

Some New Nucleon Magic Numbers

SOV/56-34-5-42/61

system of the concerned nucleus. The properties of the nuclei with $N = 30$, especially in the nuclei of iron and nickel tend to show that the value of 30 neutrons is a magic number. Rather characteristic phenomena also are observed after the filling up of a configuration to 42 or 60 protons or neutrons. The filling-up of the shell terms $5g_{9/2}$ and $4d_{5/2}$ begins quite normally; but as soon as the number of the correspondent nucleons surpasses the value 60 the nucleus loses its stability. As this occurs with 61 protons as well as with 61 neutrons it is a characteristic feature connected with this number. Thus it is very likely that the configurations of 30 neutrons, 42 or 60 protons or neutrons have certain magic properties. These configurations do not agree with the shell configurations and the nature of their stability might well be a quite different one than corresponds with the completion of the nucleus shell. Probably the first enumeration of these magic numbers is not complete yet. There are 2 tables and 2 references.

SUBMITTED:
Card 2/3

April 23, 1957 (initially), and February 6, 1958 (after revision)

Some New Nucleon Magic Numbers

SOV/56-34-5-42/61

1. Nuclei--Properties
2. Neutron capture
3. Nuclear spins
4. Neutron cross sections

Card 3/3

VAYSMAN, I.B.

Structural precision of potentiometer-type computers.
Izv. vys. ucheb. zav.; prib. 7 no.1:78-86 '64.

(MIRA 17:9)

1. Leningradskiy mekhanicheskiy institut.

ACCESSION NR: AP4018998

S/0146/64/007/001/0078/0086

AUTHOR: Vaysman, I. B.

TITLE: Structural accuracy of potentiometric computing devices

SOURCE: IVUZ. Priborostroyeniye, v. 7, no. 1, 1964, 78-86

TOPIC TAGS: computer, computing device, potentiometric computing device, computing device accuracy, potentiometric multiplication circuit, potentiometric addition circuit, structural error

ABSTRACT: Theoretical considerations concerning errors in the multiplying circuits and adders constituting potentiometric computing devices are offered; circuit imperfections are assumed to be the source of such errors. Regarding the variable parameters (0 to 1) as random values and structural errors as their function, general formulas for the expectation and dispersion of the structural error in a potentiometric circuit are set up. Three types of error are taken into

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ACCESSION NR: AP4018998

consideration: error in the potentiometer resistance, error due to nonlinearity of the transfer function, and that due to variations in the supply voltage. A few design formulas are derived, and their application is claimed to be "particularly expedient in carrying out calculations by means of electronic computers."
Orig. art. has: 3 figures and 35 formulas.

ASSOCIATION: Leningradskiy mekhanicheskii institut (Leningrad Mechanical Institute)

SUBMITTED: 05Mar63

DATE ACQ: 23Mar64

ENCL: 00

SUB CODE: CP

NO REF SOV: 003

OTHER: 000

Card 2/2

AUTHOR: Vayanan, I. B. SOV/119-58-8-4/16

TITLE: An Electrodynamic Apparatus for Multiplication and Division
(Elektrodinamicheskoye ustroystvo dlya umnozheniya i deleniya)

PERIODICAL: Priborostroyeniya, 1958, Nr 8, p. 16. (USSR)

ABSTRACT: The electrodynamic device consists of two independent electrodynamic multiplying parts. Each of these parts consists of an immobile electromagnet with air gap and a mobile frame. The frames are connected with each other by means of a lever in connection with which they form the mobile system. On this lever also the mobile part of the transducer is located. The signals of the transducer reach the input of the amplifier acting upon the current passing through the first frame and the load resistance R . The input amounts which are to be multiplied must be introduced in form of proportional currents i_2 and i_4 , on which occasion they pass through frame 3 and the windings of the electromagnet 4. The apparatus carries out multiplication and division according to the formula

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SCV/119-58-8-4/16

An Electrodynamic Apparatus for Multiplication and Division

$$i_1 = F \cdot \frac{i_2 \cdot i_1}{i_2}$$

where F denotes a coefficient depending on the kind of construction. It was shown by a static test that, in the case of a modification of the current i_2 and i_1 within the range of ± 30 mA, of the current i_2 from 20 to 40 mA and from -20 to -40 mA, and of the resulting current i_1 within a range of ± 20 mA, an accuracy of 1,5 % can be attained by means of this apparatus. If the current i_2 is reduced to 10 mA, the error limit amounted to 2 - 4 %. An increase of up to 30 - 40 mA with respect to the current i_2 led to a not damped oscillation of the current i_1 with a frequency of 60 cycles. There are 2 figures and 4 references, which are Soviet.

1. Mathematical computers--Design
2. Electromagnets--Applications
3. Mathematical computers--Circuits
4. Mathematical computers--Operation
5. Mathematical computers--Applications

Card 2/2

VAYSMAN, Itskhok Beniaminovich; GORUKHIN, V.M., red.

[Automatic control systems for the organization of
complex operations] Avtomatizirovannye sistemy organi-
zatsii slozhnykh robot. Leningrad, 1964. 28 p.
(MIRA 18:1)

VAJSMAN, I.D.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1684
AUTHOR FAJNERMAN, I.D., VAJSMAN, I.D.
TITLE On the Problem of the Modification of the Capacity of a Stack of
Condenser Paper when being pressed.
PERIODICAL Žurn.techn.fis, 26, fasc.11, 2493 - 2497 (1956)
Issued: 12 / 1956

The present work discusses the results of the preliminary investigation of the modification of the capacity of stacks of different sorts of condenser paper pressed at varied conditions. The results obtained supply information concerning the character of the deformation of the stack of paper, and, above all the setting up of standards for the sufficient pressing of the stack of paper when determining the dielectric characteristics and the thickness of the paper. The degree of compression of the paper stack can be estimated not only from the modification of its thickness but also from the modification of its capacity in the case of different compression conditions. On this occasion the second method mentioned is the more sensitive. Here the pressure dependence of the capacity of a stack of paper was investigated for a number of types of condenser paper.

The stack of paper was laid between two brass electrodes. Capacity was measured according to the usual bridge scheme by means of an electric indicator in the diagonal of the bridge. Pressure on the upper electrode was increased while capacity was being measured from 0,8 to 8,3 kg, after which it was again reduced to 0,8 kg. Initial pressure amounted to 0,8 kg.

