

SHAPOSHNIKOV, P.

Rock as a building material. Nauka i zhyttia 12 no.1:16 Ja '63.
(MIRA 16:3)

(Donetsk—Building materials)

ASHMABIN, Yu.Ya.; SHAPOSHNIKOV, P.K.; BABANIN, A.V.; AMITAN, B.Ya.

Treatment of urticaria with histamine and intestinal lavages.
Vest. dermat. i ven. 38 no.12:45-49 D '64. (MIRA 18:8)

1. Glavnyy voyennyi gospi'tal' imeni akademika Burdenko
(nachal'nik general-mayor meditsinskoy sluzhby M.M. Gilenko),
Moskva.

MIROTVORTSEV, Yu.K.; SHAPOSHNIKOV, P.K.

Two hundred and fifty years of service to the people. Izobr.v
SSSR 2 no.12:39-42 D '57. (MIRA 10:12)
(Moscow--Hospitals, Military--History)

TRILISER, T.D., SHAPOSHNIKOV, P.K.

Effect of segmental electrophoresis of novocaine on the course of
local radiation damage following radiotherapy. Vop.kur., fizioter.
i lech. fiz. kul't. 23 no.5:408-410 S-0 '58 (MIRA 11:11)

1. Iz Glavnogo voyennogo gospitalya imeni N.N. Burdenko
(nachal'nik - general-mayor meditsinskoy sluzhby N.M. Nevskiy)
(RADIATION--PHYSIOLOGICAL EFFECT)
(NOVOCAINE)
(ELECTROPHORESIS)

SHAPOSHNIKOV, P.K., polkovnik meditsinskoy sluzhby; MIROTVORTSEV, Yu.K.,
polkovnik meditsinskoy sluzhby

Combination bath for hydrogymastics and underwater massage. Vcen.-
med. zhur. no. 1:87 Ja '60. (MIRA 14:2)
(HYDROTHERAPY---EQUIPMENT AND SUPPLIES)

SHAPOSHNIKOV, P.K.

Use of intestinal lavages in skin diseases. Vop. kur., fizioter.
i lech. fiz. kul't. 26 no.6:514-517 N-D '61. (MIRA 15:1)

1. Iz glavnogo voyennogo gospihtalaya imeni akademika N.N.Burdenko
(nachal'nik - general-mayor N.M.Nevskiy).
(SKIN_DISEASES) (THERAPEUTICS, PHYSIOLOGICAL)

MINOTVORTSEV, Yu.K.; SHAPOSHNIKOV, P.K.

History of the application of physical methods of treatment at the Burdenko Main Military Hospital; on the 250th anniversary of the hospital. Vop. kur., fizioter. i lech. fiz. kul't. 26 no.6:547-550 N-D '61. (MIRA 15:1)

1. Iz glavnogo voyennogo gospiytalya imeni N.N.Burdenko (nachal'nik - general-mayor meditsinskoy sluzhby L.I.Lyalin). (MOSCOW_HOSPITALS, MILITARY) (PHYSICAL THERAPY)

SHAPOSHNIKOV, P.K.

Embursed intestinal lavage and intestinal irrigation without
a bath in nephrolithiasis. Vor. kur., fizioter. i lech. fiz.
kol't. no.6:536-541 '63. (MIRA 17:8)

1. Iz Glavnogo voyennogo gospitalya imeni N.N. Burdenko.

SHAPOSHNIKOV, R., inzhener; LEVINSON, M.; TRUSH, N., kapitan militsii (g. Pri-
lukl); GLADKOV, B., shofer (g. Vil'nyus); MOROZOV, P., inzhener.

Are the traffic regulations right? Za rul. 15 no.1:8-9 Ja '57.
(Traffic regulations) (MLRA 10:4)

SHAPOSHNIKOV, R.D.

Designing detector instruments with low current consumption.
Inform.-tekh. sbor. MEP no.8:31-35 '58. (MIRA 12:1)

1. Krasnodarskiy zavod elektroizmeritel'nykh priborov.
(Electric instruments)

L 12216-66 EWT(d)/EWP(v)/T/EWP(k)/EWP(h)/EWP(l) IJP(c) BB/GG/GD/BC
ACC NR: AT6008929 SOURCE CODE: UR/0000/65/000/000/0130/0136

AUTHOR: Shaposhnikov, R. D.

ORG: none

TITLE: Some peculiarities in the introduction and real-time conversion of information for supervisory control systems

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomaticheskiye i teleinformatsonnyye sistemy (Automatic and teleinformation systems). Moscow, Izd-vo Nauka, 1965, 130-136

TOPIC TAGS: automatic control, coding, signal transducer, information processing

ABSTRACT: Primary-signal transducers and their output suitable for introduction into a supervisory control system are considered. Of three input codes — unitary, serial, and parallel — the first is preferred; this code is a result of time quantization of the input; the input variable is converted into pulses whose rate is proportional to the input variable. Thus, the unitary code may be represented

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ACC NR: AT6008929

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either as a frequency code or as a duration code. The minimum modulation frequency ensuring a specified accuracy of information transmission is figured out for 3 rates of information processing: 1000, 100, and 10 msec per interrogation of one point. The relaxation oscillator can be used for conversion of a primary electrical quantity (current, voltage, resistance) into frequency or time intervals. As an example, a single-phase-power-into-frequency transducer is briefly considered. Orig. art. has: 2 figures, 14 formulas, and 2 tables.

SUB CODE: 13, 09 / SUBM DATE: 14Jul65 / ORIG REF: 003 / OTH REF: 001

SINANYAN, R., kand.tekhn.nauk; SHAPOSHNIKOV, S., gornyy inzh.-marksheyder

Mine surveying in the mining enterprises of Armenia. Prom.Arm.
5 no.3:24-26 Mr 162. (MIRA 15:4)
(Armenia--Mine surveying)

YAKHNINA, N.A.; SHATROV, I.I.; MORDVINOVA, N.B.; KUZNETSOVA, N.S.;
SHAPOSHNIKOVA, R.P.; SHUL'MAN, E.A.; KAZACHINA, K.N.; PEROVA, L.V.;
SALAMANDRA, E.G.; SINAY, A.Ya.; SHERISHEVSKAYA, Ye.F.; SHABAD, A.T.;
GOLUBEVA, T.V.

Biological properties of causative agents isolated in various
clinical forms of dysentery. Zhur. mikrobiol. epid. i immun.
31 no.3:128 Mr '60. (MIRA 14:6)
(SHIGELLA PARADYSENTERIAE)

SIATOSHIKOV, S.G.

Methods of teaching chemistry in seven-year schools Moskva, Izd-vo Akademii pedagog.
nauk RSFSR, 1940.297 p. (Pedagogi-cheskaia biblioteka uchitelia)
52-44009)

LD4C.348

SRAPOSHNIKOV, S.P., monter

Device for cleaning of code cell contacts and signaling relays.
Avtom. telem. i sviaz' 3 no.8:32 Ag '59. (MIRA 13:2)

1.Kizlyarskaya distantziya Severo-Kavkazskoy dorogi.
(Railroads--Electric equipment)

BOGUSLAVSKIY, Aleksandr Ruvimovich; ANDREYEV, Lev Sergeyevich; SHAPOSH-
NIKOV, Sergey Stakheyevich; SOSEDOV, O.O., gornyy inzhener, retsenzent;
TIKHONOV, N.V., kandidat tekhnicheskikh nauk, retsenzent; KALMYKOV,
S.G., redaktor; YEZDOKOVA, M.L., redaktor; ATPOPOVICH, M.K., tekhnicheskiiy redaktor.

[Operator of a scraper winch; textbook for instructing workers in
production technology] Mashinist skrepernoi lebedki; i uchebnoe
posobie dlia proizvodstvenno-tekhnicheskogo obucheniia rabochikh.
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi
metallurgii, 1955. 196 (MLRA 8:11)
(Winches)

BOGUSLAVSKIY, Aleksandr Ruvimovich; ANDREYEV, Lev Sergeevich;
SHAPOSHNIKOV, Sergey Stakheyevich; AVSEYENOK, A.F., otv.red.;
SINYAGINA, Z.A., red.izd-va; SABITOV, A., tekhn.red.

[Scraper operator] Mashinist skrepernoi ustanovki. Moskva,
Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1959. 201 p.
(MIRA 13:2)

(Scrapers)

SHAPOSHNIKOV, S.V.

Methodical principles of studying the flow of traffic on city streets. Sbor.nauch.rab.AKKH no.13:203-217 '62.

