Hutnik, Vol. 3, no. 7/8, Aug. 1953, Praha)

SO: Monthly List of East European Accessions, Vol. 3, no. 2, Library of Congress,
Feb. 1954, Uncl.

(What the Soviet regime has given youth) (Moskva) Molodaia gvardiia, 1947.
223 p. (48-24580)

HQ799.R9V3

VASILENKO, K.F., mladshiy nauchnyy sotrudnik

Migration of the causative organs from fowl tuberculosis to cattle.
Veterinariia 41 no.3:26-28 Mr '64. (MIRA 18:1)

1. Sibirskiy nauchno-issledovatel'skiy veterinarnyy institut.

Category: USSR / Physical Chemistry - Kinetics. Combustion.
Explosives. Topochemistry. Catalysis.

B-9

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30020

Author : Zakhar'yevskiy M. S., Vasilenko K. M.

Inst : not given

Title : Concerning the Mechanism of the Reaction of Saccharose Hydrolysis

Orig Pub: Zh. obshch. khimii, 1956, 26, No 8, 2304-2311

Abstract: Reaction velocity of hydrolysis of saccharose (I) was determined polarimetrically in aqueous and aqueous-alcoholic solutions, at different concentrations of HCl, alcohol and I, and at 25°. Due to mutarotation of glucose and fructose the final angle of rotation α changes with time and passes thru a minimum. For a given concentration of I the minimum value of α was taken. From data found in the literature and those secured by the authors, an empirical equation has been derived for the experimental velocity constant of the reaction $K(\text{min}^{-1})$, in aqueous solution: $K(\text{H}_2\text{O})/(\text{HCl}) = 0.182 \cdot 10^{0.270} (\text{HCl})$. A scheme of the reaction is proposed:

Card : 1/2

-9-

Category: USSR / Physical Chemistry - Kinetics. Combustion.
Explosives. Topochemistry. Catalysis.

B-9

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30020

$C_2H_5OH + H^+ \rightarrow X^+$ (slow stage), $X^+ + H_2O \rightleftharpoons X^+ \cdot H_2O$;
 $X^+ \cdot H_2O \rightleftharpoons 2C_2H_5OH + H^+$; $H^+ + H_2O \rightleftharpoons H_3O^+$. It is shown that
this scheme coincides, quantitatively, with experimental data.
From the reaction scheme there has been derived for the ratio of
dissociation constants of oxonium and ethoxonium ions the value
 6.3 ± 0.7 .

Card : 2/2

-10-

ZAKHAR'YEVSKIY, M.S.; VASILENKO, K.M.

Applicability of thin film electrodes for the study of oxidation-
reduction systems. Uch.sap.LGU no.272:48-56 '59.

(MIRA 13:1)

(Oxidation-reduction reaction) (Glass electrode)

VASILENKO, K.M.

5(2) PHASE I BOOK EXPLOITATION SOV/79-6

Leningrad. Universitet

Voprosy khimii (Problems in Chemistry) [Leningrad] Ied.-o Leningradskogo univ., 1959. 160 p. (Series: Ita; Uchenyye zapiski, no. 272) (Series: Leningrad. Universitet. Khimicheskiy fakul'tet. Uchenyye zapiski. Seriya khim. chemich. nauk, vyp. 16) 1,600 copies printed.

Resp. Ed.: A. G. Morozhevskiy; Ed.: Ye. V. Shchemel'eva; Tech. Ed.: S. D. Voozina.

PURPOSE: This book is intended for chemists in research and industry as well as for teachers and students in chemical vases.

COVERAGE: This collection of eighteen articles on various branches of chemistry, mainly physical and analytical, was compiled on the basis of experimental research by the Chemistry Department of Leningrad University. The articles deal chiefly with methods of isolating rare earths in pure form and identifying them. No personalities are mentioned. References accompany individual articles.

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ASTROV, Mikhail Sergeevich(1882-1957); VASILENKO, L.D., prof., red.;
UMAROV, A.S., dots., red.; BOROVKOVA, Ye.V., dots., red.;
ASHARAPOVA, M.A., dots., red.; NURMUKHAMEDOV, R.M., kand.
med. nauk, red.; AKSEL'ROD, M.B., red.; TSAY, A.A., tekhn.
red.