If pressure is increased to more than 0,8 kg, the air between the leaves of paper

Žurn.techn.fis, 26, fasc.11, 2493 - 2497 (1956)

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PA - 1684

is somewhat displaced, and therefore the stack is somewhat condensed. Besides, the surfaces of the paper sheets are elastically deformed by touch. By being pressed together the compression of the stack increases. When pressure was diminished from 0,3 to 0,8 kg, the capacity of the stack was reduced. Because of the existence of a "remanent deformation", a sort of "hysteresis curve" is obtained. To a pressure of 100g/cm² there corresponds a capacity modification of from 9 to 11%. A standard pressure of from 0,4 to 0,5 kg/cm² can be recommended.

Conclusions: The method of examining the capacity modification of the paper-air system (as a function of its compression) is very sensitive and furnishes positive results. On the occasion of the compression of the paper stack, a hysteresis of capacity occurs, and in the experimental data obtained for some sorts of condenser paper make it possible to determine a mathematical expression for the dependence of the capacity hysteresis of the stack on the pressure brought to bear upon it. On the basis of the investigation discussed here, it is possible to recommend a standard pressure of from 0,4 to 0,5 kg/cm² (with a permissible error of 2% on the occasion of the modification of capacity). If a smaller error is assumed standard pressure must exceed 0,5 kg/cm².

INSTITUTION:

FURMAN, M.S., doktor khim.nauk; GOL'DMAN, A.M., kand.nauk; OLEVSKIY,
V.M., kand.tekhn.nauk; RUCHINSKIY, V.R.; Prinsipali uchastiye:
ROZENFEL'D, I.M.; LAVRICHENKO, A.A.; VAYSMAN, I.L.;
ZHITNIKOVA, N.K.

Catalytic oxidation of cyclohexane by air under pressure
by the continuous method. Khim.prom. no.4:265-272
Je '60. (MIRA 13:8)
(Cyclohexane) (Oxidation)

3811. VAYSMAN, I. R. and ROVENSKIY, A. S.

Organizatsiya konveyera vysokoy proizvoditel'nosti. (Obuvnaya fabrika "Parizhskaya Kommuna", Moskva). Legkaya prom-st', 1949, no. 11, s. 12-24

VAYSMAN, I.Sh. (Gur'yev)

Morphology of cardiac lesions in tuberculosis. Arkh. pat. 17 no.4:
64-67 O-D '55. (MLRA 9:2)

1. Iz mediko-sanitarnoy chasti ob'yedineniya Kazakhstanneft'
(glavnyy vrach A.Sh. Shakinov, prozektor I.Sh. Vaysman)
(TUBERCULOSIS, pathology;
heart)
(HEART, in various diseases,
tuberc.)

PSHENICHNOV, A.V.; NOSKOVA, Ye. G.; RAYKHER, L.I.; VAYSMAN, I. Sh.

Certain characteristics of post-infection immunity in typhus following re-infection of guinea pigs in various receptor zones. Zhur. mikrobiol. epid. i immun. 29 no.10:99-102 O '58. (MIRA 11:12)

1. Iz Permskogo instituta vaktsin i syvorotok.

(TYPHUS, immunol.

post-vaccinal immun. after re-infect. of guinea pigs into various receptor zones (Rus))

VAYSMAN, I. Sh., Cand of Med Sci -- (diss) "Materials for the
Pathological Morphology of Experimental Trauma of the Spinal Cord,"
Leningrad, 1959, 18 pp (Inst of Experimental Medicine, Acad Med Sci
USSR) (KL 4-60, 123)

17(1)

AUTHOR:

Vaysman, I. Sh.

SOV/20-127-2-58/70

TITLE:

Morphological Changes Occurring in Sympathetic Ganglia in the Case of Spinal Cord Trauma

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 2, pp 441-443 (USSR)

ABSTRACT:

The trauma mentioned in the title belongs to one of the most complicated sections of surgery and causes abrupt disturbances of the vegetative nervous system as well as of the interior organs. This problem is, however, extremely insufficiently investigated from the morphological standpoint (Refs 2,3,5,6, 8,11,14-18). There is no doubt, however, that the trophic disturbances of organs and tissues in the genesis of which the vegetative nervous system takes part are important for the formation and the development of the complications of the spinal trauma (Refs 7,9,10). In the present paper the author gives results of a morphological investigation of the ganglia of the adjacent sympathetic trunk and of the plexus solaris in comparison with the changes of the spinal cord which are caused by different types of injuries of the latter. 29 dogs and 17 grown-up rabbits served as experimental animals.

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Morphological Changes Occurring in Sympathetic Ganglia SOV/20-127-2-58/70
in the Case of Spinal Cord Trauma

The injury was inflicted in several variants on the level of the IVth - Vth thoracic segments. The animals were then killed or died. The spinal cord was totally cut through in 4 experiments after a longitudinal opening of the dura mater. In such a careful "smooth" cut the zone of traumatic degeneration occupies only a short section within the range of one single segment. The most distinct as well as reversible changes of the nerve cells of the type of an "acute swelling" and "primary irritation" may be only observed in the central sections and in the posterior horns of the grey substance, i.e. almost only in the segments adjacent to the place of injury. The changes of the last mentioned type occur sometimes in the same sections of the inferior thoracic segments and lack in the cervical- and spinal thickening. In this type of trauma the slight changes of the nerve cells are indicated in the adjacent sympathetic trunks which are anatomically immediately connected with the injured spinal cord region and more often in the plexus solaris. They are expressed in a moderate swelling of the cell bodies, in a perinuclear chromatolysis and seldom in a shift of the nucleus towards the periphery. These last

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Morphological Changes Occurring in Sympathetic Ganglia SOV/20-127-2-58/70
in the Case of Spinal Cord Trauma

changes do probably not cause disturbances of the functional activity of the sympathetic ganglia. In 14 experiments spinal cord was smashed with a blunt point through intact dura mater. Beside a far-reaching destruction the myelomalacia and haematomae propagate in a caudal-, less cranial direction. They are accompanied by considerable necrobiological changes of the nerve cells in almost the total cervical- and thoracic section of the spinal cord. Here a part of the spinal cord - thoracic section where the spinal sympathetic centers is destroyed at the moment of the trauma. Considerable necrobiological irreversible changes occur in the obtained nerve cells of the lateral horns and elsewhere in the grey substance of the thoracic section. According to this, changes are observed in the sympathetic ganglia of the adjacent trunks, especially in the plexus solaris, and always increasing liquefaction processes (Fig 1). The spinal cord and the mater dura were roughly cut through in 10 experiments. By this the caudal and the cranial sections are separated and a voluminous haematome develops in the produced defect. This is the most severe type of traumata: most of the animals died 4-7 days later in

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Morphological Changes Occurring in Sympathetic Ganglia SOV/20-127-2-58/70
in the Case of Spinal Cord Trauma

consequence of profuse gastric bleedings. Either type of changes mentioned occurs in the entire spinal cord, they are, however, reversible. The changes of the cells of the lateral horns are also reversible. (Fig 2). Extended changes occurred in many groups of nerve cells of the sympathetic ganglia. They are expressed in the swelling of the cell body, striat chromatolysis, and a shift of the nucleus towards the edge. There are 3 figures and 18 references, 11 of which are Soviet.

