SYSAK, N. S.

Anthropology - Tatar Republic

Anthropological features of the inhabitants of the so-called Eurtasi culture. N.S. Sysak. Krat. soob. Inst. etn. AN SSSR 14, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952, UNCL.

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MESHCHERYAKOV, A.M. SYSAK, N.S.

Discussion on F. A. Volynskii's and E. P. Melman's article Synapses of certain abdominal organs. Arkh. anat., Moskva 30 no.2:94-95 Mar-Apr 1953. (CIML 24:3)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001654320002-8"

MESHCHERYAKOV, A.M.; SYSAK, N.S.

Letter to the Editor, in regard to Professor F.A.Volynskii's reply to A.M.Meshcheriakov's and N.S.Sysak's article which was published in "Arkhiv Anatomii, Gistologii i Embriologii" no.3 in 1953. Arkh.anat.gist.i embr.30 no.6:88-89 N-D '53. (MIRA 7:1) (Volynskii, F.A.) (Meshcheriakov, A.M.) (Sysak, N.S.)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001654320002-8"

(Morphology)



"The Growth Morpholo y of the Human Skull." Dr Led Sci, Chair of Human Morphology, Kazan State Medical Inst, Kazan', 1954. (KL, No 12, Mar 55)

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

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SYSAK, N.S. (Kazan')

生物的理想

A case of microcephaly with absence of the pneal gland and underdeveloped genital organs. Probl.endokr. i gorm. 2 no.2:121-124 (MLRA 9:10) Mr-Ap '56. 1. Iz patologoanatomicheskogo otdeleniya Kazanskoy psikhonevrologicheskoy bol'nitsy (glavnyy vrach A.M.Kravtsov) (MICROCEPHALY, compl. absence of pineal gland & underdevelop. of genital organs) (PINEAL BODY, abnorm. agenesis, in microcephaly & underdevelop. of genital organs) (GENITALIA, abnorm. hypoplasia, with microcephaly & pineal body agenesis) (ABNORMALITIES agenesis of pineal body & hypoplasia of genital organs in microcephaly)

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CIA-RDP86-00513R001654320002-8 **"APPROVED FOR RELEASE: 08/31/2001**

USSR / Human and Animal Morphology (Normal and Pathological). S Circulatory System. Blood Vessels. : Ref Zhur - Biologiya, No 1, 1959, No. 2928 Abs Jour : Sysak, N. S. Author : Kazan Medical Institute : Anastomoses of Cerebral Arteries and Their Practical Inst Title Significance : Sb. nauchn. rabot. Kazansk. med. in-t, 1957, vyp 4, Orig Pub 248-257 : On the basis of personal (87 specimens of the human brain of various age) and literary data, speculations Abstract were made as to the possibility of development of collateral circulation in the brain, Anastomoses between various arteries are described and the frequency of their occurrence is indicated. It is noted that normally each peripheral branch of cerebral arteries supplies a Card 1/2 14 APPROVED FOR A Store 08/31/2001 CIA-RDP86-00513R001654320002-8" S

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: Ref Zhur - Biologiya, No 1, 1959, No. 2928 Abs Jour

> definite region of brain substance, but in spasns or vascular occlusion the existing anastomoses help supply the blood flow from other sources.

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USSR / Human and Animal Morphology (Normal and Pathological). Circulatory System, Blood. Vessels.

: Ref Zhur - Biologiya, No 1, 1959, No. 2927 Abs Jour

> presence of 2 rostral sulci there is a special rostral artery, etc. A defect in any segment of the brain causes a defectiveness in the supplying arteries. In microcephaly the number of arteries and their caliber is diminished. Variation of the size of the brain even within normal limits is associated with diminished or increased number of arterial branches. In the process of growth the changes of the arterial system occur simultaneously with the cellular reorganization in the hemispheres.

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SYSOK, N.S. (Kazan') Alexandrians Herophilus and Brasistratus, pioneers of materialistic theory on the nervous system. Zhur.nevr. i psikh. 57 no.9:1166-1168 (MIRA 10:11) 157. (HEROPHILUS, 300 B.C.) (KRASISTRATUS, 300 B.C.) (NEUROLOGY, history, contribution of Brastrates & Herophilus (Rus)) ÷.

SYSAK, H.S.
Pathogenesis of alchoholic encephalopathy; Vernicke's policencephalitis [with summary in French]. Zhur.nevr. i psikh. 57 no.10:1223-1228 '57.
A. Kazanskaya psikhonevrologicheskaya bol'nitsa (glavnyy vrach A.M. Krevtsov).
(VITAMIN B DHFICIENCY, etiology and pathogenesis.
Wernicke's encephalopathy (Rus))

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SYSAK, N.S. (Kazan')

Views of Rudolph Virchow on the problem of the local and general in medicine; on the centenary of Virchow's "Cellular Pathology". Klin.med. 36 no.4:139-143, Ap'58 (MIRA 11:5) (VIRCHOW, RUDOLF, 1821-1902)

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SYSAK, N.S. Problem of thromboendarteritis obliterans. Zhur.nevr.i psikh. 61 no.31396-399 '61. 1. Kazanskaya psikhonevrologicheskaya bol'nitsa (glavnyy vrach F.F.Davletshin). (THROMBOSIS) (BRAIN)

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001654320002-8"

SYSEL, Ivo

Batching device for preparing chill cast mixtures. Slevarenstvi 10 no.1:28 Ja '62.

1. Automobilove zavody, narodni podnik, Mlada Boleslav.

CIA-RDP86-00513R001654320002-8 "APPROVED FOR RELEASE: 08/31/2001 WINDOWN ZER HURNIK, Stanislav, Promovany geolog; SYSEL, Pavel, promovany geolog Determining the granularity of filter layers in the north bohemian lignite basin. Uhli 6 no.5:169-172 My '64 1. Institute of Lignite Research, Most. **立在15月**月

CIA-RDP86-00513R001654320002-8

SYSEL, Vladimir, inz.

Permanent Commission for Standardization of the Council for Mutual Economic Assistance and Standardization Institute of the Council for Mutual Economic Assistance, their tasks and present activity. Normalizace 11 no.11:352-354 N¹63.

1. Urad pro normalizaci a mereni, Praha.

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SYSEL, Vladimir, inz.

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List of recommendations accepted by the Permanent Commission for Standardization of the Council for Mutual Economic Assistance, Normalizace 12 no.1:28-29 Ja'64.