[Selected works] Izbrannye trudy. Tashkent, Medgiz, 1962.
350 p. (MIRA 16:4)

(SURGERY)

KABO, I.D.; LITVIN, N.A., kand. sel'skokhoz. nauk; BELOUS, N.V.; VASILENKO, L.D.; ZEYFERT, O.A.; KOVALEV, F.V.; TURULEV, V.K., aspirant

Sorgo as a valuable crop. Zemledelie 27 no.4:52-61 Ap '65.
(MIRA 18:4)

1. Nachal'nik Upravleniya zernovykh i kormovykh kul'tur Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktov Uzbekskoy SSR (for Kabo). 2. Ukrainskiy nauchno-issledovatel'skiy institut oroshayemogo zemledeliya (for Litvin, Belous, Vasilenko). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut agrolesomeliioratsii (for Zeyfert). 4. Donskoy sel'skokhozyaystvennyy institut (for Kovalev, Turulev).

GORIZONTOVA, Ye.A.; DOLGOVETSKIY, V.V., otv. za vyp.; VASILENKO,
L.K., otv. za vyp.; MANVELOVA, Ye.S., tekhn. red.

[Processing of poultry in the enterprises of the German
Democratic Republic] Pererabotka ptitsy na predpriati-
iakh GDR. Moskva, TsINTIipishchprom, 1963. 13 p.

(MIRA 16:11)

(Germany, East--Poultry plants)

ZAYAS, Yu.F., kand. tekhn. nauk; DOLGOVSKIY, V.V., otv. za vyp.;
VASILENKO, L.K., otg. za vyp.; RYBAKOVA, L.G., tekhn.red.

[Ways for using ultrasonic waves in the meat industry]
Puti primeneniia ul'trazvuka v miasnoi promyshlennosti.
Moskva, TSintipishcheprom, 1963. 42 p. (MIRA 17:1)

KASHIRINA, V.M.; DOLGOVSKIY, V.V., otv. za vyp.; VASILENKO, L.K.,
otv. za vyp.; MANVELOVA, Ye.S., tekhn. red.

[Manufacture of meat products in Czechoslovakia] Proizvod-
stvo miasnykh produktov v Chekhoslovakii. Moskva,
TsINTPishcheprom, 1963. 47 p. (MIRA 16:11)
(Czechoslovakia--Meat industry)

ACC NR: AT6036464

SOURCE CODE: UR/0000/66/000/000/0008/0008

AUTHOR: Babakumova, I. A.; Vasilenko, L. K.; Kozlova, A. N.; Kondrat'yev, Yu. I.;
Ushakov, A. S.

ORG: none

TITLE: Data on the food value of several life support system biocomponents
[Paper presented at conference on problems of space medicine held in Moscow
from 24-27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy
kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii,
Moscow, 1966, 8

TOPIC TAGS: life support system, closed ecological system, space nutrition,
space food, chlorella

ABSTRACT:

Experiments were performed testing the nutritional value of uni-
cellular algae, yeasts, and bacteria (including organism with an altered
amino acid composition). Young male rats were used in experiments
which averaged about a month in duration. In some experiments viability

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was tested. Weight, external appearance, behavior, and appetite were observed. Assimilation of basic substances, the nitrogen balance, the composition of hemoglobin and erythrocytes in the blood, and certain biochemical indices were determined.

Pathological examination of the animals was performed and individual internal organs were weighed. In experiments where unicellular algae were used as the source of protein, the average duration of viability was 5.5 months. When animals were fed only the biomass of the algae, they lived only about one month. Death results from malnutrition. Experiments showed that greatest nutritional value was provided when the biomass of unicellular algae was augmented by an increased amount of cysteine. The least value was provided by biomass of yeasts. The nutritional value of the purified biomass of microbacteria was higher than that of the unpurified biomass. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

Card 2/2

MOSUNOV, V.B.; NESELOVSKAYA, V.K.; GOL'DINA, G.S.; SERAFIMOVA, A.M.;
BIRALO, T.I.; VASILENKO, L.N.; SUKHOVA, M.N.; GROVZDEVA, I.V.;
MISNIK, Yu.N.; TETEROVSKAYA, T.O.; BOLOTOVA, T.A.; KHOLUDOVA, G.Y.;
STOROZHEVA, Ye.M.; SAMSONOVA, A.M.

Sensitivity to chlorophos, trichlorometaphos, DDT, hexachloro-
cyclohexane and polychloropinene in housefly populations fol-
lowing the use of these insecticides for several years. Zhur.
mikrobiol., epid. i immun. 42 no.8:7-14 Ag '65. (MIRA 18:9)

1. Tsentral'nyy nauchno-issledovatel'skiy dezinfektsionnyy in-
stitut, Moskva, Mytishchinskaya i Tashkentskaya gorodskiy sanitarno-
epidemiologicheskoye stantsii, Tashkentskaya i Minskaya gorodskiy
dezinfektsionnyye stantsii i Brestskaya gorodskaya i Brestskaya
oblastnaya sanitarno-epidemiologicheskoye stantsii.