ASSOCIATION: Institut eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR (Institute of Experimental Medicine of the Academy of Medical Sciences, USSR) Khirurgicheskaya klinika Permskoy oblastnoy klinicheskoy bol'nitsy (Surgical Hospital of the Perm' Clinical District Hospital)

PRESENTED: April 16, 1959, by N. N. Anichkov, Academician

SUBMITTED: March 26, 1959

Card 4/4

VAYSMAN, I.Sh.

Increasing the contrast range for the electron microscope representation of microbial bodies. Lab. delo 8 no.3:53 Mr 62. (MIRA 15:5)

1. Eksperimental'no-mikrobiologicheskaya laboratoriya Permskogo nauchno-issledovatel'skogo instituta vaksin i syvorotok (dir. - A.P.Kobyl'skiy).
(ELECTRON MICROSCOPE)

VAYSMAN, I.Sh.; IONTOV, A.S.; MATIYENKO, B.T.; MASHANSKIY, V.F.

Third Regional European Conference on Electron Microscopy. August-September, 1964. in Prague. Arkh. anat., gist. i embr. 49 no.7:120-122 JI '65. (MIRA 18:10)

VAYSMAN, I.Sh. (Perm')

Studies on the fine structure of cells and tissues. Usp. sovr.
biol. 56 no.1:20-43 JI-Ag '63. (MIRA 16:10)
(ELECTRON MICROSCOPY) (CYTOLOGY)

(8)2

PHASE I BOOK EXPLOITATION

SOV/2020

. Vaysman, Khaïm Gershevich

. Elektricheskaya apparatura upravleniya sudovymi elektrodvigatelyami
(Electrical Equipment for Controlling Marine Electric Motors)
Moscow, Izd-vo "Morskoy transport", 1958. 383 p. 7,000 copies
printed. Errata slip inserted.

Ed.: N.A. Dodogorskiy; Ed. of Publishing House: V.A. Solodkov;
Tech. Ed.: M.N. Begicheva.

PURPOSE: This book was approved as a textbook by the Ministry of the
Merchant Marine, USSR, for students in the electromechanical depart-
ments of higher schools of marine engineering. It may also be use-
ful to mechanics working on ships and fishing boats and for engi-
neers and technicians of steamship lines, repair yards and marine
design organizations.

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Electrical Equipment (Cont.)

SOV/2020

COVERAGE: The author describes the most important characteristics and types of basic elements of electrical control equipment for marine electric motors. Part I describes the basic elements of electromagnetic devices; Part II, types of electromagnetic devices, command control equipment, auxiliary equipment and their basic characteristics; and Part III, control circuits of electric motors. Paragraphs 2, 3, 5, 6 and 10 of Chapter 4, Part III, were written jointly by the author and A.G. Yaure. Paragraphs 1, 3, 4, 5, 7, 9 and 10 of Chapter 3, Part II, were written by the author and G.O. Feyler. The author thanks Docent B.I. Nornevskiy, Engineer N.A. Dodogorskiy and Engineer Ye.A. Finkel' for their help. There are 33 references, all Soviet (including 3 translations).

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Bibliography

380

AVAILABLE: Library of Congress (VM471.V3)

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JP/ad
9-10-59

VAYSMAN, L., kapitan 1 ranga (Leningrad).

Use of radar data for the prevention of collisions at sea. Mor.
flot 17 no.9:9-13 S '57. (MIRA 10:12)
(Collisions at sea--Prevention) (Radar in navigation)

BOLDIN, K.M. (Yaroslavl'); DROZDOVA, Z.S.; LEVIN, R.I.; VAYSMAN, L.A.
(Kuybyshev-obl.); PODOSINOVSKIY, V.V. (Kazan'); SAYFULLINA, Kh.M.
(Kazan'); EUSYGIN, N.V. (Kazan'); RAZUMOVSKIY, Yu.K. (Leninogorsk);
GEL'FER, G.A., dotsent (Gor'kiy); MAMISH, M.G. (Kazan'); RAFALOVICH,
M.B., dotsent; MEL'NICHUK, S.P., kand.med.nauk; KRAPIVIN, B.V.;
STAROVEROV, A.T. (Saratov); SURIN, V.M.; POROSENKOV, V.S. (Romodanovo,
Mordovskoy ASSR); ANDROSOV, M.D. (Moskva); ZARIPOV, Z.A. (Urussu,
Tatarskoy ASSR); MURAV'YEV, M.F. (Izhevsk); KUZ'MIN, V.I. (Batyrevo,
Chuvashskoy ASSR); SITDYKOV, E.N. (Kazan'); YUDIN, Ya.B. (Novokuznetsk)

Short reports. Kaz.med.zhur. no.4:81-91 J1-Ag '62. (MIRA 15:8)
(MEDICINE--ABSTRACTS)

VAYSMAN, L. A.

New Class Phenomena

Effect of nucleon orbits on slow-neutron capture cross sections and on the spin of odd-odd nuclei. L. A. Vaisman. *Doklady Akad. Nauk S.S.S.R.* 88, 431-4 (1953); (Engl. translation issued by U.S. Atomic Energy Comm., Tech. Inform. Service, Oak Ridge, Tenn. as NSF-tr-6, 4 pp. (1953)); cf. preceding abstr.—A tabulation of the slow-neutron cross sections of nuclei against the suborbit occupied by the last nucleon shows a marked increase in cross section as the following suborbits are filled: (1) the $4f\ 7/2$ proton suborbit, (2) the $5g\ 9/2$ proton suborbit (after the 42nd proton), and (3) the $4d\ 5/2$ proton and neutron suborbit (after the 60th proton or neutron). A 2nd tabulation shows that the spins of odd-odd nuclei are either the sum or the difference of the spins which the Elsassner (C.A. 28, 965) shell model would assign to nuclei of odd mass no. which contained the corresponding no. of protons or neutrons. These correlations confirm the validity of the shell model of the nucleus.

