

GUBAREV, M.

Low volume spraying of orchards. Zashch. rast. ot vred. i bol.
10 no.1:26-28 '65. (MIRA 18:3)

1. Nachal'nik otдела Gosudarstvennogo spetsial'nogo konstruktorskogo
byuro L'vovskogo soveta narodnogo khozyaystva.

GUBAREV, M.; SHTERENTAL', M.

Criteria for the evaluation of small-drop spraying. Zashch.rast.et
vred.i bol. 10 no.4:34-35 '65. (MIRA 18:6)

1. Nachal'nik otдела Gosudarstvennogo spetsial'nogo konstruktorskogo
byuro po mashinam dlya khimicheskoy zashchity rasteniy L'vovskogo
soveta narodnogo khozyaystva (for Gubarev). 2. Rukovoditel' gruppy
Gosudarstvennogo spetsial'nogo konstruktorskogo byuro po mashinam
dlya khimicheskoy zashchity rasteniy L'vovskogo soveta narodnogo
khozyaystva (for Shterental').

L 1465-66

ACCESSION NR: AP5012837

UR/0348/65/000/004/0034/0035

632.934.1

AUTHOR: Gubarev, M. (Section chief); Shterental', M. (Group head)

TITLE: Criteria for evaluating aerosol spraying

SOURCE: Zashchita rasteniy ot vrediteley i bolezney, no. 4, 1965, 34-35

TOPIC TAGS: agriculture, aerosol, atomization

ABSTRACT: The authors discuss the concept of the degree of dispersion, define the average drop diameter d_k , describe methods for determining the average drop size of aerosols microscopically, and discuss the relationship between d_k and the area which can be covered by a unit volume of spray. It is pointed out that the average drop diameter from standard sprayers is 300—400 μ , and that a smaller d_k would not only provide better coverage and greater economy, but would also permit a wider area to be sprayed and provide better distribution of spray on the leaf. Normally, d_k is related in a simple way to the degree of coverage of the leaf surface; with fine droplet sprays, however, better effectiveness can be attained with a lower degree of coverage; hence, new criteria are needed for evaluating the effectiveness of such sprays. The zone of biocidal effect is defined, as well as the coefficient of effective action of the drop, which increases as the drop size decreases. The

Card 1/2

L 1465-66

ACCESSION NR: AP5012837

concept of the "degree of effective coverage," is advanced. It is given by

$$M_{ef} = \frac{25\pi}{f_0} \sum d_{efi}^2 n_i$$

where f_0 is the field of view of the microscope used to determine the drop size, d_{ef} is the effective diameter of the drop, and n is the number of drops. Orig. art. has: 1 figure, 1 table, and 5 formulas.

ASSOCIATION: GSKV po mashinam dlya khimicheskoy zashchity rasteniy L'vovskogo sovmarkhoza (GSKV for Machines for Chemical Plant Protection, L'vov Economic Council)

SUBMITTED: 00

NO REF SOV: 000

SUB CODE: 00, 18

ENCL: 00

OTHER: 000

Cord

2/2

GUBAREV, M.; BURD, V.; SUDIT, Zh.; SHTRENTAL', M.

Stabilizer for the discharge of liquid. Zashch. rast. ot vred.
i bel. 10 no.12:35 '65. (MIRA 19:1)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro po
mashinam dlya khimicheskoy zashchity rasteniy.

SAVCHENKO, N.A., redaktor; KUGUKALO, I.A., retsenzent; VINOGRADOVA, M.M.
redaktor; GUBAREV, M.I., redaktor; ~~ENGICHEV~~, M.N., tekhnicheskii
redaktor. ~~XXXXXXXXXX~~

[The Dnieper river; a guide book] Dnepr; putevoditel'. Izd. 2-oe.
Moskva, Izd-vo "Rechnoi transport, 2 1955. 365 p. (MLA 8:11)
(Dnieper river)

NOVIKOV, A.I., inzh. (Moskva); GUBAREV, M.I.; POPOVNINA, N.I., BURD, V.S.;
SUDIT, Zh.M.

New sprayers. Zashch. rast. ot vred. i bol. 6 no.7:25-26 J1 '61.
(MIRA 16:5)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro L'vovskogo
soveta narodnogo khozyaystva.
(Spraying and dusting equipment)

GUBAREV, M.I.

QVM blower-type motor sprayer. Trakt. i sel'khoz mash. 31 no.1:
32-33 Ja '61. (MIRA 14:1)
(United States—Spraying and dusting equipment)

PROKOPENKO, S.F.; GUBAREV, M.I.; SULTAN-SHAKH, Ye.G.; BURYI, Z.P.;
BURD, V.S.; YEFREMOVA, N.I.

Results of the development of blower-type sprayers for orchards.
Zashch.rast.ot vred.i bol. 7 no.5:20-21 My '62. (MIRA 15:11)
(Spraying and dusting equipment)

L 62488-65 EWA(j)/EWI(1)/EWA(b)-2

ACCESSION NR: AP5018031

UR/0343/65/000/007/0042/0043

632.981.7

AUTHORS: ^{44.55}Gubanov, M. I.; ^{44.55}Nagirnyy, Yu. P.; ^{44.55}Sudit, Zh. M.

TITLE: Universal sprayer

SOURCE: Traktory i sel'khoz mashiny, no. 7, 1965, 42-43

TOPIC TAGS: ^{64.55}universal sprayer, ^{64.55}insect sprayer, ^{64.55}agricultural sprayer/ OSV 2.5
universal sprayer, MTZ tractor, MTZ 50 tractor, DT 54A tractor, DT 75 tractor,
T 74 tractor

ABSTRACT: A new universal high performance sprayer (OSV-2.5) which incorporates hydraulic, pneumohydraulic, and "application by wind" spraying has been developed. The sprayer (see Fig. 1 on the Enclosure) is powered by a tractor (MTZ, MTZ-50, DT-54A, DT-75, T-74) drive through coupling 10 and includes an agitator 8, two-speed reducer 4, pumping station 5 (two three-cylinder pumps), alternate blower 6, filters 12, and atomizer 13. By using pumps 5 or blower 6 or both in combination, different spraying regimes can be achieved. The specifications for the OSV-2.5 are as follows: width of spray path = 35-50 m, speed = 3.6-6.7 km/hr, weight = 1320 kg, capacity = 1800 liter, axial blower: 1200 rpm, 88 756 m³/hr,

Card 1/3

L 62488-65

ACCESSION NR: AP5018031

3

50 mm H₂O head, centrifugal blower: 1200 rpm, 6410 m³/hr, 200 mm H₂O, piston pump: type UN41000, 535 rpm, 0-20 kg/cm², 85 liter/min. The OSV-2.5 has been successfully tested. Orig. art. has: 1 table and 2 figures.

ASSOCIATION: OSKB po mashinam dlya khimicheskoy zashchity rasteniy (OSKB for Machinery for Chemical Protection of Plants) 4455

SUBMITTED: 00

ENCL: 01

SUB CODE: LS, IE

NO REF SOV: 000

OTHER: 000

Card 2/3

L 62188-65

ACCESSION NR: AP5018031

ENCLOSURE: 01

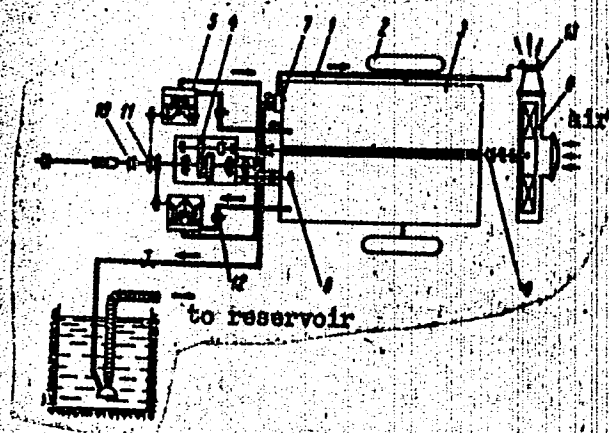


Fig. 1.
Schematic diagram of OSV-2.5

Card

3/3

GUBAREV, M.I.; NAGIRNYY, Yu.P.; SUDIT, Zh.M.

The OSV-2,5 multipurpose sprayer. Trakt. i sel'khoz mash. no.7:42-43
Jl '65. (MIRA 18:7)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro po mashinam
dlya khimicheskoy zashchity rasteniy.

