

Balenovic, K.; Jambresic, I...

residue heated briefly at 60° with 30 ml. 5% HCl, the cooled soln. filtered from 1.23 g. phthalhydrazide, and the filtrate evapd. *in vacuo* yielding 2.01 g. crude *S*-benzyl-L- β -homocysteine-HCl, $[\alpha]_D^{25} -36^\circ$ (in *N* HCl). The salt was taken up in 800 ml. H₂O, the soln. filtered at 300 ml. per hr. through a 30 cm. (2 cm. diam.) Amberlite IR-4B column, the column washed with 300 ml. H₂O, the combined eluates evapd. *in vacuo* yielding 1.04 g. product, crystd. twice from 1:2 aq. alc. to give *S*-benzyl-L- β -homocysteine (V), m. 173° (decomp.), $[\alpha]_D^{25} -57 \pm 2^\circ$ (c 1.19, *N* HCl), violet spot at *R_f* 0.58 (paper chromatogram with 10:3:9 BuOH-AcOH-H₂O at 10°), whereas *S*-benzyl-L-cysteine has *R_f* 0.51 under the same conditions. V (1.8 g.) in 60 ml. liquid NH₃ was treated with a slight excess of Na (0.40 g.) (cf. du Vigneaud and Patterson, *C.A.* 29, 4332³) to permanent blue coloration, 0.3 g. NH₄Cl added and the NH₃ evapd. spontaneously, the residue taken up in 20 ml. H₂O, 0.1 g. FeCl₂·6H₂O added, air passed through to neg. nitroprusside test for SH and filtered from Fe(OH)₂. The clear filtrate was neutralized to litmus with HCl, evapd. and the residue (3.6 g.) taken up in 1000 ml. H₂O, filtered at 300 ml. per hr. through a 70-cm. (2.2-cm. diam.) column of Amberlite IR-100 (II form, 50-50 mesh) and washed with 700 ml. H₂O to neg. Cl⁻ reaction. The column was eluted with 1600-ml. portions 1% aq. pyridine, the 1st 5 fractions yielding 0.5 g. crude β -homocystine, $[\alpha]_D^{25} -295^\circ$ (2*N* HCl). The crude was recrystd. from 1:3 aq. EtOH and 30 ml. EtOH was added to the mother liquors producing I, m. 183° (decomp.), $[\alpha]_D^{25} -265 \pm 2^\circ$ (c 1.16, H₂O), $[\alpha]_D^{25} -156 \pm 3^\circ$ (c 0.5, 2*N* NaOH), *R_f* 0.48 (PhOH-H₂O at 10°, ninhydrin developer). I (0.4 g.) in 5 ml. H₂O was stirred 16 hrs. at room temp. with 0.8 g. NaHCO₃ and 4 ml. *M* 2,4-(O₂N)₂C₆H₃F (cf. Porter and Sanger, *C.A.* 42, 5923³), the mixt. extd. with Et₂O, the remaining aq. layer acidified with concd. HCl, the supd.

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Balerovic, K.; Jambrić, I...

crude taken up in 1 ml. Me₂CO and treated with 3 ml. EtOH, the mixt. filtered and cooled to 0°, and the ppt. washed with cold KOH, yielding *N,N'*-bis(dinitrophenyl)- β -homocystine, m. 191-2° (decompn.). The higher rotatory power of I in comparison to that of cystine, [α]_D -214°, its extreme soly. in H₂O and weak tendency to crystn. support Fregda's proposition (F. and Puttersson, *C.A.* 46, 8085) that the vicinity of the S-S bond to the center of asymmetry is responsible for the high rotatory power of cystine. Since the value of specific rotation in the visible is largely detd. by electronic transitions associated with absorption bands in the near violet; weak absorption bands in this region are especially significant. Cyclic or acyclic S-S compds. have weak absorption bands with max. 2500-3500 Å. (ϵ 200-400). Cystine has an inflection at 2400 Å. (ϵ 300, 0.1N acid) and 2490 Å. (ϵ 340, 0.1 alkali), whereas cystine and methionine show negligible absorption above 2500 Å. C. R. A.

3/3

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GASPERT, B

YUGOSLAVIA/Organic Chemistry - Naturally Occuring Substances
and Their Synthetic Analogs

E-3

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 443

Author : Balenovic, K., Bregant, N., Gaspart, B., Jambresic, I.,
Tomasic, V.

Title : Some Derivatives of L-Cysteine Aldehyde. An Improved
Preparation of S-Benzyl-N-Phthaloyl-L-Cysteine. Amino
Acids. XXXI.

Orig Pub : Arhiv kemijski, 1955, 27, No 4, 207-210

Abstract : A method has been worked out for the preparation of opti-
cally active S-benzyl-N-phthaloyl-L-cystein (I), which
has been converted into S-benzyl-N-phthaloyl-L-cystineal-
dehyde (II); a number of derivatives of II have been
prepared. Mixture of finely comminuted S-benzyl-L-cys-
tein (3.033 mole, $[\alpha]_D^{20} + 28^\circ$) and phthalic anhydride
(0.035 mole) heated (bath temperature 130-135°) while
stirring, for 30 minutes, dissolved in C_6H_6 and from

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YUGOSLAVIA/Organic Chemistry - Naturally Occuring Substances
and Their Synthetic Analogs

E-3

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4563

filtrate I is precipitated with petroleum ether, total yield 90%, MP 108°, $[\alpha]_D^{25} -167 \pm 0.1^\circ$ (c 0.56; CH₂OH). From I of $[\alpha]_D -150^\circ$ was prepared the acid chloride, $[\alpha]_D^{16} -136^\circ$ (c 1.44; benzene), which by reduction over 5% Pd/BaSO₄, 10 hours at 120-125° (bath temperature) was converted to II, yield 97%, $[\alpha]_D^{17} -103^\circ$ (c 1.2; benzene). By boiling for 5 hours 0.01 mole II ($[\alpha]_D -102^\circ$), 2.5 ml ethylene glycol and 0.1 g p-toluene sulfonic acid in 150 ml C₆H₆ and evaporating the reaction mixture, was obtained ethylene acetal of II, yield 97%, after chromatography on Al₂O₃, MP 95-97° (from CH₂Cl₂ + petroleum ether),

$[\alpha]_D^{12} -78 \pm 0.5^\circ$ (c 2.3; benzene). By boiling of ethylene acetal of II with hydrazine hydrate in alcohol (3 hours) was obtained ethylene acetal-S benzyl-L-cystein,

Card 2/3

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YUGOSLAVIA/Organic Chemistry - Naturally Occuring Substances
and Their Synthetic Analogs

E-3

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4563

BP 105-110°/0.01 mm, $[\alpha]_D^{16} -54^\circ$ (c 1.07; 0.1 N HCl); picrate, MP 183-184° (from ethyl acetate - petroleum ether). By reacting 0.08 mole II ($[\alpha]_D -101^\circ$) in 50 ml pyridine with 0.015 mole malonic acid (8 hours at 45-50°), acidifying the solution with 10% solution of H₂SO₄, and extracting with ether was obtained racemic 5-benzylthio-4-phthalimido-pentene-2-ic acid, yield 92%, after chromatography on Al₂O₃ MP 141-142° (from CH₂Cl₂-petroleum ether).

Card 3/3

- 121 -

GASPERT, B.; STEFANAC, Zlata; MARUSIC, R.; BALENOVIC, Kresimir

Optically active trisulphides and tetrasulfides related to L cystine.
Croat chem acta 32 no.2:85-90 '60. (EEAI 10:4)

1. Chemical Laboratory, Faculty of Science, University of Zagreb,
Strossmayerov trg 14, Zagreb, Croatia, Yugoslavia. 2. Redakcioni
odbor (Committee of Publication), Croatica Chemica Acta, member of the
Committee (for Stefanac and Balenovic)
(Sulfides) (Cystine) (Optically active compounds)

GASPERT, B.; SKARIC, V.

Hydropyrimidines. Pt.1. Croat chem acta 35 no.3:171-174 '63.

1. Institute "Ruder Boskovic", Zagreb, Croatia, Yugoslavia.
2. Member of the Editorial Board, "Croatica Chemica Acta"
(for Skaric).

ABASHIDZE, Irakliy Vissarionovich; GASS, B. [translator];
ZAVERIN, M. [translator]; MACHAVARIANI, V., red.