SYSENKO, I. and the second second second

Control audits are an important means against padded entries in construction work. Fin.SSSR no.7:35-37 J1 '57. (MLRA 10:7)

1. Upravlyayushchiy Kirgizskoy respublikanskoy kontoroy Pronbanka. (Construction industry -- Finance) (Fraud)

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LOGVINENKO, A.A.; PLUZHNIKOV, V.Kb.; PANOVA, G.V.; SYSHCHENKO, T.Ye.; FIRAGO, B.A.; SHCHEGOLEV, D.Ye.; NEVEL'SKIY, A.V., nauchnyy sotrudnik

Results of photographic observations of artificial earth satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.11:20-28 '60. (MIRA 14:12)

1. Nachal'nik stantsii nablyudeniya iskusstvennykh sputnikov Zemli No.031 (for Logvinenko). 2. Nachal'nik stantsii nablyudeniy iskusstvennykh sputnikov Zemli No.60 (for Pluzhnikov). 3. Glavnaya (Pulkovskaya) astronomicheskaya observatoriya AN SSSR (for Panova, Syshchenko, Firago, Shchegolev). 4. Astronomicheskaya observatoriya Ural'skogo gosudarstvennogo universiteta (for Nevel'skiy). (Artificial satellites -- Optical observations) (Astronomical photography)

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UTER STREET BELLEVILLE 82479 s/035/60/000/04/16/017 A001/A001 Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 4, p. 71, # 3393 3.1230 3,2300 Panova, G. V., Syshchenko, T. Ye., Firago, B. A., Shchegolev, D. Ye. AUTHORS: Observations of the Second Earth's Artificial Satellite (1957 β) at TITLE: Station No. 039 (Pulkovo) Byul. st. optich. nablyudeniya iskusstv. sputnikov Zemli, 1959, No. PERIODICAL: 6, pp. 1-5 (English summary) Results of observations and processing of photographs taken with two TEXT: standard cameras are described in detail. Coordinates were determined by the method of A. A. Kiselev and partially by A. N. Deych's method. One "node" point was obtained from one negative relative to which coordinates and time were interpolated several times. The following factors were taken into account: diurnal rotation of the sky, refractional parallax of the sputnik, systematic errors in measuring the edge of the sputnik track, track curvature and sputnik acceleration. Relative time instants were reduced to the standard time of the USSR with \mathcal{V} Card 1/2新日本的政府和自己的建立

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 $\begin{array}{c} 821,79\\ s/o35/60/000/04/16/017\\ A001/A001\\ \end{array}$ Observations of the Second Earth's Artificial Satellite (1957 β) at Station No. 039 (Pulkovo)\\ \end{array}
allowance for the lag of the camera, chronograph and other units of the equipment, the run and corrections of the printing chronograph and quartz clock. Astrographic coordinates of the node points (68 in total) are published for the epoch of 1950.0; other data include: instant in the system of standard time of the sputnik motion, and some other data. The accuracy of the published time instant is characterized by the root-mean-square error of ± 0.005 ; the inner (in distinction from the error of instants) accuracy of coordinates is ± 0.2 sec of and $\pm 3'$. B. A. Firago

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OMAROV, T.B.; PANOVA, G.V.; SYSHCHENKO, T.Ye.; FIRAGO, B.A.; SHCHEGOLEV, D.Ye.; LIYGANT, M.; SAVRUKHIN, A.P.

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Results of photographic observations of artificial satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.10:17-24 '59. (MIRA 13:3)

1. Astrofizicheskiy institut AN KazSSR (for Omarov). 2. Glavnaya astronomicheskaya (Pulkovskaya) observatoriya AN SSSR (for Panova, Syshchenko, Firago, Shchegolev). 3. Nachal'nik stantsii nablyudeniya iskusstvennykh sputnikov Zemli, Institut fiziki i geofiziki AN Tadzhiskoy SSR (for Savrukhin). 4. Nachal'nik stantsii Tartusskogo gosudarstvennogo universiteta (for Liygant). (Artificial satellites--Tracking)

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SYSHCHENKO, T.Ye.; FIRAGO, B.A.; SHCHLGOLEV, D.Ye.; NEVEL'SKIY, A.V., mladshiy nauchnyy sotrudnik; KIRICHENKO, A.G., vychislitel'; BRATIYCHUK, M.V.; MAKSYUTOV, mladshiy nauchnyy sotrudnik; KALIKHEVICH, F.F., mladshiy nauchnyy sotrudnik; IVAKINA, T.Ya., laborant; KLEPESHTA, I.; RAYKHL, R.; VRATNIK, A. Results of photographic observations of artificial earth satellites. Biul.sta.opt.nabl.isk.sput Zem. no.4:17-23 '60. (MIRA 13:11) 1. Glavnaya (Fulkovskaya) astronomicheskaya observatoriya AN SSSR (for Syshchenko, Firago, Shchegolev). 2. Astrosovet AN SSSR (for Nevel'skiy). 3. Nachal'nik stantsii opticheskikh nablyudeniy iskusstvennykh sputnikov Zemli, Uzhgorod (for Bratiychuk). 4. Stantsiya opticheskikh nublyudeniy iskusstvennogo sputnika Zemli, Uzhgorod (for Kirichenko). 5. Astronomicheskaya observatoriya im.Engel'gardta, Kasan' (for Maksyutov). 6. Nikolayevskoye otdeleniye Glavnoy astronomicheskoy observatoriya v Prage, Chekhoslovakiya (for Klepeshta, Raykhl, Vratnik). (Artificial satellites -- Tracking)

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A THGRS: Panaiotov, L. A.; Syshchenko, T. Ie	· /00
TILE: Results of photographic observations o	f artificial earth satellites $37/$
R F K Et AN ESSR. Astronomicheskiy sovet, Byul	laten' stantsiy opticheskogo
IOFIC TAGS: artificial earth satellite, satel	91
ABSTRACT: The methods used and results obtain earth satellites (ISZ) in 1961 and 1962 were r istablished at Pulkovo in 1961 and was equipped Uran 12" objective. The camera was mounted of one axis was free to follow the orbit of the s a wide range of observation and flexibility of exposure time register was integrated with the torm. In will 30 photographs of two satellite	d with a motion film camera having a m a triaxial azimuth stand so that atellite. The camera mount permitted tracking speed. An electronic film ouartz timer system of the observa-

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equipment used in the tests.	Neason and the diff h			
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BEOVKO, I.A., inzh.; <u>SYSHCHIKOV, B.S., inzh.</u> USM-500 universal welding manipulator. Svar. proizv. no.3:32-34 Mr '61. (MIRA 14:3) 1. Vsesoyuznyy proyektno-tekhnologicheskiy institut tyzzhelogo mashinostroyeniya. (Welding-Equipment and supplies)