(MIRA 16:4)

(Traffic surveys)

SHAPOSHNIKOV I G

3829

538.113:539.156 - 82

Thermodynamical theory of spin-spin relaxation in paramagnetics. Shaposhnikov, T. G. *J. Exp. Theor. Phys.*, 18, 533-8 (June, 1948) in Russian.—The paramagnetic is considered as an ideal one, with magnetism of the pure spin type, and the cases of parallel fields with spin-lattice, and spin-spin relaxation are treated. On the assumption of stationary small changes of all variables and brevity of the alternating field, an expression for with the period of the alternating field, an expression for the complex magnetic permeability is derived. This expression is specialized for the limiting cases of large and small (i.e. by comparison with the reciprocal of the spin-lattice relaxation time) frequencies. A correction is given for the spin-spin relaxation time, not quite accurately determined in a previous paper [Gorn, Dijkstra, Groenendijk, *Physica*, 7, 625 (1940)]. It appears that in weak constant fields the basic character of paramagnetic relaxation phenomena is that of spin-spin relaxation. The possibility of the experimental verification of the results is discussed, as well as the prospects of an analogous investigation of the case of a perpendicular field.

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METALLURGICAL LITERATURE CLASSIFICATION

REGIONAL SERVICE

SHAPOSHNIKOV, V.

Reporting which replaces sketchiness. Sov. foto 18 no. 7:11-13
J1 '58. (MIRA 11:8)

(Photography, Journalistic)

SHAPOSHNIKOV, V.

Artist of applied photography. Sov.foto 18 no.12:73-77 D '58.
(MIRA 11:12)

(Khlebnikov, Aleksandr Vladimirovich, c. 1898-)

(Photography)

SHAPCSEKOV, V.

Soviet fifth ocean. Grazhd.av. 20 no.8:2-5 Ag '63.
(MIRA 16:9)

(Aeronautics, Commercial)

SHAPOSHNIKOV, V.

Every-day instruction in Marxism-Leninism. Grazhd.av. 12
no.2:8-10 F '55. (MIRA 16:1)

1. Nachal'nik Otdela propagandy i agitatsii Politicheskogo
upravleniya Grazhdanskogo vozdushnogo flota.
(Communist education)

SHAPOSHNIKOV, V.

Let us spare no effort to implement the resolutions of the July
Plenum of the Central Committee of the CPSU. Grazhd.av. 12
no.8:1-3 Ag '55. (MIRA 15:8)

1. Nachal'nik otдела propagandy i agitatsii Politicheskogo
upravleniya Grazhdanskogo vozdushnogo flota.
(Aeronautics, Commercial)

SHAPOSHNIKOV, V.

New stage of ideological work. Grazhd.av. 18 no.1:2-4 Ja '61.

(MIRA 14:3)

1. Nachal'nik otdela propagandy i agitatsii Politupravleniya
Grazhdanskogo vozdushnogo flota.

(Communist Party of the Soviet Union--Party work)

SHAFOSHNIKOV, V.

Father of Russian aeronautics (on the occasion of the 40th anniversary of the death of Nikolai Egorovich Zhukovskii).
Grazh. av. no.3:28 Mr '61. (MIRA 14:3)
(Zhukovskii, Nikolai Egorovich, 1847-1921)

SHAPOSHNIKOV, V.

Forces multiplied. Sov. shakh. ll no.10:25 0 '62.

(MIRA 15:9)

1. Zamestitel' predsedatelya Kemerovskogo gorodskogo komiteta
professional'nogo soyuza rabochikh ugol'noy promyshlennosti.
(Kemerovo region--Trade unions) (Mine management)

SHAPOSHNIKOV, V.

The fortieth anniversary of the civilian aviation of the U.S.S.R.
Kryl.rod. 14 no.1:14-15 Ja '63. (MIRA 16:1)

1. Glavnyy redaktor zhurnala "Grazhdanskaya Aviatsiya".
(Aeronautics, Commercial)

SHAPOSINIKOV, V.

Fiery years. Grazhd. av. 22 no.5:2-3 My '65.

(MIRA 18:7)

SHATUNOV, Boris Nikolayevich; KORNYUSHIN, M.Ya., inzhener, retsenzent;
SHAPOSHNIKOV, V.A., inzhener, retsenzent; EL'DIND, L.M., redaktor
izdatel'stva; EVENSON, I.M., tekhnicheskij redaktor

[The manufacture of aluminum ware] Proizvodstvo aliuminievoi posudy.
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoj i tsvetnoj
metallurgii, 1956. 176 p. (MIRA 9:9)
(Kitchen utensils) (Aluminum)

S/126/60/009/02/026/033
E111/E535

AUTHOR: Shapochkin, V.A.

TITLE: Mechanical Properties of Special Steels and Alloys
Under High Hydrostatic Pressure 16

PERIODICAL: Fizika metallov i metallovedeniye, 1960, Vol 9, Nr 2,
pp 303 - 305 (USSR)

ABSTRACT: The author (with L.F. Vereshchagin) has already shown
(Ref 1) that resistance to shear at pressures of some
hundreds of thousands of kg/cm^2 can increase more than
50-fold. He now reports the study of this effect for
heat-resisting alloys and steels, using equipment available
at the Institute of High-pressure Physics of the Ac.Sc.,
USSR. The materials tested were Nr 1 titanium alloy,
Nr 2 chromium-nickel steel and Nr 3 heat-resisting blade
alloy and (for comparison) steel 45 and technical iron.
The results are shown graphically as plots of resistance
to shear against pressure and also tabulated as ratio of
resistance at the test pressure to that at 25 000 kg/cm^2 .
Test pressures up to 500 000 kg/cm^2 and over were used.
The table also shows ratios of resistance to shear to

S/126/60/009/02/026/033

Mechanical Properties of Special Steels^{E111/E335} and Alloys Under High Hydrostatic Pressure

tensile strength. The increase in resistance to shear tends to rise with increasing pressure. The greatest effect is shown by the titanium alloy and the least by alloy Nr 3; the resistance rises faster for all the heat-resisting alloys than for the iron and type 45 steel. Above a pressure characteristic for each material the rate of increase of resistance becomes approximately the same for all.

There are 1 figure, 1 table and 3 Soviet references.

ASSOCIATION: Institut fiziki vysokikh davleniy AN SSSR
(Institute of High-pressure Physics of the Ac.Sc., USSR)

SUBMITTED: April 15, 1959

Card 2/2



MALOZEMOV, N.A., doktor tekhn. nauk, prof.; SHAIOSHIKOV, V.A., inzh.

Ways to lengthen the service life of the axle-mounted wheel-motor
block of diesel locomotives. Trudy MIZHT no. 4:22E-280 '64.
(MIRA 19:1)

SHAPOSHNIKOV, V

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Novoye v remonte teplovozov (Opyt Depo Gudermes) (What's New in
the Repair of Diesel Locomotives; Experience of Gudermes Depot)
Moskva, Transzheldorizdat, 1952.
52 p. diags.

Устройство и ремонт
SHAPOSHNIKOV, Vladimir Aleksandrovich; SIVAK, V.Ye., inzh., red.;
BABROVA, Ye.N., tekhn.red.

[The maintenance of diesel locomotives] Ukhod za teplovozom.
Moskva, Gos.transp.zhel-dor.izd-vo, 1957. 121 p. (MIRA 11:2)
(Diesel locomotives--Maintenance and repair)

HAIGOSBIRKOV, V.A., Inzhener (r. Ordzhonikidze.)

Define the nomenclature of repair operations. Tekh. i top. tiaz.
no. 3:25 Ag. '57. (Locomotives--Maintenance and repair)

SHAPOSHNIKOV, V.A.

Mechanization and automatic control of cupola charging, the
shakeout and cleaning of castings. Lit. proizv. no.1:35-36
Ja '63. (MIRA 16:3)

(Foundries—Equipment and supplies)

86651

S/119/60/000/011/007/009
B012/B054

9.6000 (1067, 1099, 1159)

AUTHORS: Nikolayenko, N. S. and Shapqshnikov, V. B.

