

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

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<b>1</b> 39	ELDU	PV	OVA- HAUSLEROVA, C.
ŧ	CZECHOSLOV	AKI	A/Chemical Technology - Chemical Products and Their I-11 Application. Carbohydrates and Refinement.
,	Abs Jour	:	Ref Zhur - Khimiya, No 1, 1958, 2785
	Author	:	Pavlas, P., Melounova-Hauslerova, O.
	Inst Title	:	Separation of Amino Acids in Sugar Products by the Method of Electrophoresis and Proof of the Presence Therein of Gamma-Amino-Butyric Acid and Ornithine.
	Orig Pub	:	Listy cukrovarn., 1957, 73, No 6, 131-135
	Abstract	:	By the method of electrophoresis amino acids have been se- parated in purified samples of diffusion juice and heavy sirup; two groups of neutral amino acids were then isola- ted and concentrated, after which they were separated by means of paper chromatography and electrophoresis. The results are shown in the form of electrophoregrams. In the group which is more rapidly deposited at the cathode only gamma-amino butyric acid was detected. In the
	Card 1/2		
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MELOU CZECHOSLA	WOVA-HAUSLEROVA, OLGA WAKIA/Chemical Technology. Chemical Products and Their Application. Carbohydrates and Refinement. H-26
Abs Jour:	Referat Zhur-Khimiya, No 5, 1958, 15931.
Author : Inst : Title :	Pavlas Petr, Melounova-Hauslerova Olga
-	Amino Acids Involved in the Formation of Melanoids
Orig Pub:	Listy cukrovarn., 1957, 73, Ne 8, 177-182.
Abstract:	From molasses of refining and sugar-manufacturing plants the melanoids were separated and subjected to purification and fractionation. 12 fractions of the coloring substances were analyzed for ash and nitrogen content and then subjec- ted to acid and alkali hydrolysis. The hydrolysates were analysed by chromatographic and electrophoretic methods. It was ascertained that in the formation of the melanoids of molasses take part all the amino acids that occur in the juices and proteins of beats. The assumption is made
Card :	1/2
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C. e e مستر PAVIAS, PETR: MELOU. NAVA-HAUSIEROVA, OLCA. ACOM-water 4:1:5) showed asparile, glutanic, graining-tertle neide, suring, strenge, threening, diaming, tyrosing, AcOH-water, 4:1:5) showed aspartle, glutamic, resinino-hield acids, series, glycha, threanine, alanine, tyrosine, lysine, histidlie, arginine, proline, hierbranine, threanine, valine, tryptophan, phenylalanine, heasine, and isoleuchan. Serine, threanine, and histidlie were absent in the alle. Serine, but cell other I were found in the acid hy-hydrolysates, but cell other I were found in the acid hy-hydrolysates, but cell other I were found in the acid hy-hydrolysates. But cell other I were found in the acid hy-hydrolysates. But cell other I were found in the acid hy-hydrolysates. But cell other I were found in the acid hy-hydrolysates. The H is coust. No free I were found in The proportion of I in H is coust. To free I were found in H balare hydrolysis. 2-12 Į٣. 

Mehr in a MARS LORGA CZECHOSICV.KI. / Chumical Technology. Chumical Freducts H and Thuir application. Carbohydrates and Their Processing. ..bs Jour: Ref-Zhur-Khi iya, No 0, 1959, 33003. Luthor : Pavlas, P., Melounova-Hauslurova, O. Inst : Not given. Titlo : The Composition of the Sugar Boot and Juices in the Industrial Season of 1957-58. Orig Pub: Listy cukrovarn., 1958, 74, No 8, 175-183. Abstract: The composition of sugar busts of 60 sugar rofinorios, and diffused juices and syrups of 49 sugar rofineries in Czech slovakia, are submittad. In 1937, the growth of bucts took place in an ample supply of meisture. The avorage weight of the roots was 578.2 g.; sugar content, 15.71% (18.64-14.77%); pulp, 4.41%; Card 1/3251



CIA-RDP86-00513R001033 "APPROVED FOR RELEASE: Wednesday, June 21, 2000 27269 s/077/61/006/005/004/004 1395,1051, 1395 14 3300 D051/D113 Belinskaya, G.I., and Melovatskiy, B.V. AUTHORS: Determining the size of photographic pictures by means of TITLE: photometry PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 6, no. 5, 1961, 371-376 TEXT: Considering the inexactness of visual measurement of photographic pictures by microscopes, comparators etc., the authors developed a photometric method permitting a more accurate determination (approximately by 1 order) of the size of photographs of contrasty subjects. The method is based on the use of so-called × -curves which illustrate the change in blackening density in point 0 [Abstracter's note: for explanation see below]. This change depends on the blackening density of the photographic picture under the assumption of symmetry of the function of the optical system A (x)]. Point O - in reality there are two points O which in the case of symmetry of the function have equal density levels - marks the intersection of Card 1/6