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ACCESSION NR: AP3001176 S/0089/63/014/005/0465/0468 64
AUTHOR: Ibragimov, Sh. Sh.; Sy*shchikov, L. A.; Voronin. I. M.; Kudrysshov, V. G.
TITLE: Investigation of spent fuel elements of the First Atomic Electric Station 19
SOURCE: Atomnaya energiya, v. 14, no. 5, 1963, 465-468
TOPIC TAGS: spent fuel element, First Atomic Power Plant, fuel burnup, micro- structure, microhardness, tensile strength, microcrack
ABSTRACT: Tests have been made of three spent tubular fuel elements used in the Pervaya atomnaya elektrostantsiya (First Atomic Power Plant) for 111, 324.5, and 557 days with mean fuel burnups of 11.8, 28, and 59%, respectively. The fuel elements consisted of two concentric steel tubes whose annular clearances were filled with fuel (a uranium-molybdenum alloy containing 9% molybdenum and metallic magnesium). During operation, the fuel elements were water cooled. Water inlet temperature was 175-190C and exit temperature, 260-280C. The maximal temperature of the external surfaces did not exceed 360-370C. The tests involved external examination of the elements, exact measurement of the diameter, metallographic
examination of the elements, exact measurement of the through no external damage investigation, and mechanical tests of ten tubes. Although no external damage
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to the elements was found, a thin (about 1 μ) oxide film, varying in color from light-brown to dark-grey, formed on the element surfaces, and some swelling appeared along the length of the fuel element; the maximal increase in diameter, which occurred at the middle point, amounted to 0.10, 0.15, and 0.20 mm for fuel elements operated for 111, 324.5, and 557 days, respectively. The microstructure of the tube material did not undergo significant changes. Interaction between steel, magnesium, fuel, and the surrounding medium was confined to the fuel elements which operated for 111 and 324.5 days. Microcracks up to 100 μ deep were found in fuel elements which operated for 557 days. The tensile strength and microhardness of the tubes increased and the elongation decreased. These changes were most pronounced for external surfaces. With an increase in fuel. burnup, and consequently of integral neutron flux, the strengthening of the tube material increased. The results are recommended for use in designing similar type reactors. Orig. art. has: 5 figures and 2 tables.

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NO REF SOV: 005

ASSOCIATION: none

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Authors	:	Yermilov, P. I., Polyakov, Z. N., Syshchikov, L. I.	-
Title	:	The temperature of spontaneous ignition of carbon black	
Periodical	:	Khim. prom., No 7, 435-436 (51-52), Oct-Nov 1954	of
Abstract	:	Determined the temperature of spontaneous ignition of 8 grades carbon black in dry air, moist air, and dry oxygen and list th obtained. Five references, all USSR, all since 1940. One tak	le data ple.
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S/138/60/000/011/008/010 A051/A029

AUTHORS: Kudryavtsev, L.D., Akimenko, V.I., Syshchikov, L.I.

TITLE: Experience in Synthetic Latex Production at the Voronezh Synthetic Rubber Plant im. S.M. Kirov

PERIODICAL: Kauchuk i rezina, 1960, No. 11, pp. 33-35

TEXT: In the present article the authors have outlined their attempts to produce new latexes for the tire industry. The method for preparing the solutions and their resultant characteristics are given. The VNIISK and other scientific research institutes have developed the new formulation and the production procedures for the new type of latexes. In 1959 at the Voronezhskiy zavod SK im. S.M. Kirova (Voronezh SR Plant im. S.M. Kirov) a new shop was put into operation intended for the production of several types of commercial synthetic latexes including that of CKC-30 UIXII(SKS=30ShKhP) and CKD-1 (SKD-1), CKC-65FII(SKS-65GP) (deep polymerization) for the production of emulsion dyes, CKC-50TF (SKS-50PG) ("foam hot rubber") for the production of 8 types of synthetic latexes on an in-Card 1/9

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Experience in Synthetic Latex Production at the Voronezh Synthetic Rubber Plant im. S.M. Kirov

dustrial scale. The SKS-30ShKhP and SKD-1 latexes, the production methods of which are described, are said to have significantly increased the stability of adhesion between rubber and cord and thus improved the quality of the casings. The solutions were prepared in the following manner: An aqueous-alkaline solution of the emulsifier (aqueous phase) was prepared in a cylindrical sealed apparatus (1) supplied with a mixer (Fig. 1). Desalted water is pumped into the apparatus 1, then through the apparatus 2, through a measuring tank 3 a 25-30% solution of fatty acid soap is poured and through a measuring tank 4 a 32-37% solution of leuconal. An ammonium solution enters the apparatus 1 through a measuring tank 5. After measuring out all the components water is added to the final level and sodium sulfite is also added. In order to remove the iron salts and other admixtures the ready aquecus phase is left to stand for several hours. The soap solution is prepared in apparatus 2. Desalted water is pumped into the apparatus and alkali is added. The alkaline solution is heated to $60-70^{\overline{0}}$, after which fatty acids are added according to calculation. A Card 2/9

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Experience in Synthetic Latex Production at the Voronezh Synthetic Rubber Plant im. S.M. Kirov

2-5% emulsion of cumene hydroperoxide in a soap solution, prepared in apparatus 8, is used as the initiating agent of the polymerization process. The activator of the process is prepared in apparatus 10, where desalted water is pumped and hydroquinone and sodium sulfite are added. Trilon B is also added, which forms a complex compound with iron salts. The regulator of the polymerization process is diperoxide or bisethylxanthogenate. In order to simplify the dosaging, the regulator in apparatus 9 is first dissolved in styrene. The thin suspension of the stabilizer (Neozone D) is obtained on a colloidal mill 13, where a raw suspension of Neozone D enters from apparatus 12. From the capacity holder 14 serving as the collector the suspension is pumped off by a pump into the measuring tank 16. The polymerization is conducted in the polymerizer 24 with a capacity of 12 m² supplied with a mixer, from which first the oxygen is removed prior to the loading. The aqueous phase is poured from the measuring tank 17, the activator solution enters from the measuring tank 11. After the activator from the measuring tank 18 is added, styrene is then also

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Experience in Synthetic Latex Production at the Voronezh Synthetic Rubber Plant im. S.M. Kirov

added and from the measuring tank 19 divinyl is introduced. The initiator is measured from the measuring tank 20, using a measuring plunger pump 21. The loading of the components is carried out at 10-12°C. The reacting mixture in the polymerizer is heated to 20 20C. This temperature is kept up to the end of the process. Removal of the heat formed during the polymerization process is accomplished by supplying cold water to the container and a brine solution to the spiral tube of the apparatus. At a depth of polymerization equalling 15, 30 and 45% the regulator solution is measured out in equal amounts from the measuring tank 22. by means of a pump 23. The polymerization process is completed when the depth reaches 60% corresponding to a content of 27-28% dry substance in the latex. The polymerization duration is 60-20 hours. The latex is cooled to 10°C and poured into a cistern 25, previously treated with a solution of complex phenols. The non-degasified latex contains a large number of free monomers which are distilled off on a two stage distilling column 28. By

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Experience in Synthetic Latex Production at the Voronezh Synthetic Rubber Plant im. S.M. Kirov

means of a pump 27 the latex is fed to the top part of the first stage of the column 28 and from there it is pumped over to the top part of the second stage. From the vat of the column the degasified latex passes through a hydro-lock 30 and is poured down into the capacity holder 31, from where it is pumped with a pump to a storing house. Live steam is fed to the top part of the 2nd stage. From the vat of the 2nd stage aqueous vapor and monomer vapors enter the 1st stage, from where they pass to condensation. The monomer distillation from the latex is done under a vacuum of 600-650 mm Hg created by a water-ring vacuum pump of the PMK-3 (RMK-3) type. The commercial SKS-30ShKhP latex is said to satisfy the following technical conditions: dry substance content in the latex, %.... no less than 24, Neozone D content, %..... 1.2-2, pH.....9.5-11, dissolution threshold.....1:100, gelatinization temperature, ^C... not below +5, hardness of the copolymer, according to Defoe, g.....1,500-4,000. The shortcoming of the latex is a lowered stability compared to SKS-30 latex. The measuring out of the initiator and the regulator