TITLE: Scaling Device Made From Semiconductor Triodes for the Integrator

PERIODICAL: Priborostroyeniye, 1960, No. 11, pp. 18 - 20

TEXT: The authors describe a phase-sensitive device with semiconductor triodes which can be used as scaler in a thermometric integrator. The mode of operation of the integrator is based on the successive summation of time spaces which are proportional to the temperature measured at each point of time. The said device with semiconductor triodes serves for amplifying and transforming the a.c. signal. The phase of this signal corresponds to the position in which the signal taken up by the synchronously rotating rheochord, and compared with the signal proportional at the respective moment of the object temperature, is weaker than the reference signal. The difference signal with a frequency of 50 cycles is transformed to impulses with 1.56 cycles. These impulses are fixed when the relay responds. The relay operates the mechanical counter which works

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Scaling Device Made From Semiconductor
Triodes for the Integrator

S/119/60/000/011/007/009
B012/B054

at an input signal of a certain phase. The number of impulses is proportional to the amount of heat. The present device is intended for temperatures of the medium between 0 and 50°C. Fluctuations of the feeding voltage amount to $\pm 10\%$, those of the frequency to $\pm 5\%$; they do not affect the work of the device. The threshold of sensitiveness is $10 \mu\text{v}$. It is pointed out that it is possible to construct an integrator with a minimum number of contacts and very small dimensions with the aid of semiconductor diodes and triodes. The cost of such a device is, however, very high (synchronous motor!) as compared with usual scaling devices. The figure shows the basic circuit diagram of the device, and the table the rated values of resistors and capacitors. The power preamplifier consists of five stages. At its input, there is a transformer with a transformation ratio of 1:1. The circuit scheme of the amplifier is similar to that described in Ref. 1. The graphical-analytical method of Ref. 2 was used to calculate the power amplification factor. The amplification factor is 100 db. The input signal amplified by the preamplifier passes over an intermediate transformer to the phase-sensitive stage, and then to the formation stage where rectangular impulses are formed. The formed impulse then reaches the input of the 5-cell scaling circuit. each cell being a

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Scaling Device Made From Semiconductor
Triodes for the Integrator

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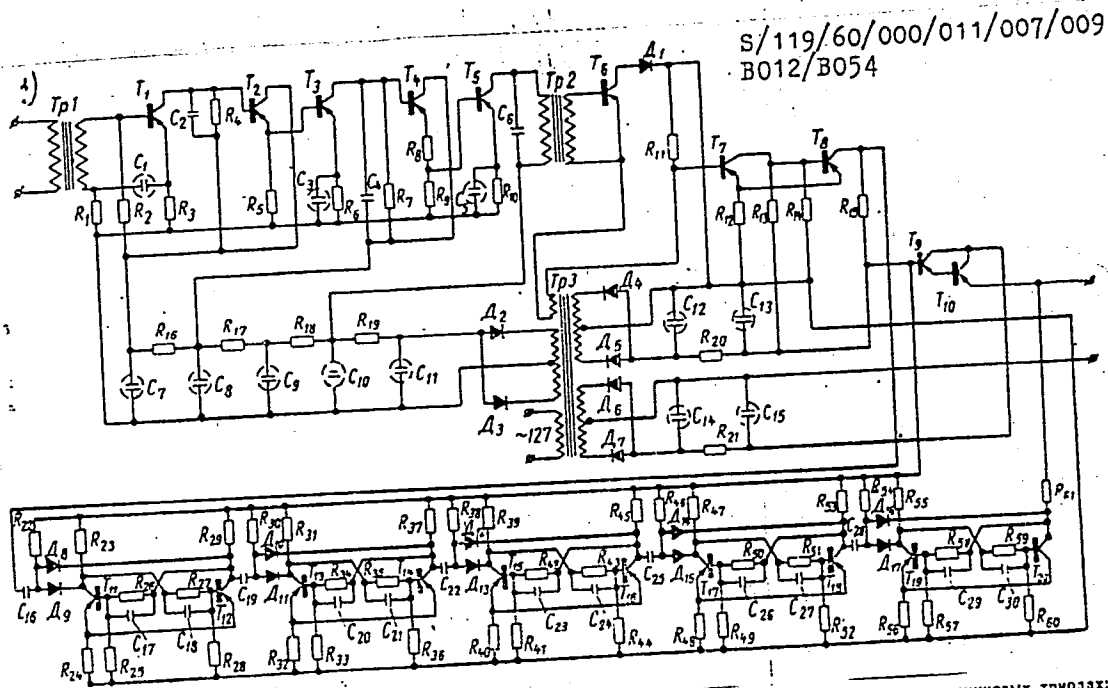
trigger with two stable positions. A model of the circuit described was made and tested. The test showed that the device guarantees perfect and reliable work; if the production cost could be reduced it would be widely used. There are 1 figure, 1 table, and 5 Soviet references.

Legend to the figure: Basic circuit diagram of the phase-sensitive device with semiconductor triodes; $T_1 - T_{20}$ triodes, $\Pi_1(D_1) - \Pi_{17}(D_{17})$ diodes.

1) Transformer.

Legend to the table: Rated values of resistors and capacitors: 1) Resistor, 2) value of resistance in kilohms, 3) capacitor, 4) value of capacitor in microfarads, 5) value of capacitor in picofarads, 6) Note. All resistors are of the УЛМ (ULM) type; the capacitors $C_2, 4, 6$ are of the МБМ (MBM) type; the capacitors $C_1, 3, 5, 7, 9, 10, 11, 12, 13, 14, 15$ of the ЭТО (ETO) type, and the capacitors C_{16-30} of the БМ (BM) type.

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B012/B054

Номинальные значения сопротивлений и конденсаторов

4) Сопротивление	2) Значение сопротивления в код		3) Конденсатор	4) Значение конденсатора в мкФ
	Значение	кода		
R ₈ , 12, 21, 32, 40, 45, 56	0,51	C ₂		0,1
R ₁₀ , 19	1,0	C _{4, 6}		0,5
R ₁₁	1,5	C _{10, 11}		15,0
R ₁ , 3, 16, 17, 18, 20, 21	2,4	C _{9, 12, 13, 14, 15}		20,0
R ₉ , 13, 15, 23, 29, 31, 37, 33	3,0	C _{1, 8}		30,0
R ₄₅ , 47, 53, 55, 61	3,0	C _{3, 7}		50,0
R ₅ , 6	5,1	C ₅		80,0
R ₄	12,0			Значение конденсатора в пФ
R ₂	15,0			
R ₂₆ , 27, 34, 35, 42, 43, 50, 51, 58, 59	20,0		C ₁₆₋₃₀	1000
R ₁₄ , 25, 28, 33, 36, 41, 44, 49, 52	75,0			
R ₅₇ , 60	75,0			
R ₂₂ , 30, 38, 46, 54	100,0			

6) И р и м е ч а н и е. Все сопротивления типа УЛМ; конденсаторы типа МБМ; конденсаторы типа БМ, и конденсаторы типа БМ.

DUBYNIN, N.G.; SHAPOSHNIKOV, V.D.; IVANOVA, L.T.; SALISHCHEV, D.S.

Cutoff stoping. Trudy Inst. gor. dela Sib. otd. AN SSSR
no.3:155-175 '60. (MIRA 14:4)
(Stoping (Mining))

DUBYNIN, N.G.; SHAPOSHNIKOV, V.D.

Uprasing by means of boring deep blastholes. Trudy Inst. gor.
dela Sib. otd. AN SSSR no.3:176-187 '60. (MIRA 14:4)
(Shaft sinking) (Blasting)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

137 AND 7ND ORDERS PROCESSES AND PROPERTIES INDEX 1ND AND 4TH ORDERS

BC

B. 3-2

Acetone-butyl alcohol fermentation. V. K. KHRANOVICH (Dokl. Akad. Nauk SSSR, 1955, 15-15) - Fermentation of steamed and autoclaved maize by Champagne's bacteria (20-28 hr.) is described. Ch. Am.