GUBAREV, N.A.																									
1ST AND 2ND GROUPS													3RD AND 4TH GROUPS												
Manifestation of hyperglycemia from the action of large doses of chloral hydrate. N. A. Gubarev and I. A. Lerman. <i>Fiziol. Zhur.</i> (J. Physiol.) 86, 119-21(1948).—Subcutaneous injection of 5-6 ml./kg. of 7% chloral hydrate into rabbit gave a 45-66% rise in blood sugar. Intraperitoneal injection of 0.3-0.5 g./kg. of chloral hydrate into dogs gave after 1 hr. a max. of 78 mg. % rise of blood sugar, which began to drop after 2 hrs. and was normal after 3 hrs. If in the latter series phenobarbital (0.1-0.12 g./kg.) was previously administered, the "sugar center" is repressed and only a very small rise of blood sugar is observed. In expts. with dogs having the right suprarenal removed and having the left one denervated, the injection of chloral hydrate gave only an insignificant rise of blood sugar. This indicates that the chloral hydrate hyperglycemia is of central origin. G. M. Kosolapoff																									
ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION																									

GUBAREV, N.S., inzhener.

Local resistance in pipe fittings for high pressure air.

Sudostroenie 23 no.3:41-44 Mr '57.

(MLRA 10:5)

(Marine pipe fitting) (Air flow)

GUBAREV, S.D.

Public inspectors. Put' i put. khoz. 7 no.6:30 '63.

(MIRA 16:7)

1. Pomoshchnik revizora po bezopasnosti dvizheniya, stantsiya
Sol'vychevodsk, Severnoy dorogi.

(Railroads—Maintenance and repair)

(Trade unions)

GURAYEV, S.N.

Wages of workers in machine shops of alcohol plants. Spirt. prom.
24 no.1:40 '58. (MIRA 11:3)

1. Nachal'nik planovogo otdela Volkovskogo spirtovogo zavoda Tambovskoy
oblasti.

(Wages) (Distilling industries)

GUBAREV, S. P., polkovnik zapasa

Valer born in battle ("Steep take-off" by N. Maklasov. Reviewed
by S. P. G. Gubarev). Vest.Vozd.Fl. no.10:81-82 0 '60.

(MIRA 13:11)

(World War, 1939-1945---Aerial operations)
(Maklasov, N.)

GUBAREV, S.P., polkovnik zapasa

Place in life. Vest.Vozd.Fl no.5:79-82 My '60. (MIRA 13:7)
(World War, 1939-1945--Aerial operations)

GUBAREV, S.P., gvardii polkovnik zapasa

Our wings grew stronger in battle. Vest.Vozd.Fl. no.2:79-84'61.
(MIRA 14:7)

1. Byvshiy komissar 104-go gvardeyskogo aviatsionnogo
istrebitel'nogo polka.
(World War, 1939-1945--Aerial operations)

GUBAREV, S.Ya., prof., MIKHAYLOV, V.P., prof.

Report of the editorial board of "Meditsinskaya radiologiya" at
a meeting of the Medical Council of the Ministry of Public Health
of the U.S.S.R. Med.rad.3 no.2:86-88 Mr-Apr'58 (MIRA 11:5)

1. Iz otdela radiobiologii Instituta eksperimental'noy meditsiny
AMN SSSR.

(RADIOLOGY, MEDICAL--PERIODICALS)

ACC NR: AN7001538

SOURCE CODE: UR/9007/67/000/004/0001/0002

AUTHOR: Gubarev, V. (Special correspondent "Komsomol'skaya Pravda")

ORG: none

TITLE: Jet interceptor aircraft with an almost vertical takeoff

SOURCE: Komsomol'skaya pravda, no. 4, 5 Jan 67, p. 1, col. 7 and p. 2, cols. 1-5

TOPIC TAGS: vertical takeoff aircraft, interceptor aircraft

ABSTRACT: It has been reported that the Soviet Union has developed a booster unit that enables its jet interceptor aircraft to make an almost vertical takeoff. The unit shortens a plane's takeoff run by nearly ten times and permits it to reach an altitude of 20 km within minutes. If the temperature were measured 100 m from the tail, it would be approximately 100C. Orig. art. has: 2 figures. [NC]

SUB CODE: 01/ SUBM DATE: none/ ATD PRESS: 5109

Card 1/1

GUBAREV, V., inzh.; KRYLOV, V., inzh.

Using the KTU-1 system in mining thick flat beds. Tekh.-ekon.biul.
no.1/2:22-27 Ja-P '59. (MIRA 12:4)
(Kuznetsk Basin--Coal mines and mining)

GUBAREV, V.

Bigger wings for sports that involve aeronautics! Kryl.roda
11 no.1: Ja '60. (MIRA 13:5)

1. Chlen prezidiuma TSentral'nogo komiteta Dobrovol'nogo
obshchestva sodeystviya armii, aviatsii i flotu.
(Aeronautics)

GURAREV, V., master sports

First lessons in shooting the small-bore pistol. Voen. znan. 36 no.9:
27-28 S '60. (MIRA 13:9)

(Pistol shooting)

ABDULIN, A.; ALEKSEYEV, I.; BANTLE, O.; BOBROV, L.; BOZHANOV, B.;
BOYKO, V.; BONDAREV, K.; BORZOV, V.; VERKHOVSKIY, N.; GUBAREV, V.;
GUSHCHEV, S.; DEBABOV, V.; DIKS, R.; DMITRIYEV, A.; ZHIGAREV, A.;
ZEL'DOVICH, Ya.; ZUBKOV, B.; IRININ, A.; IORDANSKIY, A.;
KITAYGORODSKIY, P.; KLYUYEV, Ye.; KLYACHKO, V.; KOVALEVSKIY, V.;
KNORRE, Ye.; KONSTANTINOVSKIY, M.; LADIN, V.; LITVIN-SEDOY, M.;
MALEVANCHIK, B.; MANICHEV, G.; MEDVEDEV, Yu.; MEL'NIKOV, I.;
MUSLIN, Ye.; NATARIUS Ya.; NEYFAKH, A.; NIKOLAYEV, G.; NOVOMEYSKIY, A.;
OL'SHANSKIY, N.; OS'MIN, S.; PODOL'NIY, R.; RAKHMANOV, N.; REPIN, L.;
RESHETOV, Yu.; RYBCHINSKIY, Yu.; SVOREN', R.; SIFOROV, V.; SOKOL'SKIY, A.;
SPITSYN, V.; TEREKHOV, V.; TEPILOV, L.; KHAR'KOVSKIY, A.; CHERNYAYEV, I.;
SHAROL', L.; SHIBANOV, A.; SHIBNEV, V.; SHUYKIN, N.; SHCHUKIN, O.;
EL'SHANSKIY, I.; YUR'YEV, A.; IVANOV, N.; LIVANOV, A.; FEDCHENKO, V.;
DANIN, D., red.

[Eureka] Evrika. Moskva, Molodaia gvardiia, 1964. 278 p.
(MIRA 18:3)

ACC NR: AN7003739

SOURCE CODE: UR/9007/67/000/031/0004/0004

AUTHOR: Gubarev, V. (Special correspondent for Komsomol'skaya pravda); Gricher, I. (Special correspondnet for Komsomol'skaya pravda)

ORG: none

TITLE: Training on a rocket submarine

SOURCE: Komsomol'skaya pravda, no. 31, 5 Feb 67, p. 4, col. 3-7

TOPIC TAGS: submarine, rocket

ABSTRACT:

This article was written from a submarine while its crew was on a rocket-launching exercise. The commander stated that everything was being done as if during wartime, since American strategic bombers and nuclear ships are on constant patrol. The launching of a rocket from the submerged submarine is described, and a halftone is included.

SUB CODE: 15/ SUBM DATE: none/ ATD PRESS: 5112

Card 1/1

UDC: none

GUBAREV, V.I., inzhener.

Instrument for measuring the angle of welded joints. Biul.stroi.tekh. 10
no.12:17 J1 '53. (MLA 6:8)

(Measuring instruments)

GUBAREV, V.N.

Mechanization of the disinfection of railroad cars.
Veterinariia 40 no.10:61-62 0'63. (MIRA 17:5)

1. Nachal'nik veterinarno-sanitarnogo nadzora Dezinfektsionno-
promyvochnoy stantsii Kazakhskoy zheleznoy dorogi.

GUBAREV, Vladimir Stepanovich; NEPOROZHNIY, Petr Stepanovich;
CHERNIKOVA, M.S., red.; POPOV, N.D., tekhn. red.

[Rapid development of electrification] Elektrifikatsiia ope-
rezhaiushchaia. Moskva, Sovetskaia Rossiia, 1962. 66 p.
(MIRA 15:7)

(Electrification)

GUBAREV, Vladimir; YARTSEV, N., red.