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Experience in Synthetic Latex Production at the Voronezh Synthetic Rubber Plant im.S.M. Kirov

directly carried out from the measuring tanks by means of leveling lines causes the foam of the latex to clog the measuring tanks leading to a disruption of the measuring accuracy. In order to eliminate these shortcomings it was suggested to establish measuring pumps of the plunger type. One of the main aspects in perfecting the recommended flow-sheet is the change-over from the batch-type to the continuous method. The latter would improve the production standard and quality and to increase the output. Another shortcoming is said to be the presence of "dead levels" in the cisterns of the non-degasified and degasified latex. In changing from one type of latex to another a great deal of work is involved, in order to free the cisterns of latex remains, leading to irreversible loss of the finished product. In discussing the production method of the SKD-1 latex, it is said that the polymerization is carried out in an acidic medium formed by an organic unsaturated acid. The principal scheme is the same as for that of the SKS-JOShKhP latex. A

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CIA-RDP86-00513R001654320002-8

s/138/60/000/011/008/010 A051/A029 Experience in Synthetic Latex Production at the Voronezh Synthetic Rubber Plant im. S.M. Kirov solution of Nekel is dissolved and kept for 24 hours in order to eliminate the iron salts. A 5%-emulsion of hydroperoxide in Nekal is used as the initiator. At a depth of the polymerization of 53-56% the latex is poured into the cistern. The SKD-1 latex is said to have the following characteristics: dry substance content, %.... no lower than 18, Neozone D, % 1-2 of the dry substance, pH....8.5-9.0, threshold of dissolution1:100, gelatinization temperature, °C.... not below 5, copolymer hardness, according to Defoe, g....1,500-4,000. There is one flow-sheet. ASSOCIATION: Voronezhskiy zavod SK im. S.M. Kirova (Voronezh SR Plant im. S.M. Kirov) ħ. Card 7/9 Ţ,

APPROVED FOR RELEASE: 08/31/2001

PANAIOTOV, L.A.; SYSHCHENKO, T.Ye.

Positions of Soviet artificial earth satellites (1960 ε_2 and 1960 ε_3) in 1961-1962 obtained from photographs with a slidingfilm camera in Pulkovo. Biul. sta. opt. nabl. isk. sput. Zem. (MIRA 17:7) no.33:20-25 '63.

1. Glavnaya astronomicheskaya observatoriya AN SSSR.

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CIA-RDP86-00513R001654320002-8

Syshehikov, V.I. 137-58-2-4254 Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 281 (USSR) Chechulin, B.B., Syshchikov, V.I. The Cyclic Strength of Titanium (Tsiklicheskaya prochnost' AUTHORS: TITLE: V sb.: Metallovedeniye. Leningrad, Sudpromgiz, 1957, titana) PERIODICAL: A study was made of the cyclic strength characteristics of industrially pure Ti, i.e., of O_W , of the character of the curve of endurance and notch sensitivity in the presence of cyclic loads, ABSTRACT: and of the influence exerted by a corrosive medium and by the admixture of H. An ingot of magnesium-fusion-process Ti, pro-duced in an arc furnace (wherein $Ob = 58.8 \text{ kg/mm}^2$, $\delta = 24\%$, duced in an arc furnace (wherein $O_b = 58.8 \text{ kg/mm}^2$, $\delta = 24\%$, $a_k = 5.9 \text{ kg/mm}^2$), was forged into test specimens at temperatures of 750-900°C, which were subsequently annealed for 45 minutes at 650-680°. The tests consisted in 107 cycles of bending in alternate directions of a rotating cantilever bar. The clear emergence in the curves plotted in semilogarithmic coordinates of a dependence of σ_w on the number of cycles is a good indication that the Ti does have a \mathcal{O}_{W} . Even when the test specimens were not very Card 1/2- -

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The Cyclic Strength of Titanium

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carefully polished, σ_w in the case of the smooth bars equalled 30.8 kg/mm², carefully polished, \mathcal{O}_{W} in the case of the smooth bars equalied 50.0 kg/mm, , i.e., was equal to 0.525 \mathcal{O}_{W} (or 0.61 \mathcal{O}_{S}). When circular notches were cut into the specimens, the base radii of the notches being 0.75 and 0.15 mm, this markedly lowered the $\sigma_{\rm W}$ (to 21 and 11 kg/mm² respectively). A comparison of the effective stress concentration factors in the case of Ti and that of various grades of steel (carbon steels and alloy steels) revealed that the Ti possessed the least notch sensitivity when the cyclic ratio (σ_w smooth/ σ_w notched) = 1.46. Tests made with the smooth and notched bars in synthetic sea water (similar in composition to that of the Pacific Ocean) showed that, in contrast to the steels and ordinary nonferrous alloys, a corrosive medium has practically no effect on the \mathcal{O}_W of Ti. Annealing the Ti in a 10⁻³ mm Hg vacuum at 950° for 2-10 hours more than doubled its a_k but affected hardly at all (with respect to relative grain size) its \mathcal{O}_W and its notch sensitivity in the cyclic tests. The presence of H did not exert any decisive influence on the fatigue characteristics of the Ti.

1. Titenium alleys--Characteristics

Card 2/2

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CIA-RDP86-00513R001654320002-8



APPROVED FOR RELEASE: 08/31/2001

CHECHULIN, B.B., kand.tekhn.nauk; STSHCHIKOV, V.I., inzh. Investigating the fatigue strength of welded titanium joints. Svarka 1:156-165 '58. (HIRA 12:8) (Titanium--Welding) (Titanium--Fatigue)

APPROVED FOR RELEASE: 08/31/2001







SOV/129-59-4-5/17

Kaptyug, I.S. (Candidate of Technical Sciences) and AUTHORS: Syshchikov, V.I. (Engineer)

- Influence of Alloying on the Friction Properties of Titanium (Vliyaniye legirovaniya na friktsionnyye TITLE: svoystva titana)
- PERIODICAL: Metallovedeniye i Termicheskaya Obrabotka Metallov, 1959, Nr 4, pp 22-27 (USSR)
- ABSTRACT: The authors investigated the friction properties of some titanium alloys produced in an induction furnace from a de-gassed sponge metal containing 0.01% C, 0.14% Si, 0.16% Fe, 0.08% Mg. The smelting and the alloying were effected in graphite crucibles in an argon atmosphere. The chemical compositions and the mechanical properties of the heats are entered in Table 1 (p 23), and it can be seen that 0.38 - 0.80% C passed from the crucibles into the alloy. Ingets of 70 - 90 nm diameter were forged into rods of 15 mm diameter which were then cooled in air. From the latter, specimens were produced for tensile tests and also for friction tests. In the experiments the coefficient of friction and the tendency Card 1/3 to seizing were investigated (at specific pressures of 10, 100 and 300 kg/cm²; at each of these 30 sliding

