The D[illegible]tion of Thiosulphate and Rhodanide 32-12-11/71
[illegible] Troughs for the Thermal Sulfonation of Metals

solution is iodometrically adjusted with respect to the titration of the separated iodine; however, the filter is adjusted according to rhodanide and if the iron-iodometric method is applied, more accurate results are obtained. The method was tested with artificially composed mixtures. (The analysis is described and tables of results are given). There are 2 tables, and 4 references, 3 of which is Slavic.

ASSOCIATION: Rostov State University and "Rostsel'mash" Plant (Rostovskiy gosudarstvennyy universitet i zavod "Rostsel'mash")

AVAILABLE: Library of Congress

Card 2/2 1. Iron metal sulfides-Thermal sulfonation-Processes
2. Disulfide determination-Iodometrical methods

STOROZHEV, A.

The decisions of the December and February Plenums of the Central Committee of the CPSU should be carried out. Metallurg 9 no.7:5-6 Jl '64. (MIRA 17:8)

1. Zamestitel' predsedatelya zavodskogo komiteta Cherepovetskogo metallurgicheskogo zavoda.

USSR / Pharmacology, Toxicology. Chemo-Therapeutic Preparations. Antibiotics. V

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 27916

Author : Sterezhev, A. I.; Vais, R. A.; Eydel'shteyn, S. I.; Rykova, M. A.; Perezina, Ye. K.

Inst : Not given

Title : The Influence of Streptomycin With an Admixture of Molybdenum on the Animal Organism

Orig Pub : Farmakol. i toksikologiya, 1958, 21, No 1, 67-71

Abstract : Prolonged subcutaneous introduction to white mice and rats of a solution of molybdenum phosphate (I) in a dose of 0.2-4 gamma as well as in the form of admixture to streptomycin does not induce any negative influence on the growth and development of young animals. Multiple injections of 16-30 gamma of I and its mixture with streptomycin do not induce an influence on the function of kidneys and diuresis. Prolonged introduction to rabbits of

Card 1/2

STOROZHEV, A.; CHUDAKOV, V., mashinist elektromostovogo krana

It is for us to build communism, it is for us to live unier communism.
Metallurg 10 no.4:23-24 Ap '65. (MIRA 18:7)

1. Zamestitel' predsedatelya zavodskogo komiteta professional'nogo soyuza rabochikh metallurgicheskoy promyshlennosti Cherepovetskogo metallurgicheskogo zavoda (for Storozhev).

PETRICHENKO, V.K.; ZOMMER, Ye.F., inzhener, retsenzent; STOROZHEV, A.M., redaktor; POPOVA, S.M., tekhnicheskiy redaktor

[Antifriction materials and sliding bearings; reference manual] Antifriktsionnye materialy i podshipniki skol'sheniia. Spravochnik. Moskva, Gos. nauch.-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1954. 383 p. (MLRA 7:10)
(Friction) (Bearings (Machinery))

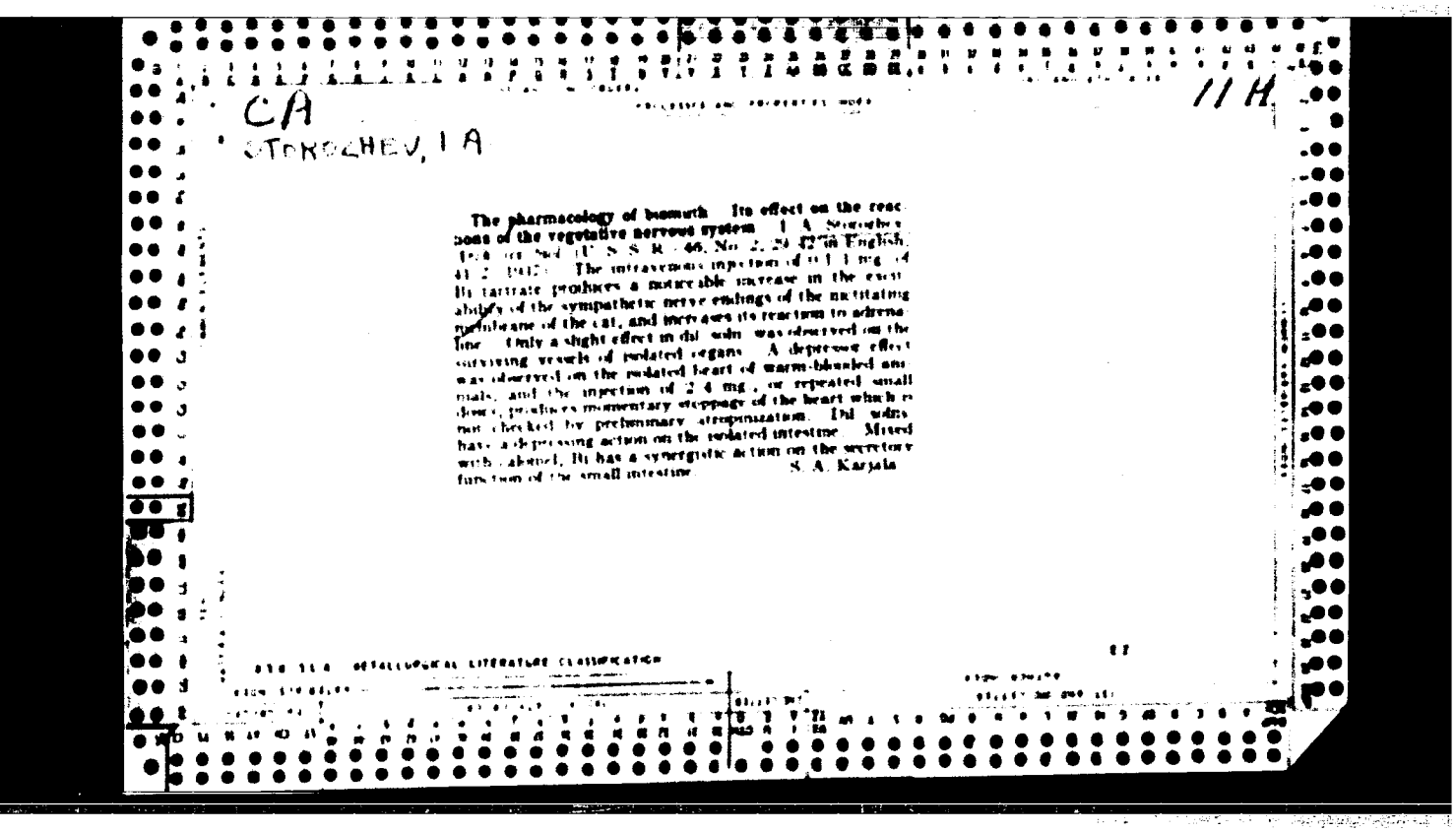
STOROZHEV, B.N., inzh.

Experience in the operation of a public bureau of economic analysis in an industrial thermal electric power plant. Prom. energ. 20 no.7:9-10 Jl '65. (MIRA 18:12)

[redacted]

[redacted], B.V., [redacted] ([redacted])

[redacted] of the General Electric Power Plant of the [redacted] Metallurgical Combine. Energetik 13 no. 11: 11-12 D '65 (MIRA 19:1)



CA

STOKOLCHEV, I A

11 H

The pharmacology of bismuth. Its effect on the reac
tions of the vegetative nervous system. I A Stokolchev
[illegible] Sovet U S S R 46, No 2, 59-62 (in English,
41 2 [illegible]). The intravenous injection of 0.1 mg. of
Bi tartrate produces a measurable increase in the excit
ability of the sympathetic nerve endings of the nictitating
membrane of the cat, and increases its reactions to adrena
line. Only a slight effect in this sense was observed on the
surviving vessels of isolated organs. A depressor effect
was observed on the isolated heart of warm-blooded ani
mals, and the injection of 2.4 mg., or repeated small
doses, produces momentary stoppage of the heart which is
not checked by preliminary atropinization. Bi salts
have a depressing action on the isolated intestine. Mixed
with alcohol, Bi has a synergistic action on the secretory
function of the small intestine. S. A. Karjala

The sympathicotropic action of ergotoxine. I. A. Stroghev. *Arch. sci. biol.* (U. S. S. R.) 60, No. 2, 83-4 (in English, 61) (1941). Exposure of isolated rabbit intestine to 1 : 10⁶ soln. of adrenaline results in an inhibitory effect which is neutralized by 1 : 10⁶ or 1 : 10⁵ soln. of ergotoxine phosphate.