VASILENKO, L.N.; SERAFIMOVA, A.M.

Use of chlorophos in the control of houseflies resistant to the
action of chlorinated hydrocarbons. Zhur.mikrobiol., epid.i immun.
33 no.8:124 Ag '62. (MIRA 15:10)

1. Iz Brestskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.
(FLIES--EXTERMINATION) (CHLOROPHOS)

L 23405-66 EWT(1)/T RO/JK

ACC NR: AP6014013

SOURCE CODE: UR/0016/65/000/008/0007/0019

AUTHOR: Sulhova, M. N.; Gvozdeva, I. V.; Misnik, Yu. N.; Teterovskaya, T. O.; Bolotova, T. A.; Kholodova, G. K.; Samsonova, A. M.; Gol'dina, G. S. - Goldina, G. S.; Storozhova, Ye. M. - Storozhova, E. M.; Mosunov, V. B.; Masolovskaya, V. K.; Serafinova, A. M.; Biralo, T. I.; Vasilenko, L. N.

ORG: Central Scientific Research Disinfection Institute, Moscow (Tsentral'nyy nauchno-issledovatel'skiy dezinfektsionnyy institut); Mytishchi City Sanitary Epidemiological Station, Mytishchi (Mytishchitskaya gorodskaya sanitarno-epidemiologicheskaya stantsiya); Tashkent City Sanitary Epidemiological Station, Tashkent (Tashkentskaya gorodskaya sanitarno-epidemiologicheskaya stantsiya); Tashkent City Disinfection Station, Tashkent (Tashkentskaya gorodskaya dezinfektsionnaya stantsiya); Minsk City Disinfection Station, Minsk (Minskaya gorodskaya dezinfektsionnaya stantsiya); Brest City Sanitary Epidemiological Station, Brest (Brestskaya gorodskaya sanitarno-epidemiologicheskaya stantsiya); Brest Oblast Sanitary Epidemiological Station (Brestskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya)

TITLE: Sensitivity of the house fly population to chlorophos, trichlorometaphos-3, DDT, hexachlorocyclohexane, and polychloropinene after many years of application of these insecticides

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 8, 1965, 7-14

TOPIC TAGS: entomology, insecticide, organic phosphorus compound, chlorinated organic compound

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UDC: 614.57:615.777/779:576.895.772.095.18

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ACC NR: AP6014013

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27

ABSTRACT: The sensitivity of flies to insecticides was studied in a number of cities. Tests were carried out on female flies by applying an acetone solution of the insecticide to the back and determining the LD₅₀. At Minsk and Brest, where sprinkling of walls with a 2-3% aqueous solution of chlorophos was applied for 7 and 6 years, respectively, increased tolerance of flies to this insecticide was observed. At Mytishchi, where chlorophos baits were used, particularly in the form of mixtures containing ammonium carbonate, the sensitivity of flies to this insecticide remained undiminished. No increase in the tolerance of southern house flies (*Musca domestica vicina* Macg.) to chlorophos after application of this insecticide in Tashkent for 4-5 years was observed. Use of trichlorometaphos as a larvicide reduced the sensitivity of flies to this insecticide to a small extent in Mytishchi, Minsk, and Brest, but not to a degree which could be regarded as an increase in tolerance (defined as a decrease of sensitivity by a factor of 2-4). The sensitivity of flies to trichlorophos was unaffected after use of this insecticide in Tashkent. Flies at Minsk and Brest which had developed a tolerance to chlorophos also showed an increased resistance to DDT and hexachlorocyclohexane (this increase in resistance also developed to a minor extent at Mytishchi). However, the increase in the resistance to hexachlorocyclohexane was presumably not related to the use of organophosphorus compounds, but due to the application of polychloroprene in these localities. Existence of a relation between increased resistance to DDT and tolerance to chlorophos was more likely. Southern flies in Tashkent, which retained sensitivity to chlorophos to the full extent, did not exhibit an increase in the resistance to DDT. After a

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ACC NR: AP6014013

6 to 7 year discontinuance of the use of chlorinated hydrocarbons in Tashkent, a moderate tolerance to DDT that was on the initial level remained. while the resistance to hexachlorocyclohexane decreased by a factor of three. The most expedient methods for the extermination of flies are used of chlorophos - ammonium carbonate baits to exterminate imago and application of larvicides, specifically those containing trichlorometaphos - 3 in optimum doses, so that development of tolerance will be prevented. Orig. art. has: 4 figures and 2 tables.

[JPRS]

SUB CODE: 06, 07 / SUBM DATE: 24Sep65 / ORIG REF: 004 / OTH REF: 004

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