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CIA-RDP86-00513R001860610008-1

30911 s/190/61/003/012/005/012 B101/B110 Investigations in the field ... is suggested. The compounds obtained from aqueous solution deviated in their composition from the theoretical composition, probably due to water content. The considerable increase in volume of the Be and Zn compounds above 200°C is ascribed to continuation of the incomplete chemical reaction at elevated temperature. In the esters of aromatic o-hydroxy acids, carbonyl oxygen of the carboxyl group effects the formation of the coordination bond. In o-methoxy acid, the oxygen of the methoxy group has an effect. All polymers were colored powders. The polymers obtained from the melt had a composition which came nearest to theory. There are 1 figure, 6 tables, and 15 references: 9 Soviet and 6 non-Soviet. The four most recent references to English-language publications read as follows: S. Kanda, Y. Saito, Bull. Chem. Soc. Japan, 30, 192, 1957; H. Klug, L. Alexander, G. Summer, Acta crystallogr., 11, 41, 1958; R. G. Charles, M. A. Pawlikowski, J. Phys. Chem., <u>62</u>, 440, 1958; J. Wilkins, E. Wittbecker, US Patent 2659711, 1953. ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Elemental Organic Compounds AS USSR) January 6, 1961 SUBMITTED: Card 4/4

APPROVED FOR RELEASE: 08/09/2001

S/190/62/004/001/004/020 B101/B110 15.8150 Korshak, V. V., Rogozhin, S. V., Volkov, V. I. AUTHORS : Studies of coordination polymers. IX. Metal-containing polymers based on aliphatic dicarboxylic, a, a'-dihydroxydi-TITLE: carboxylic, and a, a'-dialkoxydicarboxylic acids PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 1, 1962, 20-24 TEXT: Synthesis and properties of polymers containing Zn, Cu, Cd, Co, or Ni on the basis of W, ω' -hexadecanedicarboxylic acid (I), terephthalic acid (II), α , α '-dihydroxysebacic acid (III), and α , α '-dimethoxysebacic acid (IV) are described. III was synthesized from α , α '-dibromosebacic acid by saponification with 5% KOH solution, production of Cu salt with $CuSO_4$, and formation of the free acid by precipitating Cu with H₂S. Dimethyl ester of IV was obtained from α , α^{*} -dibromosebacic acid by sodium methylate $(n_D^{20} = 1.4425;$ boiling point=128-130°C/1-2 mm Hg). Dipotassium salts of I, II, III, or IV were reacted with the chlorides or acetates of the Card 1/4

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32343 s/190/62/004/001/004/020 B101/B110

Studies of coordination ...

metals in an aqueous or aqueous-alcoholic medium. Linear structure is assumed due to the thermal behavior and insolubility of the powdery precipitates obtained. The following data are listed: (A) Polymers from I, structure $\begin{bmatrix} -COMeOC(CH_2)_{16} \\ 0 \end{bmatrix} n^{1}$ copper compound light blue, crystalline,

melting point 223 - 225°C (in capillary), maximum deformation (D_{max}) at 201°C; Cd compound crystalline, white, melting point 211 - 213°C, $D_{max} = 175°C$; Zn compound crystalline, white, melting point 242 - 246°C, $D_{max} = 221°C$; (B) the Cu compound with II is light blue, crystalline, melting point 300°C (with decomposition), $D_{max} = 335°C$; (C) the composition of polymers of III differed with the conditions of synthesis. It is essumed that complexes with groups of adjacent chains or with molecules of the solvent are formed as a consequence of the incompletely occupied

coordination sphere of the metal ion. Cd compound white, melting point $280-290^{\circ}C$ (decomposition), $D_{max} = 292^{\circ}C$; Zn compound white, melting

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CIA-RDP86-00513R001860610008-1

32343 S/190/62/004/001/004/020 B101/B110 Studies of coordination ... point 330 - 350°C (decomposition), $D_{max} = 327°C$; Cu compound light blue. melting point 330°C (decomposition), $D_{max} = 341°C$; Co compound red-violet, melting point 250° C, $D_{max} = 351^{\circ}$ C; In compound white, melting point 280°C, D_{max} = 327°C; Ni compound green, melting point 300°C (decomposition), $D_{max} = 365^{\circ}C$; (D) the Co compound with IV is light violet, melting point 300° C (decomposition), $D_{max} = 243^{\circ}$ C; Zn compound light yellow, molting point 140 - 220°C, $D_{max} = 157^{\circ}$ C. The low stability of the compound with IV is explained by the fact that substitution of CH_z for the hydrogen of hydroxyl groups prevents the formation of H bonds. X-ray patterns of Zn polymers showed a decreasing crystallinity in the series I > III > IV (the latter polymer being amorphous). There are 2 figures, 2 tables, and 4 references: 1 Soviet and 3 non-Soviet. The two references to English-language publications read as follows: R. Martin, H. Watermann, J. Chem. Soc., 2545, 1957; Ch. K. Ingold, J. Chem. Card 3/4

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CIA-RDP86-00513R001860610008-1

32313 \$/190/62/004/001/004/020 B101/B110 Studies of coordination ... Soc., 119, 964, 1921. AGSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Elemental Organic Compounds AS USSR) SUBMITTED: January 18, 1961 Card 4/4

APPROVED FOR RELEASE: 08/09/2001



VOLKOV, V. I.

VOLKOV, V. I. -- "Convergent Series of Linear Positive Operators in the Space of Smooth Functions of Two Variables." Moscow City Pedagogical Inst imeni V. P. Potemkin. Moscow, 1955. (Dissertation for the Degree of Candidate of Physicomathematical Sciences.)