COMMON ELEMENTS

COMMON VARIABLES INDEX

OPEN

MATERIALS INDEX

ASN-SLA METALLURGICAL LITERATURE CLASSIFICATION

E-2

137 AND 7ND ORDERS 137 AND 7ND ORDERS

COMMON ELEMENTS COMMON ELEMENTS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

LIST AND 2ND ORDERS PROCESSES AND PREPARATION 1ST AND 2ND ORDERS

CB

L. A. OLNEY

Nomenclature of dyestuffs as the principle for their standardization. V. G. SWAFOSHNIKOV. *Anilinokrasochhnaya Prom.* 2, No. 1, 5-13(1932).—A method for simplifying the Russian nomenclature of dyestuffs is proposed. **CIRAS BLANC**

ASB.3LA METALLURGICAL LITERATURE CLASSIFICATION

OPER MATERIALS INDEX

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1ST AND 2ND ORDERS 1ST AND 2ND ORDERS

1ST AND 2ND GROUPS

PROCESSES AND PROPERTIES INDEX

25

Determination of azo dyes by reduction with titanium trichloride. V. G. Shaposhnikov and G. K. Geizer. *Uspekhi Khimicheskoy Prom.*, 3, 445-53 (1963). — The method of determination of azo dyes by titration with $TiCl_3$ proved to be simple and convenient. Chas. Blanc

3rd and 4th Groups

ASSOCIATION OF METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND LETTERS

GROUPS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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CA

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Determination of water in the alcoholic fractions obtained in the manufacture of synthetic rubber (condensate and higher alcohols). V. G. Shaposhnikov and N. A. Kalinicheva. *Sintet. Kauchuk* 1934, No. 3, 33 8.— The detn. of water in condensate of the approx. % compn. EtOH 57.35, ether 3.00, aldehyde 4.00, hydrocarbons 3.00, BuOH 2.00, water 30.25 can be done with KF, either as a satd. soln. or as ignited salt. To the result there should be added 2% as a const. error. The precision is then within a 1% limit. To det. small quantities of water the CaCl₂ method can be used, in which case the condensate is treated with screened (20-mesh) CaCl₂ and the liberated C₂H₄ collected over NaCl soln. satd. with C₂H₄. This method gives high results in the presence of low-boiling compds. (bivinyll, pseudobutylene and high proportions of ether) because the reaction is exothermic and the vapors of low-boiling compds. are caught with the C₂H₄. The precision of the method is 1%. A. N. P.

... AND ...

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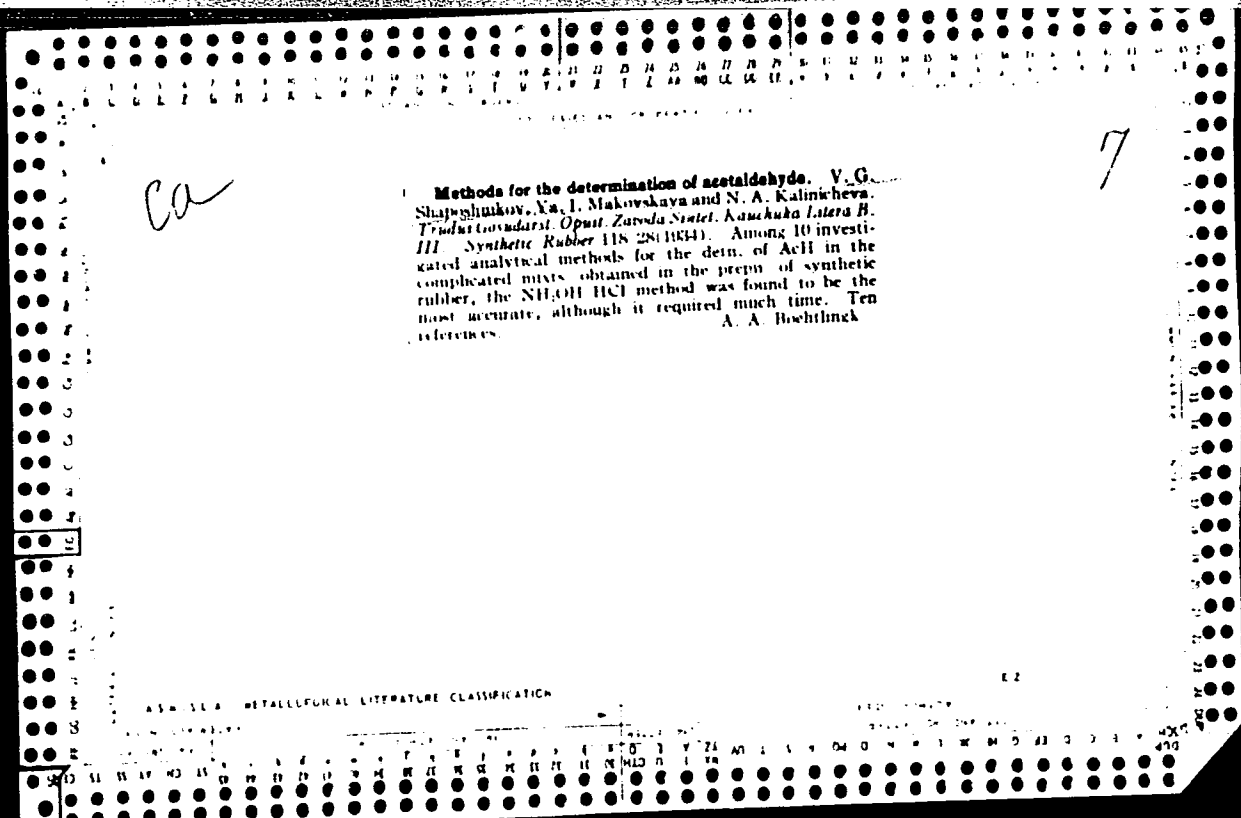
7

Determination of butyl and higher alcohols in the condensates and butyl fractions by salting out with calcium chloride. V. G. Shaposhnikov and S. E. Pinchuk. *Trudni Gosudarst. Opill. Zavoda Sintet. Kauchuka Litva B. III. Sintetich. Kautch. 104: 9 (1934)* - One hundred cc. of the sample contg. at least 10% BuOH is distil through a four-bulb dephlegmator, if light fractions are present. The remaining liquid which is composed of BuOH and higher alcs. is measured and 4 cc. pipetted off and salted out with 20 cc. of CaCl₂ soln. ($d_4^{20} = 1.16$) which was preliminarily satd. with BuOH. The operation is carried out in a glass stoppered buret. The sepl. layer contains BuOH, higher alcs. and some hydrocarbons, the latter are detd. by adding 35 vols. of H₂O and reading the sepl. hydrocarbon layer, which must be subtracted from the total alc. and other layer to obtain the amt. of alcs.

A. A. Bochtling

... METALLURGICAL LITERATURE CLASSIFICATION ...

LIST AND INDEX												LIST AND INDEX											
PROCESSES AND PROPERTIES INDEX																							
<p>3C</p>												<p>A-3</p>											
<p>Determination of the degree of unsaturation of the higher alcohols. V. G. SCHAFOSCHNIKOV and N. A. KALINITSCHEVA (Trud. Gosud. Op. Zav. Sintet. Kautschuka, 1934, B, III, 110-117).— Analyses were carried out by hydrogenation, with Pt and Ni catalysts, and by the Rosenmund, Br titrimetric method (cf. A., 1923, ii, 886; B., 1924, 23). CR. ABS. (c)</p>																							
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION												E-2											
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ca

7

Methods for the determination of acetaldehyde. V. G. Shapozhnikov, Ya. I. Makovskaya and N. A. Kalinicheva. *Trudy Gosudarst. Opus. Zavoda Sintet. Kautchuka Lening. III. Synthetic Rubber* 118 (28(1934)). Among 10 investigated analytical methods for the detm. of AcH in the complicated mixes obtained in the prepn. of synthetic rubber, the NH₂OH HCl method was found to be the most accurate, although it required much time. Ten references. A. A. Boehrlich

454.55.6 METALLURGICAL LITERATURE CLASSIFICATION

D	U	M	C	I	A	S	T	E	R

<p>Determination of ether in by-products obtained in the decomposition of alcohol to bvinyl. A. G. Shaposhnikov, N. A. Kalinicheva and N. Z. Andreev. <i>Tekhn. Gosudarst. Opst. Zavoda Sintet. Kautchuka, Litera B. 11. Synthet. Rubber 1935</i>, 189-94. Known methods of sep. ether from mixts. of hydrocarbons and alcs. are discussed. Conclusion: None gives satisfactory quantit. results with large amts. of ether. A. A. Bishulnick</p>	
<p>418 51 A METALLURGICAL LITERATURE CLASSIFICATION</p>	<p>1ST AND 2ND LETTERS</p>
<p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50</p>	<p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50</p>

PROCESS AND PROPERTY INDEX

30

Determining ethyl alcohol in the alcohol condensate obtained in the manufacture of synthetic rubber from alcohol. V. G. Shaposhnikov, M. I. Danilina and N. Z. Andreev. *Trudy Gosud. i. Opyt. Znash. SSSR, Ser. Khimika, Litera B. IV. Synthetic Rubber 1935, 191-2.* EtOH was sepd. from a mixt. of H₂O, aldehyde, ether, hydrocarbons, higher alcs., etc., in the following manner: 50 or 100 cc. of the condensate was dil'd. with an equal amt. of water, whereby the hydroalcs. were sepd. completely from the lower al. layer. The latter was slowly dist'd. from a Wurtz flask at 10 drops per min. The first fraction contains the major portion of ether (boiling below 70°), the second b. 70-100°. The first fraction contains also hydrocarbons left in the alc. soln. as an emulsion, and traces of alc. The second fraction contains alc., and it is shaken with KF, which is added till a small portion remains undissolved. After settling a few min. in a graduated cylinder (0.1-0.2 cc. subdivisions), the vol. is read (90% alc.) and converted into percentage of alc. The accuracy of this method is ± 2% alc. in the presence of not over 5% of ether and aldehyde. Ether has the tendency to give excessive contents of alc. BuOH raises the alc. content, although it can be est'd. by the excessive distill.