J. J. Mitchell

①
3
Atomic Phys

Bmz
9-19-54

VAYSMAN, L.E.; KRACHKOVSKAYA, M.V.

Outcome of labor for fetuses - newborn infants of women with
arterial hypotension. Sbor.nauch.trud.Kaf.akush. i gin. 1
IMI no.2:218-227'61. (MIRA 16:7)
(FETUS) (HYPOTENSION)

YAKOVLEV, I.I.; VAYSMAN, L.E.

Course of labor in women with vascular diseases of the hypotensive type. Akush. i gin. 38 no.5:52-60 S-0 '62.

(MIRA 17:11)

1. Iz akushersko-ginekologicheskoy kafedry (zav. - zasluzhennyy deyatel' nauki RSFSR prof. I.I. Yakovlev) i Leningradskogo meditsinskogo instituta imeni Pavlova.

VAYSMAN, L.E., kandidat meditsinskikh nauk

Clinical features of the course of pregnancy and labor in hypotensive women. Akush. i gin. 32 no.4:41-47 J1-Ag '56. (MLRA 9:11)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. I.I.Yakovlev)
I Leningradskogo meditsinskogo instituta imeni akad. I.P.Pavlova.

(PREGNANCY, in various dis.

hypotension, clin. aspects management of pregn. & labor)

(HYPOTENSION, in pregn.

clin. aspects management of preg. & labor)

KUNDZICH, G.A.; VAYSMAN, L.M.; ZAL'TSMAN, M.G.

Inspection of the structure of paper. Bum.i der.prom. no.4:14-
20.0-D. '62. (MIRA 15:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut bumazhnoy
promyshlennosti.

(Paper--Testing)

V. I. S. P. P. A. V. L. M.

USSR/Chemical Technology - Chemical Products and Their Application. Wood Chemistry Products. Cellulose and Its Manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63401

Author: Shamson, A. S., Vaysman, L. M.

Institution: Ukrainian Scientific Research Institute of Paper

Title: Instrument for Determination of Electric Strength of Condenser Paper

Original

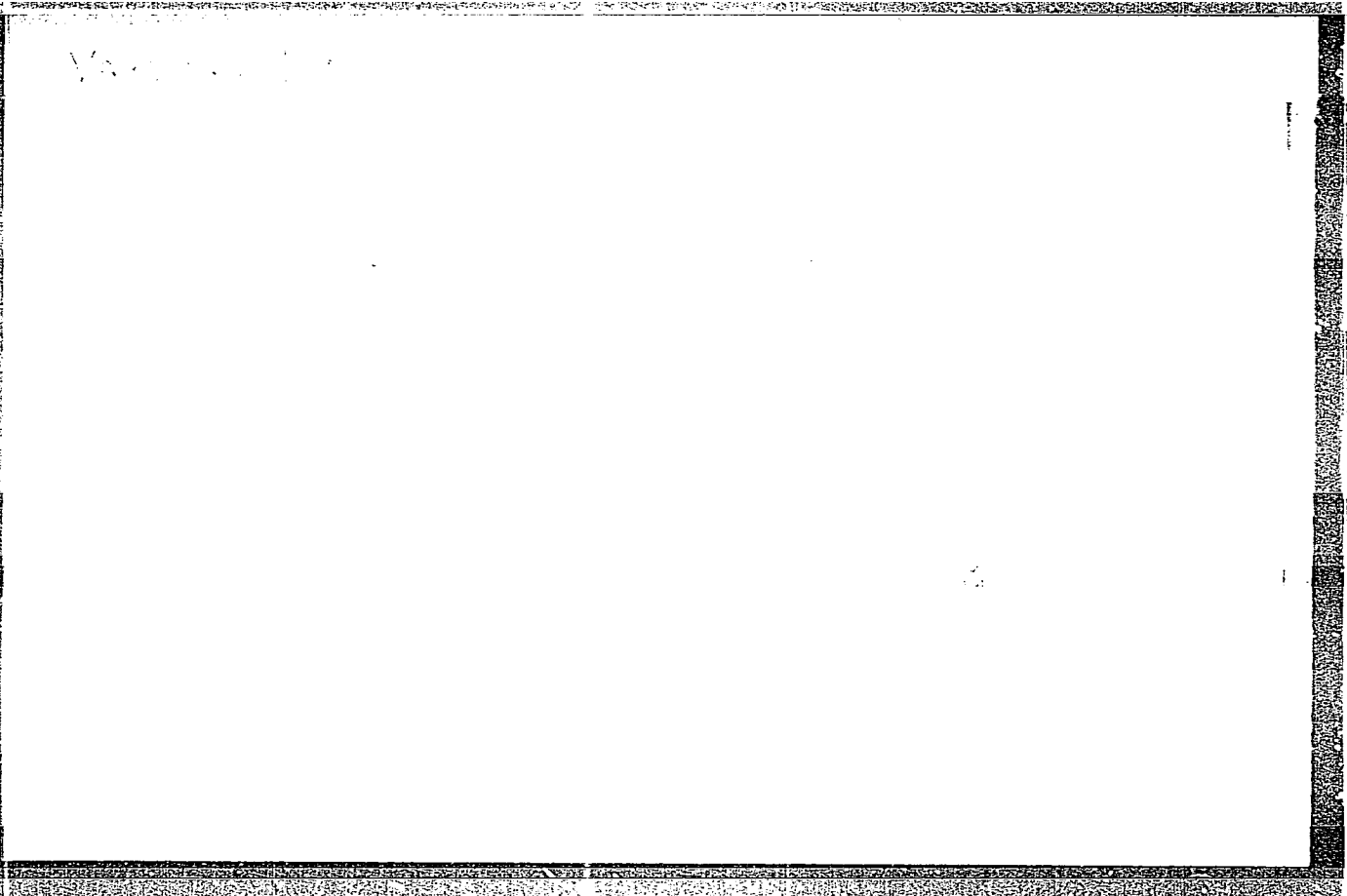
Periodical: Bum. prom-st', 1956, No 4, 13-14

Abstract: The EP-1000 instrument built by associates of Ukrainian NIIB is based on the electric scheme for spark-over testing of solid dielectrics recommended in GOST 6433-52 (Dielectrics, Solid). The principal element of the automatic unit is a TG-2050 thyatron. The instrument is provided with a device that stops the applied voltage regulating lever at the instant of spark-over through the specimen of paper and preventing its turning. Current is supplied to the instrument from a 220-volt alternating current distribution network. The wiring diagram of the instrument is included.