SO: Knizhneva latopis', No. 4, Moscow, 1956

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VOLKOV	VI	
AUTHOR:	Volkov, V. I. 20-1-3/54	
TITLE:	On the Convergence of the Sequences of Linear Positive Operators in the Space of Continuous Functions of Two Variables. (O skhodimosti posledovatel'nostey lineynykh polozhitel'nykh operatorov v prostranstve nepreryvnykh funktsiy dvukh peremennykh).	
PERIODICAL:	Doklady Akademii Nauk SSSR, 1957, Vol 115, Nr 1, pp. 17-19 (USSR).	
ABSTRACT:	$L_{i}(f(,);x,y)$ signifies a sequence of linear positive operators which is assumed in the set of the functions $f(x,y)$ in a closed	
	Theorem 1: When the following four conditions are satisfied for Theorem 1: When the following four conditions are satisfied for	
	1) $L_n(1;x,y) = 1 + \alpha_n(x,y);$ 2) $L_n(2;x,y) = \frac{n^2}{2} + \beta_n(x,y)$	
	3) $L_n(\gamma;x,y) = y + \gamma_n(x,y);$ 4) $L_n(\zeta + \gamma_n(x,y), n)$ (where α_n , β_n , γ_n , δ_n in the domain D steadily tend towards zero), the sequence $L_n(f;x,y)$ uniformly converges toward $f(x,y)$, provided that $f(x,y)$ in this domain is not continuous. The proof for this	
Card 1/2	that $f(x,y)$ in this domain is not continuous. The proof for	

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	Among others the following theorem upplied a prior of the prior of the following theorem upplied in the following theorem is to select three functions $f_k(x,y)$, $k=1, 2, 3$, continuous in \overline{D} . so that from the relations $L_n(f_k;x,y) = f_k(x,y) + a_{n,k}(x,y)$ $a_{n,k}(x,y) \rightrightarrows 0$ the equation $L_n(f;x,y) = f(x,y) - \beta_n(x,y)$, $\beta_{n,k}(x,y) \rightrightarrows 0$ would follow. In this connection $f(x,y)$ signifies any continuous function in \overline{D} , and $L_n(f;x,y) - a$ sequence of linear positive operators.
ASSOCIATION:	State Pedagogical Institute imeni M.I.Kalinin (Kalininskiy gosudarstvennyy pedagogicheskiy institut imeni M.I.Kalinina).
PRESENTED:	January 10, 1957 by V. I. Smirnov, Academician
SUBMITTED:	December 16, 1956
AVAILABLE: Card 2/2	Library of Congress

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AUTHOR:	Volkov, V. I.	
TITLE:	On Conditions of Convergence of Successiveness of Linear Positive Operators in the Space of Continuous Functions Assigned on Closed Surfaces	
PERIODICAL:	Uspekhi matematicheskikh nauk, 1960, Vol 15, Nr 1, pp 181–184 (USSR)	
ABSTRACT:	Let M be a closed bounded set in Euclidean space and	
	$L_{n}(f(c),p), p,q \in M$ (1)	
	be an arbitrary sequence of linear positive operators defined on the set of all functions $f(q)$ continuous on M. The system of m functions, $f_1(p)$, $f_2(p)$,	
Card 1/5	$f_m(p)$, $m \ge 3$, is called an R_m -system on the set M	
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On Conditions of Convergence of Successiveness 77801 of Linear Positive Operators in the Space of SCV/42-15-1-8 Continuous Functions Assigned on Closed Surfaces where f(q) is an arbitrary continuous function and M is a closed surface of a three-dimensional space. Theorem 1: There does not exist an R_{ii} system on the set consisting of a piece of a plane Q and the sequence of points a_n converging to the interior point p_o of this piece. From this theorem it follows if an ${\rm R}_4$ system is given on a surface, then this surface is not selfintersecting. Theorem 2: If on a closed surface in three-dimensional space an R_4 -system is given, then this surface is homeomorphic to the sphere. A consequence of this theorem is that for no closed surface, except possibly for surface homeomorphic to the sphere, can there be found four functions $f_k(p)$ (k = 1,2,3,4) continuous on this surface such that (2) implies (3) where $I_n(f,p)$ is an arbitrary sequence of Card 4/5

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of Linear Posi	of Convergence of Successiveness 77801 tive Operators in the Space of SOV/42-15-1-8/27 ctions Assigned on Closed Surfaces	
	linear positive operators in the space of continuous functions defined on this surface, and $f(p)$ is an arbitrary continuous function. Theorem 3: In order that (2) imply (3), where L (f,p) is an arbitrary sequence of linear positive operators in the space of continuous functions, given on a surface homeomorphic to the sphere of a three-dimensional space, and $f(p)$ is arbitrary continuous function on this surface, it is necessary and sufficient that the system $\left\{ \left(f_k(p) \right\}_{l}^{+} \right\}_{l}^{+}$ be an F_{l_l} -system. There are 5 Soviet references.	
SUBMITTED:	November 20, 1958	
C ard 5/5		
		1992) 2597102-531

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CIA-RDP86-00513R001860610008-1

86-58-6-11/34

AUTTOR: Volkov, V. I., It Col

TITLE: Peculiarities of the Navigation of a High-speed Bomber (Osobennosti samoletovozhdeniya skorostnogo bombardirovshchika)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 6, pp 34-39 (USSR)

ABSTRACT: In this article the author describes in detail the pre-flight and in-flight procedures used by the navigator of a high-speed bomber. At the end of the article the author mentions that the air position indicator may be of great help to the navigator during enroute flight and that it is used in his aircraft as one of the basic navigational instruments. Having set the wind data in, the error of the air position indicator never exceeds 5 percent within the covered distance. There are three diagrams.