[Man, earth, universe: Soviet scientists tell: "What we gain from the conquest of outer space"] Chelovek, Zemlia, Vselennaia; sovetskie uchenye rasskazyvaiut: "Chto daet nam osvoenie kosmosa." Moskva, Mosk. rebochii, 1965. 221 p. (MIRA 18:12)

GUBAREV, Vladimir Stepanovich; GRIGOR'YEV, Ye.N., red.

[Birth of the atomic reactor; meetings in the city
of physicists] Roshdenie atomnogo reaktora; vstrechi
v gorode fizikov. Moskva, Atomizdat, 1965. 95 p.
(MIRA 18:12)

GUBAREV, V. V.

Dissertation: "An Experimental Investigation of Deformation During the Cutting of Sheets of Metal in Stamping Dies." Cand Tech Sci, Moscow Order of the Labor Red Banner Steel Institute I. V. Stalin, 24 Jun 54. (Vechernyaya Moskva, Moscow, 15 Jun 54)

SO: SUM 318, 23 Dec 1954

ZALESSKIY, V.I., professor; GUBAREV, V.V., kandidat tekhnicheskikh nauk.

The mechanism of deformation in stamp cutting of sheet metal.
Shor.Inst.stali no.33:409-452 '55. (MLRA 9:6)

1.Kafedra kovki i shtampovki.
(Strains and stresses) (Sheet-metal work)

ZALESSKIY, V.I.; VASIL'YEV, D.I.; GUBAREV, V.V.

Rotating heads for hydraulic presses. Kuz.-shtan.proizv. 1
no.12:34-35 D '59. (MIRA 13:4)
(Hydraulic presses) (Extrusion process)

26534

S/182/61/000/003/003/009

A161/A133

18 III

AUTHORS: , Zalesskiy, V. I., Mikhaleiko, F. P., Gubarev, V. V.

TITLE: Utilization of a new steel grade for blanking dies to increase their service life

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 3, 1961. 9 - 16

TEXT: Results are presented of tests of blanking dies made from the new 5XFC (5KhGS) die steel grade, developed by Moskovskiy institut stali (Moscow Steel Institute) and being produced now by the "Krasnyy Oktyabr'" Plant in Stalingrad and by other plants. The tests were carried out at the Podol'skiy Ordena Trudovogo Krasnogo Znameni mekhanicheskiy zavod im. M. I. Kalinina (Podol'sk "Order of the Red Banner of Labor" Mechanical Plant im. M. I. Kalinin). Dies of Y10A (U10A) steel, used at the plant for blanking dies, were tested for comparison. The chemical composition of 5KhGS steel determined by chemical analysis of chip was: (%) 0.53 C, 0.98 Mn, 1.34 Si, 2.02 Cr, 0.015 P and 0.015 S. The three different die shapes chosen for the tests are shown in photographs and were intended for blanking three different parts - a lever and two sewing machine parts. The tests consisted in checking the wear during the normal working process in the shop, in an

Card 1/2

Utilization of a new steel grade for blanking dies to... ²⁶⁵³¹
S/182/61/000/003/003/009 A161/A133

automatic press with maximum 50 ton pressure and 120 strokes per minute, and a crank press. The article includes details of dies manufacture and heat treatment. It is mentioned that dies made from forged steel proved twice as durable as those made from rolled metal. The die set no. 1 (blanking levers) withstood 465,000 strokes after six regrindings, which is 5.8 times more than dies of U10A steel; the tests with the die set no. 2 could not be completed since the production program was ended, but the dies were still good for further work after 349,800 strokes and 8 regrindings. The authors conclude that the forging technology of dies with reduced walls should be changed to obtain a thorough peening of the blank with the fibers being directed along the weakened crosspieces, and that regrinding of the dies is necessary when the burr has reached a height of 0.15 mm. One very important property of dies made of 5KhGS steel is the negligible deformation during the heat treatment. There are 6 figures and 8 tables.

Card 2/2

GUBAREV, Ye.

84-11-9/36

AUTHOR: Ryazanov, S., Deputy Chief of the Political Department, and Gubarev, Ye., Propagandist in the Same Department; both under Volga Territorial Administration

TITLE: A Two-Year School of Economics (Dvukhgodichnaya shkola ekonomicheskikh znaniy)

PERIODICAL: Grazhdanskaya aviatsiya, 1957, Nr 11, pp. 7-8 (USSR)

ABSTRACT: The article relates the experience gained in the two-year school of economics organized in the squadron whose chief is comrade Brosalin. By "economics" the article means knowledge of oblast's resources and possibilities, as well as of capacities of aviation units and experience gained by them. During these two years a series of lectures were delivered on fuel economy, geographical data pertinent to the range of operations, etc. The courses were supervised by comrade Oparin, chief of staff of the squadron, and comrade Trofimov, deputy chief for political affairs. When the school was organized, 32 members of the

Card 1/2

84-11-9/36

A Two-Year School of Economics (Cont.)

squadron registered for the courses. As a result, the overall production and economy indices went up, or, in other words, the planes were used more efficiently. This was especially true of the An-2. In 1957 as compared with the first quarter of 1956, the productivity of the An-2 per 1 flight-hour increased by 17/ton kilometers, and hours flown per 1 inventory An-2 increased by 64 hours. Comrade Lis, one of the students, is mentioned by name.

AVAILABLE: Library of Congress

Card 2/2

GUBAREV, Ye. (gor. Kuybyshev); KYZANOV, S. (gor. Kuybyshev).

Advance of an engineer. Grazhd. sv. 14 no.5:17 My '57. (MIRA 10:2)
(Kurasov, Vladimir)

GUBAREV, Ye. A.

Antihyaluronidase action of diprazine and dimedrol. Farm. 1 toks.
27 no.3:328-330 My-Je '64. (MIRA 18:4)

1. Kafedra farmakologii (zav. - prof. V.V.Vasil'yeva) i radio-
biologicheskaya laboratoriya (zav. - prof. M.F.Merkulov) II
Moskovskogo meditsinskogo instituta imeni Pirogova.

MANILOV, I.I.; SHCHETIN, I.V.; GILIN, A.I.; CHURAKOV, Ya.A.; CHISTYAKOV, V.A.

Mechanism of some complications in the use of contrast methods
in X-ray examinations. Vest. reht. i rad. 39 no.6:31-36 Nov '64.

(MLRA 18:6)

1. Gospital'naya khirurgicheskaya klinika (zav. - deystvitel'nyy
chlen AMN SSSR prof. B.V.Petrovskiy) i Moskovskogo ordena Lenina
meditsinskogo instituta imeni Sechenova, kafedra farmakologii (zav. -
prof. V.V.Vasil'yeva) i tsiti biologicheskaya laboratoriya (zav. -
prof. M.F.Merkulov) II Moskovskogo meditsinskogo instituta imeni
Pirogova.

SERGEYEV, P.V.; GUBAREV, Ye.A.

Effect of antihistamine preparations and triurol on the passage of sodium from the blood into tissues. Pat. fiziol. i eksp. terap. 9 no.1:53-56 Ja-F '65. (MIRA 18:11)

1. Kafedra farmakologii (zav. - prof. V.V. Vasil'yeva) i radiologicheskaya laboratoriya (zav. - prof. M.F. Merkulov) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.

SERGEYEV, P.V.; GUBAREV, Yo.A.

Effect of hypertonic solutions on the vascular permeability.
Farm. i toks. 28 no.1:63-65 Ja-F '65.

(MIRA 18:12)

1. Kafedra farmakologii (zav. - prof. V.V.Vasil'yeva) i
radiobiologicheskaya laboratoriya (zav. - prof. M.F.Merkulov)
II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.
Submitted February 5, 1964.

GURAMOV, Ye.A.

Effect of polymyxin, diprazin, and dimedrol on ascorbic
acid content in the tissues of certain organs in mice.
Farm. i toks. 28 no.6:722-725 N-D '65.

(MIR 19:1)

I. Kafedra farmakologii (zav. - prof. V.V.Vasil'yeva) i
radiobiologicheskaya laboratoriya (zav. - prof. N.F.Perkolov)
II Moskovskogo meditsinskogo instituta imeni Pirogova.