CIA-RDP86-00513R00103

# "APPROVED FOR RELEASE: Wednesday, June 21, 2000

27269 s/077/61/006/005/004/004

Determining the size of photographic pictures ... D051/D113

the real and the ideal graph of blackening density distribution of a photographic picture. The ideal graph represents the blackening densities on the edge of a photographic picture, assuming that the subject contrasts and the blackening densities in the photograph correspond. Fig. 3 shows that, if the blackening densities at 0 are known, the real size of the photographic picture on the abscisse can be photometrically found. The  $\mathcal{X}$  - curves of Fig. 7, which show the dependence of the blackening density  $D_1$  at point 0 on the blackening density of the photographic picture D (Fig. 6) hold for pictures obtained on Kinonegativ  $\Pi_{K}$  (DK) films (curve 1) and Penchrom X-800 (Kh-800) (curve 2). The films were developed with developer Nc -during 8 minutes at 20°C, the exposure having been carried out behind a K(--14 (KS-14) red light filter. The data for plotting these curves were experimentally obtained with a special installation (diagram in Fig. 8) which is described in detail. The installation is a combination of an optical, a photographic recording, and a measuring system, all parts being aligned along the optical axis. The relative aperture of the optical system can have the values 1:33, 1:50, 1:120 in addition to those of the objective PO-2(RO-2) when its internal iris diaphragm is stopped down. The interchangeable disphragm (3) is recorded on the film (7). The size of the optical

Card 2/6

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27269 S/077/61/006/005/004/004

Determining the size of photographic pictures ... D051/D113

image of the diaphragm (3) in the plane of the film is measured with a microscope (10). The photographs of the diaphragm opening obtained were pictures with different blackening densities (D = 0.2-2.6 above fog density) and of different size B (0.2-8 mm [B - size of the diaphragm opening]). Blackening density  $D_1$  and size B were established using an  $M\phi$  -4 (MF-4) microphotometer. It was found that the blackening density  $D_1$ , which corresponds to the real size of the picture, changes depending on the density of the photograph in accordance with the  $\varkappa$  -curves of Fig. 7. This law was verified for pictures C.2-8 mm in size. Evidently, it will also hold for photographic pictures larger than 8 mm. The new method excludes errors arising from visual measurements due to unsharpness around the edges of the photographic picture. After microphotometrically determining the blackening density D of the photographic picture near the edge, the blackening density  $D_1$  through the corresponding  $\mathcal X$  -curve will also be found. Then, using the measuring drum of the microphotometer, two consecutive readings will be made, corresponding to D, on the edges of the picture. The difference between these readings is equal to the real size of the picture. There are 9 figures

Card 3/6

Pressure states and provide and provide and provide states and provide states of photographic pictures ... DOSI/DIIS
and 2 references: 1 Soviet and 1 non-Soviet-bloc. The reference to the english language publication reads as follows: R.L.Lamberte, S.C.Higgins, R.N.Wolfe, J.Opt.Soc.America, 1950, 48, 487.
ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics of the AS USSR)
SUEMITTED: July 26, 1960
Card 4/6



MELOVIS	XV, A.A., inzh.	+- <b>*</b> '		~		-	
	Hofizontal adj speed. Energom	ustable-bläde <sup>-</sup> k ashinostroenie	hydruelie tu 11 no.3:23-	coines vit 277 Mar 165	h <u>hi</u> gh •	operating (MIRA 18:6	)
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 Image: Image

(A, N) SOURCE CODE: UR/0413/67/000/002/0057/0057 ACC NR: AP7005617 INVENTOR: Ostashchenko, A. V.; Melovtsov, A. A.; Goryaystov, V. P.; Lyashko, V. V.; Fridman, L. I.; Rivlin, M. I. ORG: None TITLE: An open-pole synchronous machine. Class 21, No. 190462 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 57 NOPIC TAGS: electric generator, electric protection equipment, hydraulic equipment, automatic control equipment ABSTRACT: This Author's Certificate introduces: 1. An open-pole synchronous machine, e. g. a hydraulic generator, containing a device for anti-acceleration protection of the rotor by disengagement from the shaft of the drive unit when the permissible rotational velocity is exceeded. Design is simplified by making this device in the form of a system of hydraulic cylinders located around the circumference of the rotor shaft and rigidly connected to it. The cylinder rods are linked to the rotor under operating conditions and serve as disengaging elements. Bearings are used for coupling the rotor to the shaft. 2. A modification of this machine in which a slide valve with an electromagnetic drive is used for controlling the hydraulic cylinders. The pulse which operates this drive is fed from a speed relay. UDC: 621.313.322.044.3-783.5 Card 1/2