A. A. Bochtinsk

AS & SLA - METALLURGICAL LITERATURE CLASSIFICATION

1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950

PROCESSES AND PROPERTIES INDEX

1ST AND 2ND ORDERS

1ST AND 4TH ORDERS

25

The chemical composition of the cotton of the Soviet Union V. G. Shaposhnikov and V. M. Tikhvinskii *Mem. Inst. Chem. Tech., Acad. Sci. Ukrain. S. S. R. No. 2, 43 500m English 50 D (1937)* The av. percentage of cellulose was 95.75 in the cotton from Turkestan, Hintercaucasus and Ukraine. The av. pentosan, fat, protein, ash and moisture contents are also given
I. S. Joffe

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

E-2

MATERIALS INDEX

PROPERTY INDEX

1ST AND 2ND ORDERS

1ST AND 4TH ORDERS

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LL LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UQ UR US UT UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VQ VR VS VT VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ

1ST AND 2ND ORDERS PROCESSES AND PROPERTIES INDEX 3RD AND 4TH ORDERS

cd 25

Reversibility of the process of moistening and drying fibers under atmospheric conditions. V. G. Shaposhnikov. *Mem. Inst. Chem. Tech., Acad. Sci. Ukrain. S.S.R. No. 3*, 119-38 (in Russian 138) (in English 140) (1937)
 —The moisture of natural and of artificial fibers depends only upon the humidity of the air; changes in the latter always result in corresponding changes in the fibers within the limits of exptl. error. I. G. Tolpin

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS 3RD AND 4TH ORDERS

OPEN MATERIALS INDEX MATERIALS INDEX MATERIALS INDEX

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46

1ST AND 2ND GROUPS PRECESSES AND PROPERTIES INDEX 1ST AND 2ND GROUPS

18 25

Effect of method of cleaning on the moisture content in cotton. V. G. Shaposhnikov. *Mem. Inst. Chem. Tech., Acad. Sci. Ukrain. S. S. R.* No. 5, 3-16 (in Russian 16-19, in English 10-22) (1937). - The moisture content of hand-cleaned cotton samples is independent of the cotton variety, the time and place of cotton picking and meteorological conditions. It is sufficiently const. (0.5-7.1% of the abs. dry cotton wt.) and is due to cleaning conditions. B. Z. Kamich

Common Literature

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ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND GROUPS

1ST AND 2ND GROUPS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

25

Effect of atmospheric conditions on the moisture content of cotton. V. G. Shaposhnikov and B. K. Luganov. *Mem. Inst. Chem. Tech. Acad. Sci. Ukrain. S. S. R.* No. 5, 23-45, 48-57 (in Russian 46, in English 47) (1937). The dependence of cotton-fiber moisture upon the various atm. conditions in different localities of the Soviet Union was detd. Methods for regulating the moisture content in cotton fibers during storage are given. B. Z. K.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 4TH COLUMNS PROCESSES AND PROPERTIES INDEX 12D AND 4TH COLUMNS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Application of the Kjeldahl method to the quantitative analysis of nitrogen in dyestuffs. V. G. Shaposhnikov and B. D. Chebotarev. *Mem. Inst. Chem. Tech. Acad. Sci. Ukrain. S. S. R.* No. 5, 59-80 (in Russian 80-7, in English 87-80(1937)). The Kjeldahl method may be used to det. small amts. of N in dyes on fibers provided the following precautions are observed: Reagents and materials used must be tested for N, the reacting mass should not be raised to the b. p., distn. of NH₃ should last at least 1 hr. Glass dissolved during the distn. should be detd. Titration should be done iodometrically with P₂O₅ as a catalyst. Investigations are being conducted to improve the method. B. Z. Kamich

ASB-35.4 METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 4TH COLUMNS 12D AND 4TH COLUMNS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

PROCESSES AND PROPERTIES INDEX

Sorption processes during moistening and drying of cellulose fibers. V. G. Shaposhnikov and V. A. Lepetov. *Mem. Inst. Chem. Tech.* No. 5, 80-113 (in Russian 114-17, in English 117-21)(1937); cf. C. A. 31, 8204⁴.— Air-dried natural and mercerized cotton and artificial cellulose fibers were completely satd. with water vapor. After complete satn. they had 13.69, 20.54 and 24.95% water compared with an original moisture content of 6.8, 1.78 and 12.60%, resp. The time required for complete satn. was 167.5, 185.5 and 220.0 hrs., resp. The sorption processes follow a parabolic curve. The intensity of adsorption is the same for mercerized and artificial types. R. Z. Kamich