[Palestine diary. Translated from the Georgian] Palestinskii dnevnik. Tbilisi, Izd-vo Soiuza pisatelei Gruzii "Zaria Vostoka," 1962. 62 p. (MIRA 18:4)

BERG, S.L., polkovnik; VOROB'YEV, V.I., kapitan pervogo ranga; GIL'EO, G.M., kapitan pervogo ranga; ANANCHENKO, A.A.; BALAKSHINA, K.M.; BANNIKOV, B.S., kapitan vtorogo ranga; BAKHTINA, G.F.; BEREZHTAM, N.V.; BUTYRINA, N.Ya.; VOROB'YEV, V.I., kapitan pervogo ranga; GASS, I.P.; GINBYSH, N.S.; GLADIN, D.F., polkovnik; GOLOVANOVA, L.G., kand. ist. nauk; GOLUBEVA, Z.D., kand. filol. nauk; GONCHAROVA, A.I.; ZANADVOROVA, R.N.; IVANOVA, N.G.; KARANZIN, G.B.; KOVAL'CHUK, A.S.; KRONIDOVA, V.A.; LITOVA, Ye.I.; MOLCHANOVA, T.I.; OKUN', L.S.; POCHEBUT, A.N.; RAYTSES, V.I.; SAVINOVA, G.N.; SENICHKINA, T.I.; SKRYNNIKOV, R.G., kand. ist. nauk; FURAYEVA, I.I.; CHIZHOVA, N.N.; YASINSKAYA, L.F.; GLADIN, D.F., polkovnik; LABETSKIY, Ye.F., pod-polkovnik; LEBEDEV, S.M., kapitan pervogo ranga; ORDYNSKIY, N.I., kapitan pervogo ranga; NADVODSKIY, V.Ye., podpolkovnik; DEMIN, L.A., inzh.-kontr-admiral, glav. red.; FRUMKIN, N.S., polkovnik, zam. otv. red.; LEVCHENKO, G.I., admiral, red.; BAKHTINA, G.F., tekhn. red.

[Naval atlas] Morskoi atlas. n.p. Izd. Glavnogo Shtaba Voenno-Morskogo Flota. Vol.3. [Naval history] Voenno-istoricheskii. Pt.1. [Text for the maps] Opisaniia k kartam. 1959. xxii, 1942 p. (MIRA 15:5)

1. Russia (1923- U.S.S.R.) Ministerstvo oborony. (Naval history)

S/759/62/000/004/005/016
D207/D308

AUTHOR: Gass, V. F.

TITLE: Injector-buncher for a linear electron accelerator

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli,
no. 4, 1962, 29-39

TEXT: A description is given of a new type of injector-buncher for travelling-wave linear electron accelerators (orthotrons). A cylindrical resonator contains a tungsten-point electrode (wire of grade BA-5 (VA-5)) which is etched and heated close to its melting point in order to obtain monocrystalline structure at the tip (radiused to 1 - 2.5 μ). Microwave (3000 Mc/s 40 kW) pulses produce strong field emission from the tungsten tip; the emission current is 120 μ A, equivalent to 5×10^7 A/cm². Electrons are emitted only during a small portion of the microwave pulse because the field emission current depends strongly on the applied voltage. The electrons are thus bunched automatically. The electrons in front of the bunch are made to move more slowly than those at the back,

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Injector-buncher for ...

S/759/62/000/004/005/016
D207/D308

by passing the pulsed beam through a second resonator to which a suitably phased microwave voltage is applied. Radial spread is prevented by grids placed across the apertures of the two resonators. Stability and long service life of the tungsten electrode are ensured by 'flashing' it at 2040°K to remove the adsorbed gases and by using it in high vacuum. However, even at 10^{-5} mm Hg the working life of the electrode is many hours. The advantages of the field-emission injector-buncher compared with the usual klystron or waveguide bunchers are: (1) production, acceleration and bunching of electrons in one operation; (2) absence of a high-voltage supply; (3) small size and simple construction; (4) low power needed for electrode heating (10 - 20 W). There are 13 figures.

Card 2/2

ACCESSION NR: AT4019721

S/2759/63/000/005/0045/0054

AUTHOR: Gass, V. F.

TITLE: Approximate calculation of electron dynamics in an injector-buncher

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli (Accelerators), no. 5, 1963, 45-54

TOPIC TAGS: buncher, injector-buncher, electron dynamics, resonator, cathode, cold-cathode field emission cathode, cold-cathode current, electron motion, bunching

ABSTRACT: The injector-buncher (considered in an earlier paper) consists of two cylindrical resonators located side-by-side (see Fig. 1 of the Enclosure). Oscillations of type E_{010} are excited in the resonators. A cold-cathode (field-emission cathode) is located in the first resonator. A sharp pulse of current occurs during one complete cycle of the high-frequency oscillation. Fig. 2 of the Enclosure shows the nature of the cold-cathode current under a sinusoidal voltage. The paper proves that by using certain assumptions during the solution of the equations of motion of the electrons in the resonators, a qualitative and quantitative study can be made of the bunching properties of

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ACCESSION NR: AT4019721

the device without actual recourse to the numerical integration of the equations of motion. Only longitudinal electron motion is considered and the space charge is not taken into account. In many practical cases the space charge and the radial motion do not essentially alter the final result and only complicate the problem. An approximate integration of the equations of electron motion in the first resonator is carried out. The bunching characteristics in the second resonator are obtained. Orig. art. has: 27 formulas and 5 figures.

ASSOCIATION: Inzhenerno-fizicheskiy institut, Moscow (Engineering-Physics Institute)

SUBMITTED: 00

DATE ACQ: 19Mar64

ENCL: 01

SUB CODE: NP

NO REF SOV: 003

OTHER: 000

Card 2/3

ACCESSION NR: AT4019721

ENCLOSURE: 01

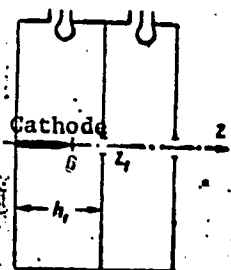


Fig. 1. Diagram of an injector-buncher

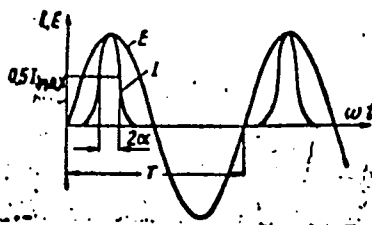


Fig. 2. Nature of the cold-cathode current under a sinusoidal voltage.

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L 22485-65 EWT(m) AS(mp)-2/ESD(gs)/DIAAP

ACCESSION NR: AT5001495

S/2759/64/000/006/0043/0050

AUTHOR: Bayev, V. K.; Gass, V. F.

TITLE: Dynamics of particles in a cylindrical cavity operating at the E_{010} mode

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli, no. 6, 1964, 43-50

TOPIC TAGS: electron bunching, electron acceleration, electron dynamics, cylindrical cavity, electron beam acceleration

ABSTRACT: The authors calculate the dynamics of longitudinal particle motion in a round cylindrical cavity operating in the E_{010} mode, using a combination of analytic and graphical methods. The electron kinetic energy is determined analytically as a first integral of electron motion, and families of curves are plotted with which to determine the phase-energy relations and the energy spectrum of the electron beam at the output of single cavities and of several cavities in cascade, as functions of the cavity length, the field intensity, and the frequency of the electromagnetic field. A numerical example illustrating the application of the method shows that a monoenergetic electron bunch with phase dimension of 110° .

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L 22485-65

ACCESSION NR: AT5001495

can be accelerated with the aid of a system of three cavities from 50 keV to 1 MeV, thereby reducing its phase dimension to less than 10^0 and retaining its monoenergetic character. Orig. art. has: 9 figures and 4 formulas.

ASSOCIATION: Inzhenerno-fizicheskiy institut, Moscow (Engineering-Physics Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: EC, NP

NR REF SOV: 001

OTHER: 005

Card 2/2

GASS, V.F.

Experimental measurement of the output parameters of an injector-buncher. Uskoriteli no.6:51-55 '64.

Measurement of the phase length of an electron cluster formed in an injector-buncher. Ibid.:56-61

(MIRA 18:2)

L 06548-67 EWT(m)/EWP(e)/EWP(t)/ETI IJP(c) AT/WH/DS/WB/JD/JG
ACC NR: AT6017511 (N) SOURCE CODE: UR/2759/65/000/007/0083/0085

AUTHOR: Gass, V. F.

ORG: none

TITLE: Lanthanum hexaborate (LaB₆) and zirconium carbide cathodes for an injector-buncher

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli, no. 7, 1965, 83-85

TOPIC TAGS: particle accelerator component, electrode, vacuum research

ABSTRACT: ZrC cathode spikes with points having $\sim 1\mu$ radius were made by the electroforming process in a 4% NaF solution. LaB₆ cathodes were formed in an H₃PO₄ electrolyte. The properties of these new cathodes were tested under varying current, temperature and vacuum conditions. The results are graphed and relative advantages of the two types are compared. Orig. art. has: 3 figures.