## CIA-RDP86-00513R001033



s/137/62/000/003/060/191 A006/A101 Grigoryan, A., Meloyan, R., Grigoryan, M. AUTHORS: Preparation of powder icon from local raw materials by the electro-TITLE: chemical method PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 40, abstract 30275 ("Prom-st' Armen11", 1961, no. 7, 31 - 35, Russian) Results are given obtained from research experiments concerning the preparation of Fe powder from concentrated Razdan ore by three different variants of the electrochemical method. The method with a dissoluble steel anode was found to be most promising. For the final selection of a method to obtain Fepowder it is supposed to carry out investigations on direct reduction of Fe-concentrates by synthetic gas. A. Epik [Abstracter's note: Complete translation] Card 1/1

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A CALL REPORT OF A

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MELOYAN, S., inzhener-tekhnolog
Mullite will be replaced by "bakor." Prom.Arm. 4 no.6: 41-42 Je '61. (MIRA 14:8)
1. Yerevanskiy mullitovo-steklotarnyy zavod. (Erivan-Refractory materials)



S/131/61/000/012/001/002 B105/B101

AUTHOR: Meloyan, S. S.

TITLE: New molten refractory products for glass furnaces

THE REPORT OF THE PARTY OF THE

PERIODICAL: Ogneupory, no. 12, 1961, 558 - 560

TEXT: The production and development of molten refractory products is described. In 1948 N. V. Solomin, A. A. Litvakovskiy, and N. M. Galdina found that addition of zirconium dioxide, reduction of fluxes, and partial substitution of bauxites by industrial alumina and kaolin increased the resistivity against the glass melt. From 1948 to 1950 the Yerevanskiy mullitovo-steklotarnyy zavod (Yerevan Mullite Glass Container Plant) manufactured molten refractory mullite products with additions of zirconic concentrate (ZrSiO<sub>4</sub>). Since 1951 the Laboratoriya

ogneuporov Gosudarstvennogo instituta stekla (Laboratory of Refractory Products of the State Institute of Glass) jointly with the Yerevan Mullite Glass Container Plant has made experiments with alumina, kaolin, and Zirconic concentrate as charge components. These refractory materials are called baddeleyite corundum or Bakor in short, as their crystalline Card 1/3

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001033

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New molten refractory products $\begin{array}{l} S/131/61/00C/C12/001/002\\ B105/B101 \end{array}$ The service baddeleyite (ZrO <sub>2</sub> ) and corundum (a-Al <sub>2</sub> O <sub>3</sub> ). Since 1950 the plant has produced Bakor on an industrial scale. The service life of Bakor in glass furnaces is 20-30 months at 1480-1500°C. Jointly with the listitute of Glass, experiments were made for the production of Bakor-33, institute of Glass, experiments were made for the production of Bakor-33, alumira. zircon free from iron, and industrial zirconium dioxide were alumira components. Additions: marble dust and calcined soda. Bakor-33 is molten at 1900-2000°C and cast at 1800-1820°C. Heat treat- ment takes 8-10 days. Its specific gravity is 3.6 - 3.7 g/cm <sup>3</sup> , the weight of unit volume 3.3 - 3.6 g/cm <sup>2</sup> , the maximum apparent porosity 3%, sol <sub>2</sub> , 49.76% Al <sub>2</sub> O <sub>3</sub> ; 0.71% FeO <sub>3</sub> ; 0.84% CaO; 0.11% TiO <sub>2</sub> ; 1.92% alkalies; 32.92% ZrO <sub>2</sub> . By using Bakor-33 the glass melting temperature can be in- sol <sub>3</sub> 6-48 months. Main sources of scrap (40%) are cracks, large shrinkage arous its, and convexity of lateral faces, which is mainly caused by the	
Card 2/3	

15317123 S/131/61/000/012/001/002 B105/B101 New molten refractory products... imperfection of the production process. ASSOCIATION: Yerevanskiy mullitovo-steklotarnyy zavod (Yerevan Mullite Glass Container Plant) L Card 3/3

S/032/63/029/004/012/016 A004/A127 Toloshenko-Klimovitskiy, Yu.Ya., Vyacheslavov, A.A., AUTHORS: Mel'shanov, A.F. Apparatus for testing materials under high-speed loads TITLE: Zavodskaya laboratoriya, no. 4, 1963, 482,- 486 PERIODICAL: Although the interest in studying material properties under "high-speed" loads, during which the time up to destruction of the specimens is measured in milliseconds, is constantly growing, the mechanical characteristics under such loads have been practically not investigated at all due to the lack of adequate machines and instruments. The authors give a description of a laboratory-type installation for the testing of materials under high-speed loads, describing in detail the loading device, the apparatus for recording the loads and deformation of the specimens and point out that the loading pulses are in the range of from some milliseconds to one second. The block diagram of the electronic portion of the apparatus and an oscillogram of the high-speed load testing of Cr3 (St.3) grade steel and amr6 (AMG6) ASSOCIATION: Institut mashinovedeniya (Institute of the Science of Machines) alloy are given. There are 5 figures. Card 1/1