S. A. Karjala

[illegible]

"[illegible] effect in the [illegible] of a horse by the [illegible] of [illegible]."
In [illegible] Moscow, 194[illegible], p. [illegible]

SO: U-[illegible], 16 June [illegible], (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

STOPOCHEV, I. A. Doc. Veterin Sci.

Dissertation: "Concerning the Mechanism of the Diuretic Action of Purine Derivatives."

3 Jun. 49

Moscow Veterinary Academy

SO Vechernyaya Moskva
Sum 71

STROZHEV, I.A.,; EIDEL'SHTEYN, S.I.,; BYKOVA, M.A.

Pharmacological evaluation of bicillin. Antibiotiki, Moskva 9 no.2:29-32 Mar-Apr 56 (MLRA 9:3)

1. Otdel eksperimental'noy terapii (zav.-chlen-korrespondent AMN SSSR prof. Z.V. Yermol'yeva) Vsesoyuznogo nauchno-issledovatel'skogo instituta antibiotikov.

(PENICILLIN, deriv.
benzathine penicillin G, pharmacol.)

STOROZHEV, I.A.; VUYS, R.A.; BYBEL'SHTEYN, S.I.; BYKOVA, V.A.; BEREZINA, Ye.K.

The effect of mixtures of molybdenum and streptomycin on animals [with summary in English]. Farm. i toks. 21 no.1:67-71 Ja-F '58. (MIRA 11:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov Ministerstva zdravookhraneniya SSSR.

(MOLYBDENUM,
mixture with streptomycin, physiol. & metab. eff. on animals (Rus)
(STREPTOMYCIN,
mixture with molybdenum, physiol. & metab. eff. on animals (Rus)

VEYS, R.A., STOROZHEV, I.A.

Pharmacology of sodium and ethylenediamine salts of chlortetracycline (biomycin) [with summary in English]. Farm. i toks. 21 no.5: 76-78 S-O '58 (MIRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(CHLORTETRACYCLINE,
sodium & ethylenediamine salts, pharmacol. (Rus))

STOROZHEV, I.A.; EYDEL'SHTEYN, S.I.; VEYS, R.A. (Moskva)

Effect of antibiotics of the tetracycline series on the motor activity of the gastrointestinal system. Pat.fiziol. i eksp.terap. 3 no.4:74-75 Jl-Ag '59. (MIRA 12:12)

1. Iz Vsesoyuznogo nauchno-issledovatel'skogo instituta antibiotikov (dir. M.A. Guberniyev).
(TETRACYCLINE pharmacology)
(GASTROINTESTINAL SYSTEM pharmacology)

STOROZHEV, I.A.; KIDEL'SHTEYN, S.I.

Pharmacological evaluation of nystatin. Antibiotiki 4 no.3: 65-70 My-Je '59. (MIRA 12:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ANTIBIOTICS,
nystatin, pharmacol. (Rus))

STOROZHEV, I.A.; EYDEL'SHTEYN, S.I.; VEYS, R.A.

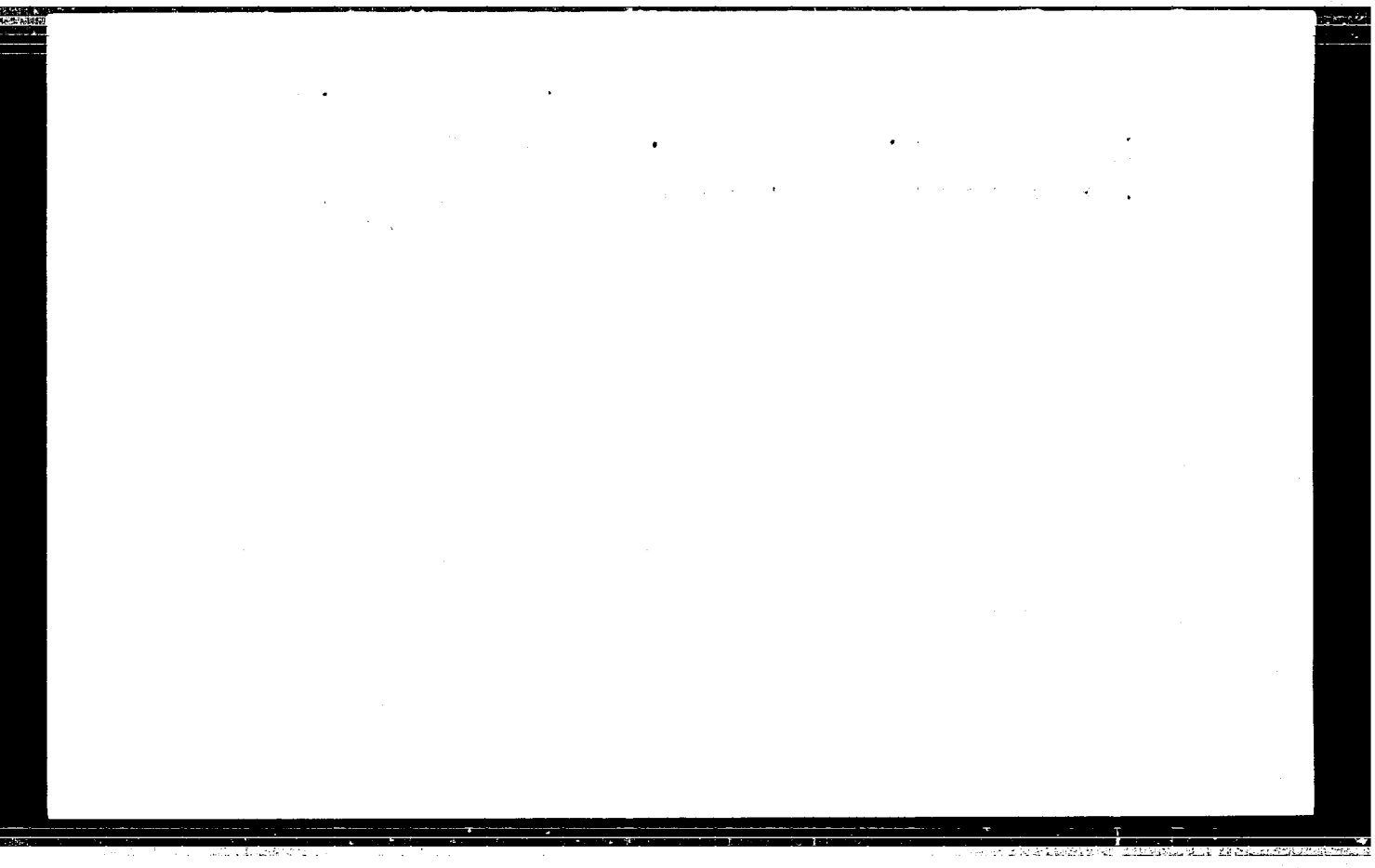
Pharmacology in framycin sulfate. Antibiotiki 7 no.10:896-900 O'62 (MIRA 16:12)