SUB CODE: 20,09,11/ SUBM DATE: none/ ORIG REF: 004

Card 1/1 m/s

L 24204-65 EWT(1)/EWG(k)/EWT(m)/EPA(sp)-2/EPF(n)-2/EWA(d)/EPA(w)-2/T/EWA/
EWP(t)/EWP(k)/EWP(b) Pz-6/Pab-10/Pu-4 IJP(c) RHW/MJW/JD/JG/AT

ACCESSION NR: AP5002917

S/0109/65/010/001/0203/0205

AUTHOR: Gass, V. F.

TITLE: Using a tungsten cold cathode in a shf field B.

SOURCE: Radiotekhnika i elektronika, v. 10, no. 1, 1965, 203-205

TOPIC TAGS: electron injector, buncher, cold cathode

ABSTRACT: The operation of cold cathodes made from ¹⁶VA-5 ¹⁷tungsten wire in an injector-buncher having a loaded Q-factor of about 1000 at 2860 Mc is briefly described. The wire points had a radius of curvature of 1.5-2 μ and were prefired at a near-melt temperature for 40-60 min. Occluded-gas elimination was made at 1000 - 1500C and (2-4) x 10⁻⁸ torr. A field-emission current appeared when a pulse power of 5-10 kw was applied to the first resonator. The current was about 90-120 μ amp when the pulse power was raised to 25-30 kw (pulse current, 80-110 μ amp). At 100 μ amp, the point current density was

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L 24204-65

ACCESSION NR: AP5002917

about 8×10^7 amp/cm², apparently a possible maximum. The electron energy (under 100 kev), phase size of the electron cluster ($8 \pm 3^\circ$ at 80-100 kev), and stability were also measured. Of the 20 points, some operated as long as 20 hr and were still good, while others were ruined during the first hour of work. Orig. art. has: 1 figure and 1 formula. [03]

ASSOCIATION: none

SUBMITTED: 03Feb64

ENCL: 00

SUB CODE: EC

NO REF SOV: 005

OTHER: 000

ATD PRESS: 3177

Card 2/2

GASSAN, A.

"Budgetary receipts from the income of organizations of the Office
of Grain Procurements" by L.Levitskii. Reviewed by A.Gassan. Fin.
SSSR 18 no.3:90-92 Mr '57. (MLRA 10:5)
(Grain trade) (Internal revenue) (L.Levitskii)

GASSAN, P. A.

Application of silting as a measure against filtration in the construction of the Dnieper irrigation system. *Gidr. i mel.*, 4, No 2, 1952.

GASSAN, T. A., Eng.; HUNTON, M. E.

Soil Mechanics

Experience in alkalinization of soils as a measure against filtration from water reservoirs. Gidr. i mel. 5, No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

GASSAN, Yu.P.

Retroperitoneal teratoma in a child. Vop.onk. 6 no.2:93-95 F '60.

(MIRA 14:2)

(RETROPERITONEAL SPACE—TUMORS)

ZVEREV, A.F., prof.; GASSAN, Yu.P.

Polycystic kidneys in children. Urologia no.6:58-60 '60.
(MIRA 15:5)

1. Iz kafedry detskoy khirurgii (zav. - prof. A.F. Zverev)
Sverdlovskogo gosudarstvennogo meditsinskogo instituta.
(KIDNEYS--DISEASES)

GASSANOVA, I.G.; SOKOLOVA, L.I.

Stratigraphy and lithology of Devonian sediments in the
Volga Valley portion of Stalingrad Province. Trudy
VNIGNI no. 19:47-65 '59. (MIRA 13:12)
(Stalingrad Province--Geology, Stratigraphic)

FILIPPOVA, M.F., kand.geol.-mineral.nauk; ARONOVA, S.M.; GASSAROVA, I.G.

Distribution of silt and arenaceous sediments in the Jivet and Frasnian stages of the Devonian in the Volga-Ural region. Trudy VNIGNI no.22:155-168 '59. (MIRA 13:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy i neftyanoy institut.

(Volga-Ural region--Silt)

(Volga-Ural region--Sandstone)

GASSANOVA, I.G., kurator; YELINA, L.M.; IL'INA, N.S.; KARASEV, M.S.;
PEDASHENKO, A.I. [deceased]; FILIPPOVA, M.F. KHOKHLOV, P.S.

Kikino key well. Trudy VNIGNI no.26:227-307 '60. (MIRA 14:1)
(Russian Platform--Petroleum geology)

ARONOVA, S.M.; GASSANOVA, I.G.; KALEDA, G.A.; LOTSMAN, O.A.; MAKAROVA, T.V.;
NECHITAYLO, S.K.; RYZHOVA, A.A.; SOKOLOVA, L.I.

Mariia Filippovna Filippova, 1907-1964; obituary. Lit. i pol.
iskop. no.6:181-182 N-D '64. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy
neftyanoy institut (Moskva, Ye-257, zhosse Entuziastov, d.124).

GASSANOVA, N.

USSR/Human and Animal Physiology - Neuro-Muscular Physiology. V-11

Abs Jour : Ref Zhur - Biol., No 1, 1958, 4363

Author : K. Gassanova

Inst : Central Institute of Prosthetology

Title : Functional Characteristics of Muscles after Amputation and under the Influence of Prosthesis.

Orig Pub : In: 5-ya nauchn. sessiya Tsentr. i.-n. in-ta protyezir. i protyezostroyeniya, M., 1956, 84-88

Abstract : After amputation and before prosthesis, the muscular function was decreased not only in the anatomically injured muscles, but also in other femoral and pelvic muscles. Muscular atrophy was moderate and equal on the stump and on the hip. After prosthesis, the electrical activity of the muscles was greater than before prosthesis.

Card 1/2

USSR/Human and Animal Physiology - Neuro-Muscular Physiology.

V-11

Abs Jour : Ref Zhur Biol., No 1, 1958, 4363

This suggests that the functional changes are reversible in the muscles of the amputated leg. Changes brought about by the inactivity of the leg were reversed after prosthesis.

Card 2/2

BELOV, V.M.; GASSEL, K.N.; KOGAN, M.S.

Critical rate of filling the mold with steel in die casting.
Lit. proizv. 5:11-13 My '64. (MIRA 18:3)

GASSEL'BAKH, A.A.

Feeders for kilns operated by the dry method of production.
TSement 31 no.2:16 Mr-Ap 65. (MIA 1F:8)

1. Katav-Ivanovskiy tsementnyy zavod.

GASSEN, D. D.

Author: Gassen, D.D.

Title: Outline of the History of the Production of Salt. by H.E. Peck

Date: 1952.

Subject: Salt. Etymology

Available: Library of Congress, Call No: FD305.544

Source: H.R. of Cong. Comm. 604, Apr. Jun. 1952

GASSER, K.

GASSER, K. The role of technical representative of the Technology and Rationalization Club in a branch office of the State Lumber Center. p. 11.

Vol. 29, no. 10, Oct. 1955

LAS POLSKI

AGRICULTURE

Poland

So: East European Accession, Vol. 6, No. 5, May 1957

GASSIYEV, U.I.

Along strike movable shield supports for longwalls in steeply dipping seams mined with cutter loaders. Ugol' Ukr. 6 no.6:28-29
Je '62. (MIRA 15:7)

1. Glavnyy inzhener shakhty No.19/20 tresta Gorlovskugol'.
(Mine timbering)

SA

PROCESSES AND PROPERTIES INDEX

534.84
 FARTAKOVSKI AND R. E. GANNON. *Izv. Akad. Nauk. SSSR, Ser. Fiz.*, 13 (No. 6) 634-61 (1969) in Russian. Discussion of advantages of the distributed over the centralized loudspeaker systems. W. W. ORNA

AS4-SLA METALLURGICAL LITERATURE CLASSIFICATION

Section	Section	Section	Section
1	2	3	4
5	6	7	8
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85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

ACC NR: AT7001360

11

AUTHOR: Kherbst, Kh.; Gassman, S.