ACC NR: AP6034260

(N)

SOURCE CODE: UR/C390/66/029/005/0562/0565

AUTHOR: Gubarev, Ye. A

ORG: Department of Pharmacology, Second Moscow Medical Institute im. N. I. Pirogov /Head-prof. M. F. Merkulov/ (Kafedra farmakologii II Moskovskogo meditsinskogo instituta); Kursk Medical Institute /Head-prof. V. V. Gatsura/ (Kurskiy meditsinskiy institut)

TITLE: Relation between the permeability of the blood tissue barrier in certain organs and their ascorbic acid level

SOURCE: Farmakologiya i toksikologiya, v. 29, no. 5, 1966, 562-565

TOPIC TAGS: ~~blood brain barrier~~, tissue permeability, ascorbic acid, HISTOLOGY, HEMATOENCEPHALITIC BARRIER

ABSTRACT: The state of tissue and capillary activity depends mainly upon hyaluronidase which depolymerizes hyaluronic acid, a basic component of connective tissue. Ascorbic acid is a hyaluronidase inhibitor. This experiment was designed to test the theory that decreasing ascorbic acid levels in tissues would result in increased tissue permeability. When polymixin was administered to rats in 10 mg/kg doses,

Card 1/2

UDC: 615.787-092: 612.388-064+612.015.642

ACC NR-AP6034260

the ascorbic acid content was decreased in liver and kidney tissues and permeability of the tissues was increased. Antihistamines alone do not produce such effects but when injected before polymixin reduce the changes in blood tissue permeability as compared to administration of polymixin alone. Similar results were obtained in studies of the blood-brain barrier in mice.

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

SUB CODE: 06/ SUBM DATE: 04Apr66/ ORIG REF: 001/ OTH REF: 008

2/2

GUBAREV, Ye.M. [deceased]; YEFIMTSEVA, Ye.P.

Methodology of the isolation and study of the polysaccharides of
cholera vibrios. Vop. med. khim. 11 no.2:89-94 Mr-Apr '65.

(MIRA 18:10)

1. Kafedra biokhimii Rostovskogo-na-Donu meditsinskogo instituta.

KANCHUKH, A.A.; L'GEVA, N.I.; NOVOSIL'TSEV, N.N.; KOLESNIKOVA, I.I.;
GUBAREV, Ye.M. [Hubarev, E.M.] [deceased]

Distribution of catalase in fractions of soluble plague microbe
antigens. Ukr. biokhim. zhur. 35 no.5:700-708 '63.

(MIRA 17:5)

1. Rostovskiy-na-Donu nauchno-issledovatel'skiy prot'vochumnyy
institut.

GALAYEV, Yu.V.; GUBAREV, Ye.M. [deceased]; DAVYDOV, V.P.

Decarboxylation of amino acids with different strains of
Escherichia coli and intestinal flora from children with
gastrointestinal disorders. Zhur. mikrobiol., epid. i immun.
40 no. 8:117-122, Ag '63. (MIRA 17:9)

1. Iz Rostovskogo-na-Donu meditsinskogo instituta.

GUBAREV, Ye.M. (deceased); POVRICHENNY, A.M., ALEKSEYKOVA, T.I.

Use of the reaction with formaldehyde for characterization of
some physicochemical properties of nucleic acids. Biofizika
9 no.4:434-440 '64. (NERA 18:3)

1. Sostovskiy gosudarstvennyy meditsinskii institut.

84-5-14/42

AUTHORS: Gubarev, Yu., Ryazanov, S. (Kuybyshev)

TITLE: The Maturing Engineer (Rastushchiy inzhener)

PERIODICAL: Grazhdanskaya Aviatsiya, 1957, Nr 5, p. 17 (USSR)

ABSTRACT: Vladimir Kurasov graduated from the school for aircraft mechanics and was soon awarded with the "Pochetnaya Gramota" of the TsK VLKSM. He has been employed by the Kiyev Institute of the GVF as an engineer of a training unit to instruct future pilots and mechanics, supervising studies on theory and construction of engines. Among his pupils were, among others, pilots Antonov and Rakitin and mechanics Yakushev and Dimayev. Of 23 improvement suggestions made last year in Kurasov's unit, several suggestions were put into practice. Two of them were made by Kurasov himself: by proper timing of the 3KPM oil dilution valve Kurasov found the most effective method of diluting oil with gasoline for the An-2 planes; and by improving the adapter sleeve between the heater and the aircraft intake tube he reduced losses and speeded the heating process.

AVAILABLE: Library of Congress

Card: 1/1

GUBAREVA, A.V.

Preserved *Vaccinium myrtillus* juice as a substitute for hematoxylin.
Ark. pat., Moskva 14 no.4:95 July-Aug 1952. (CML 23:2)

1. Of the Department of Pathological Anatomy (Head -- Prof. P. V. Sipovskiy), State Order of Lenin Institute for the Advanced Training of Physicians imeni S. M. Kirov.

GUBAREVA, A.V.

Argentaffin cells in pseudomucinous cysts of the ovaries; histogenesis of pseudomucinous cysts. Vop.onk.1 no.1:107-110 '55.

(MLRA 8:10)

1. Iz patologo-morfologicheskoy laboratorii Instituta onkologii AMN SSSR (zaveduyushchiy--chl.-korr. AMN SSSR prof. M.F.Glasunov) Leningrad, 14, ul. Zhukovskogo, 28, kv.45.

(CYSTS,

pseudomucinous cysts, argentaffin cells in)

GUBAREVA, A.V. (Leningrad, 14 ul. Zhukovskogo, d.28, kv.45)

Asymptomatic dyshormonal changes in normal mammary glands in women
over 40 [with summary in English] Vop.onk.2 no.4:443-452 '56.

(MIRA 9:12)

1. Iz patologomorfologicheskoy laboratorii (zav. - chlen-korrespondent
AMN SSSR prof. A.I.Serebrov)

(BREAST, diseases,

hormonal disord. in women over 40 (Rus))

EXCERPTA MEDICA Sec 5 Vol 12/11 General Path. Nov 59

3484. CARCINOID TUMOUR OF THE OVARY (Russian text) - Gubareva A. V.
Inst. of Oncol. AMS, Leningrad - VOPR. ONKOL. 1959, 5/4 (425-430) illus. 3
Report of the case of a non-metastasizing carcinoid which developed in an ovarian
dermoid cyst, presenting the classical symptoms. The vascular phenomena dis-
appeared after surgical removal of the tumour. The pertinent literature is review-
ed. (V, 10, 16)

GUBAREVA, A.V. (Leningrad, ul. Savushkina, d. 1/2, kv. 48)

Ovarian carcinoid; function of Kulchitskii's cells. Vop.onk. 5
no.4:425-430 '59. (MIRA 12:12)

1. Iz patologomorfologicheskoy laboratorii (zav. - chlen-korrespondent
AMN SSSR prof. M.F. Glazunov) Instituta onkologii AMN SSSR (dir. -
deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov).

(ARGENTAFFINOMA, pathology
ovaries, argentaffine cells (Rus))
(OVARIES, neoplasms,
argentaffinoma, argentaffine cells (Rus))

UGLOV, F.G., prof.; GUBAREVA, A.V., kand.med.nauk (Leningrad)

Hormonally active β -cell tumors of the islands of the pancreas.
Klin.med. 40 no.6:42-51 Je '62. (MIRA 15:9)

1. Iz kliniki gosspital'noy khirurgii (zav. - chlen-korrespondent
AMN SSSR prof. F.G. Uglov) i Leningradskogo meditsinskogo insti-
tuta imeni akad. I.P. Pavlova.
(PANCREAS--TUMORS)

CHURAPKA, A.V. (Leningrad)

Cancer of the meibomian glands. Arkh. pat. 25 no.3:50-56 1963.
(MIRA 17:12)

1. Iz kliniki gosital'noy khirurgii (zav. - chlen-korrespondent
AMN SSSR prof. F.G. Uglor) i Leningradskogo meditsinskogo insti-
tuta imeni akad. I.P. Pavlova.

GUBAREVA, A.V. (Leningrad)

Mixed tumors of the skin. Arkh. pat. 25 no.7:17-24 '63
(MIRA 16:12)

1. Iz kliniki gospiatal'noy khirurgii (zav. - chlen-korrespondent AMN SSSR prof. F.G. Uglov) I. Leningradskogo meditsinskogo instituta imeni akademii I.P.Pavlova.

GUBAREVA, A.V. (Leningrad)

Adenomyoepitheliomas of the skin. Arkh. pat. 27 no.2:32-37 '65.
(MIRA 18:5)

1. Laboratoriya radiatsionnoy genetiki i otdalennoy luchevoy
patologii (zav. -- doktor biologicheskikh nauk prof. S.N.
Aleksandrov) Tsentral'nogo nauchno-issledovatel'skogo rentgeno-
radiologicheskogo instituta Ministerstva zdoravookhraneniya SSSR
(dir. Ye.I.Vorob'yev).