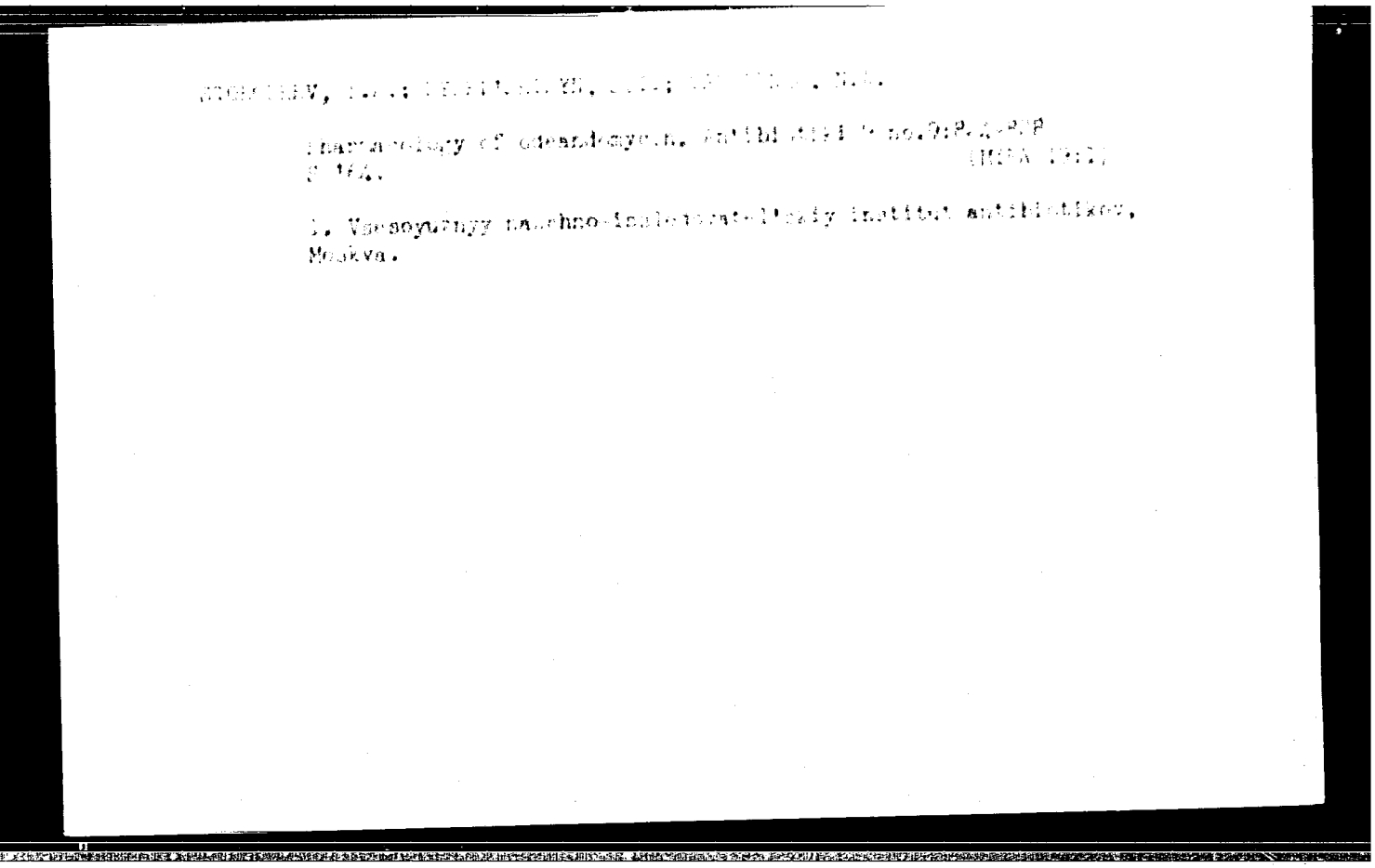
1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

VEYS, R.A.; STOROZHEV, I.A.

Pharmacology of erythromycin and its derivatives. Antibiotiki 7. No.12:1101-1106 D '62. (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(ERYTHROMYCIN)





BYKOVA, M.A.; STOROZHEV, I.A.; BEREZINA, Ye.K.

Pharmacology of d-cycloserine. Antibiotiki 10 no.7:626-629 Jl '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.

VASILEV, K.V., V.N., kand. tekhn. nauk; GRAUBE, Ye.S., kand. tekhn.nauk; [illegible] I.N., inzh.; SIONOZHEV, I.F., inzh.

New system of semiautomatic control of mine hoisting. Shakht. stroi. 8 no. [illegible] O '64. (MIRA 17:12)

1. Institut Gipronefteelektroshakht.

[illegible]

"Emploi [illegible] en diagnostic [illegible] de la réaction de fixation du complément pour la différentiation [illegible] [illegible]."

report submitted for 1st Intl Cong, Parasitology, Rome, [illegible] Sep 1[illegible].

Inst of Experimental Veterinary Medicine, Moscow [illegible].

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)

STOROZHEV, Lev Petrovich; BAGREYEV, V.V., nauchnyy red.; ITSKEVICH, G.M., nauchnyy red.; DEMINA, O.A., red.; PERSON, M.N., tekhn.red.

[Collected problems on theoretical mechanics and theory of mechanisms and machines] Sbornik zadach po teoreticheskoi mekhanike i elementam teorii mekhanizmov i mashin. Moskva, Vses. uchebno-pedagog.izd-vo Trudrezervizdat, 1959. 307 p. (MIRA 13:1)
(Mechanics--Problems, exercises, etc.)
(Mechanical engineering--Problems, exercises, etc.)

STOROZHEV, I.P., starshiy prepodavatel'

Charts for the analysis and synthesis of four-bar linkages.
Izv. vys. ucheb. zav.; mashinostr. no.4:71-83 '65.
(MIRA 18:5)

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Effect of repeated heat treatments on the properties of the VT5 alloy. Lit. proizv. no.11 (MIRA 19:1)

STOROZHEV, M. V.

"Electric Power Economy in Forging and Stamping Shops," Collection of Data of the Scientific and Technical Session on Electric Power Economy (Sbornik materialov nauchno-tekhnicheskoy sessii po ekonomii elektroenergii), No II, MONITOE, 1949, 139 pp.

All-Union Scientific and Technical Society of Power Engineers Moscow Division, Industrial Electrical Engineering Section

W - 15368, 6 Dec 50

[illegible], M.V., kand.tekhn.nauk

Designing pumps with stepped feed and pressure. [Trudy] MVTU no.13: 32-51 '51. (MLRA 12:7)

(Oil hydraulic machinery)

STOROZHEV, M. V.

GLAD[illegible], A.N., [illegible], M.[illegible], [illegible], I.T., MA[illegible]
KOV, S.T., PANCHENKO, K.P., POLOV, V.A., POLOV, L.A.,
and STOROZHEV, M.V.:

"Tekhnologiya metallov (Technology of Metals). "

Moscow: Mashgiz 195[illegible] 637pp R 24
K. 10 Reviewed in Vestnik Mashinostroeniya 34
No 11 103-8 (195[illegible])

STOROZHEV, M.V., redaktor.

Introduction. (In: Ryzhkov, D.A., ed. Ekonomiia metallov v kuznechno-shtampovochnom proizvodstve. Moskva, 1953. p.3-13.) (MLRA 7:1)
(Forging) (Punching machinery)

STOROZHEV, M.V.

RYZHKOV, D.A., redaktor; STOROZHEV, M.V., redaktor; KIRSANOVA, S.B., redaktor; SAKSAGANSKIY, T.D., inshener, redaktor.

[Economizing metals in forging and stamping] Ekonomiia metallov v kuznechnoshtampovochnom proizvodstve. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1953. 273 p. (MLRA 7:1)
(Forging) (Punching machinery)

STOROZHEV, M.V.

Some tasks in the field of forging. Vest.mash.34 no.1:7-11 Ja '54. (MLRA 7:2)
(Forging)

STOROZHEV, M.V., redaktor; MATVEYEVA, Ye.N., tekhnicheskiy redaktor.