SOURCE CODE: UR/0000/65/000/000/0471/0483

ORG: None

TITLE: Modern fish search and net control devices and technical developmental prospects

SOURCE: Nauchno-tekhnicheskaya konferentsiya po razvitiyu flota rybnoy promyshlennosti stran-chelenov SEV. 2d, Leningrad, 1964. Rybolovnyy flot (Fishing fleet); sbornik trudov konferentsii, v. 1, Leningrad, Izd-vo Sudostroyeniye, 1965, 471-483

TOPIC TAGS: sonar equipment, marine equipment, detection equipment, recording equipment, electronic equipment, underwater sound equipment, food, fishing ship

ABSTRACT: Efforts of the electronic industry in the German Democratic Republic to accommodate its shipbuilding industry with the equipment needed aboard its fishing vessels are described. Technical data for the HAG 400 and HAG 401 sonar, used for horizontal and vertical fish detection purposes, are tabulated, and information as to numbers of such equipments used in GDR-built fishing vessels and exported is provided. The manufacture of recorder type fathometers in the "Koepenick" Radio Plant in Berlin, is discussed, as is the latest equipment, the HAG 250, a recording fathometer with a wired, seine probe attachment. Equipment arrangements and combinations for specific purposes in fishing vessels, are listed and described. The

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M GASSNER, F

13 TS

(SEMI-CONTINUOUS) CASTING MACHINE FOR THE MULTIPLE CASTING OF WIRE-BARS AND RODS. W. Helling and F. Gassner (Metall, 1949, 3, (21/22), 367-373; (23/24), 418-421).---The design, operation, and results obtained from a continuous-casting machine, for the multiple-casting of wire bars and rods, are illustrated and described in detail. The machine has two casting pits,

each with a hydraulic table, whose rate of lowering, controlled by a variable-output, rotary, piston pump, can be varied between 0.3 and 9 mm. sec., with an accuracy of ± 0.02 mm./sec. irrespective of the load. When casting wire-bars 50 mm. square or rods 50 mm. dia., 4 dies are mounted in line on each table. The alloy is melted in an 8-ton, tip-axis, electric resistance furnace, from which it is poured, via a swivelling, electrically preheated, refractory-lined, cast-iron, T-shaped launder and distributor, adjustable for slope and height so that the spouts of the distributor can be kept below the top of the dies. The spouts have graphite inserts, and the flow of metal from each spout to each die is controlled by manually-operated needle valves consisting of cast-iron rods with sintered alumina tips. Details are given of the rate of lowering of the tables, the times of pouring, the electrical energy and labour requirements, the micro- and macro- and surface structures, and the mechanical properties of the material produced, when casting various sizes of bars and rods of pure aluminium, and aluminium silicon copper nickel and aluminium copper-magnesium alloys. The machine makes the continuous casting of small sizes a comparatively quick, labour-saving proposition. --E. N.

Sept. 1950

GASSOKH, A.

BAKUNTS, V.S., inzhener; BAKINOVSKIY, K.L., inzhener; ALEKSEYENKO, S.A.;
PRYAKHIN, inzhener; PILILYAN, D.G. (Krasnodar); TEREKHOV, P.A., inzhener;
KLEYN, R.N., inzhener (Leningrad); GASSOKH, A., inzhener; GUSEV, T;
ALEKSANDROV, elektromonter (Omskaya oblast'); SAVIN, I.A., inzhener;
KOLOMEYETS, I. (Omskaya oblast').

Arranging and insulating the ground wire of aerial lines. Energetik 1 no.6:
32-35 N '53. (MIRA 6:11)

1. Zakavkaztsvetmetstroy, g. Yerevan (for Bakunts).
2. Belenergostroy, g. Minsk (for Bakinovskiy).
3. Stalinskaya zheleznaya doroga, g. Zaporozh'ye (for Alekseyenko).
4. Sel'elektro, g. Sumy (for Terekhov).
5. Glavsel'-elektro, Komi ASSR (for Gassokh).
6. Gorelektroset', g. Shcherbakov (for Gusev).
7. Gorodskaya elektrostantsiya, g. Valuyki (for Aleksandrov).
8. Oblsel'khozproyekt, g. Pskov (for Savin).

(Electric lines--Overhead)

BALABAYEV, V.A., inzh.; GASSOKH, A.O., inzh.; SHUBAYEV, H.N., inzh.

Parallel operation of SGT generators. Mekh. i elek.sots.sel'-
khoz. no.4:42-44 '57. (MIRA 12:4)
(Electric generators)

GASSOVSKIY, G.N. [Hasovs'kyi, H.M.]

Practical significance of infusorians and the history of their study
in the Ukraine. Zbir. prats' Zool. muz. AN URSR no. 29:58-90 '60.

(MIRA 14:4)

(Ukraine--Infusoria)

GASSOVSKIY, G.N.

Change of functions and physiological substitution in the evolution
of free swimming vorticellae. Zool. zhur. 39 no.9:1423-1424 S '60.
(MIRA 13:9)

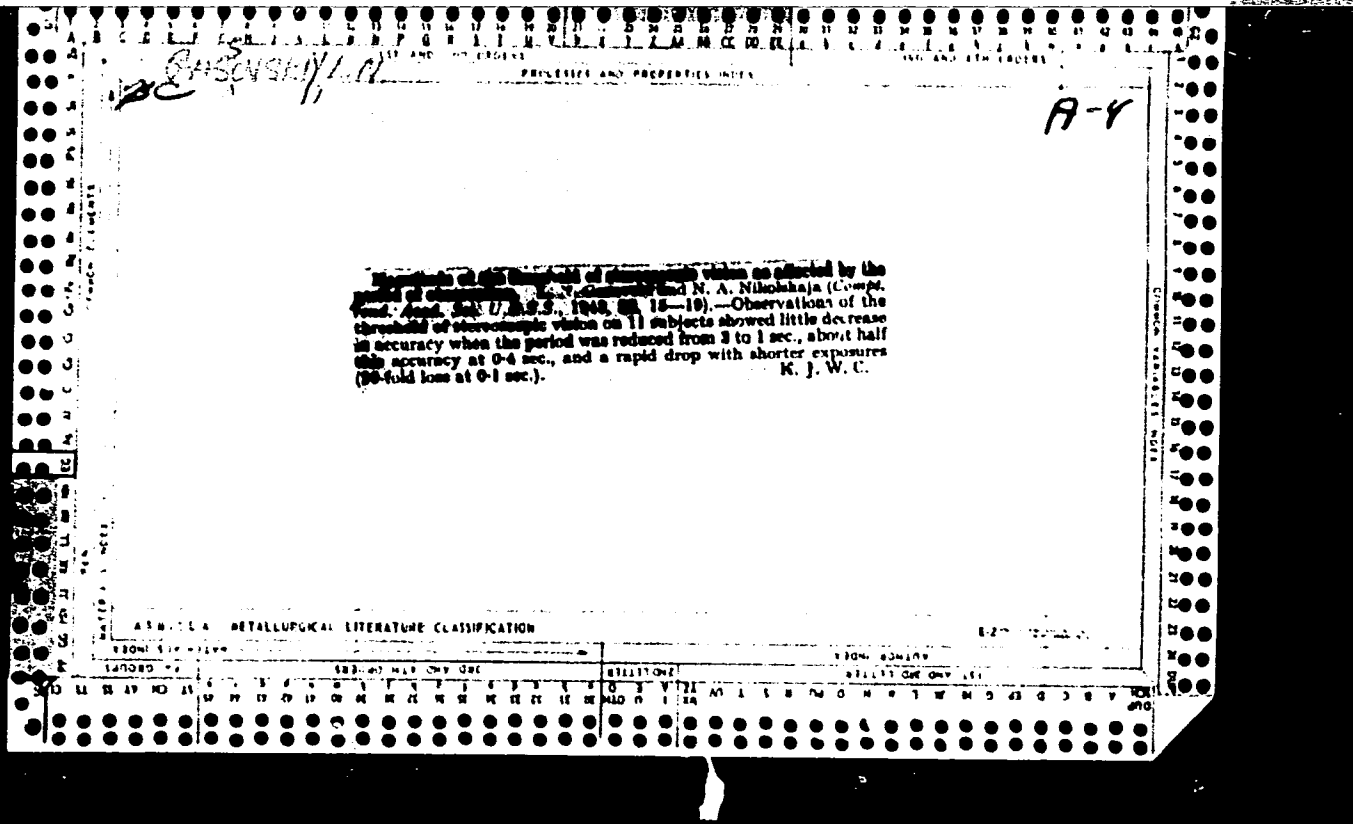
1. Chair of Zoology, Cherkassky Pedagogical Institute.
(Infusoria) (Evolution)

GASCOVSKIY, L. N. and NIKOLSKAYA,

"Sensibility to Light of the Feripheral Centers of the Retina", Sovietski
Vestnik Oftalmologii, Vol. 9, 1936. 2nd ed.

GASSOVSKIY, L.N.

"Luminous and Color Sensibility of the Peripheral Centers of the Retina. Report to the First Session of the Helmholtz Institute of Scientific and Clinical Research, 1937.



GASSOVSKIY, L.N.