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

AUCHE INDEX

MATERIALS INDEX

COMMON ELEMENTS

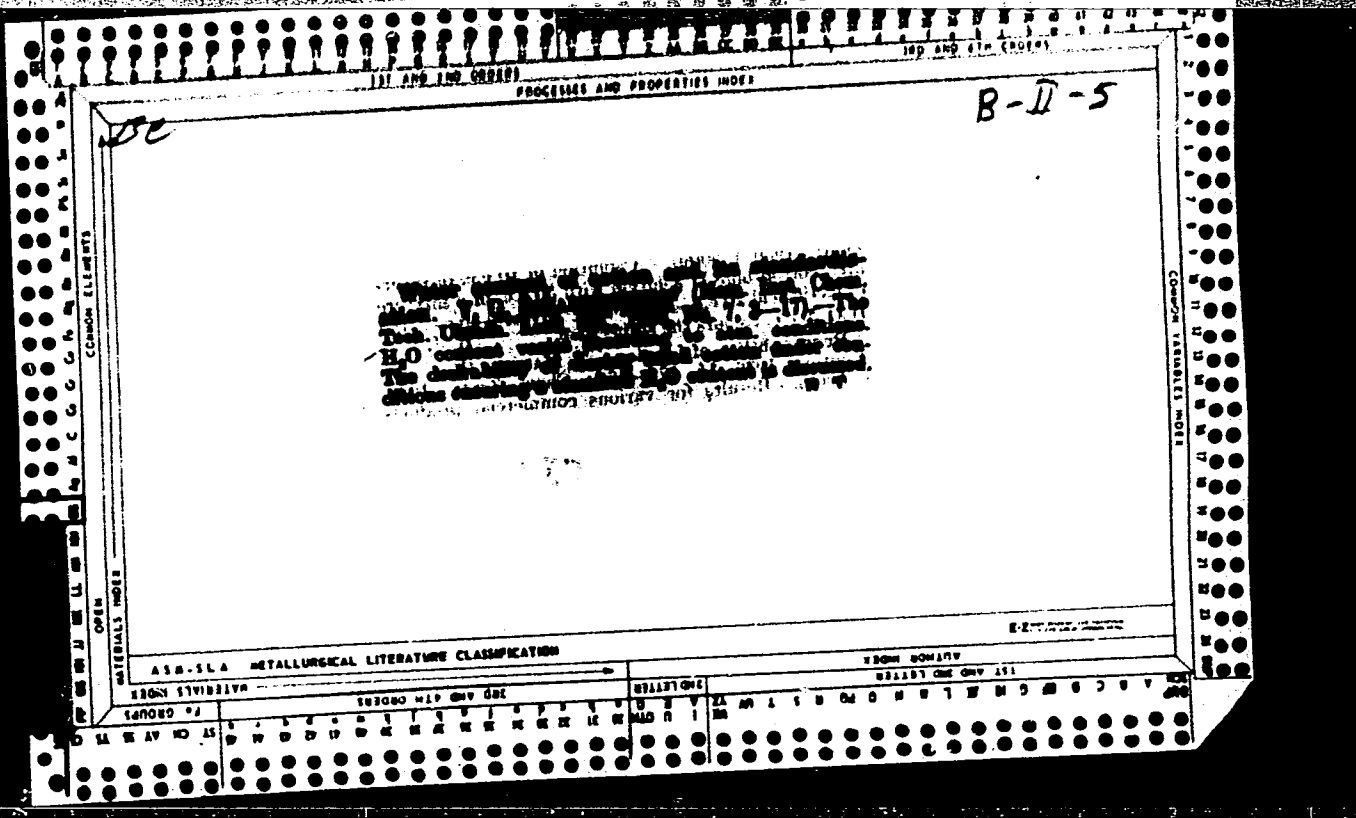
COMMON MATERIALS

1ST AND 2ND CODES

180 AND 4TH CODES

1ST AND 2ND CODES

180 AND 4TH CODES



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ct

Sorption properties of cellulose. V. G. Shaposhnikov. *Bull. acad. sci. U. R. S. S., classe sci. chim.* 1940, 427-45 (in English, 440).—The sorption properties of mercerized cotton, natural Egyptian cotton and rayon were investigated. From the natural cotton, impurities were removed by extg. in turn with water, alc. and ether; this leaves a sample with about 0.1% ash. The method of mercerization consisted in stirring 10 g. cotton in 600 cc. pure 30° Bé. NaOH for 4 min. and 4 operations of pressing the sample, washing with water and centrifuging to neg. test for NaOH. This leaves about 6% fibers unmercerized, as observed under the microscope. After repeating this operation with a 9-min. treatment and 2-min. washings, the unmercerized fibers amounted to 1%. The artificial fibers were warmed with water to an ash content of 1.06%. Through these samples kept in U-tubes, dry or moist air was passed. The natural air-dried cotton contained 6.85% moisture and when completely satd., 13.60%; mercerized cotton, 9.78 and 20.54%, resp.; rayon, 12.61 and 24.95%. In earlier expts., mercerized cotton was shown to adsorb 40% more dye than purified natural cotton. Mercerization results in swelling and loosening of the fiber, increasing its surface and adsorption properties 1.5 times. Water vapor is adsorbed more than liquid water. Complete satn. of air-dried natural cotton with moisture required 107.6 hrs.; mercerized cotton, 185.6 hrs.; rayon, 220.0 hrs. The sorption processes do not proceed uniformly, but are gradually retarded, as shown by graphically reported data. Mercerized cotton and rayon show a similar rate of adsorption, but natural cotton has a considerably higher rate. Upon regeneration from soln., cellulose takes up moisture comparatively uniformly. Normal moisture content of 8 types of fibers, including cotton, silk, flax and wool, in the neighborhood of Kiev is on the av. 2% higher than that required by the specifications established at Turin in 1874. Diagrams show that it seasonally fluctuates around the av. of 13.56%, the lowest figures being observed for May and June and the highest for December and January. An attempt is made mathematically to express this fluctuation for the climate under observation. J. G. Tolpin

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METALLURGICAL LITERATURE CLASSIFICATION

A 58.51.A

E-277

TRIGUBENKO, Mikhail Grigor'yevich; SHAPOSHNIKOV, Vasilii Grigor'yevich;
TOMLYANOVICH, D.K., red.; AVRUSHCHENKO, R.A., red. Izd-vo; SHLIKHT,
A.A., tekhn.red.

[Maintenance and repair of substations of street car and trolley
buslines; Eksploatatsiia tiagovykh podstantsii tramvaia i trollei-
busa. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1959. 442 p.

(MIRA 12:11)

(Electric substations)

ZUBRITSKIY, Boris Semenovich; SHAFOSHNIKOV, V.G., red.; OTOCHEVA,
M.A., red. izd-va; KHENOKH, E.M., tekhn. red.

[From practices of the operation of traction substations in
Sverdlovsk] Iz opyta ekspluatatsii tiagovykh podstantsii g.
Sverdlovska. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1961.
42 p. (MIRA 15:4)

(Sverdlovsk--Electric substations)
(Sverdlovsk--Local transit)

USSR

✓ Reversibility of moisture states of textile fibers. V. G. Shaposhnikov. *Ukrain. Khim. Zhur.* 16, 276-82 (1950).
Expts. with natural cotton, mercerized cotton, and artificial cellulose fibers showed that natural cotton fibers reached complete satn. after 167.5 hrs. (13.7% H₂O), mercerized cotton fibers after 185.5 hrs. (20.5% H₂O), and artificial cellulose fibers after 220 hrs. (35% H₂O). Under atm. conditions, the moisture content of fibers depends on the relative humidity and temp. of the air. In an app. constructed by S. in 1934, various types of fibers (wool, cellulose, and protein fibers) were repeatedly moistened and dried in an atm. having a definite air humidity. It was found that moistening and drying of the fibers are reversible processes. Sonva G. Machelson

SHAPOSHNIKOV, V. G.

Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
General and Physical Chemistry

✓ Corrections in Russian chemical terminology and language. V. G. Shaposhnikov. *Ukrain. Khim. Zhur.* 16, 692-702(1950)(in Russian).—Vigorous protest is sounded against the common practice of using foreign words, bourgeois terminology, ambiguous titles, and un-Russian word endings in the Russian chem. literature. Such admirable leaders of Russian chemistry as Mendeleev, Menshutkin, and Butlerov coined few new words and used them sparingly.
Werngr. Jacobson

SHAPOSHNIKOV, V. G.

Shaposhnikov, Vladimir, G.: Organicheskie krasyashenie
veshchestva (Organic Dyes); 4th ed. Kiev: Gosudarst.
Izdatel'stvo Tekh. Lit., Ukr. S.S.R. 1953. 518 pp.

2
AA
S

AUTHOR: None given.

73-2-22/22

TITLE: Book Review.

PERIODICAL: "Ukrainskiy Khimicheskiy Zhurnal" (Ukrainian Journal of Chemistry), Vol.23, No.2, March-April, 1957, pp.276-279 (USSR).

ABSTRACT: Author: V.G.Shaposhnikov.
"Organic Dyestuffs" (Organicheskiye Krasnyashchiye Veshchestva).
Published Kiev, 1954, pp.519.
Reviewed unfavourably by S.I.Burmistrov.

AVAILABLE: Library of Congress

Card 1/1

SHAPOSHNIKOV, V.G., PORAY-KOSHITS, B.A., redaktor; DENISENKO, L., redaktor;
VOYER, M., tekhnicheskiiy redaktor

[Organic dyestuff] Organicheskie krasilashchie veshchestva. 4-e
perer. izd. Pod red. B.A.Porai-Koshitsa. Kiev, Gos. izd-vo tekhn.
lit-ry USSR, 1955. 518 p. (MIRA 8:7)
(Dyes and dyeing--Chemistry)

SHAPOSHNIKOV, Vasilii Grigor'iyevich; TREGUBENKO, M.G., red.; PIYASHEVA,
M.V., red. izd-va; KHENOKH, F.M., tekhn. red.

[Sealed mercury-arc rectifiers; experience in the operation of
type RM-500 VS and RMV-25x6 rectifiers] Zapaiannye rtutnye vy-
priamiteli; opyt ekspluatatsii vypriamitelei tipov RM-500 VS i
RMV-250x6. Moskva, Izd-vo MKKh RSFSR, 1962. 53 p.

(MIRA 16:3)

(Mercury-arc rectifiers) (Electric substations)

SHAPOSHNIKOV, V.I.

Statistical and clinical data on skin cancer. Zdrav. Kazakh. 21 no.10:
36-41 '61. (MLA 15:2)

1. Iz Kzyl-Ordinskogo oblonkodispensera (glavnyy vrach - A.S. Alekseyev).
(SKIN__CANCER)

SHAPOSHNIKOV, V.I. (Krasnodar, prospekt Matrosova, d.89)

Characteristics of esophagus cancer occurrence in Kzyl-Orda
Province. Vop. onk. 10 no.1:72-73 '64.

(MIRA 17:11)

1. Iz Kzyl-Ordinskogo oblastnogo onkolgicheskogo dispansera
(glavnyy vrach - A.S. Alekseyev).

IVANICHENKO, I.F.; SHAPOSHNIKOV, V.I.

Cylindroma of the scalp. Vest. dermat. i ven. 38 no.5:84-85 My
'64. (MIPA 18:12)

1. Kafedra patologicheskoy anatomii (zav. - doktor med.nauk N.V. Onopchenko) Kubanskogo meditsinskogo instituta imeni Krasnoy Armii i Krasnodarskiy krayevoy onkologicheskii dispanser (glavnyy vrach M.G.Iazarev). Submitted May 5, 1963.

VALINOVSKIY, A.A.; GOLUBTSEVA, M.V.; SHAPOSHNIKOV, V.I.