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CIA-RDP86-00513R001033





KCROLEV, V.N., inzh.; TSIRKIN, M.Z., inzh.; LAVRUSHINA, N.S., inzh.; KOMTGRUVICH, L.M., inzh.; GUBAREV, A.A., inzh.; Prinimal uchastiye MEL'SHTEYN, L.G.
Insulation of bar winding heads of the stators of hydrogenerators and turbogenerators. Elektrotekhnika 36 no.8:16-18 Ag '65. (MIRA 18:9)
I. eningradskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta elektromekhaniki (for Mel'shteyn).

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MELSKI, Boguslaw

"Environmental factors and bryephytes" by Kathryn Benson-Evals Reviewed by Boguslaw Melski. Kosmos Biologia 11 no.2:209-211,1767



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Нау цё

HEL'TEVA, N. N.

USSR/Chemistry - Organic Compounds Chemistry - Halogenation

"The Action of Browine and Chlorine on a Glycol of the Diacetylene Series," Yu. S. Zal'kind and N.N. Mel'teva, Lab of Org Chem, Leningrad Technological Inst imeni Lensovet,  $10\frac{1}{4}$  pp

"Zhur Obshch Khim" Vol XVIII (LXXX), No 5

Studies the action of bromine and chlorine on 2, 5-dimethyl-octa-3, 5-diene-2, 7-diol, which produces a complex mixture of products. When they are halogenized by a 10% alkali solution, 3, 4-dichlor and 3 4-dibrom-5-keto-2, 5-dihydrofuran is obtained. Submittes 13 Sep 1547.

PA 8/49 171

11 May 52

MEL'EEVA, N. N.

USSR/Physics - Elastic Elongations of Polymers

"The Problem of Alastic Elongations (Expansions) of Polymers," A. I. Berr, D. M. Spitkovskiy, N. N. Mel'teva, Inst of High-Mol Compds, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol 84, No 2, pp 257-260

Authors give results of investigations of the magnitude of high-elastic elongations of rolyvinyl acetates of various mol wts. Authors state that the purpose of the investigations was to obtain the elasticity characteristics of a group of polymers by way of detg the max value of inverse elongation, which, according to them, was 10 times greater than theoretically possible. Authors conclude that subject phenomenon can be clarified by taking into consideration the mutual influence of interweaving mole not considered in the kinetic theory of high elasticity. Submitted by Acad A. F. Ioffe 19 Mar 52

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MEL'TEVA, N.N.; SHCHAGINA, L.V.; FREYMAN, A.A. Protein substances in cabbage. Report No.2: Determining the functional groups of proteins. Izv.vys.ucheb.zav.; pishch.tekh. (MIRA 17:4) no.1:63-65 '64.

1. Leningradskiy institut sovetskoy torgovli, kafedra organicheskoy i fiziko-kolloidnoy khimii.

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n <b>u din</b> Si ding wang se ter	Investigating the H-Terminal groups of zein in the "Degestanskaya"
	1. Kafedra khimii Leningradskogo instituta sovetskoy torgovli. (ZEIN)
	(THREON INE) (ASPART IC AC ID)
	(GLUTAMIC ACID)


MEL'TEVA, M.N.; REZNICHENKO, M.S. M-terminal groups of oryzenin isolated from "Zeravshanika" 2586 rice. Biokhimila 24 no.3:435-440 Ky-Je '59. (MIRA 12:9) 1. Chair of Chemistry, the Soviet Trade Institute, Leningrad. (ORYZENIN)







MEL'TEVA, N.N.

Determining the amino acid composition and N-terminal groups of some proteins in the Viner and Donetskii-650 barley.varieties. Biokhimiia 26 no.3:483-488 My-Je '61. (MIRA 14:6)

1. Chair of Chemistry, Institute of Soviet Trade, Leningrad. (BARLEY) (AMINO ACIDS)



LAZAREV, Ye.N.; MEL'TEVA, N.N.; PAVLOVA, M.S.

IN PROPERTY OF THE NEW YORK

Comparison of new varieties of incomatographic paper in the determination of amino acids and their dimitrophenyl derivatives. Lab. delo no.8:41:-456 (64. (MIEA 17:12)

1. Kafedra khimii (zaveduyushchiy - prof. A.V Markovich) i kafedra prodovol'stvennykh tovarcy czaveduyushchiy - prof. A.M.Malkov) Leningradskogo instituta sovetskoy torgovli im, F.Engel'sa.