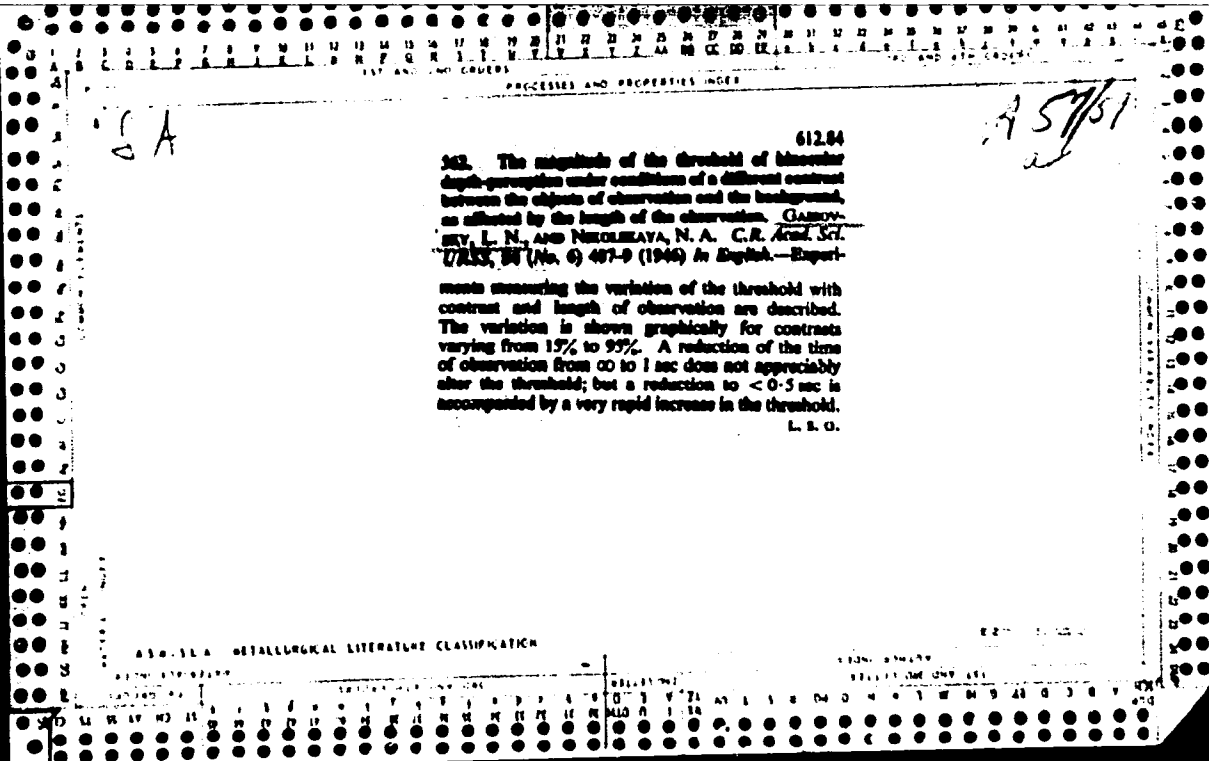
Miscellaneous

1102 MAGNITUDE OF THE THRESHOLD OF STEREOSCOPIC
VISION AS AFFECTED BY THE PERIOD OF OBSERVA-
TION. -Gassovsky & Nikol'skaya. (*Comptes Rendus*
(*Doklady*) *de l'Acad. des Sci. de l'URSS*, 10th Jan.
1943, Vol. 38, No. 1, pp. 15-19; in English)

GLAZOVSKI, L. N.

basic information about the work of the eye by L. N. Glazovskiy.

An article found in "Optics for Military Use", Part 1, published by the USSR Academy of Science, Moscow, 1943.



GASOV/SKIY, L. N.

USSR, Physics - Light Threshold, Eye

"The Light Thresholds in the Foveal Portion of the Retina," K. N. Bulanova

Dokl. Akad. Nauk SSSR, Vol 93, No 1, pp 29-30

Purpose is to det the nature of the light thresholds (i.e. the light perc ption at threshold) and to measure them quantitatively in the fovea. Notes that the existence or non-existence of an achromatic threshold in the fovea is still in doubt (N. I. Pinegin, Probl Fiziol Optiki (Problems of Physiological Optics), No 3 (1953); K. N. Bulanova, ibid.). Cites related study of L. N. Gassovskiy, K. N. Bulanova, Z. I. Shvarts (Dokl, 58, No 6, 1947). Presented by Acad. N. N. Terenin 3 Sep 53.

275T91

GASSOVSKIY, L. N.; KRIVOSHAPOVA, L. V.

Multifocal eyeglasses. Nov. med. tekhn. no.2:47-59 '61.
(MIRA 14:12)

1. Gosudarstvennyy ordena Lenina opticheskiy institut imeni
S. I. Vavilova.

(EYEGLASSES)

ANDRONNIKOV, K.S.; BALAKOV, V.V.; BUZHINSKIY, A.N.; BURAGO, A.N.; VRETMAN, L.A.; VISHNEVSKIY, A.A.; VOLOSOV, D.S.; GASSOVSKIY, L.N., professor; GERSHUN, A.A., professor; YEL'YASHEVICH, M.A.; YEVSTROP'YEV, K.S.; GUREVICH, M.M., professor; KOLYADIN, A.I.; KORYAKIN, B.M.; KURITSKIY, A.L.; PAPIYANTS, K.A.; PROKOF'YEV, V.K., professor; PUTSNIKO, Ye.K.; RYZUNOV, M.A.; RITYN', N.B.; SAVOST'YANOVA, M.V., professor; SEVCHENKO, A.N.; SENNOV, N.I.; STOZHAROV, A.I.; FAYERMAN, G.P., professor; FEOFILOV, P.P.; TSAREVSKIY, Ye.N., professor; CHEKHMATAYEV, D.P.; YUDIN, Ye.F.; KAVRAYSKIY, V.V., professor; VAVILOV, S.I., akademik, redaktor

[Optics in military science] Optika v voennom dele; sbornik statei. Pod red. S.I.Vavilova i M.V.Savost'ianovoi. Izd. 3-e, zanovo perer. i dop. Moskva. Vol.2. 1948. 387 p. (MLRA 9:9)

1. Akademiya nauk SSSR. 2. Sostaviteli - sotrudniki Gosudarstvennogo Opticheskogo instituta (for all except Vavilov and Kavrayskiy)
3. Voenno-morskaya akademiya (for Kavrayskiy)
(Optics)

GASSOWSKI, Pawel.

The rehabilitation in connection with surgical management of lower extremities. Chir.narz. ruchu 20 no.4:335-340 1955.

1. Z Zakladu Leczniczo-Wychowawczego dla dzieci po chorobie Heinego-Medina w Goczałkowiczach Zdroju Dyrektor: dr. P.Gassowski. Goczałkowice Zdroj. Zaklad Leczn.-Wychowawczy dla dzieci po chorobie Heinego-Medina.

(LEG, surgery

in polio., pre & postop. rehabil.)

(POLIOMYELITIS, surgery

preop. & postop. rehabil.)

(REHABILITATION, in various diseases

polio., preop. & postop. rehabil. in leg surg.)

GASSOWSKI, Pawel

Rehabilitation of children with funnel chest after surgical therapy. Chir. narz.ruchu ortop. polska 26 no.3:301-304 '61.

1. Z Sanatorium Rehabilitacyjnego Chirurgii Dziecięcej w Konstancinie
Dyrektor: lek. P.Gassowski Z Kliniki Chirurgii Dziecięcej AM w
Warszawie Kierownik: prof. dr. J. Kossakowski.
(THORAX abnorm)

GASSUL', B.

Self-action, initiative. Kryl. rod. 15 no.8:26-27 Ag '64
(MIRA 18:1)

1. Predsedatel' gorodskogo komiteta Vsesoyuznogo dobrovol'nogo obshchestva sodeystviya armii, aviatsii i floty SSSR, Chalyabinskaya obl., g. Troitsk.

SALMON, P.A.; GRIFFEN, W.O.; GASTANEDA, A.; ROOT, H.D.; WANGENSTEEN, O.H.

Local gastric hypothermia; experimental and clinical data on
its use in massive gastroduodenal hemorrhage. Vest.khim. 84
no.3:3-20 Mr '60. (MIRA 13:12)
(HYPOTHERMIA) (HEMORRHAGE)

GASTEY, A. P.

"Infinitely variable regulation of bobbin speed a spinning machine of periodic activity." R. A. Gakel', reviewed by A. P. Gastev. Tekst. prom., 12, No 7, 1952.

GASTEY, A.P., kandidat tekhnicheskikh nauk; BOGATOV, A.V., retsenzent;
BALYASHNIKOV, P.S., retsenzent; ARKHANGEL'SKIY, S.S., redaktor;
MEDVEDEV, L.Ya., tekhnicheskiiy redaktor

[Mechanical spinning of wool] Apparatnoe priadenie shersti. Moskva,
Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov
shirokogo potrebleniia SSSR, 1954. 385 p. (MLRA 8:3)
(Woolen and worsted spinning)

GASTEV, A.P.