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E STATISTICS CONTRACT

SOV/129-59-4-5/17 Influence of Alloying on the Friction Properties of Titanium motions were made), as well as the wear resistance, the hardness and the microstructure. The obtained results are entered in tables and plotted in graphs. The authors arrived at the following conclusions: 1) Alloying of titanium brought about only a slight reduction in the static friction coefficient (from 0.55 to 0.45 in a rubbing pair with titanium and from 0.20 to 0.15 in a rubbing pair with brass) and in the depth of penetration of the damage in the case of dry sliding friction. 2) Titanium and the investigated titanium alloys proved to have a very low wear resistance against sliding friction; the wear was 15 - 30 times as high as that of brass, bronze or stainless steel. 3) The investig 3) The investigated titanium alloys as well as pure titanium are unsuitable for components subjected to friction under high pressure. Card 2/3 However, they can be used in rubbing pairs with brass or

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SOV/129-59-4-5/17 Influence of Alloying on the Friction Properties of Titanium bronze in the case of relatively low loads. There are 5 figures and 4 tables.

Card 3/3

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	AUTHOR: Berezkina, M. K. (Leningrad); Semenov, A. N. (Leningrad) 77 Syshchikova, M. P. (Leningrad) B
	TITLE: Certain methods for investigating nonstationary phenomena in shock tubes
	SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 5, 1964, 154-159
	TOPIC TAGS: shock tube, shock wave, detached shock, detachment distance, boundary layer, nonstationary flow, reflected shock wave, shock wave diffraction, bow shock wave
· · ·	ABSTRACT: An experimental investigation is presented of nonstationary phenomena in shock tubes, such as formation and development of flow near a model generated by a travelling shock wave. The process of flow formation consisting of the reflection and diffraction of shock waves, the formation of a bow shock wave ahead of a body, the genera- tion and development of a boundary layer, and the formation of flow in the wake of a body are of particular interest to the theory of non-
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L Lh481-65 HMT(1)/EMP(m)/EMG(v), FCS(k)/EMA(1) Pd-1/Pe-5/Pi-4 BSD/ASD(f)-2/SSD, AF (L/AEDC(a)/SSD(b)/AS(dp)-3/AFETR/AFTC(a)/AEDC(b) ACCESSION NR: AP4049043 \$/0057/64/034/011/2015/2020 B AUTHOR: Sy*shchikova, M. P.; Berezkina, M. K.; Semenov, A. N. TITLE: Formation of a bow shock wave ahead of a body in a shock tube SOURCE: Zhurnal tekhnicheskoy fiziki, v. 34, no. 11, 1964, 2015-2020 TOPIC TAGS: hypersonic flow, bow shock wave, shock wave, shock tube, shock detachment distance, shock wave reflection ABSTRACT: A theoretical and experimental investigation of the formation of a bow shock wave ahead of a body in a shock tube is described. The bow shock wave is generated by the interaction of a shock wave produced in the shock tube with a spherical obstacle. The investigation was carried out in nitrogen and CO... The phenomena are described in detail and expressions for determining the reflected shock velocity and the shock detachment distance are given. The experimental procedu and associated apparatus are described. The theoretical and experimental shock detachment distances are given in graphical form for Card 1/2

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ncident shock waves ranging	ng from 2.75 M to 4.	65 M in nitrogen and	
.98 M to 7.53 M in CO2.	The time required fo	or shock wave formation	
s determined from shlierer	n photographs. Orig	. art. has: 7 figures	
nd 2 formulas.			
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SYSHCHUK, D.L.

12

Main ions and biogenic elements in Kayrakum Reservoir during its filling. Trudy Inst. zool. i paraz. AN Tadzh. SSR no.26:25-33 *63 (MIRA 17:3)

1. Institut khimii AN Tadzhikskoy SSR.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654320002-8"

CHUPRIKOV, I., elektrik; AVERKIN, G., starshiy stalevar; KAREV, Ye., kuznets; IVANOV, I., master; SYSHINOV, A.

> New norms but old usages. Okhr. truda i sots. strakh. 4 no.5:42-44 My '61. (MIRA 14:5)

> l.Spetsial'nyy korrespondent zhurnala "Okhrana truda i sotsial'noye strakhovaniye" (for Sushinov).

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APPROVED FOR RELEASE: 08/31/2001

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L 41746-66 EWT(1) IJF(c) GG/AT	
ACC NR: AP6018037	SOURCE CODE: UR/0185/66/011/006/0644/0652
AUTHOR: Savchenko, M. A.; Syshkin, L. A	Shishkin, L. A. 57
ORG: Physicotechnical Institute, AN UkrSSR Physicotechnical Institute of Low Temperatur niz kykh temperature AN URSR)	(Fizyko-tekhnichnyy instytut AN URSR); res, AN UkrSSR (Fizyko-tekhnichnyy instytut
TITLE: Coherent amplification of magnetost antiferromagnets	
SOURCE: Ukrayins'kyy fizychnyy zhurnal, v.	11, no. 6, 1966, 644-652
TOPIC TAGS: antiferromagnetism, magnetic s electron beam	usceptibility, magnetization, oscillation,
ABSTRACT: The authors calculate the growth tions induced in an <u>antiferromagnet</u> by an e assumed for simplicity to be in the form of and the components of the susceptibility te antiferromagnets: (i) with anisotropy of th magnetism, (iii) with magnetic anisotropy of than the reversal field, (iv) with magnetic field stronger than the reversal field. Th	a plate. Maxwell's equations are used ensor are written out for various types of he easy plane type, (ii) with weak ferro- of the easy axis type, in a field weaker c anisotropy of the easy axis type, in a he dependence of the growth increments on
the modium and on oth	er parameters is determined. It is shown oscillations takes place in the antiferro-

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magnets i different Bar [¶] yakht	n certa:	in strictly of of antiferrom a discussion	ng (m) of g 111) (19	r considers	610Ha 1	The granters	CINCLES A	
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Decea SYSIN, A. H., ZIL'BER, L. A., SHABAD, L. N., RYAZAMOV, V. A. "Tasks of Hygiene in the Field of Problems of Cancer." report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959. " SYSIN A. N. Ducesce 1956

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654320002-8"

"APPROVED FOR RELEASE: 08/31/2001

VINCOBADOVA, T.S., kandidat meditsinskikh nauk; SKLYAR, I.B.; SYSIH, A.Ta., inzhener
Messuring the piston-like movements of a thigh stump in a prosthesis. Ortop., travm. i protez.17 no.2:60 Mr-dp '56. (MIRA 9:12)
1. Is TSentral'nogo nauchno-issledovatel'skogo institute protezirovaniya i protesostropeniya Ministerstva sotsial'nogo obespecheniya MSFSB (dir. profeseor B.P.Popov) (ARTIFICIAL LIMES)