SOV/24-59-2-25/30

AUTHORS: Denisova, L. M. and Mel'ts, I. O. (Moscow)

- TITLE: Cptimel Trajectory of Climbing at a Constant Velocity, Determined from the Fuel Consumption (Ob opredelenii optimal'noy po raskhodu topliva trayektorii nabora vysoty pri postoyannoy skorosti dvizheniya)
- PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1959, Nr 2, pp 141-143 (USSR)
- ABSTRACT: The problem is considered in the plane xoy where the axis x is directed along the force of gravity. The force of the aerodynamic resistance is expressed as Eq (1.1) (figure, p 142). In order to find the solution for v = const, the pulling force P is expressed as Eq (2.1) where G weight of the moving object, Θ angle between trajectory and horizon. The weight of the object is found from Eq (2.3) where G its initial weight. The expression (2.6) can be derived for the conditions (2.4) and (2.5). The maximum trajectory is determined by the minimum of the functional (2.7). If c is known, then the function of height x, defined as Eq (3.1), can be considered as a known function of the height. When the equation of the extreme trajectory is determined as Eq (3.4), then the functional (2.7) can be written as Eq (3.5) and Eq (2.6) as Eq (3.6).

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CIA-RDP86-00513R001033

HERITAL STATE

SOV/24-59-2-25/30 Optimal Trajectory of Climbing at a Constant Velocity, Determined from the Fuel Consumption Thus, it can be shown that the ratio ΔG/G on increases with an increase of v for a given c = c(x). The solution in plified equation for the ratio ΔG/G can be defined as Eq (5.3) for the conditions (5.4), (5.5) and (5.6) if it is assumed that cq = const and the density is expressed as Eq (5.1). SUBMITTED: June 24, 1958. Card 2/2

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(1)) 单位有限的 化合金的 化合金的 TRANS. F RUSE SCHIES 3000 s/0258/64/004/001/0003/0009 ACCESSION HR: AF4026948 (MOSCOW) AUMOR: Nel'ts, I. O. TITLE: Optimal serodynamic maneuvering for changes of orbital planes at near-circular speeds SOURCE: Inzhenerny\*y zhurnal, v. 4, no. 1, 1964, 3-9 TOPIC TACS: eerodynamic maneuvering, flight-path angle, lifting force, lifting vehicle, orbital inclination ABSTRACT: The variational problem for optimizing the velocity loss during acrodynamic maneuvering at small flight-path angles relative to the local. horizontal has been considered. The assumptions used by H. S. London (Change of satellite orbit plane by aerodynamic maneuvering. J. Aeronautic cal Sci., Paper, No. 61-5 New York, 1961) concerning centrifugal and lifting forces are reiterated, and the three-dimensional equations of motion for a lifting vehicle as a point mass are written. This study is concerned with the optimal laws controlling the angle of attack or lift-to-drag coefficient ratio k and the bank angle. It is assumed that k is known, finite, and a continuous function. The extremum problem is analyzed in three steps: Card 1/2

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ACCESSION NR: AP40269	48		•	
condition with a given magnitude for $y_0$ , $y_1$ ( that under equal atmos orbital changes äuring angle of attack and be of k. Closed-form exp for the aerodynamic ch	$v_1/v_0 = max$ (v-flight vel value for change of orbit y-altitude above earth's a pheric reentry and exit an ; an optimum flight regime unk angle corresponding to pressions are obtained for maracteristics as a function at to L. M. Shkadev for dis- partions and 1 figure.	al inclination and purface). It is sho gles there exists a region at almost a maximum in the m a general optimum m of the angle of a	a given . own for constant agnitude program	
ASSOCIATION: none		· •	• •.	
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USPENSKIY, V.A.; RADCHENKO, O.A.; GLEBOVSKAYA, Ye.A.; SHISHKOVA, A.P.; MEL'TSANSKAYA, T.N.; INDENBOM, F.B.; Prinimali uchastiye: KOLOTOVA, L.F., khimik; CHAGINA, T.P., tekhnik; BASKINA, T.B., laborant; VIKULINA, M.N., laborant; POLOVNIKOVA, I.A., fizik; PETROV, A.K., tekhnik; PONOMAREV, B.P., laborant; KHYAMYALYAYNIN, L.B., laborant; KLOCHKOV, B.N., laborant; RAGINA, G.M., vedushchiy red.; SAFRONOVA, I.M., tekhn.red.