[Mechanical spinning of wool] Apparatus priadenie shersti.
Moskva, Gislepprom, 1954. 388 p. (MLBA 8:1 D)

GASTEVA, A.P.

DERYUGIN, *Sergiy* Matveyevich; OZEROV, Boris Viktorovich; KOPELEVICH, Ye.I.,
redaktor; GASTEVA, A.P., retsenzent; EL'KINA, E.M., tekhnicheskii
redaktor

[Organizing, assembling, repairing and adjusting of continuous-
action spinning looms (spinning of fine wool)] Ustroistvo, mon-
tazh, remont i naladka priadil'nykh mashin nepreryvnogo deistviia
(grevennoe priadenie tonkoi sherstvi). Moskva, Gos.nauchno-tekhn.
izd-vo Ministerstva tekstil'noi promyshl. SSSR, 1955. 207 p.

(NLRA 9:3)

(Spinning machinery) (Woolen and worsted spinning)

OZEROV, Boris Viktorovich; GASTEY, A.P., retsenzent [deceased]; ORLOVA, L.A.,
red.; MEDVEDEV, L.Ya., tekhn.red.

[Combing machines for wool spinning] Chesal'nye mashiny
grebennogo priseniia shersti. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po legkoi promyshl., 1959. 183 p. (MIRA 12:7)
(Combing machines) (Wool-combing)

GASTEY, B. G.

GASTEY, B. G., Doc Tech Sci --- (diss) "Certain problems of the theory of the transportation of wood in switches on timber-hauling roads." L'vov, 1958. 33 pp with diagrams. (Min of Higher Education USSR. Mos Forest-Engineering Inst). 120 copies (KL, 20-58,96)

KROTOV, Vladimir Romanovich; TORGONSKIY, Mikhail Nikolayevich; GASTEY, R.G., doktor tekhn.nauk, prof., retsenzent; GAVRILOV, I.I., inzh., retsenzent; TOVSTOLUZHSKIY, N.I., red.; PITERMAN, Ye.L., red. isd-va; GRECHISHCHEVA, V.I., tekhn. red.

[Organization of the construction of logging roads] Organizatsiia stroitel'stva lesovoznykh dorog. Moskva, Goslesbumizdat, 1962.
262 p. (MIRA 16:6)

1. Zaveduyushchiy kafedroy sukhoputnogo transporta lesa L'vovskogo lesotekhnicheskogo instituta (for Gastev). 2. Nachal'nik mekhanizatsii stroitel'stva lesozagotovitel'nykh predpriyatiy Tsentral'nogo nauchno-issledovatel'skogo instituta mekhanizatsii i energetiki lesnoy promyshlennosti (for Gavrilov).
(Forest roads--Design and construction)

LEONOVICH, Ivan Iosifovich, GASNEV, B. S., prof., doktor tekhn.
nauk, retsenzent; CHITSKEVICH, A. G., kand. tekhn. nauk,
retsenzent; MARTYNIKFIN, I. D., kand. tekhn. nauk,
nauchn. red.; AKALOVICH, N. M., red.

[Automotive logging roads, design, construction and opera-
tion of logging roads with examples and problems] Avtomobil'-
nye lesovoznye dorogi: proektirovaniye, stroitel'stvo i eks-
pluatatsiya lesovoznykh dorog s primerami i zadachami.
Minsk, Vysshaya shkola, 1968, 195 p. (MIRA 18:12)

GASTEV, D. M.

GASTEV, D. M.

Sleep following an epileptic seizure and syndrome of protracted sleep. Nevropat. psikiat., Moskva 19:6, Nov.-Dec. 50. p. 53-5

1. Of the Leningrad Neuro-Psychiatric Institute imeni V. M. Bekhterev (Director—Prof. V. N. Myasishchev) and the Clinic for Nervous Diseases (Director—S. N. Davidenkov, Active Member of the Academy of Medical Sciences USSR) of the Institute for the Advanced Training of Physicians.

CLML 20, 3, March 1951

GASTEV G.A.

amplitude

- MASHAY, K. I. - "Dimensional tolerances of heavy elements" (Session IV)
- SELENIA, Ye. I. - "Research on conditions of work and ultimate state of steel frames of industrial buildings" (Session II)
- SENJ, O. Ya. - "Research on the concrete strength theory" (Session II)
- BOGDANOV (fnu) (probably Nikolay N. Bogdanov) and KHILASOV (fnu) - "General regulations adopted in new instructions on design, erection and maintenance of flat roofs in the USSR" and the result of recent investigation of flat roof structures in the USSR" (Session VI)
- BORISHANSKIY, M. S. - "Resistance of reinforced concrete members to the effect of transverse forces" (Session II)
- GOZDEY, A. A., Prof. Dr. - "Present state and problems of design of building structures" (Session II)
- KLEKINOV, Grigoriy F., Prof. - "Eastern European experience" (Session IV)
- BORISOV, N. V., and UZHKOY, F. V. - "Problems of joining heavy elements in precast dwellings" (Session IV)
- MURASHOV, V. I., Prof. Dr. - "Resistance to stretching and stiffness of reinforced concrete members" (Session II)
- OVSYANKIN, Y. I., Prof., President of Session II; also scheduled to present a paper in Session IX, title not given. Member of the Steering Committee for the Congress.
- KEZANITSIN, Aleksey K., Prof. Dr. - "Design of carrying capacity of slabs and shells by the limit balance method" (Session II)
- SHAGIN, F. P., GASTEV, G. A., Prof. Dr., and YUTLAR, D. A. - "Possibility of multi-story buildings of heavy elements" (Session IV)

reports to be submitted for the Intl. Congress and Third General Assembly,
 Intl. Council for Building Research, Studies and Documentation, Rotterdam,
 Netherlands, 21-23 Sep 1979.

GASTEY, N.S.; PELAKHOVA, Ye.N.

The influence of light and nitrogen compounds on the alkaloid content of
belladonna. *Agrobiologiya* '53, No.1, 94-5. (MIRA 6:2)
(CA 47 no.22:12531 '53)

1. Pyatigorsk Pharm. Inst.

G. GASTEV, S. S.

USSR/Chemical Technology. Chemical Products and Their Application -- Electrochemical manufacturing. Electrodeposition. Chemical sources of electrical current, I-8

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5111

Author: Krestovnikov, A. N., Gastev, S. S.

Institution: Moscow Polygraphical Institute

Title: Kinetics of Etching of Zinc Used in Printing by the Chemical Method

Original

Publication: Nauch. tr. Mosk. poligr. i-nt, 1955, 3, 135-142

Abstract: Investigation of the rate of dissolution of sheet Zn used in the printing industry, in mixtures of HCl and HNO₃ (using 15 (I), 10 (II) and 5 (III) % by weight of each component in the mixture), by the method of determination of loss in weight (LW) after 5 minutes of etching (E). The E in I was started at 25° and terminated at ~100° due to natural heating. Mixtures II and III were heated at 80° before E, so that the temperature of these mixtures attained ~90° at the end of E. It is shown that with all other conditions being equal,

Card 1/2

USSR/Chemical Technology. Chemical Products and Their Application -- Electrochemical manufacturing. Electrodeposition. Chemical sources of electrical current, I-8

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5111

Abstract: LW decrease in the series I > II > III. Increase in the volume of the solution from 100 to 1,100 ml, results, in general, in greater LW, and this effect increases in the series III < II < I. On decrease of the effective surface of the Zn the LW decreases in III and undergoes no change in I. The last mentioned effect is attributed to attainment, in I, of the saturation level of E products concentration, due to a high rate of dissolution. Using III as an example it is shown that the speed of stirring of the solution produces no substantial effect on LW.

Card 2/2

SOV/137-58-11-23063

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 176 (USSR)

AUTHOR: Gastev, S. S.

TITLE: Dissolution of Copper-nickel Alloys in Electrolytes (Rastvoreniye medno-nikelevykh splavov v elektrolitakh)

PERIODICAL: Nauchn. tr. Mosk. poligr. in-t, 1957, Nr 5-6, pp 191-200

ABSTRACT: The rates of dissolution of a series of solid solutions of the Cu-Ni system in solutions of H_2SO_4 (6 and 60%) and HCl (10%) were investigated. It is established that the dissolution in electrolytes of the solid solutions of the Cu-Ni system investigated is closely related to the phase diagram: It decreases considerably with an increasing Ni content in the alloy, i. e., with an approach toward the β (magnetic) phase of the phase diagram. The stability of solid solutions of the Cu-Ni system increases with the approach to the β (magnetic) phase of the phase diagram.