Card 1/1

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001859210006-9



APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001859210006-9"

VII 1 211714, 2-11.

VAYSMAN, L.M.; DOYCHENKO, G.P.

Instrument for determining current-conducting impurities in capacitor paper. Bum. prom. 32 no.7:10-13 J1 '57. (MIRA 10:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut bumagi.
(Condensers (Electricity)) (Paper--Testing)

AUTHOR: Vaysman, L. M. SOV/57-58-8-14/37

TITLE: Electric Strength of Condenser Paper (Elektricheskaya prochnost' kondensatornoy bumagi)

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1958, Nr 8, pp 1696 - 1702 (USSR)

ABSTRACT: In this paper results of the investigation of the influence of a number of factors upon the electric strength of not impregnated paper are presented. The electric strength of mono-layered samples was measured. The samples were first dried at 100 - 105°C and were then acclimatized in air with a humidity of 65% for at least 6 hours. The tests were carried out at a humidity of 65± 2% and at 20-25°C. A test stand was used which is recommended by GOST 6433-52, with a thyatron relay automatically recording the moment of breakdown. Samples of condenser paper with a thickness of 6-30 micron and a density of 0,97-1,03 and 1,16 - 1,15 g/cm³ (corresponding to the type KOHI and KOH II) were examined. The evidence obtained indicates the following: 1) The breakdown voltage of condenser paper is a definite function of the paper thickness, of the density and of the content of conducting inclusions and it is specified by formulae (1) to (4). At constant

Card 1/2

Electric Strength of Condenser Paper

SOV/57-58-8-14/37

density and thickness the breakdown voltage of condenser paper is determined by the structure proceeding from the technological manufacturing process. In a number of cases formula (6) describes the breakdown voltage. 2) Condenser paper of varying thickness falls to two classes: "thin" paper with 6-10 micron and "thick" paper with 12 - 30 micron. These two types of paper exhibit a different tendency in the variation of the breakdown voltage with thickness and density. It is believed that this is connected with the differing structure, the existence of conducting inclusions and with the direct influence of the thickness. An improvement of the structure of the paper and a reduction of the proportion of conducting inclusions should permit to attain a considerable increase of the strength of condenser paper. There are 7 figures and 5 references, 5 of which are Soviet.

ASSOCIATION: Ukrainskiy n.-issled.institut bumazhnoy promyshlennosti, Kiyev
(Ukraine Scientific Research Institute of Paper Industry, Kiyev)

SUBMITTED: December 13, 1957
Card 2/2

FINKEL'SHTEYN, G.E.; VAYSMAN, L.M.; LANTSETER, Ye.M.; Primali uchastiyе: GIL'BERG, V.B., inzh.; BELEN'KIY, D.S., inzh.; IVANOVA, V.A., inzh.; PEDOSENKO, V.A., inzh.; YAKOVENKO, Yu.B., inzh.

Device for technological control of the content of current-conducting inclusions in condenser paper. Bum. i der. prom. no.4:6-12 O-D '63. (MIRA 17:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut bumazhnoy promyshlennosti.

VAYSMAN, L.M.; KUNDZICH, G.A.

Method of estimating the structure of condenser paper. *Bum. prom.*
no.2:10-12 F '64. (MIRA 17:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut bumazhnoy promysh-
lennosti.

VAYSMAN, L.M.

Effect of the iron and copper content of paper on the quality
of condensers. Bum.prom. 38 no.9:21-23 S '63. (MIRA 16:11)

VAYSMAN, L. M., Cand Tech Sci -- (diss) "Investigation of the dielectric properties and evaluation of the quality of condensor paper." Leningrad, 1960. 13 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Polytechnic Inst im M. I. Kalinin); 150 copies; price not given; list of author's works on pp 12-13 (11 entries); (KL, 51-60, 117)

VAYSMAN, L.N., mayor med. sluzhby

X-ray diagnosis of peptic ulcer. Voen.-med. zhur no.5:72-73 № '57
(PEPTIC ULCER) (MIRA 12:7)

VAYSMAN, L.N.; SHEREMET, B.F.

Two-spindle head for a vertical drilling machine. Stan.i instr.
33 no.7:38 JI '62. (MIRA 15:7)
(Drilling and boring machinery)

VAYSMAN, L.N., (Chernigov)

Device for making a series of pictures of the lungs. Vest. rent. i
rad. 32 no.2:56-58 Mr-Ap '57. (MLRA 10:8)
(ROENTGENOGRAPHY, apparatus and instruments,
appliance for focused serial pictures of lungs (Rus))

VAYSMAN, L.N.

Metal rod for signing roentgenograms. Vest. rent. 1 rad. 33 no.5:88
S-0 '58 (MIRA 11:11)

(X RAYS--EQUIPMENT AND SUPPLIES)

VAYSMAN, I.S.

SAFIANO, Tat'yana Alekseyevna; KORZHINSKIY, D.S., akademik, redaktor;
BORNEMAN, I.D., doktor geologo-mineralogicheskikh nauk, redaktor;
VAKHRAMEYEV, V.A., doktor geologo-mineralogicheskikh nauk,
redaktor; GROMOV, V.I., doktor geologo-mineralogicheskikh nauk,
redaktor; KELLER, B.M., doktor geologo-mineralogicheskikh nauk,
redaktor; LEBEDEV, A.P., doktor geologo-mineralogicheskikh nauk,
redaktor; KHAIN, V.Ye., doktor geologo-mineralogicheskikh nauk,
redaktor; SHTEYNS, N.A., doktor geologo-mineralogicheskikh nauk,
redaktor; YABLOKOV, V.S., kandidat geologo-mineralogicheskikh nauk,
redaktor; MERKLIN, R.L., kandidat biologicheskikh nauk, redaktor;
VAYSMAN, I.S., nauchnyy sotrudnik, redaktor; SLAVYANOVA, N.F.,
nauchnyy sotrudnik, redaktor; LEPESHINSKAYA, Ye.V., redaktor;
TUMARKINA, N.A., tekhnicheskiy redaktor

[English-Russian geological dictionary] Anglo-russkii geologicheskii
slovar'. Pod red. D.S.Korzhinskogo i dr. Moskva, Gos. izd-vo
tekhniko-teoret.lit-ry, 1957. 528 p. (MIRA 10:7)
(English language--Dictionaries--Russian)
(Geology--Dictionaries)

VAYSMAN, L. S.