> [Basic processes of the transformation of bitumens in mature and the problems of their classification] Osnovnye puti preobrazovaniia bitumov v prirode i voprosy ikh klassifikætsii. Leningrad, Gos.nauchno-tekhn.izd-vo neft.i gorno-toplivnoi lit-ry Leningr.otd-nie, 1961. 314 p. (Leningrad. Vsesoiuznyi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.185). (MIRA 15:4)

(Bitumen--Geology)





(MIRA 19:1)

MEL'TSER, B.S.; SMIRNOV, B.S. Introducing progressive work methods into the Mirgorod Test Drilling Office of the Petroleum and Gas Prospecting Trust of Poltava Province. Razved. 1 okh.nedr 31 no.4:53-54

Ap 165.

1. Mirgorodskaya kontora razvedochnogo bureniya.



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	myshlennosti.	es) (Ion exchan	an 1900 berge non bio-

MEL'TSER, I.A. Semicontinuous method for the production of baker's yeast. I.A. Mol'tear (from "Dis Branntweinwirtschaft," no. 12, 1956). Khleb. 1 kond. prom. 1 no.4:46-47 Ap '57. (MLRA 10:5) (Czechoslovakia--Yeast)
 (MLRA 10:5)
 (Szechoslovakia--Yeast)
 (MLRA 10:5)
 (MLRA 10:5)
 (Szechoslovakia--Yeast)
 (Szech

MEL'ISER, I.A. Salt solutions for removing water from yeast cells (from "Dis Brantweinwirtschaft," no.15 1956). Khleb.i kond.prom. 1 no.6:46-47 (MLRA 10:8) (MLRA 10:8) (MLRA 10:8) (Austria--Feast) (Salts)

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	USSR/Chemi	.cal	Technology - Chemical Products and TheirI-12Application.Fermentation Industry.
	Abs Jour	:	Ref Zhur - Khimiya, No 1, 1958, 2813
	Author Inst Title	::	Mel'tser, I.A., Kuramshin, Yu.N., Lozenko, M.F. Results of the Growing of Yeast in Yeast-Growing Apparatus Provided with Stationary and Revolving Air-Distributing Systems
	Orig Pub	:	Khlebopek. i konditersk. prom-st', 1957, No 7, 22-24
	Abstract	:	Accretion of yeast at different degrees of aeration increases on increase of the air supply from 5 to 20 m <sup>3</sup> / hour. Further increase of the aeration results in a decrease of the yields of yeast.
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HELITSER, I.A. Using ozonized water for the production of reast. Khleb.i kond.prom. (MLRA 10:8) (Teast) (Vater)

NEL!TSER, I...
Internal composition of the yeast cell (from "Die Brauwelt,"
 n.45/W6 1955). Khleb. i kond. prom. 1 no.12:41-42 D '57.
 (Yeast) (MIRA 11:1)











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MELTSER, L.A. rectly stated in a bounded domain D, situated in the first Meltzer, L. A. On the correct statement of Goursal's problem. Rec. Math. [Mat. Sbornik] N.S. 18(60), 59-104 (1946). (Russian. English summary) [MF 16677] quadrant so that the boundary of D contains the segments  $0 \leq x \leq a, 0 \leq y \leq b$ ; that is, conditions are given under which one has the following. (A) For every set of continuous and continuously differentiable bounded  $\psi_{\lambda}(x)$  ( $\lambda \leq l$  on (0, a)), A systematic study is given of conditions under which the problem of Goursat for the system  $\psi_n(y)$   $(l < n \le l + m \text{ on } (0, b))$  there exists just one set  $u_i$  (the ut and their first order derivatives continuous in D), satis- $\sum_{i=1}^{i+n} \int_{x_i} f_{i}(x, y) \partial u_i / \partial x + \sum_{i=1}^{i+n} \phi_{i}(x, y) \partial u_i / \partial y = \Phi_i,$ fying (1) and the relations  $u_{\lambda} = \psi_{\lambda}(x)$  for y = 0 (x on (0, a); (1)  $\sum_{i=1}^{j} f_{i}(x, y) \partial u_{i}/\partial x + \sum_{i=1}^{j} \phi_{i}(x, y) \partial u_{i}/\partial y = \Phi_{i},$   $j = 1, \dots, l + m; \Phi_{i}$  depending on  $x, y, u_{i}, \dots, u_{l+m}$ , is cor-  $j = 1, \dots, l + m; \Phi_{i}$  depending on  $x, y, u_{i}, \dots, u_{l+m}$ , is cor-  $j = 1, \dots, l + m; \Phi_{i}$  depending on  $x, y, u_{i}, \dots, u_{l+m}$ , is cor-  $j = 1, \dots, l + m; \Phi_{i}$  depending on  $x, y, u_{i}, \dots, u_{l+m}$ , is cor-Source: Mathematical Reviews, Vol 8, No. 2

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1.	MARTYNOVSKIY, Prof. V. and MEL'TSER, L.	·
2.	USSR (600)	
4.	Refrigeration and Refrigerating Machinery	÷
7.	Refrigerating effect of an eddy pipe. Khol.tekh. 29 no. 4, 1952.	
		·
9.	Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.	