L. A.

Card 1/1

SOV/137-58-11-23064

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 176 (USSR)

AUTHOR: Gastev, S.S.

TITLE: Dissolution of a Copper-zinc Alloy in Electrolytes in Relation to the Grain Size (Rastvoreniye medno-tsinkovogo splava v elektrolitakh v zavisimosti ot velichiny zerna)

PERIODICAL: Nauchn. tr. Mosk. poligr. in-t, 1957, Nr 5-6, pp 201-210

ABSTRACT: The dissolution rate of a Cu-Zn alloy (79.87% Cu and 20.13% Zn) in 6% H_2SO_4 and 10% HCl at 40°C was studied in relation to the grain size. The grain size required was obtained by varying the degree of mechanical reduction (5, 20, and 30%). It is shown that the rate of dissolution of the alloy in electrolytes increases with reduction of the grain size. Presence of atmospheric O_2 in the electrolyte increases the rate of dissolution, CuCl which forms during the dissolution of the alloy being a good carrier of O_2 . In the absence of O_2 in a 10% HCl solution at 40°C the dissolution of the Cu-Zn alloy comes practically to a standstill.

L. A.

Card 1/1

68272

SOV/81-59-10-35211

18.7520
18.1220

Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr 10, p 265 (USSR)

AUTHORS: Krestovnikov, A.N., Gastev, S.S.

TITLE: Kinetics of Dissolution of Binary Solid Copper-Based Solutions (With the Same Atomic Percentage Composition) in a Solution of Sulfuric Acid

PERIODICAL: Sb. nauchn. tr. Nauchno-tekhn. o-vo tsvetn. metallurgii. Mosk. in-t tsvetn. met. i zolota, 1958, Nr 29, pp 196-198

ABSTRACT: The study of the rate of dissolution of binary solid solutions of ²⁷Ni, ²⁷Zn, ²⁷Al and ⁵Mn (5 atomic %) on ⁶³Cu base in 60% - H₂SO₄ at 80°C, which has been determined by the analysis of the solution and by the change in the weight of the samples after every 100 hours in the course of 1,000 hours, has shown that this rate increases along the series Ni < Zn < Al < Mn. The content of Mn in the solution in the dissolution of Mn-Cu-alloy is ~5 atomic %. The Ni, Zn and Al content in individual samples of the solution varies from 4 to 9 atomic %.

G. Florianovich

Card 1/1

KRESTOVNIKOV, A.N., prof.; GASTEVA, S.S., dotsent; GUBINA, V.V., assistant

Rate of etching of zinc used in printing and recovery of etching
solutions: Nauch. trudy MPI no.7/8:247-253 '58. (MIRA 14:12)
(Zincography)

GASTEY, S.S., kand.khim.nauk, dotsent

Diffusion of solid solutions of the copper-zinc system in sulfuric
acid. Nauch. trudy MPI no.7/8:233-246 '58. (MIRA 14:12)
(Copper-zinc alloys) (Sulfuric acid)

GASTEY, S.S. (Moskva)

Kinetics of the dissolution of copper-zinc alloys in sulfuric acid solutions. Izv. AN SSSR. Mat. no.3:113-119 My-Je '65. (MIRA 18:7)

GASTEY, V.A.

27696

Armirovaniye balok na glavnye rastyagivayushiye napryazheniya.
Trudy iv vsesoyuz. konf-tsii po betonv i zhe'ezobeton.
Konstruktsiyam. Ch. 2. M.-L. 1949, s. 43-46.

SO: Knizhnaya Letopis, Vol. 1, 1955

GASTEY, V. A.

SERGIYEVSKIY, A.D. [translator]; GASTEY, V.A., professor, doktor tekhnicheskikh nauk, retsenzent; SERENSEN, S.V., redaktor; KUSHELEV, N.Yu., kandidat tekhnicheskikh nauk, redaktor; SOKOLOVA, L.V., tekhnicheskii redaktor

[Problems in fatigue breakdown of steel; a collection of translations]
Voprosy ustalostnogo razrusheniia stali; sbornik perevodnykh statei.
Sokrashchennye perevody A.D.Sergievskogo, pod red. S.V.Serensena.
Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1957. 150 p.
(Steel--Fatigue) (MLRA 10:8)

SOV/124-57-9-10829

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 9, p 142 (USSR)

AUTHORS: Gastev, V. A., Chikov, Ye. A.

TITLE: An Investigation of the Behavior of Bars Subjected to Combined Compressive and Flexural Stresses Under Periodic Loading (Issledovaniye szhatoizognutykh sterzhney pod deystviyem periodicheskikh nagruzok)

PERIODICAL: V sb.: 15-ya nauchn. konferentsiya Leningr. inzh.-stroit. in-ta, Leningrad, 1957, pp 353-356

ABSTRACT: The authors evolve approximate expressions for the stresses and permissible frequency-variation ranges for the case of a transversely vibrating uniform bar freely supported at both ends and subjected to the action of two periodic forces, the one longitudinal, the other transverse.

V. V. Bolotin

Card 1/1

24(6)

PHASE I BOOK EXPLOITATION

SOV/3047

Gastev, Vladimir Alekseyevich

Kratkiy kurs soprotivleniya materialov (Short Course on the Strength of Materials) Moscow, Fizmatgiz, 1959. 424 p. Errata slip inserted. 22,000 copies printed.

Ed.: G. I. Fel'dman; Tech. Ed.: K. F. Brudno.

PURPOSE: This textbook is intended for students of schools of higher technical education.

COVERAGE: This textbook contains elementary information on the strength of materials. The following subjects are discussed: the plane and volume states of stress of bodies; deformations caused by tension, compression, bending, torsion, shearing, and combined stresses; statically indeterminate beams; the stability of a deformed body; elastoplastic bodies; and dynamic loads and stresses. No personalities are mentioned. There are no references.

Card 1/ 16

GASTEY, V.A.

"Designing rods for stability by the method of equilibrium in limited states" by I.I.Tarasenko. Reviewed by V.A.Gastev. Stroi. mekh.i rasch.soor. 2 no.4:47-48 '60. (MIRA 13:7)
(Elastic rods and wires)
(Tarasenko, I.I.)

GASTEY, V.A., prof., doktor tekhn.nauk; GRODSKIY, Ye.Ya., inzh.;
BALAVADZE, V.K., inzh.

Mesh-reinforced concrete and its advantages over ordinary reinforced concrete. Let. i zhel.-bet. no.9:389-391 S '61.

(MIRA 14:10)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR.
(Reinforced concrete)

SMIRNOV-ALYAYEV, Georgiy Aleksandrovich, prof., doktor tekhn. nauk; GASTEY,
V.A., prof., doktor tekhn. nauk; retsenzent; ROZENBERG, V.M., kard.
tekhn. nauk, red.; VASIL'YEVA, V.P., red.izd-va; SFFRANSKAYA, O.V.,
tekhn. red.

[Resistance of materials to plastic deformations; engineering methods
for designing press-working operations] Soprotivlenie materialov pla-
sticheskomu deformirovaniu; inzhenernye metody rascheta operatsii pla-
sticheskoi obrabotki materialov. Izd.2., perer. i dop. Moskva, Mashgiz,
1961. 461 p. (MIRA 14:12)

(Deformations(Mechanics)) (Plasticity) (Sheet-metal work)

GASTEY, V.A.; KITOVER, K.A. (Leningrad)

Determination of the elastic characteristics of ribbed plates.
Stroi. mekh. 1 rasch. soor. 3 no.6:1-4 '61. (MIRA 15:4)
(Elastic plates and shells)

BAYDA, Eduard Nikolayevich; GASTEVA, V.A., doktor tekhn. nauk, prof.,
red.; ROTENBERG, A.S., red. izd-va; VORONETSKAYA, L.V., tekhn.
red.

[General solutions in the theory of elasticity and problems on
the parallelepiped and cylinder] Obshchie reshenia teorii up-
rugosti i zadachi o parallelepipede i tsilindre. Pod red.
V.A.Gasteva. Leningrad, Gosstroizdat, 1962. 61 p.
(MIRA15:8)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury
SSSR (for Gastev).
(Elasticity) (Elastic solids)

GASTEY, V.A.; PITLYUK, D.A. (Leningrad)

Results of studies of the character of the distribution of stresses in a transverse bearing partition. Stroi.mekh.1 rasch.soor. 4 no.4:1-5 '62. (MIRA 15:8)
(Strains and stresses) (Walls)

KRYLOV, Nikolay Alekseyevich, zasl. izobretatel' RSFSR, doktor tekhn. nauk; GASTEY, V.A., zasl. deyatel' nauki i tekhniki RSFSR, doktor tekhn. nauk prof., retsenzent; BUTENIN, N.V., doktor fiz.-matem. nauk, prof., nauchn. red.; VORONETSKAYA, L.V., red.izd-va i tekhn. red.