[Progressive technology of swaging] Progressivnaia tekhnologiia goriachey shtampovki. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 141 p. (MLRA 9:4)

1.Dom inzhenera i tekhnika imeni F.E.Dzerzhinskogo.
(Forging)

GLADILIN, Anatliy Nikolayevich, kandidat tekhnicheskikh nauk; DUBININ, Nikolay Petrovich, kandidat tekhnicheskikh nauk; ZHEVTUNOV, Petr Prokhorovich, kandidat tekhnicheskikh nauk; KRASAVIN, Vasiliy Stepanovich, kandidat tekhnicheskikh nauk; NAZAROV, Sergey Tikhonovich, kandidat tekhnicheskikh nauk; PANCHENKO, Konstantin Petrovich, kandidat tekhnicheskikh nauk; POPOV, Viktor Aleksandrovich, kandidat tekhnicheskikh nauk; POPOV, Yevgeniy Aleksandrovich, kandidat tekhnicheskikh nauk; RASTORGUYEV, Ivan Sergeyevich, kandidat tekhnicheskikh nauk; STOROZHEV, Mikhail Vasil'yevich, kandidat tekhnicheskikh nauk; KONSTANTINOV, L.S., kandidat tekhnicheskikh nauk, redaktor; ROZENBERG, G.A., kandidat tekhnicheskikh nauk, redaktor; MODEL', B.I., tekhnicheskiy redaktor

[Technology of metals] Tekhnologiia metallov. Pod red. N.P.Dubinina. Izd. 2-oe. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 550 p. (MLRA 9:8)

1. Prepodavateli Moskovskogo Vyschego tekhnicheskogo uchilishcha im. Baumana (for Gladilin, Dubinin, Zhevtunov, Krasavin, Nazarov, Panchenko, Popov, V.A., Popov, Ye.A., Rastorguyev, Storozhev)
(Metallurgy) (Metalwork)

STOROZHEV, M.V.; PERLIN, I.L.

"Engineering methods for evaluation of stresses due to metal presswork." Vest. mash. 36 no.9:83-88 S '56. (MLRA 9:10)

(Strains and stresses) (Metalwork)

ACHERKAN, N.S., zasluzhennyy deyatel' nauki i tekhniki, red.; BOGUSLAVSKIY, B.L., prof. red.; GLIZMANENKO, D.L., kand.tekhn.nauk, red.; RABINOVICH, B.V., kand.tekhn.nauk, red.; SASOV, V.V., kand.tekhn. nauk, red.; STANKEVICH, V.G., inzh., red.; STOROZHEV, M.V., kand. tekhn.nauk, red.; GOKUNA, V.B., red.; SOKOLOVA, T.F., tekhn.red.

[Present-day trends in the manufacturing of engineering equipment; a collection] Sovremennye napravleniia v oblasti konstruirovaniia tekhnologicheskogo oborudovaniia; sbornik. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 265 p. (MIRA 11:2)
(Machine tools)

PHASE I BOOK EXPLOITATION SOV/1167

Storozhev, Mikhail Vasil'yevich, and Popov, Yevgeniy Aleksandrovich

Teoriya obrabotki metallov davleniyem (Theory of Metal Forming) Moscow, Mashgiz, 1957. 323 p. 11,000 copies printed.

Reviewer: Unksov, Ye. P., Doctor of Technical Sciences, Professor; Ed.: Ovchinnikov, A.G.; Tech. Ed.: Model', B.I.; Managing Ed. for Literature on Heavy Machine Building (Mashgiz): Golovin, S. Ya., Engineer.

PURPOSE: This book is intended for students of polytechnical and mechanical engineering vuzes specializing in forging and pressing, and for engineers and technicians.

COVERAGE: The book contains fundamentals of the theory of metal forming according to the curriculum approved by the Ministerstvo vysshego obrazovaniya SSSR (Ministry of Higher Education, USSR) for polytechnical and mechanical engineering vuzes. The following

Card 1/9

Theory of Metal Forming

persons are mentioned as having contributed to this field: Corresponding Members of the Academy of Sciences, USSR, V.D. Kuznetsov, A.A.Ilyushin, and V.V. Sokolovskiy; Academicians N.S. Kurnakov, N.N. Davidenkov, S.A. Khristianovich and L.S. Leybenzon; and S.I. Gubkin, Ye. P. Unksov, G.A. Smirnov-Alyayev, N.I. Korneyev, I.M. Pavlov, L.A. Shofman, A.D. Tomlenov, K.N. Shevchenko, and I.A. Noritsyn. There are 68 references, of which 61 are Soviet and 7 German.

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Structure of metals 8
Concept of plastic deformation 12

GOKUN, B.V., redaktor; ACHERKAN, N.S., zaslushennyy deyatel' nauki i tekhniki, redaktor; BOGUSLAVSKIY, B.L., professor, redaktor; GLIZMANENKO, D.L., kandidat tekhnicheskikh nauk, redaktor; RABINOVICH, B.V., kandidat tekhnicheskikh nauk, redaktor; RAKHSHTADT, A.G., kandidat tekhnicheskikh nauk, redaktor; SASOV, V.V., kandidat tekhnicheskikh nauk, redaktor; STOROZHEV, M.V., kandidat tekhnicheskikh nauk, redaktor; SOKOLOVA, T.F., tekhnicheskiy redaktor.

[Present-day trends in machine manufacturing; a collection of articles] Sovremennye napravleniia v oblasti tekhnologii mashinostroeniia; sbornik. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 363 p. (MIRA 10:11)

(Machine industry)

ACHERKIN, N.S., zasluzhennyy deyatel' nauki i tekhniki, redaktor; GLIZMANENKO, D.L., kandidat tekhnicheskikh nauk, redaktor; RABINOVICH, B.V., kandidat tekhnicheskikh nauk, redaktor; STANKEVICH, V.G., inzhener, redaktor; STOROZHEV, M.V., kandidat tekhnicheskikh nauk, redaktor; GOKUN, V.B., redaktor; BARYKOVA, G.I., redaktor izdatel'stva; SOKOLOVA, T.F., tekhnicheskiy redaktor

[Problems of increasing labor productivity in the machinery industry; a collection of articles] Voprosy povysheniia proizvoditel'nosti truda v mashinostroenii; sbornik. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 510 p. (MIRA 10:11)
(Machinery industry) (Labor productivity)

LUBIMIN, N.kolay [illegible] tekhnicheskikh nauk; [illegible] Petr Prokhorovich, [illegible] tekhnicheskikh nauk; [illegible] Mikhail Vasil'yevich, [illegible] tekhnicheskikh nauk; POPOV, Viktor Aleksandrovich; [illegible] Konstantinovich, kandidat tekhnicheskikh nauk; [illegible], Anatoliy [illegible] ch, kandidat tekhnicheskikh nauk; [illegible], Vasiliy [illegible] ch, kandidat tekhnicheskikh nauk; ZAKHARENKO, Konstantin Petrovich, [illegible] kandidat tekhnicheskikh nauk; POPOV, Viktor Aleksandrovich, [illegible] tekhnicheskikh nauk; KOZLOVSKIY, Ivan Sergeyevich, kandidat tekhnicheskikh nauk; [illegible], Yu.A., redaktor; IVANOVA, [illegible] redaktor; MOSIN, B.I., tekhnicheskiy redaktor

(Technology of [illegible] tekhnologiia metallov. Pod red. N.P.Lubimina. Izd. 3-e. [illegible] mashgiz, 1957. 564 p. (MLRA 10:10)
(Metals)

GAZAROV, Artem Tigranovich,; STOROZHEV, M.V., red.; MEZHOVA, V.A.,red. izd-va.; SMIRNOVA, G.V., tekhn. red.

[Linkages in forge presses] Sharnirno-rychazhnye mekhanizmy kuznechno-pressovykh mashin. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1959. 197 p. (MIRA 11:12)
(Machinery, Kinematics of)
(Metalworking machinery)

STOROZHEV, M.V., kand.tekhn.nauk, dots.

Mechanical diagram of deformations. Sbor.MOSSTANKIN no.4:5-17 '58. (MIRA 12:4)

(Deformations (Mechanics))

UNKSOV, Yevgeniy Pavlovich, prof., doktor tekhn.nauk; STOROZHEV, M.V., kand.tekhn.nauk, red.; STEPANCHENKO, N.S., red.izd-va; MODEL', B.I., tekhn.red.