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24 (4) AUTHORS:	Volkov, V. I., Engineer, Frolov, N. I., SOV/119-59-4-9/18 Ingineer
TITLE:	A Device for the Measurement of Eccentric Parts (Ustanovka dlya izmereniya ekstsentrikov)
PERIODICAL:	Priborostroyoniye, 1959, Nr 4, p 20 (USSR)
ABSTRACT : Card 1/1	This device is intended for the measurement of the radius vectors of eccentric parts and consists of an optical dividing head and of a vertical comparator, which are both mounted on odest iron base plate. By means of the dividing part the occentric part under investigation can be adjusted to a given angle with an accurace better than 41. The vertical comparator can then be used for the measurement of the length of the radius vectors of the eccenter with an accuracy of 0.001 mm. The sero adjustment of the device must be checked previous to use. The procedure followed in the measurement is outlined. step by step. If this instrument is introduced into the machine shop, the control by the central works laboratory becomes superfluous. There is 1 figure.

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VOLKOV, V. I. Cand Tech Sci -- (diss) "Research on the interconnection between axial stress and the operation of washing devices and unloading trowels of M modern-type dredging pumps." Gor'kiy, 1959. 23 pp with graphs (Min of River Fleet RSFSR. Gor'kiy Inst of Engineers of Water Transport. Chair of Machaninery), 100 copies Ship's-Hardi Installations and Auxilliary I (KL, 46-59, 137)

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Reference to the second

Semiautomatic unit for hot tinning of spring set ends. Priborostroenie no.7:19-21 J1 '60. (MIRA 13:7) (Tinning)





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36950 3/142/61/004/006/015/017 E192/E382 9,2583 Bolotin, L.I., Volkov, V.I., Lesnykh, M.S., Lyapkalo, Yu.M., Merzlikin, V.A., Pipa, A.V., Sidorenko, I.S. and Chernyak, L.L. A high-power pulsed oscillator Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, v. 4, no. 6, 1961, 726 - 728 PERIODICAL: Generation of high-power bursts of ultrashort-wave frequencies is of importance in linear accelerators of heavy particles. A pulsed oscillator based on the triode, type $\Gamma N-4A$ (GI-4A), was therefore developed. Constructionally, the oscillator is based on coaxial tuned circuits, in which the tube operates as a grounded-grid system (Ref. 1 - M.S. Neyman -Triode and tetrode generators for UHF (Triodnyye i tetrodnyye generatory SVCh), Sovetskoye radio, 1950). The anode-grid resonant circuit is in the form of a quarter-wave line, terminated with the interelectrode capacitance Cag (Fig. 1). Since the external diameter D = 33 cm, internal diameter d = 14 cm and Cag = 35 pF, the resonance frequency is 142 Mc/s and the length h of the anode grid-tuned circuit is 19 cm;

Card 1/3

AUTHORS:

TITLE:

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A high-temperature ..

these calculated data were verified experimently. The cathode-grid circuit is in the form of a short-circuited polycylindrical coaxial section of a half-wave line; this is terminated with the capacitance Cag. The feedback is provided by three non-adjustable loops positioned at angles of 120 with respect to each other, in such a manner that the loops pass through the common wall of the resonators. The separator condenser in the anod-grid circuit consists of six groups of condensers, each consisting of two condensers in series. The oscillator was tested with an 82-2 resistive load, which was in the form of a polystyrol cylinder with a water solution of sodium carbonate. It was possible to obtain a maximum power of 1.2 MW with an anode voltage of 32 kV and pulse duration of 450 µs. The oscillator was also tested with a high-Q load formed by the resonator of a linear proton accelerator; this had a resonance frequency of 142 Mc/s and a quality factor of 50 000. It was found that at an anode voltage of 36 kV the resonator of the accelerator received a power of the order of 500 kW, so that the protons could be accelerated up to energies

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BOLOTIN, L.I.; VOLKOV, V.I.; LESNYKH, M.S.; LYAPKALO, YU.M.; MERZLIKIN, V.A.; PIPA, A.V.; SIDORENKO, I.S.; CHERNYAK, L.L. Power impulse self-oscillator. Izv.vys.ucheb.sav.; radiotekh. (MIRA 15:4) 4 no.6:726-728 N-D '61. 1. Rekomendovano Uchenym sovetom Fiziko-tekhnicheskogo instituta (Oscillators, Electric) (Pulse techniques (Electronics)) All USSR.





L 20721-65 EIO-2/EAT(d)/FSS-2/EAT(1)/EEA Peb/PL-4 ASD(a)-5/FAEM(1)/ESD(c)/RAEM(1) ACCESSION NR: AP5001373	-Li/FEC(t)/EED=2/EWA(h) Pn-Li/Pp-Li/Fac=Li/ /ESD(dp) S/0106/64/000/012/0051/0055
V. I. N. I. Volkov, V.	K. Laispale when a pulse noise is present
AUTHOR: Kozlenko, N. 200 TITLE: Noise immunity of clipped speed in the communication channel 8	n seneral constructions of the seneral sector of the sector
SOURCE: Elektrosvyaz', no. 12, 1964, TOPIC TAGS: noise immunity, commu	51-55 ication channel, clipped speech,
speech signal.	
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within 300-3, 300 cps: (3) Effect of the noise immunity of clipped speech in the	presence of pulse noise; (4) Average
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noise immunity by 2.5- 3) Differentiating spec- mmunity: (4) Boosting an additional increase 3 figures and 1 table. ASSOCIATION: none	CU BIGUALS DOLOTA		unity. Orig	<u>, art. nas:</u>	
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3) Differentiating (pee mmunity: (4) Boosting an additional increase 3 figures and 1 table. ASSOCIATION: none SUBMITTED: 18 May6	the upper frequence of 1.5-1.8 times in	es at a rate of the noise imm	unity. Orig	;, art. nas:	
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5(2) AUTHORS:	SOV/78-4-2-1/40 Nesmeyanov, A. N., Anisimov, K. N., Mikheyev, Ye. P., Volkov, V. L., Valuyeve, Z. P.
TITLE:	Proparation of Tungsten Carbonyl by the Interaction of Iron Pentacarbonyl With Tungsten Hexachloride (Polucheniye karbonila vol'frama vzaimodeystviyem pentakarbonila zheleza s shestikhloristym vol'framom)
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 2, nr 249-252 (USSR)
ABSTRACT:	The interaction of tungsten-6-chloride with iron pentacarbonyl The interaction of tungsten-6-chloride with iron pentacarbonyl in an ethyl ether medium was investigated. The tests in the autoclave were carried out at the following molar ratics of the individual components: WCl_6 : $Fe(CO)_5 = 1 : 2.25$ and the individual components: Wcl_6 is the tests were: 70, 90, 110,
	1 : 3.25. The temperatures during the tasks $Fe(CO)_5$: WCl_6 =
	$1 \rightarrow 1 \rightarrow$
Card $1/2$	= 3.25 : 1 the yield of w(00)6 Ltd it shows an increase of 29-31% at 20°, of 35-42% at 70°, and of 72-75% at 90°. The course of the reaction is shown in the