APPROVED FOR RELEASE: 08/31/2001

······································	Syster A	Kobrinskiy, A. Ye., Breydo, M. G., Gurfinkel', V.S., 20-1-20/42
	AUTHORS :	Kobrinskiy, A. Ie., Breydo, M. G., Gullinker, V.B., as Lasyt Sysin, A. Ya., Tseytlin, M. L., Yakobson, Ya. S.,
	TITLE:	A Bioelectric Control System (Bioelektricheskaya sistema uprav- leniya)
	PERIODICAL:	Doklady AN SSSR, 1957, Vol. 117, Nr 1, pp. 78-80 (USSR)
	ABSTRACT :	At first something on the general situation of this problem is said. The authors of the present papers wanted to work out a bioelectric system, which according to a certain programme con- trols a mechanical servo drive. This programme was worked out in the form of oscillations of the bioelectric potential of the muscles. The possibility of realizing such a system is based on the results of different investigations inwhich the dependence of the oscillations of the bioelectric potential of a muscle on its functional condition was investigated. The results of these investigations briefly indicate the following: 1) The oscillati- ons of the biopotential of a muscle are a constant and inalien-
t.	Card 1/3	ons of the biopotential of a muscle are a constant and inaritial able phenomenon of the stimulating process. 2) The penetration of the biocurrent always occurs before a shortening of the muscle. 3) There is an unequivocal relation between the amount of the biopotential and the tension developped by the muscle, this re- lation being approximately linear to the tension up top cortain

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A Bioelectric Control System.

20-1-20/42

level. An added diagram illustrates an oscillogram of the biocurrents which were deduced from different stretched fingerjoint by applied electrodes. These deduced biocurrents develop by the total effect of the muscle fibres of a certain muscle and the numerous oscillations of the fibres of the adjacent muscles provide an additional noise-background. The first problem in the experiments with these complicated signals was the elimination of the informations on the orders from the central nervous system, which regulate the level of the tension of the muscle. As carrier of the useful information in the here discussed system only one parameter of the bioelectric system is used, that is efficiency. The authors hope for application of further parameters. The block scheme of the control system is illustrated by a graph and its function method briefly described. The system is constructed so that the biocurrents are deduced by two antagonal muscles at the same time. In the case of technical application it is well possible to connect a circuit with feed-black coupling into the wiring diagram of the control system, which circuit is based on the application of special, automatical transmitters. There are 2 figures, and 2 references, 1 of which is Slavic.

Card 2/3

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A Bioelectric	Control System.	20-1-20/42
ASSOCIATION:	Institute of Mechanics of the AN USSR, Cer Scientific Research Institute for the C ficial Limbs, Moscow State University i (Institut mashinovedeniya Akademii nauk nauchno-issledovatel skiy institut prot stroyeniya, Moskovskiy gosudarstvennyy Lomonosova)	onstruction of Arti- meni M.V.Lomonosov SSSR. Tsentral'nyy ezirovaniya i protezo
PRESENTED:	June 20, 1957, by A.A.Blagonravov, Acad	emician
SUBMITTED:	June 19, 1957	
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KOBRINSKIY, A.Ye.; BREYDO, M.G.; GURFINKEL', V.S.; POLYAN, Ye.P.; SLAVUTSKIY, Ya.L.; SYSIN, A.Ya.; TSETLIN, M.L.; YAKOBSON, Ya.S.

> Research on the development of bicelectric control systems. Trudy Inst.mash.Sem.po teor.mash. 20 no.77:39-50 '59. (MIRA 13:4)

(Electrophysiology)

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INVENTOR: Dol'	nikov, Yu. I.; Bryksin,	V. I.; Kushnirov, R. I.	; -
🗉 Yakobson, Ya. S	.; Delov, V. I.; Sysin,	A. Ya .: Tikhomirov, I.	s
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	for studying movements Class 30, No. 180296	in the large joints of u	pper
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SOURCE: 120bre 1966, 46	teniya, promysniennyye	obraztsy, tovarnyye znak	1, no. /
TOPIC TAGS: 61	lomechanics, prosthesis		
ABSTRACT: An A	uthor Certificate has b	een issued for a device	used to
atudy movements	in the large joints of	the upper extremities.	It
consists of spl	ints and sensors for re	cording angular paramete	rs. To
obtain quantita	tive assays of extremit	y movements and their bi ted in the form of sleev	oceca-
are linked by a	plints fitted with hing	ed-joint potentiometers.	These
are aligned abo	ve the center of, or co	axially to, joint rotati	on.
Λ variation of	the above device is equ	ipped with a rotation se	nsor the for
attached to the of two sleeves	mounted on bushings. T	is sensor is operated in The wrist is fitted with	a forear
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SYSINA, L. A., Cand Chem Sci - (disc) "Study of the protective mail of properties of coatings with polytrifluorchlorethylene." Lewingard, GINA State Inst of Applied Chemistry, 1959. 12 pp (State Committee of the Council of Ministers USSR on Chemistry. State Order of Labor Red Banner Inst of Applied Chemistry). 150 copies (KL, 39-59, 101)

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APPROVED FOR RELEASE: 08/31/2001

TITLE: Investigation of the Process of the Formation of Films out of Polytrifluoro Chloro Ethylene (Izucheniye protsessa formovaniya plenok politriftorkhkretilena) PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 4, pp 20-23 (USSR) ABSTRACT: The practice shows that the coats of polytrifluorochloro ethylene (T) detach from the basis which in spite of the corrosionproof properties of (T) causes a corrosion of the base. It is assumed that this phenomenon is caused by the occurrence of stress during the formation of the film. In order to investigate the processes occurring in the formation of the film from (P) two methods already described in publica- tions were applied in the present case; the examination of the stresses (with the apparatus of Polyan'i) or on solid metal bases (according to the method of concentric circles) and investigations of the relaxation of the stresses of finished films at 100-220° by means of the apparatus of Polyan'i and at 270° after alteration of the linear dimensions of the films. A fine glass texture was used as easily deformable base and an aluminum foil of the type F. G. (OST MPTU 2104-49) of a thickness of 0.05 - 0.02 mm as solid base. In the first case		28(5), 15(7) AUTHORS:	Sysina, L. A., Kargin, V. A.
PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 4, pp 20-23 (USSR) ABSTRACT: The practice shows that the coats of polytrifluorochloro ethylene (P) detach from the basis which in spite of the corrosionproof properties of (P) causes a corrosion of the base. It is assumed that this phenomenon is caused by the occurrence of stress during the formation of the film. In order to investigate the processes occurring in the formation of the film from (P), two methods already described in publica- tions were applied in the present case; the examination of the stresses occurring in films which are applied to easily deformable bases (with the apparatus of Polyan'i) or on solid metal bases (according to the method of concentric circles) and investigations of the relaxation of the stresses of finished films at 100-220 by means of the apparatus of Polyan'i and at 270 after alteration of the linear dimensions of the films. A fine glass texture was used as easily deformable base and an aluminum foil of the type F. 6. (OST WERD 2104 40) of		TITLE:	Investigation of the Process of the Formation of Films out of Polytrifluoro Chloro Ethylene (Izuchenive protected
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Investigation of the Process of the Formation of Films out of Polytrifluoro Chloro Ethylene