[Engineering theory of the plasticity; methods for calculating deformation stresses] Inzhenernaia teoriia plastichnosti; metody rascheta usilii deformirovaniia. Izd.2., perer. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 327 p. (MIRA 12:8)

(Plasticity) (Deformations (Mechanics))

MOSHNIN, Yevgeniy Nikolayevich, kand.tekhn.nauk; MESHCHERIN, V.T., prof., doktor tekhn.nauk, retsenzent; STOROZHEV, M.V., kand. tekhn.nauk, red.; EL'KIND, V.D., tekhn.red.

[Bending, stretch-forming, and straightening on presses; techniques and equipment] Gibka, obtiazhka i pravka na pressakh; tekhnologiia i oborudovanie. Moskva, Gos.nauchno-tekhn.izd-vo mashinostr.lit-ry, 1959. 359 p. (MIRA 12:10)
(Sheet-metal work) (Metalworking machinery)

2)(1) PHASE I BOOK EXPLOITATION SOV/2944

Gubkin, Sergey Ivanovich (Deceased), Mikhail Vasil'yevich Storozhev, Boris Pavlovich Zvorono, Vasiliy [illegible], Anatol'yevich Noritsyn, Yevgeniy Al[illegible], Aleksandrovich [illegible], [illegible]

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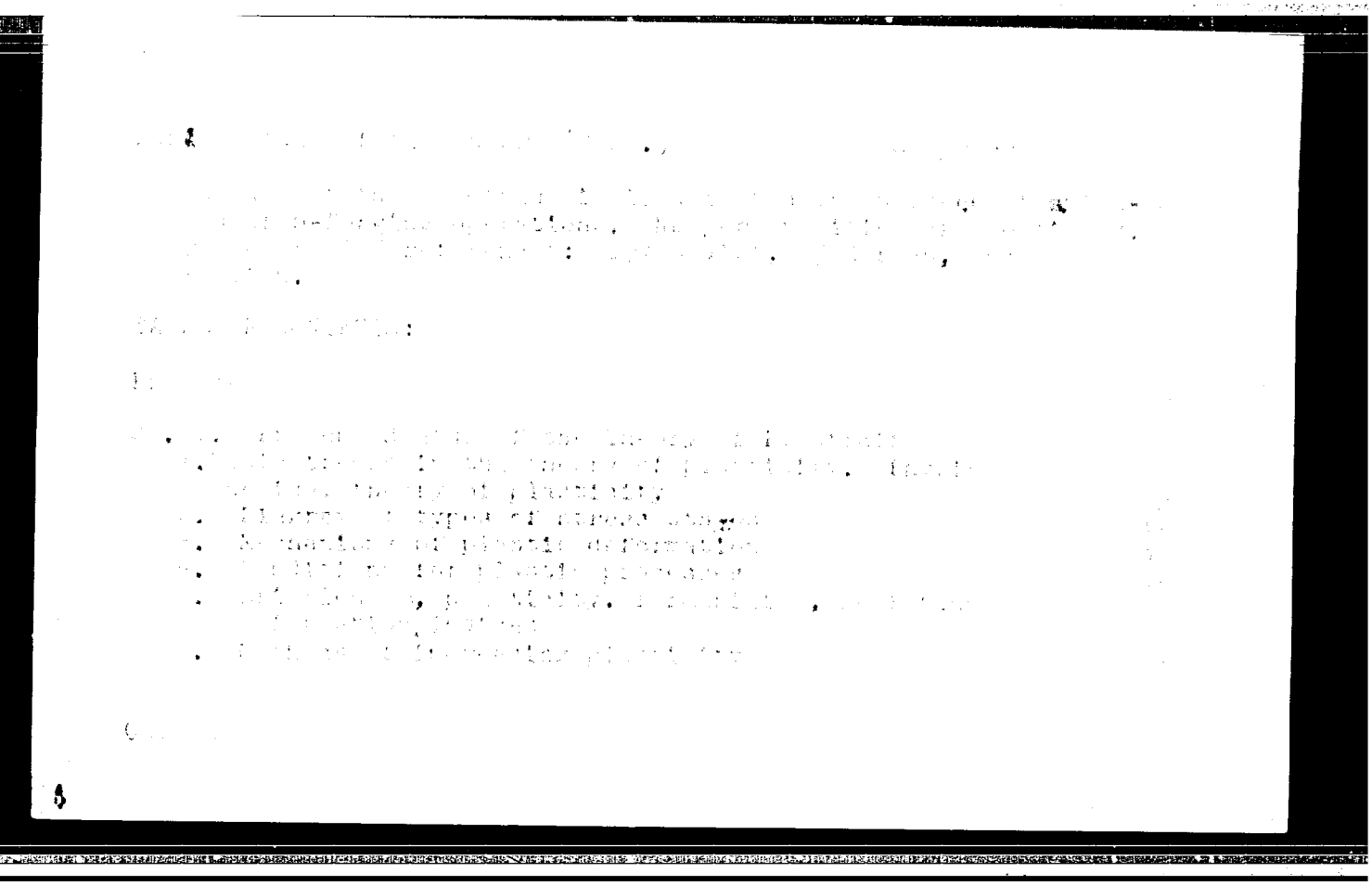
[illegible]

[illegible]

[illegible]



DUBININ, Nikolay Petrovich, kand.tekhn.nauk; ZHEVTUNOV, Petr Prokhorovich, kand.tekhn.nauk; STOROZHEV, Mikhail Vasil'yevich, kand.tekhn.nauk; POPOV, Yevgeniy Aleksandrovich, kand.tekhn.nauk; NAZAROV, Sergey Tikhonovich, kand.tekhn.nauk; GLADILIN, Anatoliy Nikolayevich, kand.tekhn.nauk; KRASAVIN, Vasiliy Stepanovich, kand.tekhn.nauk; PANCHENKO, Konstantin Petrovich, kand.tekhn.nauk; POPOV, Viktor Aleksandrovich, kand.tekhn.nauk; RASTORGUYEV, Ivan Sergeyevich, kand.tekhn.nauk [deceased]; SHEMSHURINA, Ye.A., red.izd-va; UVAROVA, A.F., tekhn.red.; MODEL', B.I., tekhn.red.

[Technology of metals] Tekhnologiia metallov. Pod red. N.P. Dubinina. Izd.3. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1959. 564 p. (MIRA 13:7)

1. Prepodavateli Moskovskogo vysshego tekhnicheskogo uchilishcha imeni N.Ye.Baumana (for all except Shemshurina, Uvarova, Model').
(Metals) (Metalwork)

SOV/122-59-4-15/28

AUTHORS: Storozhev, M.V., (Cand.Tech.Sci., Docent), Semenov, Ye.I., (Cand.Tech.Sci., Docent), and Kirsanova, S.B., Engineer

TITLE: Refinement of the Pattern of the Deformation Core and Determination of the Force in Die Stamping (Utochneniye formy ochaga deformatsii i opredeleniye usiliya pri shtampovke)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 4, pp 55-61 (USSR)

ABSTRACT: When forging in an open die, after the first stage of filling the die cavity, the second stage consists of pressing the excess metal from the die cavity into the flash and calibrating the height of the forging (upsetting). The maximum forging pressure occurs during upsetting. To find the relation between the dimensions of the deformation core and the thickness of the flash, tests were carried out with lead. Specimen blanks were split in two halves and a grid was drawn on one half. Both halves together were upset in the die, after which the half with the grid (Fig 2) was photographed. The deformed grid exhibits three zones, namely the zone of large deformation, the zone of small