LUKASH, N.I.; GUBAREVA, A.V.; SHIMANOVSKAYA, K.B.

Antineoplastic resistance in animals subjected to chronic treatment
with Sr⁹⁰ in small doses. Dokl. AN SSSR 163 no.3:747-749 J1 '65.

(MIRA 18:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy
radiologii i Nauchno-issledovatel'skiy institut radiatsionnoy gigiyeny.
Submitted June 24, 1964.

GUBAREVA, A.V. (Leningrad)

The histogenesis of clear-cell epithelioma of the skin. Arkh.
pat. 26 no.6:59-64 '64. (MIRA 18:12)

1. Laboratoriya otдалennoy luchevoj patologii (zav. - doktor
biol. nauk S.N.Aleksandrov) Tsentral'nogo nauchno-issledovatel'-
skogo instituta meditsinskoy radiologii (dir. Ye.I.Vorob'yev)
Ministerstva zdavookhraneniya SSSR. Submitted March 20, 1963.

KRUPSKIY, N.K.; ALEKSANDROVA, A.M.; GUBAREVA, D.N.

Determining the pH value in soils of the Ukrainian S.S.R.
Pochvovedenie no.4:70-78 Ap '62. (MIRA 15:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut pochvovedeniya
imeni A.N.Sokolovskogo.

(Ukraine--Soil acidity)

GUBAREVA, G.

Biology of the apple-tree ermine-moth in Penza Province orchards.
Uch. zap. Penz. gos. ped. inst. no.6:3-24 '59. (MIRA 15:5)
(Penza Province--Apple--Diseases and pests) (Moths)

GUBAREVA, G.

Biology and ecology of the chalcid-fly *Ageniaspis fuscicollis*
Dalm and its practical use in Penza Province. Uch. zap. Penz. gos.
ped. inst. no.6:25-80 '59. (MIRA 15:5)

(Penza Province--Chalcid flies)

(Moths--Biological control)

GUBAREVA, G.G., Cand Biol Sci — (diss) "Ecology of the most effective entomophages of the apple-tree moth (*Hyponomeuta malinella* Zell) and their practical application." Mos, 1959. 19 pp (Mos State Pedag Inst im V.I. Lenin). 150 copies (KL,40-59,102)

GUBAREVA, N. A.

"Activation Energy and Entropy of the Transition State," Dokl. AN SSSR,
23, No.7, 1939

Inst. Tech. Fine Chem., Lab. Phys.Chem., Moscow

GUBA-EVA, N. A.

"Bisulfite Compounds of Aldehydes and Ketones. II. Kinetics of the Addition of Sodium Bisulfite to Acetone." (p. 238)
(Lab of Org Chem, 2d Moscow State Med Inst)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1948, Volume 18, No. 2

GUBAREVA, M. A.

"Synthesis of Beta-Chlorolevulinic Acid and Some of Its Derivatives."

Sub 3 Dec 51, Moscow State Pedagogical Institute V. I. Lenin.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

GUBAREVA, M. H.

4

Condensation of γ -chloroacetoacetic ester and the synthesis of β -chlorolevulinic acid. V. M. Kosolapov and M. H. Gubareva (I. V. Stalin 2nd State Med. Inst., Moscow), *Zhur. Obshchei Khim.*, 23, 1830-5 (1953). To 10 g. $\text{ClCH}_2\text{COCH}_2\text{CO}_2\text{Et}$ (I) was gradually added 2.1 g. Na in 60 ml. abs. EtOH ; after 1 hr. at below 40° the mixt. was heated to 60° until the alkaline reaction disappeared and the cooled mixt. gave 4.5 g. (38.6%) β -chlorolevulinic acid (II), m. 137° . A soln. of 5 g. I to 5 g. α - $\text{C}_6\text{H}_5\text{CH}(\text{CO})\text{NK}$ in 80 ml. xylene at room temp.; followed by brief heating to 60° (tar formation begins), and standing overnight gave 2.2 g. II (50%). To 8 g. CH_3N_3 in 700-800 ml. Et_2O was slowly added at -5° 15 g. $\text{ClCOCH}_2\text{CH}_2\text{CO}_2\text{Et}$; after 24 hrs. the mixt. yielded a soln. of $\text{N}_3\text{CHCOCH}_2\text{CH}_2\text{CO}_2\text{Et}$, which was treated at -5° to -10° with dry HCl 4-5 hr.; part of the solvent removed to remove most of the HCl , the residue was dild. with 200 ml. Et_2O , washed with H_2O and 5% Na_2CO_3 , the Et_2O exts. of the wash solns. combined with the main org. layer and distd. to give 98.3% crude $\text{ClCH}_2\text{COCH}_2\text{CH}_2\text{CO}_2\text{Et}$; redistn. gave 90% pure ester, b.p. $118-20^\circ$, m. $137-40^\circ$, b.m. $230-5^\circ$, which is an irritant of mucous membranes. The ester heated with 1:3 HCl , then evapd. repeatedly with H_2O gave 100% crude free acid, m. $67-8^\circ$; pure acid (88% yield), m. $72-3.5^\circ$ (from C_6H_5); semicarbazone, m. $148-9^\circ$ (decomn.) (from MeOH). Neither the salts nor the amide of this acid could be prepd. by the conventional methods, since treatment of aq. or alc. solns. with the necessary reagents yielded β -levullinolactone, an oil, or a similar lactam.

O. M. Kosolapov

GUBAREVA, M. V.

Synthesis of 2-mercaptoimidazolypropionic acid. V. M. Rodionov and M. A. Gubareva (I. V. Stalin and State Med. Inst., Moscow). *Chem. Zh.* 1955, 23, 1620-2 (1955).
 $\text{ClCH}_2\text{COCH}_2\text{CH}_2\text{CO}_2\text{Et}$ (10 g.) and 10.1 g. $\text{o-C}_6\text{H}_4(\text{CO})_2\text{NEt}_2$ in 60 ml. abs. EtOH refluxed 5 hrs., filtered hot, and cooled gave 9.4 g. crude $\text{o-C}_6\text{H}_4(\text{CO})_2\text{NCH}_2\text{COCH}_2\text{CH}_2\text{CO}_2\text{Et}$; pure ester, 61%, m. 81-3° (from CaH_2). This (2.9 g.) refluxed 20 min. with 35 ml. 1:3 HCl gave 85% $\text{o-C}_6\text{H}_4(\text{CO})_2\text{NCH}_2\text{COCH}_2\text{CH}_2\text{CO}_2\text{H}$, m. 150° (from EtOH); semicarbazone, decomp. 202-3° (from EtOH). Heating the Et ester (8 g.) in 60 ml. 1:1 HCl 6 hrs. gave after removal of the pptd. $\text{o-C}_6\text{H}_4(\text{CO})_2\text{H}$ and evapn. of the decolorized filtrate 93% $\text{H}_2\text{NCH}_2\text{COCH}_2\text{CH}_2\text{CO}_2\text{H} \cdot \text{HCl}$, m. 150-1°; semicarbazone, m. 204.5° (decompn.) (from MeOH). This (4 g.), 6 g. KCNS and 60 ml. H_2O kept overnight at room temp. and concd. gave crude 2-mercaptoimidazolypropionic acid, purified by soln. in hot abs. EtOH, evapn. and crystn. from H_2O ; the pure acid, m. 207-8°, was obtained in 72.7% yield. The product as obtained above is a monohydrate.
 G. M. Kosolapoff

BOKSHTEYN, S.Z.; GUBAREVA, M.A.; KISHKIN, S.T.; MOROZ, L.M.

Investigation of the process of recrystallization of iron by means
of radioisotopes. Zav.lab 26 no.10:1111-1114 '60. (MIRA 13:10)
(Iron--Metallography) (Radioisotopes)

ACCESSION NR: AT4040404

S/0000/64/000/000/0015/0024

AUTHOR: Gubareva, M. A.; Moroz, L. M.