Effect of tissue implantations on the relationship of inhibition and excitation in the central nervous system of rats. Uch. zap. UBIGB 4:160-175 '58. (MIRA 12:6)

1. Ukrainskiy eksperimental'nyy institut glaznykh bolezney i tkanevoy terapii imeni akademika V.P. Filatova.

(TISSUE EXTRACTS) (NERVOUS SYSTEM)

... ..

... .. (MIA 12:8)

... ..

PERKOWSKI, M. A., SHAW-WATSON, M. E.

Eye-Disease and defects

Letter to the editor. Vest oft., 31, No. 3, 1952.

9. MONTHLY LIST OF RUSSIAN ACCESSIONS, Library of Congress. August 1952. Uncl.

S/117/59/000/012/002/003
A004/A002

AUTHOR: Shaposhnikov, V. K., Engineer

TITLE: The Practice of Strengthening Shafts by Roller Strain Hardening

PERIODICAL: Mashinostroitel', 1959, No. 12, pp. 12-14

TEXT: The author points out that torsion shafts, being subjected to abruptly changing torques, have to be given a high fatigue strength in order to ensure their durability. Therefore, these shafts are made of high-alloyed "45XHMΦA" (45KhNMFA) grade steel, heat-treated up to a hardness of $R_C = 40-48$. However, owing to the heat treatment, a decarbonized layer originates which lowers the fatigue strength. Tests which were carried out at the Khar'kov Plant imeni Malyshev showed that shafts, subjected to subsequent grinding sustained only 29,000 operation cycles, while unground shafts withstood 50,000 cycles on the average. A considerable increase in fatigue strength (up to 400,000 cycles) was achieved by strain hardening the shaft surface with the aid of rollers. The author describes a hydraulic rolling device, driven by an electric motor. The device is installed on a converted surface grinding machine. The machine performs 40 double-motions per minute and permits the rolling of the splined part of

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S/117/59/000/012/002/003
A004/A002

The Practice of Strengthening Shafts by Roller Strain Hardening

shafts over a length of 160 mm and a diameter of 90 mm, the shafts having a length of 1.2 m. In order to avoid a galling of the rollers and scores on the shaft surface, the shafts are carefully cleared from sand and dust, while the contact spots of shaft and rollers are amply lubricated. At small feeds of up to 0.5 mm/rev, a high surface finish is obtained with one operation. Laboratory tests of non-strengthened shafts and those strengthened by rolling showed that the hardness of the latter increased on the bottom of the splines by 60-80 and on the stem by 20-40 units of the Brinell scale. By this method the surface hardness is increased to the magnitude of the core hardness. There are 2 figures and 2 Soviet references.

Card 2/2

ARANZON, V.A.; SHAPOSHNIKOV, V.K.

Keyless joints of parts with conical sectional clamping rings.
Trakt. i sel'khoz mash. 30 no.11:41-42 N '60. (MIRA 13:12)
(Couplings)

NERUCHEV, S.G.; SHAPOSHNIKOV, V.M.

Studying the tectonics of central and eastern Ciscaucasia using
the morphometrical method. Trudy VNIGNI no.32:260-271 '60.

(MIRA 14:7)

1. Stavropol'skiy filial Groznenskogo nauchno-issledovatel'skogo
neftyanogo instituta.

(Caucasus, Northern--Geology, Structural)

GOL'BRAYKH, I.G.; ZABALUYEV, V.V.; MIRKIN, G.R.; SHAPOSHNIKOV, V.M.

Methods for studying the tectonics of closed areas. Geol.nefti
i gaza 7 no.2:44-49 F '63. (MIRA 16:2)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologoraz-
vedochnyy institut i Stavropol'skiy filial Groznenskogo nauchno-
issledovatel'skogo neftyanogo instituta.
(Geology, Structural)

SHAPOSHNIKOV, V.

Some problems in party education. Grazhd.av. 14 no.9:13-14 S '57.

(MIRA 10:10)

1. Zamestitel' nachal'nika Politicheskogo upravleniya Glavnogo
vozdushnogo flota.

(Communist education)

SOV/84-58-4-6/48

AUTHOR: Shaposhnikov, V.. Chief, Propaganda Department

TITLE: Raising the Ideological Level of Party Propaganda (Neuklonno povyshat' ideynny uroven' partiynoy propagandy)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 4, pp 6-8 (USSR)

ABSTRACT: The article is both a criticism of "dogmatism" in political propaganda work and a set of directives on how to relate the theoretical postulates of Marxism to everyday problems of production. A higher standard of training of Party propagandists is advocated as the basic remedy. Participation of personnel in night courses in Marxism-Leninism in the universities is recommended. Seminars and conferences of propagandists on actual problems, as well as conferences with production managers and operators, are considered essential for promotion of professional efficiency. Meetings of leading aviation workers with the representatives of the Area Economic Councils are recommended as a means of ensuring better cooperation and profitablness of

Card 1/2

SOV/84-58-4-6/48

Raising the Ideological Level of Party Propaganda

general economic activity. The text is accompanied by two photographs: one shows I. Orlovets, a Squadron Commander in the Moscow Administration, who is said to study Marxist and Leninist theories, the other shows the preparation of an issue of a wall newspaper by V. Yermishina, a personnel inspector, and by S. Perov, a pilot.

ASSOCIATION: Politicheskoye upravleniye GVF (Political Directorate of the GVF)

1. Communism--USSR
2. Propaganda

Card 2/2

SHAPOSHNIKOV, Vitaliy Nikolayevich

[Aviation in the Soviet national economy] Aviatsiia v narodnom
khoziaistve SSSR. Moskva, Znanie, 1955. 31 p. (Vsesoiuznoe
obshchestvo po rasprostraneniu politicheskikh i nauchnykh znani.
Ser. 4, no.19) (MIRA 10:4)
(Aeronautics)

SHAPOSHNIKOV, V.

A year of successful work. Grazhd.av. 14 no.2:5-6 F '57.
(MLRA 10:5)

1. Nachal'nik otдела propagandy i agitatsii Politupravleniya Grazhdan-
skogo vozdushnogo flota.
(Aeronautics, Commercial)

SHAPOSHNIKOV, V.

Rising to the tasks of the present. Grazhd.av. 16 no.1:6-8 Ja '59.
(MIRA 12:3)

1. Nachal'nik otдела propagandy i agitatsii Politicheskogo upravleniya
Grazhdanskogo vozdushnogo flota.
(Aeronautics, Commercial)

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Lactic acid. V. N. SHAPOSHNIKOV. Russ 60, Sept. 15, 1924. Synthetic sugar-contg. media are fermented by means of the Delbrück bacillus, with plant globulins as the source of nitrogenous nutrients for the organism. The source of globulin may be sunflower flour, bean flour or sunflower and hempseed husks

PROCESSES AND PROPERTIES INDEX

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Acetone-butyl fermentation. V. N. Shaposhnikov, A. Ya. Manteifel and F. M. Chistyakov. *Byull. Nauch. Issledovatel. Khim.-Fizm. Inst.* 1930, 45 8; cf. C. A. 27, 805. The fermentation proceeds at a great velocity; the gas sepn. after reaching a max. ceases; the acidity increases uniformly in the first few hrs. (requiring 4.5-5 cc. of 0.1 N alkali per 10 cc. of the fermenting liquid); it becomes almost stationary (decreasing slightly to a certain magnitude) during the rest of the process. These phenomena were observed under normal operating conditions, e. g., when a sufficiently fine grain of flour, a properly prepd. mash, strong bacteria and a rapid cooling of the mash after prepn. were used. The fermentation process can be characterized as follows: Acids accumulate first and acetone and BuOH appear later. The p_H of the freshly prepd. mash is 6.8 and that toward the end of the process 5.4. The fermentation sets in with an appreciable diln. and hydrolysis of the starch while the sugar content reaches 1% (by vol.) in the middle of the process. The starch disappears almost entirely in 10-12 hrs. after the start of the process, while the amt. of sugar remains stationary almost throughout the entire process. There is a possibility that hydrolysis proceeds in steps, the first steps being apparently more rapid than the succeeding ones. A. A. B.