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Refinement of the Pattern of the Deformation Core and Determination of the Force in Die Stamping

deformation and the undeformed zone. The first zone includes the flash. The tests were carried out with different flash thicknesses. Specimens with a large thickness revealed the three zones more clearly. The dimensions before and after the final forging deformation are tabulated (Table 1). Several geometric quantities were recorded in specimens after the tests leading to the mean height (thickness) of the flash during the calibrating period. In forgings with small flash thicknesses similar to those obtained in practice, the deformation core is small. To obtain a better measure of the deformation core, a further test was conducted. The specimen was photographed after upsetting and the die was subsequently ground down in the parting plane by the amount of flattening of the flash. The flash formed during upsetting was removed down to the forging diameter, and the forging operation was repeated. A substantial degree of deformation was achieved in the centre of the specimen without changing the conditions of upsetting and the degree of deformation of the flash. The plotting

Refinement of the Pattern of the Deformation Core and Determination of the Force in Die Stamping

of the deformation core by this procedure presented no further difficulties. The relative thicknesses of deformation zones were plotted against the relative diameters of the forging (Figs 5 and 6). The thickness of the first zone at half the forging radius differed little from combined axial thicknesses of the first and second zones. The thickness of the deformation zones at half the radius away from the axis was also plotted and found, like the thickness along the axis, to increase progressively with the ratio of the diameter to the flash thickness. The thickness along the axis of the deformation zone did not vanish even at small diameter/flash thickness ratios. When these ratios were about 20, the ratio of deformation zone thickness to flash thickness was about 3.5. The diameter/flash thickness ratio also affects the pattern of the deformation zone. At a ratio of 3, the deformation zone is a bi-concave lens. At large ratios, the "lens" becomes bi-convex. The usual analytical solution for the deformation zone assumes this to be conical or a stepped profile. A better solution

Refinement of the Pattern of the Deformation Core and Determination of the Force in Die Stamping

assumes an elliptical shape. With the help of simplifying assumption (plane strain), the forging pressures are obtained by analysis. For forgings which are round or nearly round in planform, the equilibrium equations are used in spherical coordinates when the deformation is axially symmetrical. The analysis of this case is also treated.

There are 11 figures, 2 tables and 8 Soviet references.

BRYUKHANOV, Andrey Nikolayevich; STOROZHEV, M.V., kand.tekhn.nauk, retsenzent; MARKIZ, Yu.L., inzh., red.izd-va; UVAROVA, A.F., tekhn.red.

[Forging and die forging] Kovka i ob"emnaia shtampovka. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 375 p. (MIRA 14:3)
(Forging)

GUBKIN, Sergey Ivanovich [deceased]. Prinimal uchastiye STOROZHEV, M.V., PERLIN, I.Ya., retsenzent; SMIRNOV, V.S., red.; ULANOVSKAYA, I.A., red.izd-va; ISLENT'YEVA, P.G., tekhn.red.

[Plastic deformation of metals] Plasticheskaia deformatsiia metallov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii. Vol.1. [Physicomechanical principles of plastic deformation] Fiziko-mekhanicheskie osnovy plasticheskoi deformatsii. 1960. 376 p. (MIRA 13:2)
(Deformations (Mechanics)) (Physical metallurgy)

PHASE I BOOK EXPLOITATION SOV/4718

Sovremennoye sostoyaniye i napravleniya razvitiya tekhnologii mashinostroyeniya i priborostroyeniya (Present State of the Manufacturing Processes in the Machine and Instrument Industries and Trends for Development) Moscow, Mashgiz, 1960. 563 p. 5,000 copies printed.

Ed.: Anatoliy Nikolayevich Gavrilov, Doctor of Technical Sciences, Professor; Managing Ed. for Literature on Machine Building and Instrument Construction (Mashgiz): N.V. Pokrovskiy, Engineer; Ed. of Publishing House: G.F. Kochetova, Engineer; Tech. Eds.: V.D. El'kind and A.Ya. Tikhanov.

PURPOSE: This book is intended for technical and scientific personnel in the machine and instrument industries and for students and teachers of schools of higher education.

COVERAGE: The book deals with current theory and practice in the manufacturing processes of the machine and instrument industries and includes discussions on trends for development. The physical nature of the processes and their technical-economic features and possibilities are considered. Particular attention is given to new and progressive processing (supersonic machining, electric machining, cold pressworking, precision casting, precision pressing, new methods of welding, etc.). The book consists of papers presented at the All-Union

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Present State (Cont.) SOV/4718

Scientific-Industrial Conference on "Advanced Machine and Instrument Manufacturing Processes," held in 1958. The papers have been revised in the light of recent developments in the field. A chapter is devoted to the automation and mechanization of the industry. Soviet and non-Soviet references accompany some of the chapters.

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3. Hot die-forming process 114

Ch. VI. The Present State of Cold Stamping in the Machine and Instrument Industries and Basic Development Trends [A.N. Malov, Candidate of Technical Sciences] 128
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AUTHOR:

TITLE:

PERIODICAL:

TEXT:

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S/122/60/000/003/007/015
A161/A130

The today state of pressure metalworking theory

by I.Ya. [illegible], O.A. Ganago and M.A. Vaysburd (Ref. 32: Teoreticheskoye issledovaniye vytyazhki pokovok kol'tsevoy formy v otkrytykh i zakrytykh shtampakh. (Theoretical study, Sverdlovsk), "Metallurgiya", no. 2, 1955) is mentioned as deserving serious attention despite some shortcomings, for this method gave the start for the analysis of shape variation under pressure. A method developed by I.A. Smirnov-Alyayev [Ref. 33: Soprotivleniye materialov plasticheskim deformatsiyam (Manual of metal resistance to plastic deformation), Mashgiz, 1949] is one of the new methods in this direction, and the basic principle of this method will be treated later in a separate article. Leading in the development of pressure-working theory are S.I. Gubkin and his followers, as well as (especially in the field of thermo-mechanical deformations), [illegible] with his staffers. The mechanical deformation schemes developed by S.I. Gubkin et al. [Ref. 2: Osnovy teorii obrabotki metallov davleniyem (Fundamentals of the pressure metalworking theory), Mashgiz, 1959; Ref. 3: Teoriya obrabotki metallov davleniyem (The theory of metalworking by pressure), Metallurgizdat, 1947] and experiments lead to conclusion that the plasticity of metal increases at deformation with increasing hydrostatic pressure applied to the tensile deviating stress pattern, and that the plastic stability of metal in the deformation process can be raised, i.e., a localization of plastic deformation can be prevented. High hydrostatic pressure (at up-

The today state of pressure metalworking theory

S/122/[illegible]/[illegible]/003/[illegible]7/015
A1[illegible]1/A13[illegible]

setting) had been reached by placing low-plasticity metal (hardened steel) into a shell of highly plastic metal. The same had been done with brittle magnesium alloys. There is no dependable method for determining the friction coefficient yet and available stress determination methods are far from the real work conditions. The author considers the following factors as proper for evaluating the plasticity of metal: relative contraction of the neck in tension tests; maximum relative reduction to the appearance of the first crack visible by unaided eye, and relative shear deformation in twisting tests of specimens. S.I. Gubkin recommends to call evaluations of a single test "single plasticity indices", but they cannot always be used for comparing the plasticity of two metals regardless of the stress schematics. S.I. Gubkin has developed a special method for such comparisons, by mean plasticity, [illegible] that two tests are sufficient for the majority of cases (Ref. 2) - in tension and in compression, and introduced a [illegible] index called deformability [illegible] important data in plasticity [illegible] diagrams [Ref. 43: Deformiruyemost' metallov (Deformability of metals), [illegible], 19[illegible]]. The author concluded that a general theory [illegible] developed in [illegible] trends. There are 43 references: 42 Soviet-bloc and 1 non-Soviet-bloc.

Card 3/3

STOROZHEV, M.V., kand.tekhn.nauk, dots.

Bending of the columns on hydraulic presses. Sbor. MOSSTANKIN no. 5:95-125 '60. (MIRA 14:2)
(Hydraulic presses)

STOROZHEV, M.V.