TITLE: A study of self diffusion and diffusion in nickel alloys

SOURCE: Protsessy* diffuzii, struktura i svoystva metallov (Diffusion processes, structure and properties of metals); sbornik statey. Moscow, Izd-vo Mashinostroyeniye, 1964, 15-24

TOPIC TAGS: nickel, nickel alloy, Kh20N80T3 alloy, ZhS3 alloy, nickel self diffusion, boundary diffusion, bulk diffusion, autoradiographic diffusion analysis, self diffusion coefficient, diffusion activation energy, tin, tin diffusion

ABSTRACT: The authors present a detailed analysis of autoradiographic diagrams of diffusion in nickel and offer some qualitative evaluations of the diffusion of tin and self-diffusion of nickel in nickel and nickel-based alloys. They demonstrate the heterogeneity of the self-diffusion process and the significance of grain boundaries, temperature and composition or structural factors for the processes of self-and hetero-diffusion. Prismatic samples of technically pure Ni, Ni plus 0.01% B, Ni plus 0.6% W and of alloy Kh20N80T3 were annealed at high temperatures (1 hr. at 1100C, 12 hrs. at 1100C, 9 hrs. at 1200C and 2 hrs. at 1200C, Card. 1/2

ACCESSION NR: AT4040404

respectively; all cooled in the furnace to 900C, then in free air), then polished electrolytically and electroplated with Ni⁶³ (coat thickness up to 1μ). Plated samples were homogenized in a vacuum furnace at 700, 800, 1000 or 1200C. Effects of structural factors on diffusion rate were studied on cast or forged samples of alloy ZhS3 which were air-cooled after 7 hrs. at 1150C, then homogenized in argon at 800, 850 or 950C. It was found that self-diffusion of Ni proceeded mainly along the grain boundaries within the range of 800-1200C. Self-diffusion coefficients ranged from 2.0 to 56.0 · 10¹² cm²/sec for pure Ni at 800 and 1200C, respectively and 0.6 to 28.0 for alloy Kh20N80T3 at such temperatures. The activation energy was 24,800 kcal/g-atom. Coefficients of tin diffusion in ZhS3 ranged from 0.3 to 23.0 · 10¹³ cm²/sec (for cast material) at 800 and 950C, respectively and from 0.8 to 33.0 for forged material. The ratio Q_{surf}/Q_{bulk} was 0.75, 0.62 and 0.52, respectively, for ZhS3, KH20N80T3 and pure nickel. Orig. art. has: 5 tables and 7 figures.

ASSOCIATION: none

SUBMITTED: 09Dec63

DATE ACQ: 28May64

ENCL: 00

SUB CODE: MM

NO REF SOV: 001

OTHER: 000

Card 2/2

GUBAREVA, N.A.

[On the basis of cyclical work charts; work experience of mine sections of the Voroshilovgradugol' combine operating on a two-shifts work system] Na osnove grafika tsiklichnosti; opyt raboty uchastkov shakht kombinata Voroshilovgradugol', rabotaiushchikh na dvusmennom dobychnom reshime. [Literaturnaya zapis' N.A.Gubarevoi] Moskva, Ugletekhnizdat, 1953. 50 p. (MLRA 7:6)

(Coal mines and mining) (Multiple shift operation)

GUBAREVA, N. N.

"Chemical Nature and Some Physiological Properties of the Toxic Substances
Producing 'Septic Tonsillitis'," Biokhim., 10, No.3, 1945

Chair Biochemistry, Ufa Med. Inst.

Biochem. Lab., Bacteriological Inst., Ufa

GUBAREVA, N. A.

"The Genesis of Hyperglycamine During the Action of Large Doses of Chloralhydrate," Fiziol. Zhur. SSSR, 34, No.1, 1948

Chair Pharmacology, Bashkir Med. Inst.

USSR / Human and Animal Physiology. Effect of Physical Factors. T-13

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3978

Author : Gubareva, N. A.; Gora, N. F.; Kolotienko, D. I.

Inst : Rostov-on-Don Medical Institute

Title : Experimental Therapy and Prophylaxis of Animals from Injury by Ionizing Irradiations

Orig Pub : Tr. Otchetn. nauchn. konferentsii (Rostovsk. n/D. med. in-t) za 1956, Rostov n/D, 1957, 773-777

Abstract : Mice were subjected to Roentgen irradiation at a dose of 400 r (DL₁₀₀) and the prophylactic and therapeutic effect was studied of NaBr (0.1 g/kg), preparation RD (fraction 8; 0.01 - 0.02 g/kg), caffeine (0.01 g/kg), hyposulfite (0.5 g/kg), pentoxyl (0.05 g/kg), vitamin B₁₂ (1 mg each), cysteine (0.01 g/kg) and combination of NaBr with vitamin B₁₂, cysteine and caffeine. All preparations prolonged life somewhat and caffeine, vitamin B₁₂ and preparation RD

Card 1/2

USSR / Human and Animal Physiology. Effect of Physical Factors. T-13

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000617210018-5"

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 3978

(fraction 8) lowered the percentage of animal loss. NaBr gave a certain therapeutic effect but not a defensive effect. Pentoxyl produced a better effect by its introduction prior to irradiation. In irradiation of mice at a dose of 300 r (DL₅₀), the therapeutic effect of the studied preparations was higher. -- Ye. A. Abaturova

Card 2/2

MOROZOV, Igor' Grigor'yevich; inzh.; GUBAREVA, N.T., red.; BOBROVA, Ye.N.,
tekhn.red.

[Railroad workers in the drive to exceed shift norms] Zheleznodorozhniki v bor'be za perevypolnenie smennykh zadaniy. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 38 p. (MIRA 11:12)
(Railroads)

GUNDOBIN, N.A., red.; GUBAREVA, N.T., red.; VERINA, G.P., tekhn. red.

[Transportation and economic councils] Transport i sovnarkhozy.
Moskva, Gos. transp. zhel-dor. idz-vo, 1958. 294 p. (MIRA 11:9)
(Transportation)

YURCHENKO, I.F., red.; GUBAREVA, N.T., red.; MEDVEDEVA, M.A., tekhn.red.

[Transition to a seven-hour workday; practice of the October and Sverdlovsk Railroads] Perekhod na semichasovoi rabochii den'; opyt Oktiabr'skoi i Sverdlovskoi dorog. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshchenia, 1960. 21 p.

(MIRA 13:11)

(Railroads)

(Hours of labor)

LYAPIN, Andrey Pavlovich, redaktor; MAKAROVA, M.F., redaktor; GUBAREVA,
O.Ya., redaktor

[A collection of articles on economic problems] Sbornik statei po
ekonomicheskim voprosam. Moskva, Akademiia obshchestvennykh nauk
pri TsK KPSS. 1957. 255 p. (MIRA 10:11)
(Russia--Economic policy)

GUBAREVA, P.I., Technician

Moscow Tool Plant (-1944-)

"Increasing the Service Life of Files." Stanki I Instrument Vol. 15, No. 10-11, 1944

BR 52059019

TUSHINSKIY, G. K., GUS'KOVA, YE. F., AND GUBAREVA, V. D.

Recrystallization of Snow and the Occurrence of Avalanches

The authors expound a procedure for and results of investigations into snow thicknesses of avalanche-dangerous portions for clarifying the processes governing the formation of weekly bound horizons of snow firms and deep hoarfrost forming dangerous horizons of sliding. On experimental areas under natural condition they studied the temperature regime for 2 years, migration of water vapor, and changes in microstructure of the snow. They set up special experiments for studying the process of firmization of newly fallen snow and the evolution of bonds between the crystals by means of observations during the changes occurring in the same crystals over a period of several months. The results of the works showed the inescapableness of recrystallization of the snow thickness with course of time and confirmed earlier recommendations. (RZhGeol, No. 4, 1955) Uch. zap. Mosk. gor. ped. in-ta, 21, 1953, 43-69.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

QUBAREVA, M.; SUSHKO, A.; KHOVANSKIY, I.P., tekhnicheskii redaktor.