it was found that the above mentioned stresses do not occur during the drying process and the melting of the film but during a quick cooling of the ('I)-films which may also be observed with the Al-foils (Table). In the case of a slow cooling in a heating apparatus, however, no stresses occur in the (P)-films. These films, however, have low adhesion and a higher degree of crystallization. This is explained by the fact that in a slow cooling the polymer chains have enough time for relaxation. Since (P), however, belongs to the crystallizing polymers the relaxation process becomes complicated and it is not possible to obtain an amorphous film without stresses. Investigations on the stress relaxation carried through with ("P)-films on the Polyan'i apparatus without base (the films were extended to 170% and heated to 100-200°) showed a sharp decrease of the stresses. The heating to 100-200 does not permit the production of amorphous films free from stresses because crystallization takes place in the above-mentioned relaxation. By melting on the ('I)-films at 265-270° on a teflon-base in order to obtain stress relaxation, released (T)-films could be obtained. It was found that the stresses of the (P)-films have not the decisive im-

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> portance of the behavior of these coats. There are 3 figures, 1 table, and 9 references, 8 of which are Soviet.

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15(9),18(7) AUTHORS:	Sysina, L.A., Kargin, V.A.	sov/64-59-5-2/28
TITLE:	Investigation of the Mechanism of Crystallization Process of Polytr	f the Protective Action and rifluorochloro Ethylene Films
PERIODICAL:	Khimicheskaya promyshlennost', 19	959, Nr 5, pp 378-383 (USSR)
ABSTRACT:	Polytrifluorochloro ethylene has against corrosion owing to its ch found, however, that corrosion spo that a detachment of the coating (Ref 1) that this detachment is of in the coating film while drying. small and do not occur at all in (in the coating film), but on the spoils the protective effect again of this problem were continued. This is of special importance when the coating film of good adhesion, the media, has a better protective eff detaching films. In order to inve- against corrosion of polytrifluor	nemical properties. It was obto form under the coatings and film occurs. It was assumed caused by tensions occurring . Since these tensions are but the case of crystallization e other hand crystallization inst corrosion, investigations The adhesion of the coating film e latter is detached, since a hough permeable to corrosive ffect against corrosion than estigate the protective effect rochloro ethylene film, the
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Investigation of the Mechanism of the Protective Action SOV/64-59-5-2/28and Crystallization Process of Polytrifluorochloro Ethylene Films

> in polytrifluorochloro ethylens was tested and the difference between amorphous and crystalline coating films, as well as their packing density determined.Sorption tests were carried out by means of MacBen's sorption balance (Ref 4) in high vacuum

> (10⁻⁵mm Hg) at 25°C, which proved that (I) and (III) diffuse polytrifluorochloro ethyleme films and that there is no protective effect against corrosion. It was further found that the latter is determined by adhesion of the coating film on the metal surface, which was also confirmed by tests with the badly adhering polymer of trifluorochloro ethylene of low molecular weight. The degree of adhesion (Table 1, measured on AD-1M aluminum and 12Kh5MA steel) depends on the material to be protected as well as on the structure of the coating film (crystallization, preliminary treatment, etc). Investigations of the crystallization of polytrifluorochloro ethylene by the dilatometric (Figs 1-4) and roentgenographic methods (Figs 5-8, radiographs) showed that in the case of reannealing of amorphous thermoset coating films their volumes are reduced, condensation takes place, and crystallization occurs. The influence exerted by the formation of spherolites on the

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specific volume of the coating films was also investigated (Table 2). The effect of the crystallization degree on the mechanical properties of the polytrifluorochloro ethylene films was investigated by menas of the RMM-30A dynamometer as well as the modulus of elasticity on the Polanyi device (Mable 3). Thus, it was ascertained that with increasing degree of crystallization the resistance of the coating films is raised, simultaneously reducing adhesion. For the preparation of highly effective protective coatings against corrosion, the surface state of the metal must be taken into consideration and thermosetting the coating film must be carried out under conditions excluding crystallization. There are 8 figures, 3 tables, and 21 references, 7 of which are Soviet.

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	2.	USSR (600)	
ŧ	4.	Gladiolus	
	7.	Controlling the flowering periods of the gladiolus, Biul. Glav. Bot sada, no. 11, 1952.	
		,	
	9.	Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified	•

JESTAR, N. A.

"The Morphogenesis of the Gladialus." - Cand Biol Sei, Moscow State 0, Moscow, 1953. (RZhBiol, No 1, Sep 54)

30: Sum 432, 29 Mar 55

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SZAFER, W.; POPIAVSKAYA, G.I., [translator, deceased]; SUKACHEV, V. M., redaktor SYSINA, N.A., redaktor; NIKIFOBOVA, A.N., tekhnicheskiy redaktor

[Elements of general plant geography. Translated from the Polish] Osnovy obshchel geografii rastanii. Parevod s pol'skogo G.I. Poplavskoi. Pod red. i s predisl. V.N. Sukacheva. Moskva, Izd-vo (MIRA 10:1) inostrannoi lit-ry, 1956. 380 p. (Phytogeography)

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 D.V. [translator]; MATVEYEVA, T.S. [translator]; LASKEVICH, Yu.I. [translator]; OSTRYAKOVA-VARSHAVER, V.P. [translator]; KHVOSTOVA, V.V.[translator]; BARANOV, P.A., redaktor; ASTAUROV, B.L., professor, redaktor; <u>SYSIMA, N.A.</u>, redaktor; IOVLEVA, N.A., tekhnicheskiy redaktor [Polyploidy; collection of articles] Poloploidiia; sbornik statei. Perevod D.V.Lebedeva i dr. Pod.red. i s predisl. P.A.Baranova i B.L. Astaurova. Moskva, Izd-vo inostr.lit-ry, 1956. 398 p. (MIRA 10:6) 1. Chlen-korrespondent Akademii nauk SSSR (for Baranova) (Polyploidy) 	

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KHAGEMAN, R. [Hagemann, R.]; SOBOLEV, N.A. [translator]; ASTAUROV, B.L., red.; SYSINA, N.A., red.; KHOMYAKOV, A.D., tekhn. red.

[Plasmatic heredity] Plazmaticheskaia nasledstvennost'. Pod red.i s predisl. B.L.Astaurova. Moskva, Izd-vo inčetr. litry, 1962. 110 p. Translated from the German. (MIRA 16:4)

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SYJKA, Z.