[Electron-acoustical and radio measurement methods for testing materials and structures] Elektronno-akusticheskie i radiometricheskie metody ispytaniia materialov i konstruksii. Leningrad, Gosstroizdat, 1963. 239 p.
(MIRA 17:1)

GASTEY, Yu.A.

Constructing an analysis on the basis of the axiomatized geometry of a straight line. Uch.zap.MGZPI no.3:46-56 '59.
(MIRA 13:5)

(Metamathematics)

L 36737-65 EPI(d)/EEC-l/EEB-2/ESP(L) PC-l/Pq-l/PG-l/PK-l TJP(c) BR/CO/GS
ACCESSION NR: AT5008648 S/0000/64/000/000/0459/0472

AUTHOR: Gastev, Yu.

TITLE: Methodologic problems of the learning process

SOURCE: Kibernetika, myshleniye, zhizn' (Cybernetics, thought processes, and life).
Moscow, Izd-vo Mysl., 1964, 459-472

TOPIC TAGS: automatic learning, learning theory, programmed learning, automated instruction, teaching machine, cybernetics

ABSTRACT: In this survey article, the author discusses the status of the application of cybernetic methods to the learning processes in humans. It is well known that the learning process represents, in a certain way, a classical example of control processes. However, at the present stage, numerous studies related to the "teaching" and "self-teaching" of automatic devices have encountered serious difficulties connected with the absence of satisfactory theories of learning based on objective criteria. Moreover, during the "teaching" of automata, one need not follow the teaching patterns established for human beings. Nevertheless, there is always a hope that "machine learning" may be considered as a kind of approximation to a rational approach to the learning processes in man. Consequently, the author covers all aspects of the problem and, after taking

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ACCESSION NR: AT5008648

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cognizance of the latest advances in the field, concludes that it still seems more promising at the present time to work on the problems of the rationalization of the existing empirically discovered stages of the learning process than to attempt to solve the much more complex (and much less explored) general problem of "programmed learning".

ASSOCIATION: none

SUBMITTED: 03Nov64

ENCL: 00

SUB CODE: DP, LS

NO REF SOV: 009

OTHER: 001

Card 2/2

DUBROV, Yakov Semenovich (1887-1957); YAGLOM, I.M.; GASTEY, Yu.A.;
red.

[Talks on the teaching of mathematics] Besedy o prepodavanii
matematiki. Moskva, Prosveshchenie, 1965. 235 p.
(MIRA 18:3)

1ST AND 2ND PERIODS PROCESSES AND PROPERTIES INDEX

B-I-9

Electrodes for melting glass in an electric furnace. J. GAGNY and M. S. PUDONOVA (Keram. i Steklo, 1955, 11, No. 4, 19-26).—The most stable electrodes are of alloyed steel, soft Fe, and ordinary Fe. They should be Cr-plated. Air-oxidizing the electrodes improves the quality of the glass. Decolorizing the glass mass with Sn gave good results. *Ch. Ann. (c)*

ASSOCIATION OF METALLURGICAL ENGINEERS

DETALLURGICAL LITERATURE CLASSIFICATION

METALLURGY

METALLURGY

CASTEV, Yu. A., Engineer

"Action of the Oxides of Alkali Earth Metals on the Water Resistance of Glass." Thesis for degree of Cand Technical Sci. Sub 30 May 50, All-Union Sci Res Inst of Glass Ministry of the Construction Materials Industry USSR

Summary 21, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

GASTREY Yu. A.

3
1 MB

✓ Movement of element in molds during pressing. Yu. A. GASTREY AND E. G. PROKOVA. *Sibko i Keram.*, 10 (6) 8-11 (1953).—The rate of movement differs at various points; it increases with the distance of the given point from the metal of the mold and from the punch. In a shape of complex configuration, movement deviates from a straight line. Rapid cooling prior to juncture of streams results in poor seams. In designing shapes and press molds, it is necessary to strive to create minimum differences of resistance in paths of movement. B.Z.K.

MB
①

GASTEV, YU A.

Math

~~Effect of chemical constitution on acid resistance of glass. Yu A. Gastev (*Steklo i Keram.*, 1955, 12, No. 5, 4-6; *Glass*, 1956, 33, 26).~~
 Measurements were made of the depth to which the various components were removed by leaching with water and with acid. In the case of water a surface film is formed which may absorb alkaline earth ions and SiO₂ may go into solution. No SiO₂ is removed by the action of acid. (The original paper gives some details of the effect of Na₂O, CaO, and MgO on the chemical resistance of the glass).

J. A. SUGDEN

PM

2002

SMOLYANSKIY, M.L.; RYVKIN, A.Z., red.; GASTEY, Yu.A., red.

[Some problems in modern mathematics and cybernetics;
collection of articles for mathematics teachers] O ne-
kotorykh voprosakh sovremennoi matematiki i kiberne-
tiki; sbornik statei v pomoshch' uchiteliu matematiki.
Moskva, Prosveshchenie, 1965. 530 p. (MIRA 18:7)

IVANOV, Anatoliy Petrovich; GASTEVA, G.A., red.; FORMALINA,
Ye.A., tekhn. red.

[Chemical analysis of fishes and their feeds; practical
manual for pisciculturists] Khimicheskii analiz ryb i ikh
kormov; prakticheskoe rukovodstvo dlia rybovodov. Moskva,
Rybnoe khoziaistvo, 1963. 36 p. (MIRA 16:12)
(Fishes) (Feeds--Analysis) (Biochemistry)

U.S.S.R. / Human and Animal Physiology. Metabolism. T

Abs Jour: Ref Zhur-Biol., No 5, 1958, 21939.

Author : Gasteva G.S.
Inst : Kubansk Inst.
Title : Sugar Content in the Blood of Calves in Re-
 lation to Their Condition.

Orig Pub: Sb. Stud nauchn rabot. Kubansk. S.-kh.
 In-t (1956) vyp. 1-45, 47.

Abstract: No abstract.

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GASTEVA, G. S.

Q-3

USSR/Farm Animals - Cattle.

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30943

Author : Kostin A.P., Gasteva G.S.

Inst : -

Title : Physiological Peculiarities of the Red Steppe and Kuban'-
Black Sea Cattle.
(Fiziologicheskiye osvennosti u krasnostepnogo i kubano-
chernomorskogo skota).

Orig Pub : Tr. Kubansk. s.-kh. in-ta, 1957, vyp. 3 (31), 68-81.

Abstract : Physiological processes under different ecological con-
ditions were studied on 26 calves, 47 castrated bulls,
14 heifers, and 18 cows. The Red Steppe cattle surpass
other breeds by their high adaptability to the hot cli-
mate of Kuban'. The first intake of food lowers the
oxidation processes in the calf, but in the second and
subsequent feeding, gas metabolism increases and cardiac
activity is intensified. In calves of the Red Steppe

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USSR/Farm Animals - Cattle.

Q-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30943

breed raised in the plains, the oxidation processes are weaker than in the Kuban'-Black Sea cattle reared in the mountain regions. Oxygen is absorbed most intensively, and carbon dioxide is given off towards 12 noon. The camp-pasture maintenance increases gas metabolism and intensifies substance metabolism. In animals on mountain pastures, at the altitude of 1,800-2,000 m. the gas metabolism and oxidation processes decrease. When the animals are transferred to the high mountain pastures, the erythrocyte and leukocyte count increases. Under mountain conditions, an increase of Hb content in the blood and an increase in arterial pressure was observed. The average daily weight gain of castrated bulls (1-2 years old) for the first 15 days was 100 g., and for the next 15 days it increased to 400 g. per head. After complete adaptation, the weight gain reached 700-1,000 g.

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- 34 -

GASTEVA, Sarafim Alekseyevich; KREKEL'SHTEYN, Boris Il'ych; LYAPIN,
Sergey Yevgen'yevich; redaktor; SHIDLOVSKAYA, Mariya Mechisla-
vovna; CHAKHIREV, A.G., redaktor; MAKRUSHIN, V.A., tekhnicheskii
redaktor.

[Methods of teaching mathematics] Metodika prepodavaniia mate-
matiki. Pod obshchei red. S.E.Liapina. Izd.3-e, ispr.Leningrad
Gos.uchehno-pedagog.izd-vo Ministerstva prosveshcheniia RSFSR
Leningradskoe otd-nie, 1955. 482 p. (MLRA 8:10)
(Mathematics--Study and teaching)