[Heavy industry is the basis of the economic might of the Soviet state; a brief list of recommended books] Tiazhelaya industriia osnova ekonomicheskogo mogushchestva Sovetskogo gosudarstva; kratkii rekomendatel'nyi ukazatel' literatury. Moskva, Gos.bib-ka SSSR imeni V.I.Lenina, 1955. 39 p. (MLBA 8:11)
(Bibliography--Russia--Industries)

1ST AND 2ND ORDERS										PROCESSES AND PROPERTIES INDEX									
2A The kinetics of unimolecular decomposition in solutions Ya. K. Syrkin and M. A. Gubarev. <i>Acta Physicochim.</i> <i>U. S. S. R.</i> 11, 233-30 (in English); <i>J. Phys. Chem.</i> <i>(U. S. S. R.)</i> 11, 283-88 (1957).—The reaction $(C_6H_5)_3N(C_6H_5)_2$ $(C_6H_5)_2N(C_6H_5) + C_6H_5CH_2I$ was studied in both directions in alc. soln. at 50, 55 and 60°. The equil. const. is $K = 1.2 \times 10^{-4}$ at 50°; the specific rate of the decompos. is $k_1 = 0.4 \times 10^{-4}$ at 50°; and of formation of the salt is $k_2 = 7.7 \times 10^{-4}$ at 50°. The results are discussed in terms of the transition state theory. A series of unimol. decompos. of quaternary NII₂ salts in soln. are compared. S. L. Gerhart										2									
ADDITIONAL METALLURGICAL LITERATURE CLASSIFICATION																			
10000 10000 10000 10000 10000 10000 10000 10000 10000 10000										10000 10000 10000 10000 10000 10000 10000 10000 10000 10000									

PROCEDURES AND PROPERTIES INDEX									
Activation energy and entropy of the transition state. Ya. K. Syrkin and M. A. Gokhman. <i>Compt. rend. acad. sci. U. R. S. S.</i> 25, 688-9 (1969). -- The kinetics of the reaction between NPhMe_2 and EtI in C_6H_6, EtOH and $\text{C}_6\text{H}_5\text{OH}$ solvents, were studied at 25°, 45° and 65°. $\Delta H^\ddagger$ about equal to 20 kcal. The energy of activation in EtOH is 6000 g.-cal. greater than in C_6H_6. B. C. P. A.									
ASS-51.4 METALLURGICAL LITERATURE CLASSIFICATION									
10000 1100 000 000 000 000 000 000 000 000									

1ST AND 2ND SECTIONS		3RD AND 4TH SECTIONS	
SUBJECTS AND PROPERTIES INDEX		SUBJECTS AND PROPERTIES INDEX	
Reaction compounds of aldehydes and ketones. I. Equilibrium of the addition reaction in aqueous solutions. M. A. Chabarov (Recent State Med. Inst., Moscow). J. Gen. Chem. (U.S.S.R.) 17, 2289-94 (1947) (in Russian). The equil. const. $K = [\text{R}_2\text{R}_2\text{C}(\text{OH})_2] / [\text{R}_2\text{R}_2\text{C}(\text{OH})_2]$ were detd. by isometric titration of salts of an aldehyde or ketone with NaHSO_3, the compd. being known to be unaffected by I and not subject to rapid change, as a result of the removal of NaHSO_3. Homocatalysis was found to form no compd. with NaHSO_3, at least the yield is below 1%. Addn. of NaHSO_3 to AcH is practically irreversible; at 0° and at 30°, in 0.05 M soln., the yield of the compd. is 99.5%. For other ketones and aldehydes (conc. in mol/L), values of K, at 0, 20 and 30°, are: Me_2CO (0.05) $7.50 \times 10^3 \pm 1.2$, $2.04 \times 10^3 \pm 0.05$, and $1.55 \times 10^3 \pm 0.01$; MeCOEt (0.05) $1.58 \times 10^3 \pm 0.17$, $0.546 \times 10^3 \pm 0.01$, and $0.34 \times 10^3 \pm 0.04$; $\text{AcCH}_2\text{CO}_2\text{Et}$ (0.01) $2.46 \times 10^3 \pm 0.28$, $0.913 \times 10^3 \pm 0.08$, and $0.540 \times 10^3 \pm 0.08$; EtCHO (0.05) $3.23 \times 10^3 \pm 0.14$, $3.00 \times 10^3 \pm 0.28$, and $2.58 \times 10^3 \pm 0.07$; EtCHO (0.01) $1.28 \times 10^3 \pm 0.20$, $1.20 \times 10^3 \pm 0.12$, and $1.20 \times 10^3 \pm 0.09$; PrCHO (0.01) $7.50 \times 10^3 \pm 1.80$, $2.53 \times 10^3 \pm 0.11$, and $1.70 \times 10^3 \pm 0.10$; $\text{Me-CH}_2\text{CHO}$ (0.01) $4.06 \times 10^3 \pm 0.60$, —, and $4.20 \times 10^3 \pm 0.30$; BuH (0.01) $1.70 \times 10^3 \pm 0.09$, $0.657 \times 10^3 \pm 0.08$, and $0.437 \times 10^3 \pm 0.08$. Evidently, aliphatic aldehydes with a normal chain are most reactive and their K's very least with the temp., but for Me_2CO, MeCOEt, $\text{AcCH}_2\text{CO}_2\text{Et}$ and BuH, K depends strongly on		the temp. The heats of formation (in cal./mole) of the aldehydes compd., calcd. from K, between 243 and 273° and 300-350° K. (av. value) are: PrCHO -7410, -8070; BuH -7850, -7280 (-7275 $\pm$ 175); Me_2CO -7450, -8480 (-8155 $\pm$ 1000 $\pm$ 150); MeCOEt -8670, -8480 (-8480 $\pm$ 25); $\text{AcCH}_2\text{CO}_2\text{Et}$ -10580, -10620 (-10900 $\pm$ 30). With the exception of the latter, most heats of addn. of HSO_3^- to aldehydes and ketones are very close, av. -7940 $\pm$ 120. Possibly, in the case of $\text{AcCH}_2\text{CO}_2\text{Et}$, addn. takes place in a different way, namely at the double bond of the enol form. The calcd. values of the free energy and the entropy of the addn. reaction at 30° are: MeCOEt 6880, 7.1; BuH 3580, 12.3; Me_2CO 8145, 16.0; MeCOEt 2197, 20.7; $\text{AcCH}_2\text{CO}_2\text{Et}$ 2270, 27.1. N. Thon	
444-11A METALLURGICAL LITERATURE CLASSIFICATION		ENTR. 22. 2271	

RODIONOV, V.M.; GUBAREVA, M.A.

New data on the condensation of γ -chloroacetoactic ester, and the synthesis of δ -chlorolevulinic acid. Zhur.ob.khim. 23 no.11:1830-1835 N '53.

(MLRA 6:11)

1. Kafedra khimii Stroitel'nogo instituta Moskovskogo soveta i Kafedra organicheskoy khimii 2-go Moskovskogo Gosudarstvennogo meditsinskogo instituta im. I.V.Stalina. (Acetoacetic ester) (Levulinic acid)

RODIONOV, V.M.; GUBAREVA, M.A.

Synthesis of 2-mercapto-imidasolyl-propionic acid. Zhur.ob.khim. 23 no.11:1845-1848 N '53. (MLA 6:11)

1. Kafedra khimii Stroitel'nogo instituta Moskovskogo soveta, Kafedra organicheskoy khimii 2-go Moskovskogo Gosudarstvennogo meditsinskogo instituta imeni I.V.Stalina. (Propionic acid)

85379

187500

2308, 1555, 1146

S/032/60/026/010/007/035
B016/B054

AUTHORS: Bokshteyn, S. Z., Gubareva, M. A., Kishkin, S. T., and
Moroz, L. M.

TITLE: Study of the Process of Iron Recrystallization by the Method
of Radioactive Isotopes /9

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 10, pp. 1111-1114

TEXT: The authors studied the behavior of atoms at the grain boundaries during the recrystallization of iron (content in %: 0.021 C, 0.014 P, 0.011 S, 0.67 Si, 0.07 Al, 0.08 Mn, 0.06 Ni, 0.033 Cu). Samples of this iron were covered with Fe⁵⁹. In annealing, Fe⁵⁹ spread due to diffusion at the boundaries between the metal grains. This permitted an observation of the local displacement of atoms lying at the boundary during deformation and recrystallization annealing. Iron rods were annealed at 1250°C for 8 h, and then cut into samples (10 × 10 × 20 mm). The riveted layer (70-80 μ) was removed by electropolishing in perchloric and glacial acetic acids. An Fe⁵⁹ layer 1.0 μ thick was electrolytically applied to

Card 1/3

85379

Study of the Process of Iron
Recrystallization by the Method of
Radioactive Isotopes

S/032/60/026/010/007/035
B016/B054

the polished surface. Subsequently, the samples were deformed by compression by 10-16% (Fig. 4) and by 45-70% (Fig. 2). Figs. 1-8 show the autoradiogram (a) on the left, and the microstructure (b) on the right on microphotographs. During exposure the samples were protected by a film 1 μ thick (1% of Zapon varnish in the solvent PДВ (RDV)). To produce the autoradiograms, the samples were exposed for several days on photographic plates or films НИКФИ (NIKFI), type МР (MR). The autoradiograms were compared with the microstructure pictures which had been taken by a microscope of the type МИМ-8 (MIM-8). Next, the recrystallization annealing was carried out (Figs. 3, 5-8). A Table on p. 1113 gives the hardness and the methods of treatment for some samples. On the basis of their methods, the authors succeeded in observing the behavior of grain boundaries during plastic deformation and subsequent recrystallization. It was proved that iron recrystallization at relatively low (15%) and high (50-70%) degrees of deformation causes no essential change in the position of atoms laying at the boundary of deformed grains. With a considerable structural change of the metal after a double recrystallization, as well as

Card 2/3

85379

Study of the Process of Iron
Recrystallization by the Method of
Radioactive Isotopes

S/032/60/026/010/007/035
B016/B054

after polymorphous $\alpha \rightarrow \gamma$ transformation, the atoms at the boundaries of the initial bodies are not displaced. In contrast with recrystallization, plastic deformation is accompanied by a considerable displacement of atoms. The results prove that the displacement of grain boundaries during recrystallization and the subsequent growth of grains is connected with a specific mechanism which differs from the ordinary diffusion mechanism. There are 8 figures, 1 table, and 15 references: 4 Soviet, 1 US, 1 Dutch, 1 French, and 4 German.