Logarifmicheskaia lineika v korablevozhdenii. Moskva, Voen. izd-vo, 1949.
78 p. illus.

(The slide rule in navigation.)

DLC: VK559.V26

S6: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953

VAYSMAN, Lazar' Solomonovich, kapitan 1 ranga; ARGUNOV, I.I., kapitan 1-go
ranga; STREL'NIKOVA, M.A., tekhnicheskij redaktor

[Maneuvering board] Manevrennyi planshet. Moskva, Voen. izd-vo Mini-
sterstva oborony SSSR, 1954. 107 p. (MLRA 8:6)
(Navigation)

ANIKIN, M., arkhitektor; VAYSMAN, M., inzh.; KHAYKEL'SON, Ye. [Khaikel'son, E.], inzh.

District center "Sil'hospstekhnika." Sil'.bud. 13 no.10:10-11 0 '63.
(MIRA 17:3)

VAYSMAN, M.

Flanging of hull construction sections on forging rolls; Vano
Sturua Ship Repair Yard. Inform.sbor.TSNIIMF no.26:33-34
'58. (MIRA 13:4)

1. Sudoremontnyy zavod imeni Vano Sturua.
(Shipyards--Equipment and supplies)
(Metalwork)

ANIKIN, M., arkhitektor; VAYSMAN, M., inzh.; ZAKON, Ya., inzh.

Collective and state farm storehouses for mineral fertilizers.
Sil'. bud. 13 no.11:5-8 N '63. (MIRA 17:1)

REYNSALU, A. [Reinsalu, A.]; VAYSMAN, M. [Vaisman, M.], red.; PEDARI, Ya.
[Pedari, J.], tekhn. red.

[Tallinn] Tallin. Tallin, Estonskoe gos. izd-vo, 1961. 163 p.
(Tallinn) (MIRA 14:11)

TRIFONOV, I. (g.Orsha, Vitebskoy obl.); BOLDENKOV, K. (g.Bryansk); KAPUSTIN, F. (g. Rzhev, Kalininskoy obl.); BUGAYEV, V. (g. Svatovo, Luganskoy obl.); KARLINSKIY, G. (g. Fergana); VAYSMAN, M. (g. Tambovka, Amurskoy obl.); GIRSON, I., tekhnoruk (g. Kuybyshev)

In the precongress labor campaign. Prom.koop. 12 no.11:6-7
N '58. (MIRA 11:11)

1. Ispolnyayushchiy obyazannosti predsedatelya pravleniya arteli po orgmassovoy rabote i kadram (for Trifonov)..2. Predsedatel' pravleniya arteli "Metallist." (for Boldenkov). 3. Inspektor orgtdela oblpromsoвета (for Karlinskiy). 4. Predsedatel' pravleniya arteli "Bol'shevik." (for Vaysman). 5. Artel' "Udarnik." (for Girson).

(Cooperative societies)

ANIKIN, M., arkhitektor; VAYSMAN, M., inzhener.

Planning and construction of new headquarters areas for machine-
tractor stations. Sil'.bud.no.6:10-11 S '55. (MLRA 9:7)
(Machine-tractor stations)

VAYSMAN, M.; TESLER, L.; SHAPIRO, A.

Dust removal from conveyer trays at the Kuybyshev Grain Elevator.
Muk.-elev.prom. 26 no.7:12 J1 '60. (MIRA 13:8)

1. Zamestitel' direktora po uchebnoy chasti Kuybyshevskogo mukomol'nogo tekhnikuma (for Vaysman). 2. Glavnyy inzhener Kuybyshevskogo elevatora (for Tesler). 3. Glavnyy inzhener Kuybyshevskogo mel'kombinata (for Shapiro).
(Grain--Cleaning)

VAYSMAN, Moisey Rafailovich, inzh.; KLEYMAN, L.M., red.

[Collection of problems and exercises on ventilation technology] Sbornik zadach i uprazhnenii po ventiliatsionnoi tekhnike. Moskva, Kolos, 1965. 15^p.
(MIRA 18:7)

VAYSMAN, H.B., inzh.

Cold welding of defects in cast iron Freon compressors. Svar.
proizv. no.2:36-37 F '65. (MIPA 18:3)

1. Eksperimental'no-issledovatel'skoye i konstruktorskoye byuro
Chernomorskogo soveta narodnogo khozyaystva.

VAYSMAN, M.D.; POLYAKOV, K.S.

Adiabatic flow of an evaporating liquid. Inzh.-fiz. zhur. 7 no.3:
20-26 Ag '64. (MIRA 17:10)

1. Politekhnicheskiy institut im. M.I. Kalinina, Leningrad.

124-1957-2-1737

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 42 (USSR)

AUTHOR: Vaysman, M. D.

TITLE: On the Thermodynamic Relationships in an Irreversible Adiabatic Flow of a Saturated Vapor (O termodinamicheskikh svyazyakh pri neobratimom adiabaticheskome techenii nasyshchennogo para)

PERIODICAL: Tr. Leningr. politekh. in-ta, 1953, Nr 2, pp 192-204

ABSTRACT: Having introduced and investigated the "coefficient of losses in kinetic energy" (in the case of an accelerated flow) and the "coefficient of diffusion losses" (in cases of a decelerated flow), the Author derives in hydraulic terms a number of relationships that permit a thermodynamic description of a uniform, stationary flow of a saturated vapor.

S.S. Grigoryan

1. Vapors--Thermodynamic characteristics 2. Fluid flow--Theory

Card 1/1

"Theory of Motion of Saturated Vapor"

Tr. Restovskogo Inst, Izv. Zn-D. Transp., No 17, 1955, pp 3-15

Considers the familiar law $pv^k = \text{const}$ not satisfactory for the motion of a two-phase saturated vapor. Analysis of unidimensional isentropic flow under assumption of homogeneous distribution of liquid phase dispersed in the vapor phase and analogous behavior of thermodynamic processes leads to equations giving the critical velocity of flows and the limit discharge of vapor. (Zhurik, no 2, 1955)

SO: Sum. 492, 12 May 55

VAYSMAN, M.D., dotsent

Corresponding states of sturated steers. Trudy LPI no.2:177-182 '54.
(Steam) (MLBA 8:8)

VAYSMAN, M. D.

57-2-21/32

AUTHOR: Vaysman, M. D.