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AUTHOR: Mel'tser, L., Candidate of Technical Sciences. 66-1-12/26 TITLE: Features of the regenerative cycle of a freon operated machine. (Osobennosti regenerativnogo tsikla freonovoy mashiny). PERIODICAL: "Kholodil'naya Tekhnika" (Refrigeration Engineering), . 4 1957, No.1, pp.37-39 (U.S.S.R.) ABJTRACT: The author has shown in earlier work (1,2) that in view of that fact that refrigeration machinery operates with oil circulation in the system, it is necessary to consider in the calculations the effect of the solubility of freon in oil. For improving the operation of the machines and automatic control by instruments it is also necessary to consider the features introduced as a result of the circulating oil. A characteristic feature of the oilfreon solution is an increase in the boiling temperature at a constant pressure and increased oil concentration. Application of a regenerative heat exchanger enables to conserve a practically constant boiling temperature with a reduced range of degassing in the evaporator without reducing appreciably the useful cooling capacity of the agent. Of particular interest is the influence of the Card 1/3oil on the specific cooling capacity  $q_{rr}$  of the oil-freen

Features of the regenerative cycle of a freon operated mixture; the graph, Fig.1, shows the results of calculations of q as a function of the mixture concentration and the final evaporation temperature for an initial boiling temperature of -25 C and a condensation temperature of 30 C and it can be seen that the influence of the concentration of the solution is very considerable in the case of small over-heating in the evaporator. The possible degree of regeneration depends on the oil concentration in the freon in front of the regulator; even in the case of small oil concentrations it is possible to materialise full super-cooling of the liquid to the initial boiling temperature. For an equal degree of super-cooling of the liquid the temperature of the steam flowing out of the regenerator is lower than in the case of operation with a pure cooling agent. For calculating this temperature it is necessary to start off with the initial concentration of the solution and the permissible maximum evaporation temperature. It is necessary to consider the favourable influence of regeneration on the operating characteristics of the compressor and on the magnitude of the theoretical volume cooling capacity. The author recommends use of

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Features of the regenerative cycle of a freon operated mechine. (Cont.) 66-1-12/26 regenerative heat exchange for Soviet machines of the type AK produced by Mekhanolit. There are three figures and 3 references, 2 of which are Slavic. AVAILABLE:

Card 3/3

MEL TSER L USSR/General Problems. Methodology. History. Scientific Α Institutions and Conferences. Instruction. Questions Concerning Bibliography and Scientific Documentation : Fef Jhur-Khimiya, No 3, 1958, 6837 A. Mal'skiy, V. Chaykovskiy, L. <u>Mel'tser</u>, 3. Chuklin Abs Jour Author Olesca Technological Institute of Food and defrigeration Industries lnst Odessa Technological Institute of Food and Refrigeration Industries Title : Anclodil'nava tekhnika, 1957, No 3, 32-35 Orig up To the 40th anniversary of the Great October Cocialist Levolution. A general review of tui-Abstract : tion and scientific activities.

Card 1/1

APPROVED FOR RELEASE: Wednesday, June 21, 2000 KUZNETSOV, A.; LIKHNITSKIY, G.; NEL TSM, June 21, 2000

Operating 4-cylinder compressor for double-stage compression. Khol. tekh. 35 no. 3:54-55 Ky-Je '58. (MIRA 11:7) (Compressors)

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SOV/66-59-2-29/31 14(1)Zhadan, S., Mel'tser, L. AUTHORS : Adjustment of Capacity and Cold Production of a Compressor (Regu-TITLE: lirovaniye moshchnosti i kholodoproizvoditel'nosti kompressora) Kholodil'naya tekhnika, 1959, Nr 2, pp 76-78 (USSR) PERIODICAL: ABSTRACT: The article refers to 2 foreign proposals: one aims at maintaining constant capacity of the compressor at variable temperature of condensation (William L. McGrath), "Electrical Demand in AC Equipment", "Refrigerating Engineering", 1957, Nr 2). In accordance with the other proposal it appears to be possible to maintain constant either the cold-producing capacity of the installation, or the power which it consumes at a variable temperature of evaporation ("Refrigeration Capacity", "Modern Refrigeration", 1957, Nr 8, p 342). There are 2 graphs and 1 schematic diagram. Card 1/1