Card 3/3

S/129/61/000/001/002/013
E111/E135

AUTHORS: Bokshteyn, S.Z., Doctor of Technical Sciences, Professor;
 Gubareva, M.A., Engineer; Kontorovich, I.Ye., Doctor
 of Technical Sciences; and Moroz, L.M., Candidate of
 Technical Sciences

TITLE: Peculiarities of the Diffusion of Carbon in Iron

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov,
 1961, No. 1, pp. 10-14 (+ 1 plate)

TEXT: Work by two of the authors (Refs 1-4) and by others
(e.g. Refs 2, 3) has shown that diffusion is often non-uniform.
This effect could be associated with difference in the activation
energy of diffusion (Refs 8-10). In this present work the authors
studied diffusion of carbon in technical purity iron (0.03% C) and
iron alloys with 0.03% C and 0.14, 0.64 or 2.93% Si. Some alloys
also contained a third component: 4.56 or 30% Ni, 0.36 or 1.61% Al,
0.88, 3.77 or 14.13% Cr, 0.21 or 3% Mo, 1.19 or 4.97% W, 0.1 or
2.29% Ti. This enabled the influence of carbide-forming and non-
forming elements to be compared. Prismatic specimens 20 mm high
and with a 10 mm base were used. C¹⁴ was deposited on the surface

Card 1/5

S/129/61/000/001/002/013
E111/E135

Peculiarities of the Diffusion of Carbon in Iron

from barium carbonate or from special specimens containing this isotope. The first technique was used for studies in the gamma, the second in the alpha states. Auto-radiographs were obtained on type $\text{HMK}\Phi\text{M}$ (NJKFI) plates, contact prints being examined micro-photometrically with a type $\text{M}\Phi\text{-4}$ (MF-4) instrument. The diffusion coefficient was calculated by the method of Bokshiteyn et al (Ref.11). Microstructural analysis was also carried out. Autoradiographs and microstructures for iron at 950 °C are shown in Fig.1a and b. Autoradiographs at 550 °C for alpha iron (unalloyed and with 0.64% Si, top and bottom, respectively) are shown in Fig.2a and b. Fig.5 shows plots of darkening against depth of diffusion of carbon in the grains (top curve) and along boundaries (bottom curve in each of the two diagrams), for ferrite (550 °C). The influence of concentration of the different alloying elements on depth of diffusion (mm) in iron at 950 °C is shown in Fig.6.

Card 2/ 5

S/129/61/000/001/002/013
E111/E135

Peculiarities of the Diffusion of Carbon in Iron

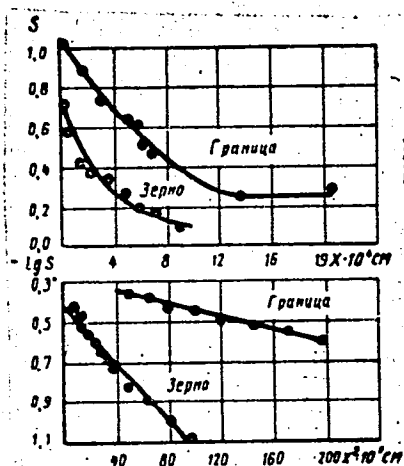


Fig. 5

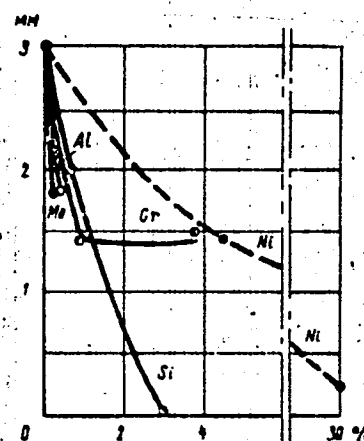


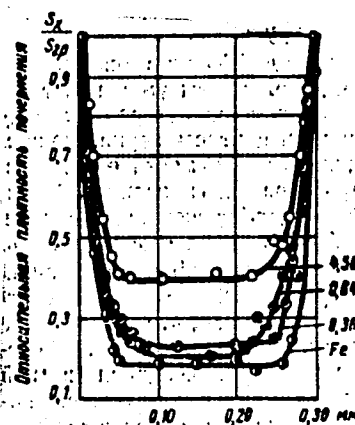
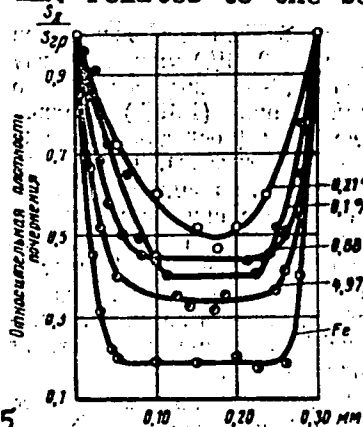
Fig. 6

Card 3/5

S/129/61/000/001/002/013
E111/E135

Peculiarities of the Diffusion of Carbon in Iron

Fig.7 shows relative darkening with respect to distance into ferrite grain for carbide forming (left-hand graph) and non-forming (right-hand graph) alloying elements. The left and right ends of the plots relate to the grain boundaries; the remaining space, corresponding to 0.30 mm, relates to the body of the grain.



Card 4/5

Fig.7

S/129/61/000/001/002/013
E111/E135

Peculiarities of the Diffusion of Carbon in Iron

The work shows that carbon diffusion in both alpha- and gamma-iron occurs unevenly, the grain boundaries and adjacent alpha solid-solution regions becoming enriched with carbon. The diffusion coefficient for grain boundaries is 3-4 orders higher than for inside grains. Alloying modifies both rate of diffusion and distribution of carbon within the grain; depending on the effect of the element on the gamma region. Alloying reduces the carbon-concentration drop between the boundary and the body of the ferrite grain.

There are 7 figures and 11 references: 7 Soviet and 4 non-Soviet. ✓

Card 5/5

BORK, A.Kh.; GUBAREVA, M.A.; CHERNOBAYEVA, N.N.

Reagent method of cleaning incrustations from pipes and pumps.

Vod. i san. tekhn. no. 8:26-28 Ag. '61.

(MIRA 14:9)

(Pipes, Deposits in)

(Pumping machinery--Cleaning)

ACCESSION NR: AT4040412

S/0000/64/000/000/0095/0098

AUTHOR: Gubareva, M. A.

TITLE: Investigation of conditions at the grain boundaries during recrystallization of nickel

SOURCE: Protsessy* diffuzii, struktura i svoystva metallov (Diffusion processes, structure and properties of metals); sbornik statey. Moscow, Izd-vo Mashinostroyeniye, 1964, 95-98

TOPIC TAGS: nickel, nickel recrystallization, grain boundary, autoradiographic structure, structure, microstructure, diffusion annealing, compressive deformation

ABSTRACT: Studies were carried out on nickel of commercial purity containing 99.7% Ni, 0.1% Co, 0.04% Fe, 0.06% Cu, 0.062% Si, 0.04% C, and 0.005% S. In order to obtain a homogeneous structure and coarser grains, nickel bars were annealed at 1100C for 1 hour. Test specimens 10x10x20 mm were then cut from the annealed bars. To remove the strain-hardened layer after cutting, the specimens were electrolytically polished. Afterwards, the polished surface was electroplated with a layer of radioactive nickel, 1 micron thick. Diffusion annealing was then performed in a vacuum furnace at 800 C. In the process of diffusion annealing, the radioactive nickel located itself along the grain boundaries, making possible visualization of

Card 1/2