Explanations to the article "Dynamics of a friction presses."
Vest. mash. 41 no. 5:55-56 My '61. (MIRA 14:5)
(Power presses)

ALEKSEYEV, S.A.; ZHMAKIN, D.F.; KERZHESH, V.V.; MALOV, A.N.; MARTSINOVSKIY, P.L.; MOLOTOK, A.V.; NESMELOV, V.A.; TEVEROVSKIY, P.A.; KHISIN, R.I.; DELITSIN, A.A., retsenzent; SOKHNOVSKIY, M.A., retsenzent; STEPANOV, V.P., retsenzent; STOROZHEV, M.V., retsenzent; TALANOV, P.I., retsenzent; FAL'KEVICH, A.S., retsenzent; CHERNUSHEVICH, V.A., retsenzent; KHISIN, R.I., red.; GAL'TSOV, A.D., red.; VOL'SKIY, V.S., red.; STRUZHESTRAKH, Ye.I., red.; SEMENOVA, M.M., red. izd-va; MODEL', B.I., tekhn. red.

[Manual for the establishment of norms in the machinery industry in 4 volumes] Spravochnik normirovshchika-mashinostroitelia v 4 tomakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. litry. Vol.3. [Establishing norms for founding, stamping, welding, painting, metal plating, and woodwork] Normirovanie liteinykh, kuznechnykh, shtampovochnykh, svarochnykh, lakokrasochnykh rabot, metallopokrytii i derevoobrabotki. 1962. 671 p. (MIRA 15:4)

(Machinery industry—Production standards)

STOROZHEV, Mikhail Vasil'yevich; [illegible], Yevgeniy Aleksandrovich; VASIL'YEV, E.I., kand. tekhn.nauk, dots., retsenzent; KORNEYEV, V.A., red.; GOROKHOVA, S.S., tekhn.red.

[Theory of metalworking by pressure] Teoriia obrabotki metallov davleniem. Izd.2., perer. Moskva, Vysshaia shkola, 1963. 388 p. (MIRA 17:2)

DOBRINSKIY, Nikolay Semenovich; STOROZHEV, M.V., red.; DASHEVSKAYA, I.Ya., ved. red.; VASIL'YEVA, F.A., ved. red.

[Modern hydraulic forging presses; survey of foreign engineering] Sovremennye gidravlicheskie kovochnye pressy; obzor zarubezhnoi tekhniki. Moskva, GOSINTI, 1963. 100 p. (Tema 7) (MIRA 17:5)

[redacted], V., doktor; [redacted], L., assistant

[redacted] of testing the automatic GTsKB coupling in the Siberian [redacted]. Avtom. i prom. 23 no.11:24-25 N '57.

(MIRA 18:3)

GOROZHEV, M., kand. tekhn. nauk; ZHUKOV, V.; KISLYAKOV, A.

The UDP-20 universal double-lock automatic coupling mechanism. Mosk. transp. 24 no.7:31-31 '65. (MIRA 18:8)

1. Vedushchiy konstruktor NPKB (for Zhukov). 2. Glavnyy inzh. Moryakovskoy remontno-ekspluatatsionnoy bazy (for Kislyakov).

[illegible]BIN, [illegible]F., otv. red.; [illegible], [illegible]A., [illegible]; [illegible], A.[illegible], red.; KYCHANOVA, [illegible]I., red.; [illegible], Yu.[illegible], red.; [illegible], [illegible], red.; [illegible]LAYEVA, [illegible], red.

[The Udmurt land; collection of articles, stories, and verses about nature in the Udmurt A.S.S.R.] Krai Udmurtskii; sbornik statei, rasskazov, stikhov o prirode Udmurtii, Izhevsk, Udmurtskoe knizhnoe izd-vo, [illegible]. 75 p. (MIRA 18:2)

1. Vserossiyskoye obshchestvo sodeystviya okhrane prirody. Udmurtskoye otdeleniye.

LESYUKOV, V.A., dotsent, kand.tekhn.nauk; STOROZHEV, N.F., dotsent, kand.tekhn.nauk

Investigating the strength of lumber-carrying, listing dump barges. Trudy NIIVTa no.14:43-54 '63. (MIRA 17:4)

STOROZHEV, V. F.

STOROZHEV, V. F.: "Problems of the strength and design of connections in pushing ships." Min River Fleet USSR. Gor'kiy Inst of Water Transport Engineers. Chair of Hull Design and Structural Mechanics of Ships. Gor'kiy, 1956. (Dissertation for the Degree of Candidate in Technical Sciences.)

Source: Knizhnaya letopis' No. 28 1956 Moscow

STOROZHEV, Nikolay Fedorovich; BANICH, I.Yu., redaktor; SEGAL', A.I., retsenzent; VITASHKINA, G.A., redaktor izdatel'stva; KRASNAYA, A.K., tekhnicheskiy redaktor

[Determining strains in connections between ships during towing] Opredelenie usilii v sviaziakh mezhdu sudami pri tolkanii. Moskva, Izd-vo "Rechnoi transport," 1956. 177 p. (MLRA 10:4)

(Towing)

STOROZHEV, N.F., kand.tekhn.nauk

Effect of the heeling of a ship on the forces in coupling arrangements. Proizv.-tekh. sbor. no.4:31-37 '59. (MIRA 13:10)

1. Nauchno-issledovatel'skiy institut vodnogo transporta.
(Towing)

STOROZHEV, N.F., inzh.

Field testing in the pusher handling of tows with space at the stern.
Rech. transp. 18 no.4:31-33 Ap '59. (MIRA 13:1)
(Towing)

[illegible], M.F., tech.

Local strength of wheel-type tugboats. Rech.transp. 10 no.2: 33-35 '59. (MIRA 12:3)
(Tugboats--Testing)

STOROZHEV, N.F., kand.tekhn.nauk

Device for study of corrosion. Rach.transp. 18 no.10:55 O '59. (MIRA 13:2)
(Corrosion and anticorrosives)

ARTAMONYCHEV, A.; GARINOV, K.; STOROZHEV, N.

Use of sectional barge trains on Siberian rivers. Rech. transp. 19 no.7:12-15 Jl '60. (MIRA 13:8)
(Siberia—Rivers) (Towing)

STOROZHEV, N., dotsent; SHEVELEV, M.

Wider use of ship handling by the downstream pushing method. Rech. transp. 20 no.4:15-16 Ap '61. (MIRA 14:5)

1. Novosibirskiy institut inzhenerov vodnogo transporta (for Storozhev). 2. Kapitan teplokhoda "Akademik Vil'yams" Irtyshskogo rechnogo parokhodstva (for Shevelev).
(Towing)

STOROZHEV, N., inzh.

Effect of angular and cross currents on the handling of pusher barge trains. Rech.transp. 20 no.6:43-44 Je '61. (MIRA 14:6)
(Barges—Handling) (Inland navigation)

STOROZHEV, Nikolay Fedorovich; ITSKOVICH, G.M., red.; BELYAK, Yu.L., retsenzent; KAN, P.M., red. izd-va; BOBKOVA, V.A., tekhn. red.

[Elementary strength calculations of ship structures and mechanisms]Elementarnye raschety prochnosti sudovykh konstruktsii i mekhanizmov; sbornik zadach. Moskva, Izd-vo "Rechnoi transport," 1962. 260 p. (MIRA 15:11)
(Naval architecture--Problems, exercises, etc.)

STOROZHEV, N.F., dotsent, kand. tekhn. nauk

Effect of linkage rigidity and the time length of force application on the amount of stress occurring in the connecting links. Trudy NIIVTa no.10:119-127 '62.
(MIRA 16:6)

(Towing) (Strains and stresses)

TERESHCHENKO, P.L., inzh.; STOROZHEV, N.F., kand. tekhn. nauk

Laying underwater pipelines by the free immersion method.
Transp. stroi. 13 no.10:28-31 O '63. (MIRA 17:8)

ACC NR: [illegible] (A) SOURCE CODE: UR/0131/64/000/016/0059/0063

AUTHOR: Storozhev, N. F.