A. A. B.

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Acetone-butyl alcohol fermentation. V. N. SHAPOSHNIKOV, A. YA. MANTRIPAL AND F. M. CHISTYAKOVA. *Byull. Nauchno-Issledovatel. Khim.-Farm. Inst.* 1931, 75-7.—Expts. described in *C. A.* 26, 5607, on being repeated on a semi-mfg. scale, showed that the highest yields of acetone through fermentation of corn flour were attained with a 8.6% concn of flour, amounting to 7.3%. A higher concn of flour gives a relative higher yield; thus when the amt of flour is doubled the yield of acetone increases only 30%. In this process the consumption of starch is parallel with its hydrolysis, the fermenting liquid always contg. sugar. Fermentation carried out with high concn. of flour always shows the same final concn. of sugar, i. e., 0.18-0.28%, in spite of the fact that starch is entirely consumed, making the increase of the yield of acetone appear out of proportion to the amt of starch consumed. This fact explains a relative decrease of the acetone yield referred to flour.

A. A. BOHITLINOK

ASTM 11A METALLURGICAL LITERATURE CLASSIFICATION

17C

ACETONE-BUTYL ALCOHOL FERMENTATION IN MOLASSES. V. N. Shaposhnikov, A. Ya. Manteffel, N. D. Iersalimskii, K. I. Zykova and M. N. Bekhtereva, *Microbiology (U. S. S. R.)* 8, No. 1, 38-55(1930); *Khim. Referat. Zhur.* 1930, No. 10, 51. To det. the possibility of the utilization of molasses as a raw material for acetone-butyl alc. fermentation, the medium was inoculated with the *Clostridium acetobutylicum* (2%) culture. The carbohydrates were detd. according to Bertrand, the total amt. of solvents by salting out, acetone according to Messinger-Goodwin, C₂H₅OH and EtOH by oxidation, pH by the quinhydrone method, and acidity by titration with a 0.1 N base. Purification by boiling with superphosphate and activated charcoal and addn. of N nutrients (gluten, proteins of string beans, press cakes, etc.) produced neg. results. Addn. of phosphates increased the yield of acetone, but slowed down the fermentation considerably. Fermentation proceeds normally only at small concns. of molasses. Optimum results are obtained with a mixt. consisting of 4.5% of molasses and 0.1% of corn flour. Addn. of superphosphate permitted reduction of the percentage of the flour, but it increased the time of fermentation. The yield of acetone was not decreased thereby.

W. R. Henn

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS PROCESSES AND PROPERTIES INDEX 3RD AND 4TH ORDERS

pa

Problems of microbiology in the intensification of fermentation processes. V. N. Shapovalov. *Microbiology (U. S. S. R.)* 8, No. 3-4, 227-85 (1939); *Khim. Referat. Zhur.* 1939, No. 12, 37.—A discussion of the biochemistry of fermentation processes and an attempt to find means for changing their course for the production of desired products. W. H. Henn

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OPEN MATERIALS INDEX

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CA

Acetone and butyl alcohol. V. N. Shaposhnikov and M. N. Bekhtereva. Russ. 57,855, Aug. 31, 1940. Starch-contg. material is fermented in the usual manner, and BuOH and Me₂CO are continuously removed by means of a solvent immiscible with H₂O, e. g., castor oil.

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CA 16

Chemistry of acetone-ethylc fermentation in the light of recent data. V. N. Shaposhnikov. *Microbiology (U. S. S. R.)* 9, 344-54(1940). A review and favorable discussion of Kozlova's data (cf. preceding abstr.). 20 references. F. Laanes

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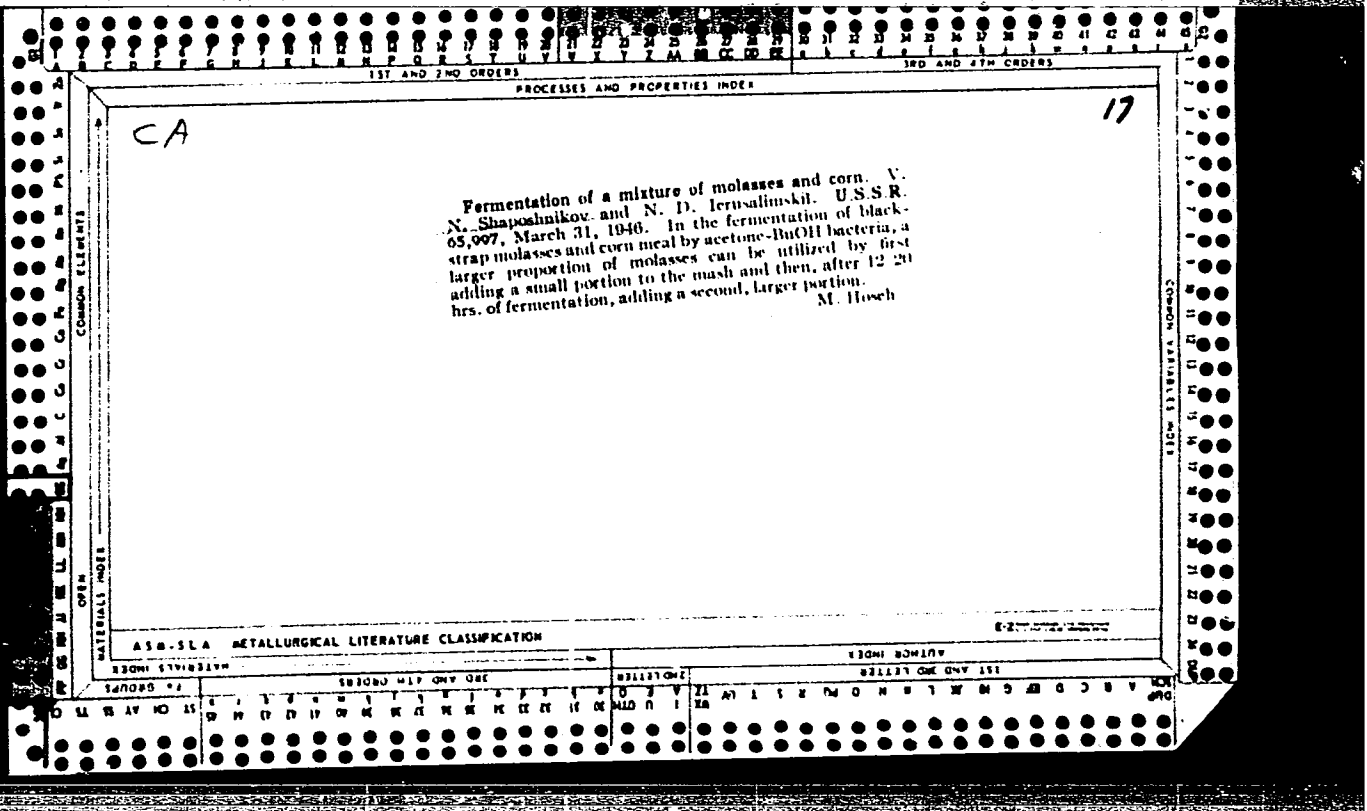
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Micro-Organisms," Mikrobiologiya, 1942, No. 1-2, pp. 1-14, 1944.
No. 1, pp. 1-22

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"Role of Physiological Characteristics in the Taxonomy of Microorganisms, II,"

Mikrobiologiya, Vol 13, No 1, 1944



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Technological Microbiology, Moscow 1948.
(Tekhnicheskaya mikrobiologiya)

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42170. ШАПОШНИКОВ, В. Н., ТАУСОВ, Т. А. - Nekotoryye dannyye po biokhimiicheskoj kharakteristike proteinobakterij. - V ogl. 1-y avt: V. N. Shaposhnikov. Mikrobiologiya, 1948, 77: 6, c. 419-24.

SO: Letopis' Zhurnal'nykh Statey Vol. 47, 1948

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11 C

CA

Observations on the biochemical properties of proteolytic bacteria. V. N. Shaposhnikov and T. A. Tauson. *Mikrobiologiya* 17, 419-24(1948). - Glucose (I) stimulates decarboxylation of casein hydrolyzates (II) by *Bac. fluorescens liquefaciens* (III) at pH 7.1-7.7, but inhibits decarboxylation by *Protens vulgaris* (IV). Apparently amino acids furnish mainly only N to III, while I furnishes energy and C; but amino acids furnish N and C, while I supplies mainly only energy, to IV. In 5-day tests with 40 cc. of medium contg. II and 0, 1, 3 or 5% I, cell growth increased for III (128, 148, 220, 290 mg.) but decreased for IV (136, 48, 48, 54 mg.). Yield of NH₃ was 30, 24, 21, 20 mg. for III, and 10.0, 4.4, 3.0 mg. and traces for IV.

Julian F. Smith

ASB-35-A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

1ST AND 2ND ORDERS

1ST AND 2ND ORDERS