Method of testing glazes for sensitivity to smoke. p. 79, Vol. 6, no. 4, Apr. 1955, SZKLO I CERAMIKA SO:MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (ESAL), LC, Vol. 4, No. 9, Sept. 1955, Uncl.



3782.3, 5.

Moating efficiency of firing kilns using coal. p. 105. SLUL I CLANTRA, Marezawa, Tol. 6, no. 5, Lay 1955.

So: Monthly List of East European Accessions, (MEAL), 12, Vol. 4, no. 10, Oct. 1955, Uncl.

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654320002-8 MARKAR BEARING THE 有关实现的资源是没有保留的实施,我们就是这些一部分的问题是是不可能的问题和这种变化,但是我们能够没有这些可能的。""不是,我们们不是是不是不是是不是不是不是不是不是 SYSKA, Z. Main failures in the baking of ceramic products. p. 265 Vol. 6, no. 11, Nov. 1955 SZKLO I CERAMIKA Warszawa Monthly List of East European Accessions (EFAL), LC, Vol. 5, no. 3 S0: March 1956

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POLAND/Chemical Technology. Chemical Products and Their Application. Part 2. - Ceramics. Glass. Binders. Concretes. Ceramics.
Abs Jour: Ref. Zhurnal Khimiya, No 21, 1958, 71487.

Author : Zbigniew Syska.

Inst : Title : Surface Formation at Ceraming Casting as Result of Surface Tension Action.

Orig Pub: Szklo i ceram., 1957, 8, No 10, 281-283.

Abstract: The surface tension (ST) of water at 20° is 73 dynes per cm. If about 0.5% of NaOH was added to it, which is done with water for casting thin articles of ceramic mass, then the ST of water rises from 73.05 to 74.35 dynes per cm. The major part of OH

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FOLAND/Chemical Technology. Chemical Products and Their Application. Part 2. - Ceramics. Glass. Binders. Concretes. Ceramics.

Abs Jour: Ref. Zhurnal Khimiya, No 21, 1958, 71487.

ions from alkaline salts concentrates in reality on water envelopes around the clay particles, where the local ST rises to 80 - 90 dynes per cm. This explains the appearance of striae on the surface of ceramic mass castings. The number and dimensions of striae depend on the rate of the casting process; thus, at the usual rate of casting in molds (2 min.), the number of striae was 34 per cm, and at a low rate (8 hours) it was 3.6 per cm. A strong condensation of a thin ceramic body from the surface facing the plaster-of-Paris mold is also the result of ST; thus, if a burned body is dipped into KMnO_h solutions, the latter will penetrate 0 to 1 mm

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IN ANDREADED HIS SER PERSONNER BELIEVEN TO A THE SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND H-13 POLAND / Chemical Technology. Chemical Products and Their Application. Ceramics. Glass. Binding Materials. Concrete. Abs Jour: Ref Zhur-Khimiya, No 1m 1959, 1978, : Syska, Z. Author : The Possibilities of Improvements in Porcelain : Not given. Inst Title Kilning. Orig Pub: Szklo i ceram., 1958, 9, No 1, 12-16. Abstract: Methods for improving porcelain firing in multi-stage periodic kilns (MPK) were considered. Manual feeding of coal fire-boxes is very difficult for firemen and produces unsatisfactory results as far as the quality of porcelain is concerned, as well as in respect to increased consumption of solid fuel for the firing. Three types of Card 1/431

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POLAND / Chemical Technology. Chemical Products and Their Application. Ceramics. Glass. Bind-H-13 ing Materials. Concrete.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1978.

Abstract: type of fire-box resulted in a 24-43% savings in coal (35.2% on an average), a reduced firing time in a 60 ton capacity MSK by 38-57% (47.4% on an average), a decrease in the drop of vertical temperature, a considerable cut in cost of service and an increase in the quality of porcelain. The firing curves for MSK, before and after they have been converted to the third type, are furnished. In MSK having a 60 ton capacity, it is feasible to shorten the time for porcelain firing to 15 hours. The suggested innovation in firing is recommended for use in the Polish factories equipped with MSK. -- S. Glebov.

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POLAND / Chemical Technology. Chemical Products and Н Their Applications. Ceramics. Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 12511. Author : Syska, Zbigniew. Inst : Not given. On the Technology Used in the Chinese Porcelain Industry. Part II. Title Orig Pub: Szklo i ceram., 1958, 9, No 3, 77-80; No 5, 141-146. Abstract: Detailed description of the technology of the casting, hand forming, wheel turning, glazing and annealing of commercial and artistic porcelain. For Part I, see RZhKhim, 1958, 74663. -- S. Glebov.

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H-13 POLAND/Chenical Technology. Chenical Products and Their Application. Ceranics. Glass. Binding Materials. Concrete. Abs Jour: Ref Zhur-Khin., No 2, 1959, 5403. Syske, Zbigniew. Author : Ceranic Casting Masses - Their Thinning and Properties Inst : in Light of Latest Investigations. Parts I and II. Title : Orig Pub: Szklo i ceran., 1958, 9, No 6, 171-175. I. Electrostatic and colloid-electrochemical theories explaining the thinning effect of electrolytcs (Es) on Abstract: ceranic casting masses are presented. The thinning bases are arranged in the series LiOH, MaOH, KOH, RbOH, CSOH, Ca(OH)2, Sr(OH)2, Ba(OH)2 and NH1OH in respect to kaolins. They produce no thinning effect on suspensions : 1/3 Card

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654320002-8 н-13 POLAND/Chemical Technology. Chemical Products and Their Application. Ceranics. Glass. Binding Materials. Concrete. Abs Jour: Ref Zhur-Khim., No 2, 1959, 5403. the average referred to the weight of dry ceramic mass. Simple practical methods of finding the optimum amount of Es for decreasing the H₂0 content in ceranic masses fron 60 to 35 - 40% are described. Many practical hints how to prepare masses of sufficient fluidity and rapid setting of the body are presented; methods of selecting the mass composition, its grain size, the amount of water in order to obtain ceranic bodies of good dense structure and smooth surface are described. - S. Glebov.

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COUNTRY CATEGORY ABS. JOUR.	H : POLAND : Chemical Technology. Chemical Products and Their Applications. Ceramics. Binding Materials. * : RZnKhim., No 17, 1959, No. 61616
AUTHOR INSTITUTE TITLE ORIG. PUB.	: Syska, Z. : Refining of Gypsum and Its Effects on the Quality of Forms. : Szklo i ceram., 1958, 9, No 12, 353-356
ABSTRACT	: Described are methods of controlling properties of casting gypsum (G), particularly of the time that it is capable of retaining its plasticity in the manufcture of forms. To retard the initial setting of G the following additives may be employed: Ca(OH)2, B2O3, NH3, acetic, citric and formic acids, sodium salts of the above acids. To accelerate the initial setting the following substances are added: H2SO4, HNO3, HC1, vinic acid, Na-salts of these asids, NaOH, KOH. For the improvements of mecha- nical properties of G-forms, in 22 of water are
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