ORG: None

TITLE: Oscillations of signal lights on floating markers

SOURCE: Novosibirsk. Institut inzhenerov vodnogo transporta. Trudy, no. 16, 1964. Voprosy gidrotekhniki (Problems of hydraulic engineering), 59-63

TOPIC TAGS: visual signal, harmonic oscillation, light interference, pendulum motion, SHIP NAVIGATION

ABSTRACT: The author discusses the reduction in candlepower of buoy signal lights in the horizontal plane due to angular rotary motion of the lamp. Cardan suspensions have been designed for the lamps in floating markers with the purpose of reducing the amplitude of oscillations in the signal light during rotary motion of the buoy. However, studies have shown that most of these suspensions have the opposite effect, i. e. they frequently increase rather than reduce the amplitude of rotary motion. Oscillations of a pendulum on a rocking base are considered in an effort to clarify this situation. It is assumed that the point of suspension of the pendulum describes harmonic oscillations in the horizontal plane and it is shown that the pendulum itself has a complex motion consisting of two harmonic oscillations. It is shown that the

Card 1/2 UDC: 627.9

ACC NR: [illegible]

vertical position of the pendulum may be stabilized if its period with respect to that of the base is made considerably greater than unity and initial disturbances from extraneous forces (e. g. gusts of wind) are minimized. Since it is practically impossible to increase the period of the pendulum to any great extent by increasing its length, the author proposes the use of weights on the upper section to increase the moment of inertia with respect to the axis of suspension. Signal marker designs are given showing incorporation of the proposed method for increasing the period of the pendulum. Orig. art. has: 3 figures, 11 formulas.

SUB CODE: 13 / SUBM DATE: None/ ORIG REF: 002

Card 2/2 MLP

[redacted], I.I.; STOROCHEV, N.F.

Checking the strength of a pipeline on free immersion with build-up sections above water. Stroi. truboprov. 9 no.3:14 Mr '64. (MIRA 18:2)

1. Stroitel'nyy trest No.32, Leningrad (for Tereshchenko). 2. Institut inzhenerov vodnogo transporta, Novosibirsk (for Storochev).

STOKOZHEV, Nikolay Petrovich; MIRONOV, V.P., red.; LAGOVSKIY, G.N., red.

[Maneuverability of river vessels and trains] Upravliaemost' rechnykh sudov i sostavov. Moskva, Transport, 1965. 145 p. (MIRA 18:9)

ACC NR: AP6000937 (N) Monograph UR/

Storozhev, Nikolay Fedorovich

Maneuverability of river boats and cargo carriers (Upravlyayemost' rechnykh sudov i sostavov) Moscow, Izd-vo "Transport", 1965. 145 p. illus., biblio. Errata slip inserted. 2000 copies printed.

TOPIC TAGS: inland waterway transportation, navigation equipment, ship navigation.

PURPOSE AND COVERAGE: This book is intended for engineering and other shipping personnel, and professors and students in schools of higher education. The book deals with the fundamentals of river-vessel navigation, such as with maneuverability, effects of currents, visibility, parameters of gyroscopic turn-rate indicators, and gyroscopic automatic pilots, and navigation. Simple devices for determining the turn rate and drift angle, and recording the turning circle are discussed. The author made an extensive use of the results of experimentation conducted on Siberian waterways. No personalities are mentioned.

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Card 1/2 UDC—656.628

ACC NR: AP6000587

Ch.I. Maneuverability of River Vessels and Barge Trains -- 4

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Ch.III. Effect of Flank Currents on Barge Trains -- 53

Ch.IV. Maneuverability of Barge Trains; Visibility Conditions -- 66

Ch.V. Gyroscopic Turn-Rate Indicator -- 78

Ch.VI. Automatic Pilot for River Vessels -- 102

Ch.VII. Maneuverability of Asymmetric Barge Trains -- 122

SUB CODE: 17, 07/ SUBM DATE: 02Jun65/ ORIG REF: 041

Card 2/2

STOROZHEV, L.I.

Using nomograms for the synthesis of flat four-bar linkages.
Teor. mash. i mekh. no.103/104:20-36 '64.
(MIRA 17:11)

L 11027-66 EWT(m)/T DJ

ACC NR: AP5022140 SOURCE CODE: UR/0310/65/000/008/0030/0032

AUTHOR: Storozhev, V. (Senior research associate)

ORG: NIIVT

TITLE: Criteria for determining time for diesel lubricating oil change

SOURCE: Rechnoy transport, no. 8, 1965, 30-32

TOPIC TAGS: lubricating oil, lubricant viscosity, lubricant property

ABSTRACT: A new method--developed by the Scientific Research Institute of Water Transport--for evaluating the quality of diesel lubricating oil is proposed. The method provides for determining water content, mechanical and sludge deposits and viscosity of used lubricating oil. The maximum acceptable water content in used diesel lubricating oil is set at 2%. The limit of acceptable oil contamination with mechanical and sludge deposits is defined in terms of an oil spot diameter on standard filtering paper. Viscosity is expressed as the relative time it takes an air bubble to pass through a standard tube filled with used diesel lubricating oil (based on the time required for such a passage through a fresh oil sample). The limits of oil viscosity deviation are set at 20% to +25% with respect to the viscosity of a fresh diesel lubricating oil. Orig. art. has: 5 figures, 3 tables.

SUB CODE: 11/ SUBM DATE: 00/ ORIG REF: 003/

UDC: 621.892:621.436.004

Card 1/1

STOROZHEV, V.

Economic union between town and country in the people's democracies ("Economic alliance of the working class and the farmers in the people's democracies of Europe" by V.N. Starodubrovskaia. Reviewed by V.Storozhev). Vop. ekon. no.3:63-67 Mr '60. (MIRA 13:2)
(Europe, Eastern--Agriculture)
(Starodubrovskaia, V.N.)

STOROZHEV, V.

Land rent and rent relations in the people's democracies. Vop. ekon. no.12:111-120 D '60. (MIRA 13:12)
(Europe, Eastern--Rent (Economic theory))
(Europe, Eastern--Agriculture, Cooperative)

ACC NR: AP6030298 (N) SOURCE CODE: UR/0310/66/000/008/0029/0030

46
47
B

AUTHOR: Storozhev, V.; Goleshchikhin, Yu.

ORG: NIIVT

TITLE: Some operating problems of M-50 diesel engines

SOURCE: Rechnoy transport, no. 8, 1966, 29-30

TOPIC TAGS: diesel engine, marine engine, engine cylinder, cavitation, corrosion/ M-50 DIESEL ENGINE

ABSTRACT: Investigations carried out on Raketa-type vessels operated on the Ob' River has revealed that nearly 50% of their out-of-service time was due to defects in the cylinder sleeves of their M-50 diesel engines. Generally, the sleeves cracked at up to 3-mm pitting depths and the cracks were located at 45-degree angles to the crankshaft. Fatigue tests led to the conclusion that the pitting was not a result of corrosion and that the cracks were not due to excessive stresses. It was found that pitting arises on a bushing's side independent of its position relative to the cooling-water feed line; it occurred during the power stroke (see Fig. 1) and

 UDC: 621.436.004

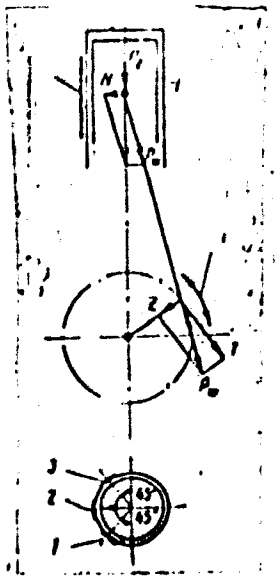

Fig. 1. Diagram of forces and cavitation damage on sleeves

1 and 3 - Cavitational wear along the line of the cooling-water outlet; 2 - cavitational wear in the plane normal to the crankshaft.

mostly showed a cavitational character. Cavitation takes place as a result of the high-frequency oscillation of the sleeve due to the normal component N of the force

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acting during the engine's power stroke. Observations revealed that bright, chrome-plated bushings better resisted cavitation damage than did cadmium-plated bushings of a dull yellow color. Orig. art. has: 2 figures and 1 table. [CE]

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

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