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	following equation: $WCl_6 \div 3Fe(CO)_5 \twoheadrightarrow W(CO)_6 + 3FeCl_2 + 9CO_6$
	The supply of hydrogen to the reaction mixture, after the conclusion of the reaction, increases the $W(CO)_6$ yield to
	85%. This reaction corresponds to the following equation: $WCl_{6} + 2Fe(CO)_{5} + H_{2} \rightarrow W(CO)_{6} + 2FeCl_{2} + 2HCl + 4CO.$
	The production of tungaten hexacarbonyl is described in detail
	Results which are well reproducible are obtained by this method. There are 2 tables and 7 references, 3 of which are Soviet.
SUBMITTED:	Results which are well reproducible are obtained by this method. There are 2 tables and 7 references, 3 of which are
SUBMITTED:	Results which are well reproducible are obtained by this method. There are 2 tables and 7 references, 3 of which are Soviet.
















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4	SOV/78-3-11-1/23 redeimov. K. N., Yeliseyeva,
AUTHORS:	SOV/78-3-11-1/2) Volkov, V. L. Mikheyev, Ye. P., Anisimov, K. N., Yeliseyeva, L. Ye., Valuyeva, Z. P.
TITLE:	mbo Production of the Carbonyl Compounds of Mool'frama)
PERIODICAL:	The from Polucheniye karbonilov mon Tungsten (Polucheniye karbonilov mon Tungsten (Polucheniye karbonilov mon Shurnal neorganicheskoy khimii, 1958, Vol 3, Nr 11, pp 2433-2436 (USSR) In the present paper the authors investigated the reaction In the present paper the authors investigated the temperature the impurities, the time, as well as the temperature of the
ABSTRACT:	relocity, the series are reaction gases, and in all of the
	solvents on the solution of molybdenum and tungs the synthesis of carbonyl compounds of molybdenum, the synthesis of fungsten carbonyl is produced fungsten carbonyl is produced
	tungsten carbony at a reaction compounds and molybdenum with a yield of 81-85% at a reaction tomp and molybdenum production of the carbonyl compounds of tungsten and molybdenum production of the carbonyl at 50 atmospheres absolute pressure.
Card 1/2	is usually carried out at 50 action of the molybdenum carbony - is usually carried out to produce molybdenum carbony - Experiments were carried out to produce molybdenum carbony - Experiments were carried out to produce molybdenum carbony - is usually carried out at 50 action of the produce molybdenum carbony - is usually carried out at 50 action of the produce molybdenum carbony - is usually carried out at 50 action of the produce molybdenum carbony - is usually carried out at 50 action of the produce molybdenum carbony - Experiments were carried out to produce molybdenum carbony - is usually carried out at 50 action of the produce molybdenum carbony - Experiments were carried out to produce molybdenum carbony - is usually carried out at 50 action of the produce molybdenum carbony - is usually carried out at 50 action of the produce molybdenum carbony - under a pressure of 20-30 atmospheres excess CO-pressure. Zinc under a pressure of 20-30 atmospheres excess co-pressure. If powder and aluminum powder were used as reducing agents. If

SOV/78-3-11-1/23 The Production of the Carbonyl Compounds of Molybdenum and Tungsten aluminum is used as reducing agent the yield of molybdenum carbonyl amounts to 0,6% at 18°C, 1,3% at 100°C, 9% at 150°C and 100 atmospheres excess pressure. If iron powder is used as reducing agent, the yield of molybdenum carbonyl amounts to 1,5% at 100°C. If zinc is used as reducing agent, the yield of molybdenum carbonyl is not higher than 6,6%. Mainly zinc powder is used as reducing agent for the production of tungsten carbonyl. The yield amounts to 85%. It was shown that for the production of carbonyl compounds ether in a quantity of not more than 2 g-mol to 1 g-mol metal chloride is necessary. There are 2 tables and 3 references, 2 of which are Soviet. SUEMITTED: October 2, 1957 Card 2/2

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THE REAL PROPERTY AND A CONTRACT OF THE REAL PROPERTY AND A

5(2) Authors:	SOV/78-4-3-2/34 Nesmeyanov, A. N., Mikheyev, Ye. P., Anisimov, K. N., Volkov, V. L., Valuyeva, Z. P.
TI TLE :	The Synthesis of Molytdenum Carbonyl by Interaction Between Iron Pentacarbonyl and Molybdenum Pentachloride (Sintez karbonila molibdena v::aimodeystviyem pentakarbonila zheleza s pyatikhloristym molibdenom)
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 3, pp 503-505 (USSR)
ABSTRACT:	It has been found that molybdenum hexacarbonyl is formed in a maximum yield of 28.5% by the interaction between iron penta- carbonyl and molybdenum pentachloride in the presence of hydrogen chloride under a carbon monoxide pressure in an ether medium. Molybdenum hexacarbonyl is formed in a 15% yield at 175° in the presence of compressed hydrogen in an ethyl ether medium. Molybdenum carbonyl is formed in a yield of 23.4% at medium. Molybdenum carbonyl is formed in an autoclave with 175° when the reaction is performed in an autoclave with hydrogen (initial pressure 100 atmospheres) and carbon monoxide (initial pressure 50 atmospheres). There are 2 tables and 1 Soviet reference.