TITLE: On the Structure of Some Thermodynamic Functions and the Critical Velocity of the Wet Vapor at Curvilinear Border Surfaces Between Phases (O strukture nekotorykh termodinamicheskikh funktsiy i kriticheskoy skorosti vlazhnogo para pri krivolinykh poverkhnostyakh razdela mezhdu fazami)

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Nr 2, pp.333-344 (USSR)

ABSTRACT: The influence of the capillarity upon the structure and the values of the thermodynamic functions of the liquid - vapor system is investigated. The problem, at which degree of dispersion of the liquid phase the surface-effects have to be taken into account in technical calculations of power-plants and how these effects become effective in the value of the critical velocity of a wet-vapor flow is treated. For this purpose an equilibrium system with drops of liquid distributed in the vapor of the same substance is investigated. At first equation (7) is derived. It represents a generalization of the Clau-

Card 1/4

57-2-21/32

On the Structure of Some Thermodynamic Functions and the Critical Velocity of the Wet Vapor at Curvilinear Border Surfaces Between Phases

sius-Clapeyron-equation for curved surfaces at the phase-boundary in drops of given dimensions. This equation (7) differs from the usual form of the Clausius-Clapeyron-equation by the second term of the sum in the right part. This characterizes the influence of the tension at the surface. The physical meaning of this term is determined in a simple manner: The correction to the Clausius-Clapeyron-equation in curvilinear border surfaces between phases is equal to $2/3$ of the "Surface"-entropy of the liquid relative to the increase in volume on an isothermal change of the state of aggregation. Then the relations between the entropy, the internal energy and the enthalpy are determined with the thermal parameters of the state in curvilinear border surfaces between phases. Then it is investigated how far the difference of the specific entropies of vapor and liquid in drop-shape differs from the increase in entropy in the phase-transition of flat surfaces at the phase-boundary. A formula (11) for this increase in entropy is derived. The first term of the sum in the right part of the equation represents the entropy gradient at the boundary-curves in the absence of the capillary-forces. The se-

Card 2/4

57-2-21/32

On the Structure of Some Thermodynamic Functions and the Critical Velocity of the Wet Vapor at Curvilinear Border Surfaces Between Phases

cond term of the sum characterizes the influence of the surface-energy. With an increase in the size of the drops the deviation of s_2 from s'' becomes smaller and in the case of a flat surface the gradient $s''-s_2$ becomes equal to zero. - Then it is investigated how on a rise of pressure the gradient between the entropy of the vapor above the drop of liquid and the entropy of the vapor in a stable state changes in the case of a flat boundary-surface. v'' and p_s denote the specific volumes and the pressure at the boundary curve respectively. Index "1" refers to the phase condensed and index "2" to the vapor-phase. s'' denotes the entropy at the boundary-curve. In the range of the states up to $p_s \leq 0,6 p_{\text{critical}}$ the difference of the increase in entropy, in the case of a fixed drop of dimension, is approximately proportional to the relation of the capillarity-constant to the absolute temperature: $\delta(\Delta s) \sim \frac{1}{T}$. Consequently the state of equilibrium of the vapor over the drop of liquid with a rise of pressure approaches the state at the upper boundary-curve. It is shown that on a pressure rise $\delta(\Delta u)$ becomes smaller (internal

Card 3/4

57-2-21/32

On the Structure of Some Thermodynamic Functions and the Critical Velocity of the Wet Vapor at Curvilinear Border Surfaces Between Phases

energy) and in the critical point $\delta(\Delta u)_{\text{critical}}$ tends toward 0. Then the critical velocity of a flow consisting of undercooled vapor and of a drop of liquid being in equilibrium with this vapor is investigated and determined. The results of the calculations show that the influence of the surface-phenomena upon the quantity of the critical velocity of water-, mercury- and ammonia-vapors begins to become manifest on a refinement of the liquid phase to drops with a radius of about $10^{-2} \mu$. The problem on the boundary-degree of dispersion remains unsolved. There are 6 figures, and 10 references, all of which are Slavic.

SUBMITTED: December 30, 1956

AVAILABLE: Library of Congress

1. Functions-Thermodynamics-Theory

Card 4/4

VAYSMAN, M.D.

Thermodynamics of one-component vapor-liquid systems. *Trudy*
LPI no.193:108-118 '58. (MIRA 12:2)
(Thermodynamics)

L 15046-65 EATON (EXHIBIT) PAA 4) PIS 2) PWA 1) FI-1 ABBOT and ASD (f)-2/
APT p.

ADDITIONAL INFORMATION: [faded text]

AUTHOR: Vaysman, M. D.; Folyakov, K. S.

TITLE: Adiabatic flow of an evaporating liquid

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 8, 1964, 20-26

TOPIC TAGS: adiabatic flow, equilibrium flow, flow density, evaporation, thermodynamic equilibrium, phase equilibrium

Abstract: The experimentally determined flow density of an evaporating liquid in a well-laminar regime is compared with the theoretical prediction.

The flow of a liquid through a narrow channel is studied. The results of the experiment show that the flow is laminar and the vapor content and other characteristics indicate that the time it takes the liquid to pass through the channel is more determinative. From the laws of mass conservation, energy and momentum, it follows that the accumulation of a gaseous phase should proceed uninterruptedly, since

L 15046-65

ACCESSION NR: AP5001632

thermodynamics does not allow the onset of evaporation jump in an adiabatic flow. The authors present their findings for the purpose of eliciting discussion, rather than as definitive data. Orig. art. has 3 figures and 8 equations.

ASSOCIATION: Politekhnikheskiy institut im. M. I. Kalinina, Leningrad (Polytechnic Institute)

SUBMITTED: 17Mar64

ENCL

SUB CODE: ME, TD

NO REF SOV: 005

OTHER: 009

JPRS

Card 2/2

VAYSMAN, M.D.

Jump in the isochoric heat capacity and sound velocity in
the critical state. Trudy LPI no.228:20-26 '63.
(MIRA 17:1)

VAYSMAN, M.L., doktor tekhn. nauk, prof.

Change in the state of wet steam in a direct condensation jump.
Teploenergetika 12 no.8:63-68 Ag '65. (MIRA 18:9)

1. Leningradskiy politekhnicheskii institut.

PROCESSES AND PROPERTIES INDEX

B-3-2

BC

Describing a triple-effect evaporator during operation. M. I. Vaisman. *Sukhar. Prom.*, 1960, No. 7, 25-27; *Sug. Ind. Abstr.*, 1960, 28, 209.—A reduction in throughput or in the quality of the syrup is avoided by the use of a steam injector for the compression of vapors, a concentrator as a fourth effect, and for an additional tank for the storage of dil. syrup while the first and second effects are being cleaned. P. S. Anup.