14(1)	scv/66-59-5-3/35
AUTHORS:	Mel'tser, L., Candidate of Technical Sciences, Karavanskiy, I., Engineer
TITLE:	Investigation of the Ideal Cycle of the Philips Machine by Applying Thermodynamics of the Variable Gas Quantity
PERIODICAL:	Kholodil'naya tekhnika, 1959, Nr 5, pp 13-17 (USSR)
ABSTRACT :	The high efficiency of the Philips machine attaining temperatures of -80 to -180°C and its original construction has attracted great attention. The object of this article is to propose a new method of calculating the cycle of the gas regenerating machine of the Philips type. The investigation of the author is based on the thermodynamics of variable gas quantity, the principles of which were laid down by M.A. Mamontov / Ref 3 / whose method of calculation not only permits to arrive at new results, but conveys also a more complete picture of the processes taking place in the machine. This makes it possible to determine the true heat loads of the refrigerator, of the refrigerating head and of the regenerator, which is not possible with any other known methods of calculation, in particular those of Köhler and Yonkers and
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Investigation of the Ideal Cycle of the Philips Machine by Applying Thermodynamics of the Variable Gas Quantity

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of Kodegone  $\sum$  Ref 1 and 2 $\sum$  which methods the author briefly describes in the article. The author agrees with the conclusion at which Kodegone arrives, excepting that it refers to one particular case only, while the method proposed by the author permits to determine all values of the heat loads of the regenerator. From the graphs shown in the article it follows that for the cycle of the machine, taken as a basis for the calculation, the most favorable value of which as a basis for the maximum working volume of the cold space. There are 2 diagrams, 7 sets of graphs and 3 references, of which 1 is English and 2 are Soviet.

ASSOCIATION: Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy

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iSR. Institut avtomatiki	sbornik foscow,	Reep. Ed.: Ya.2. Taypkin; Ed. of Publishing House: Tach. Ed: I.N. Guseva	POSE: This collection of articles is intended for specialists in automation and remote control.	TRIADE: The book contains fifteen papers presented at the Tor and fifth scientific and recinical confreences, hold in 1955 and 1956, by junior and recinical confreences, in a sequential (institute of Automation and Telemechanice), i sequestion (institute of Automation and Telemechanice), i standery of Silannes, 1958. The private arrobated on the indi- vidual research of their authors. The oplication confision of the partsei Automatic Control, Components of Automatic and	Ramote Control Systems, Automated Electric Drive, Automatic Cheoring, and Remote Control. Lin, D.F. Mechanical Translent Processes of a Synchronous F With Mermanany Correlant Processes of a Synchronous	istication istication the qualitative of mechanical transferus control for conditions of ation. In analyzing the	efforthrough motors by seams of changing the frequency of the e-o gupply from ions, the process of starting at reduced fre- quencies and the process of motor scoeleration by a macorh abange of frequency were investigated exparatory. It as found that granthrough acceleration and bricking depend on the ras of	frequency change. The author forms equations and makes unalysis of the free transient process of a synchronous Pholironous motor system. There are 11 references 6 Sov English and 1 Gormon. No personalities are monitoned.	AUTONATIC CHECKING	stion of Operating C as two kinds of ionis as flormeter, both dat the latter to of n isues of the use of n sues of the use of n meter than for the meter than for the tet and l English.	<mark>Jtathovkiy,</mark> R.L. Causes of Instability of Gas Currents Analytical Mass Speetromoter and a Method of Periodic A	Calibration ma author presents experimental results of the practical application of periodic calibration in an experimental mass- application of periodic calibration in an experimental mass- spectrometer gas maiyzer developed lohning by IAT and the Teamor gastificating of Ministerical using very proxyhiennost SSR (All Winch vertific Research and using intering for the Underground Gastification of Goal, Ministry of the Coal the Underground Gastification of Goal, Ministry of the Coal	mork on automatic calls fa now boing conducted in limited scale. The auth the quantitative determina throw annulation in the lot pactned of automatic bet	untre used to increase to analyzers, and the autho industrial gas analyzers ( 4 Soviet, 3 Engiish and	
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SHUMILOVSKIY, Nikolay Nikolayevich; MEL'TSER, Lel' Vladinirovich; KALMAKOV, Andrey Alekseyevich; TENYAYEV, V.G., red.

> [Radicisotope methods for the automatic control of the composition of complex media] Radicizotopnye metody avtomaticheskogo kontrolia sostava slozhnykh sred. Moskva, Energiia, 1964. 63 p. (Biblioteka po avtomatike, no.113) (MIRA 17:12)



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> [Transactions of the Conference on the Outlook for the Development and Introduction of Refrigerating Equipment into the National Economy of the U.S.S.K.] Trudy Konferentsii po perspektivam razvitiia i medreniia holodil'noi tekhniki v narodnoe khoziaistvo SSSK. Moskva, Gostorgizdat, 1963. 262 p. (NIRA 18:3)

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