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5(2)	S0¥/78-4-8-19/43	
AUTHORS:	Nesmeyanov, A. N., Anisimov, K. N., Volkov, Y. L., Fridenberg, A. E., Mikheyev, Ye. P., Medvedeva, A. V.	
TITLE:	The Synthesis of Chromium Hexacerbonyl by the Reaction of Chromium Trichloride With Lithium Aluminum Hydride and Carbon Oxide Under Pressure (Sintez geksakarbonila khroma vzaimodeyst- viyem trekhkhloristogo khroma s litiyalyuminiygidridom i okis'yu ugleroda pod davleniyem)	
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 8, pp 1827-1828 (USSR)	
ABSTRACT:	If the reaction mentioned in the title is carried out at a ratio of 1 mole CrCl_3 : 3 mole LiAlH ₄ in etheric solution at	
	65°C and a pressure of 100 at, Cr(CO)6 is obtained in a 65%	1
	yield. The hitherto published data (Refs 1-6) show lower yields. A lower content of lithium aluminum hydride in the reaction mixture and lower temperatures strongly reduce the yields (Table 1). There are 1 table and 7 references, 3 of which are Soviet.	
Card 1/2		
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INVENTOR: Volkov, V. L.; Drozdov, A. K.; Kabyshev, A. S.; Leont' yev, N. G.; Ustinov, V. K.; Frayman, R. S.; Tsirlin, A. M. ORG: none TITLE: Preparation of trichlorosilane. Class 12, No. 180594 [announced by the Podol' sk Chemical Metallurgy Plant (Polol' skiy khimiko-metallurgicheskiy zavod) SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 22 TOPIC TAGS: silicon compound, hydrogen chloride, explosive forming ABSTRACT: An Author Certificate has been issued for a method of obtaining a trichlorosilane by an interaction of silicon-containing crudes with hydrogen chloride. To prevent forming dangerously explosive polychlorosilanes, coarse-crushed silicon-containing crude of 30-mm particle size is used with a continuous feed of hydrogen chloride. Conversion is completed by reciprocal circulation of the silicon- containing crudes in the reaction apparatus equipped with an arrangement for mixing and conveying solid crude. [Translation] SUB CODE: 07,11/SUBM DATE: 24Apr64/ Card 1/1 hs	ACC N	AP6013232 SOURCE CODE: UNIVERSITIE CODE: UNIVERSITIE CODE:
TITLE: Preparation of trichlorosilane. Class 12, No. <u>180594</u> [announced by the Podol' sk Chemical Metallurgy Plant (Polol' skiy khimiko-metallurgicheskiy zavod) SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 22 TOPIC TAGS: silicon compound, hydrogen chloride, explosive forming ABSTRACT: An Author Certificate has been issued for a method of obtaining a trichlorosilane by an interaction of silicon-containing crudes with hydrogen chloride. To prevent forming dangerously explosive polychlorosilanes, coarse-crushed silicon-containing crude of 30-mm particle size is used with a continuous feed of hydrogen chloride. Conversion is completed by reciprocal circulation of the silicon- containing crudes in the reaction apparatus equipped with an arrangement for mixing and conveying solid crude. [Translation] [NT] SUB CODE: 07,11/.SUBM DATE: 24Apr64/	INVEN Ustino	TOR: <u>Volkov, V. L.</u> ; <u>Drozdov, A. K.</u> ; <u>Kabyshev, A. S.</u> ; <u>Leont' yev, N. G.</u> ; <u>v, V. K.</u> ; <u>Frayman, R. S.</u> ; <u>Tsirlin, A. M</u> .
Podol' sk Chemical Metallurgy Plant (Polol' skiy khimiko-metallurgicheskiy zavod) SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 22 TOPIC TAGS: silicon compound, hydrogen chloride, explosive forming ABSTRACT: An Author Certificate has been issued for a method of obtaining a trichlorosilane by an interaction of silicon-containing crudes with hydrogen chloride. To prevent forming dangerously explosive polychlorosilanes, coarse-crushed silicon-containing crude of 30-mm particle size is used with the continuous feed of hydrogen chloride. Conversion is completed by reciprocal circulation of the silicon- containing crudes in the reaction apparatus equipped with an arrangement for mixing and conveying solid crude. [Translation] [NT] SUB CODE: 07, 11/.SUBM DATE: 24Apr64/	19	\mathbf{U} , the second se
TOPIC TAGS: silicon compound, hydrogen chloride, explosive forming ABSTRACT: An Author Certificate has been issued for a method of obtaining a trichlorosilane by an interaction of silicon-containing crudes with hydrogen chloride. To prevent forming dangerously explosive polychlorosilanes, coarse-crushed silicon-containing crude of 30-mm particle size is used with a continuous feed of hydrogen chloride. Conversion is completed by reciprocal circulation of the silicon- containing crudes in the reaction apparatus equipped with an arrangement for mixing and conveying solid crude. [Translation] [NT] SUB CODE:07,11/.SUBM DATE: 24Apr64/	TITLE Podol	sk Chemical Metallurgy Plant (Polol' skiy khimiko-metallurgicheskiy zavod)
ABSTRACT: An Author Certificate has been issued for a method of obtaining a trichlorosilane by an interaction of silicon-containing crudes with hydrogen chloride. To prevent forming dangerously explosive polychlorosilanes, coarse-crushed silicon-containing crude of 30-mm particle size is used with a continuous feed of hydrogen chloride. Conversion is completed by reciprocal circulation of the silicon-containing crudes in the reaction apparatus equipped with an arrangement for mixing and conveying solid crude. [Translation] [NT]		
trichlorosilane by an interaction of silicon-containing crudes with hydrogen chloride. To prevent forming dangerously explosive polychlorosilanes, coarse-crushed silicon-containing crude of 30-mm particle size is used with a continuous feed of hydrogen chloride. Conversion is completed by reciprocal circulation of the silicon- containing crudes in the reaction apparatus equipped with an arrangement for mixing and conveying solid crude. [Translation] [NT] SUB CODE:07,11/SUBM DATE: 24Apr64/		
hydrogen chloride. Conversion is completed by reciprocal circulation of the Bilicon- containing crudes in the reaction apparatus equipped with an arrangement for mixing and conveying solid crude. [Translation] [NT] SUB CODE:07,11/SUBM DATE: 24Apr64/	trichle	prosilane by an interaction of silicon-containing crudes with hydrogen chloride.
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L 54003-65 ENT(1)/EFS(c)/ENP(1) Pc-4/Pr-4 ACCESSION NR: AP5013991	UR/0064/65/000/005/0352/0356 621.762.2141669.12
AUTHORS: Volkov, V. L.; Syrkin, V. C.	20
TITLE: Thermodynamic analysis and chamical is	cheme of the dissociation of iron
SOURCE: Khimichaskaya promyshlennost, no. 5	, 1965, 352-356
TOPIC TACS: carbinyl iron, iron compound, ci	일을 가 물건을 물건을 가 들었다. 이 것 같아요. 이 것 같아요. 물건 것 같아요. 물건 👬
ABSTRACT: It has been escentained that powdy iron and its combinations with carbon, oxygen elements accounting for 1-3% of weight. The CO is accounted by complex aids	and nithing and the last times and the second
the gaseous surroundings. The authors studio	curring between the solid phase and
thermodynamic analyses during the decomposit: description of the known reaction products and are given. Nineteen reactions which may occur and energy relations	on of the iron pentacarbonyl. A
and energy relations are discussed. All reach	ions discussed are presented graph-