METALLURGICAL LITERATURE CLASSIFICATION

REGIONS: 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

SUBJECTS: 01 02 03 04 05 06 07 08 09 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

AYSMAN, M.

Contribution of mathematics to agriculture. Nauka i zhizn' 29 no.3:
8-9 Mr '62. (MIRA 15:7)
(Estonia—Agricultural estimating and reporting)
(Cybernetics)

VAYSMAN, M. D., Dr. Tech. Sci. (diss) "Thermodynamics of Monometric Steam-Liquid Currents," Moscow, 1961, 39 pp (Moscow Power Eng. Inst.) 150 copies (KL Supp 12-61, 260).

CHEVKINOV, V.I., kand.tekhn.nauk; VAYSMAN, M.I.

Investigating the performance of a noncontact induction slip
ring. Avt.prom. 30 no.1:27-29 Ja '64. (MIRA 17:3)

1. Gor'kovskiy sel'skokhozyaystvennyy institut.

VAYSMAN, M. L.

Compressors

Using steam-jet compressors in sugar factories. Sakh. prom. 26 No 5 1952

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

VAYSMAN, M. L.

Sugar Machinery

Ways for lowering fuel consumption, Sakh. prom. 27, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

VAYSIAN, M. L.

"Investigations on the Use of Steam Compressors in the Sugar Industry."
Cand Tech Sci, Kiev Technological Inst of the Food Industry, Kiev, 1954. (RZhKhim,
No 6, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations
Defended at USSR Higher Educational Institutions (15)

YAPASKURT, V.V.; YEPISHIN, A.S.; SHAKIN, A.N.; SILIN, P.M.; ZHIDKOV, A.A.;
KHELEMSKIY, M.Z.; SHEMYAKIN, P.N.; NOVIKOV, V.A.; POPOV, V.D.; BENIN,
G.S.; HAYDEKOV, A.K.; KURBATOVA, V.S.; KARTASHOV, A.K.; YARMOLIESKIY,
A.K.; ZIBOROV, D.K.; VAYSMAN, M.L.; ZAMBROVSKIY, V.A.; SVYATENKO, M.M.

IULii Markovich Zhvirblianski; obituary. Sakh.prom.29 no.6:48 '55.
(Zhvирblianski, IULii Markovich, 1894-1955) (MIRA 9:1)

YAYSMAN, M.L.

Nonautomatic condensate return trap and header. Sakh.prom 30
no.10:37-42 0 '56. (MIRA 10:1)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharnoy promysh-
lennosti. (MIRA 10:1)
(Sugar industry--Equipment and supplies)

VAYSMAN, M.L.

Optimum unit load on vacuum apparatus heating surface. Sakh.
prom. 31 no.3:29-31 Mr '57. (MLRA 10:4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharnoy
promyshlennosti.
(Vacuum apparatus)

VAYSHAN, N.L.

Efficient condensate system. Sakh.prom. 31 no.8:55-59 46 '57.
(MIRA 10:8)

I.Tsentral'nyy nauchno-issledovatel'skiy institut sakharnoy
promyshlennosti.
(Steampipes) (Feed water)

VAISMAN, M.L.
VAISMAN, M.L.; TOBILEVICH, N.Yu.

Effect of the method of bleeding evaporator vapors on the operation of the evaporator installation. Sakh. prom. 31 no.10:46-49 0 '57.

(MIRA 11:1)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti.

(Sugar industry--Equipment and supplies)

VAYSMAN, M.L.

Most efficient construction of steam traps. Sakh. prom. 32 no.8:
46-50 Ag '58. (MIRA 11:9)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharnoy
promyshlennosti.
(Sugar industry--Equipment and supplies)

TROYNO, V. P.; VAYSMAN, M. L.

Temperature and height of the boiling point of massequite.
Izv. vys. ucheb. zav. pishch. tekhn. no. 2:128-130 '64. (MIRA 17:5)

1 5751-02

ACCESSION NR: AP5018527

UR/0304/65/000/004/0107/0107

AUTHORS: Solomykin, A. P.; Shatilov, K. V.; Vaysman, M. L.; Margolin, Z. I.;
Tropit, N. N.; Laimov, M. I.

3

TITLE: A device for automatic stretching of chains

SOURCE: Mashinostroyeniye, no. 4, 1965, 117

TOPIC TAGS: stretching, chain stretcher

ABSTRACT: This Author Certificate, No. 167412, presents a device for automatic stretching of chains (see Fig. 1 on the Enclosure). The device consists of a roller

to the elongation of the chain. (Fig. 1)

ASSOCIATION: none

SUBMITTED: 00

ENCL: 01

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

Card 1/2

10-1-68

ACCESSION NO: APOC 8527

ENCLOSURE: 01

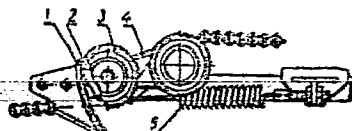


Fig. 1.

Jim
Card 2/2

VAYSMAN, M.L.

Heat utilization in sugar factories. Sakh. prom. 37 no.8:42-
46 Ag '63. (MIRA 16:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharnoy
promyshlennosti.

(Sugar manufacture) (Heat engineering)

VAYSMAN, M.L.; TROYNO, V.P.; PERTSEL', V.M.

Use of ultrasound in the control of scale formation in evaporators. Sakh.prom. 34 no.1:36-39 Ja '60.

(MIRA 13:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti (for Vaysman, Troyno). 2. 2-y Petrovskiy sakharnyy zavod (for Pertsel').

(Sugar manufacture)

(Ultrasonic waves--Industrial applications)

VAYSMAN, M.L.; BURYAKOV, N.I.; KOT, Yu.D.

TSINS system periodic action vacuum pan with sectional heating surface. Sakh. prom. 33 no.11:33-36 N '59 (MIRA 13:3)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti (TSINS).
(Sugar machinery) (Evaporating appliances)

VAYSMAN, M.M., kapitan dal'nego plavaniya; BRUKHIS, G.Ye.

Experience in the transportation of cacao beans. Biul. tekhn.-
ekon.inform. Tekh. upr. Min. mor. flota 7 no.5:36-39 '62.

(MIRA 16:3)

1. Nachal'nik kommercheskogo otdela Chernomorskogo parokhodstva
(for Brukhis).

(Cocoa--Transportation)