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all reactions are describe	d in detail, with	articular at	cention being	Pract on an	
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\$/191/62/000/012/007/015 B101/B186 AUTHORS: Volkov, V. L., Kafyrov, M. I., Kleshchevnikova, S. I., Rumyantseva, Ye. I. TITLE: Synthesis of triethoxy silane PERIODICAL: Plasticheskiye massy, nc. 12, 1962, 28-29 TEXT: Triethoxy silane is synthesized by bringing trichlorosilane into reaction with ethanol at $25-30^{\circ}$ C without using a solvent. The following conditions must be satisfied: (1) In the reaction, the component ratio must be strictly adhered to. The volume ratio indicated is: SiHCl3:C2H5OH=1:1.75. (2) The water content of the ethanol must be less than 0.2%. (3) The hydrogen chloride formed must be evacuated rapidly from the reaction vessel. This was secured by passing through nitrogen at a rate of 1-1.5 1/min per liter of reacting liquid, by increasing the nitrogen rate to 3-4 1/min when the introduction of components was completed, and by heating to 50°C when the Cl content of the reaction mixture had reached 7%. The flow of nitrogen was stopped when the Cl content dropped below Card 1/2

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Synthesis of triethoxy silane S/191/62/000/012/007/015 B101/B186 1%. The product was rectified. Yield 35%. The losses in SiH(OC_2H_5)₃ are due to the entrainment of reaction products in the HCl and N_2 currents (~ 5%), to side reactions (7-10%) and to rectification losses (~ 1%). There are 1 figure and 1 table. Card 2/2

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CIA-RDP86-00513R001860610008-1

s/193/62/000/009/001/002 A004/A101 Reybakh, M. S., Tsirlin, A. M., Kleshchevnikova, S. I., Volkov, V. L., Matveyev, B. I., Kazakova, N. V. AUTHORS : Film-type apparatus for the continuous triethoxysilane synthesis PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 9, 1962, 21 - 23 This new apparatus for the continuous triethoxysilane synthesis, in which the reaction and desorption zones are separated, has been developed by an organization of the Gosudarstvenny komitet po khimii (State Committee on Chemistry) at the Council of Ministers of the USSR. The apparatus is a film-type mass-exchange column, whose design and operation are described. A table gives comparative data on the triethoxysilane synthesis in film-type and bubbler apparatus. The raw material consumption in the former is only half of the latter, while the output of the film-type apparatus is by 25% higher than that of the bubbler type. Comparing the technical and design data of the continuous film-type apparatus with those of the periodic bubbler apparatus, it is shown that the working volume and hydraulic resistance of the film-type apparatus are considerably lower than Card 1/2

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3/193/62/000/009/001/002 A004/A101 Film-type apparatus for the ... those of the bubbler apparatus, while the specific surface of heat exchange and the specific surface of phase contact are many times larger (345 and 130 times respectively), which ensures a sharp reduction in desorption time. There are 1 figure and 2 tables. Card 2/2

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CIA-RDP86-00513R001860610008-1

31605 S/048/61/025/012/012/022 B117/B104

18140AUTHORS:Volkov, V. L., Tolmasskiy, I. S., and Fridenberg, A. E.TITLE:Carbonyl iron powdersTITLE:Carbonyl iron powders

TITLE: OALSOND-PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 25, no. 12, 1961, 1483 - 1486

TEXT: Basing on certain relationships established between the physicochemical and the electromagnetic properties of carbonyl iron powders, the authors have developed new types of powders: Carbonyl iron powders $K_{\rm W}$ (KZh) exhibiting small values of the loss factor (Ref. 3: Otchet organizatsii p/ya 4019, 1959), carbonyl-iron-nickel powders with different organizatsii p/ya 4019, 1959), carbonyl-iron-nickel powders with different Notchet organizatsii p/ya 4019, 1958) and decarbonized carbonyl iron Otchet organizatsii p/ya 4019, 1958) and decarbonized carbonyl iron $B_{\rm K}$ (VKZh). The examination of the above-mentioned powders has shown that the initial permeability of a KZh-type powder is much smaller than that of powders of the types VKZh, H - 5(N-5) and H - 50(N-50). This is due to the fact that KZh powders contain considerable carbon and nitrogen

Card 1/3

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31605 S/048/61/025/012/012/022 B117/B104

Carbonyl iron powders

admixtures (in the form of carbide and ferronitride), and to the nodular structure which prevents the domain boundaries to be displaced under magnetic field action. Magnetic losses increase by decarbonizing carbonyl iron powder. Due to the destruction of the nodular structure, eddy current losses, e. g. occurring in VKZh powders are almost five times and hyster. esis losses twelve times those of the corresponding losses of KZh powders. Due to lower conductivity, resulting from the iron being alloyed with nickel, losses of carbonyl iron nickel powders (particularly of the N-50) are much smaller than those of VKZh. Compared with KZh powders, decarbonized powders are characterized by higher temperature coefficients of the initial permeability, because with the admixtures removed the boundaries of the domain are supposed to be displaced easier. Electromagnetic parameters are chiefly determined by their chemical composition and their particle size. It has been shown that hysteresis losses are minimized by reducing the carbon and nitrogen content. Due to a smaller number of particles exhibiting nodular structure, a further removal of admixtures results in an increase in the eddy current and hysteresis losses. A decrease of admixtures in KZh powders as the result of different conditions

Card 2/3

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31605 S/048/61/025/012/012/022 B117/B104

Carbonyl iron powders of preparation decreases the temperature coefficient of the initial permeability. An increase in size of the particles of KZh powders, the meability. An increase in size of the particles of an increase in hysterchemical composition remaining unchanged, leads to an increase in hysterchemical composition remaining unchanged, leads to an increase in hysterdemical composition remaining unchanged, leads to an increase in hysterchemical composition remaining unchanged, leads to an increase in hysterchemical composition remaining unchanged, leads to an increase in hysterdemical composition remaining unchanged, leads to an increase in hysterdemical composition remaining unchanged, leads to an increase angle tangent found in this way, apparently confirms the presence of magnetic viscosifound in this way, apparently confirms the presence of magnetic viscosifound in this way, apparently confirms the presence of magnetic viscosity in carbonyl iron, due to admixtures. There are 2 figures, 3 tables, ty in carbonyl iron, due to admixtures. There are 2 figures, 5 tables, and 8 references: 6 Soviet and 2 non-Soviet. The reference to the English-language publication reads as follows: Richards, C. E., Post. English-language publication, 1952.

Card 3/3

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3(4) AUTHOR:	Volkov, V. M.	sov/6-59-9-7/19	
TITLE:	On the Use of a Mobile	Car Repair Shop	
PERIODICAL:	Geodeziya i kartografiya	1, 1959, Nr 9, p 32 (USSR)	
ABSTRACT :	shop of type VAREM-J. of the Team and in case mobiles. Due to the sma was not possible to plu advance and to visit the prophylactic inspection a distance of up to 60 circumstance, the Part in reducing considerab	61 received a new mobile car repair In summer, it was stationed at the set e of need, was called to repair auto- all number of spare parts available, it an the work of the car repair shop in he individual brigades regularly for a n of the cars. The brigades worked at 00 km from the brize. In spite of this y working in Central Kazakhstan succeeded by the waiting periods caused by damages. or of the mobile car repair shop, it is along a car mechanic, a fitter, and an	
	autogenous welder.		
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SOURCE CODE: 1.1/CML./ 3/000/018/0032	/0032
ACC NR: AP6033449	E. (Je-
ACC NR: AP6033449 INVENTOR: Syrkin, V. G.; Tolmasskiy, I. S.; Volkov, V. L.; Fridenberg, A.	
ceasea)	
ORG: None TITLE: A method for producing highly dispersed carbonyl iron powder. Cla	55 12,
PITLE: A method for producing magnet	
SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 32	
TOPIC TAGS: carbonyl iron, iron powder, powder metal r ABSTRACT: This Author's Certificate introduces a method for producing his persed carbonyl iron powder by thermal dissociation of iron pentacarbonyl is increased and a product with a low degree of carburization is obtained is increased and a product with a low degree of the equipment fro inlet and outlet of the heating gas along the height of the equipment fro bottom to produce "falling" temperature conditions.	ghly dis- The yield by sectional m top to
SUB CODE: 11/ SUBM DATE: 09Sep61	
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	L 6301-66 ACC NR: AP5026200 SOURCE CODE: UR/0142/65/008/004/0478/0481 /7	
	AUTHOR: Volkov, V. M.; Rubtsov, A. T.	
	ORG: none	
	TITLE: Analysis of a transistorized resonant amplifier operating in a wide dynamic range	
	SOURCE: IVUZ. Radiotekhnika, v. 8, no. 4, 1965, 478-481	
	TOPIC TAGS: resonant amplifier, transistorized amplifier	
	ABSTRACT: An amplifier circuit is suggested in which AGC depends on the d-c component of the emitter current and on the nonlinearity of transistor characteris- tics. Accordingly, the AGC resistor, in a common-emitter or common-base circuit, tics. Accordingly, the AGC resistor, in a common-emitter and impedes the slow-	
	is shunted by a capacitor which passes the r-f component and impeted developed for varying component of the emitter current. Approximate formulas are developed for designing such an amplifier. They were verified experimentally on a P411-transistor amplifier operating at a resonance frequency of 26 Mc with ΔF_{m} 3Mc and an amplifier operating at a resonance frequency of 26 Mc with ΔF_{m} 3Mc and an equivalent circuit resistance of 1 kohm. The new method is intended for analytical design of amplitude characteristics of the transistorized resonant amplifiers,	
	design 01 amplitude characterize DDC: 621.375.126:621.382.3 0901 1/2	P12
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VOLKOV, V.M.

Gas exchange and respiration in boys performing rhythmic locomotive exercises at a maximum speed. Fiziol. zhur. 49 no.12: 1457-1460 D '63. (MIRA 17:12)

1. From the Department of Physiology, Institute of Physical Culture, Smolensk.

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LEVIN, A.A.; VOLKOV, V.M.; DYATKINA, M.Ye.

Theoretical examination of the stereochemistry of complex compounds of elements with F-electrons. Part 1: Conversion of the f-orbital of the central atom. Zhur.strukt.khim. 4 no.6:930-934 N-D '63. (MIRA 17:4) 1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

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DESIGNY

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-9(3) -9,3240	67853 SOV/142-2-5-8/19
AUTHOR :	Volkov, V.M.
TITLE:	On the Problem of Transient Processes in Logarithmic <u>Video Amplifiers</u>
PERIODICAL:	Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika 1959, Vol 2, Nr 5, pp 607 - 615 (USSR)
ABSTRACT: Card 1/5	The author discusses typical transient process features in video amplifiers with logarithmic amplitude charac- teristics (LAKH - logarifmicheskaya amplitudnaya kharak- teristika), which is obtained by shunting the anode loads of amplifier stages by nonlinear elements, i.e. vacuum tubes or semiconductor diodes, for example DG- Ts, D2 or D9 germanium diodes. Relationships are derived for the pulse setup time at the amplifier output. Values are given for the incline of the flat pulse top and the "parazitnyy obratnyy vybros" (translation unknown). The latter restricts the practical application of lo- garithmic video amplifiers with a dynamic range of more

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67853 SOV/142-2-5-8/19 On the Problem of Transient Processes in Logarithmic Video Amplifiers than 50-55 db. It is difficult to produce a logarithmic amplitude characteristics in a single stage for a range of more than 15-20 db. However, it may be obtained over a very wide range when using several nonlinear stages, working alternately in logarithmic operation during input voltage increases. Figure 2 shows the amplitude characteristics of a nonlinear stage, requiring n stages for alternate operation and for two logarithmic bases (N = 2.72, N = 10). The equivalent circuit diagram of a nonlinear amplifier stage is shown in Figure 1, The author divides this circuit diagram into two equivalent circuit diagrams, shown in Figures 3 and 6, for the higher and lower frequencies. This is necessary, since the pulse front distortion is caused by the frequency response of nonlinear stage in the region of the Card 2/5 higher frequencies, while distortions of the flat pulse

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67853 SOV/142-2-5-8/19 On the Problem of Transient Processes in Logarithmic Video Amplitop are caused by the lower frequencies. Calculations and experiments performed by the author showed that the equivalent circuit diagram in Figure 6 may be regarded as linear, since the current in the circuit and the resistance of the nonlinear element remain practically constant during the influence of pulses of 5 - 10 microseconds duration ($R_a \ge 1$ kilohm, C_c = 0.1 ÷ 0.05 microfarad). The author examines the formation of the "parazitnyy obratnyy vybros" during the discharge of the capacitor C after the pulse action is over. The discharge of capacitor C is shown by the equivalent circuit diagram in Figure 7. The "parazitnyy obratnyy vybros", formed in a nonlinear stage, is considerably smaller than the signal and is amplified according to a linear law, while the signal is amplified by a logarithmic law. Calculations and ex-Card 3/5

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67853 SOV/142-2-5-8/19 On the Problem of Transient Processes in Logarithmic Video Amplifiers periments showed that the relative "parazitnyy obratnyy vybros" will rise to 6C% (t = 1 microsecond, R = 2 kilohms, C = 0.1 microfared) at the end of the logari-thmic range of 70 db at the output of a video amplifier consisting of nonlinear stages whose equivalent circuit diagram is shown in Figure 1. The pulse setup time at the outlet of an n-stage logarithmic video amplifier decreases considerably with rising input voltages, while the incline of the flat pulse top and the "parazitnyy obratnyy vybros" increase significantly, The latter are diminished greatly, if the nonlinear elements shunting the stage's anode load are connected before the capacitors C. All theoretical assumptions explained in this paper were checked experimentally. The author expresses his gratitude to Professor N.F. Card 4/5Vollerner for valuable suggestions. Publication of this

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67853 SOV/142-2-5-8/19 On the Problem of Transient Processes in Logarithmic Video Amplifiers paper was recommended by the Kafedra radiopriyemnykh ustroystv (Department of Radio Receivers) of the Kiyevskiy ordena Lenina politekhnicheskiy institut (Kiyev Order of Lenin - Polytechnical Institute). There are 4 circuit diagrams, 6 graphs, 1 table and 2 Soviet references. January 22, 1959 and after reworking, May 4, 1959 SUBMITTED: Card 5/5

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ALLER LEVEL AND A CARD AND A CARD AND A CARD A CARD AND A CARD NYARABARANA MANANA M 85322 s/142/60/003/004/006/013 E192/E382 6,4400 Amplifier With an Exponential Amplitude Characteristic AUTHOR: Izvestiya vysshikh uchebnykh zavedeniy, TITLE: Radiotekhnika, 1960, Vol. 3, No. 4, pp. 485-492 PERIODICAL: A receiver with a logarithmic amplitude characteristic has an increased noise immunity in comparison with a receiver having a linear amplitude characteristic. Usually, the intermediate frequency amplifier in a receiver has a logarithmic characteristic which can be expressed as $z = a \ln x + 1$ where x and z represent the input and output voltages of the amplifier and a is a constant characterising the slope of the logarithmic amplitude characteristic. However, the receiver of this type results in a deterioration of the signal-to-noise ratio at the output, as compared with a linear receiver. This deficiency can be overcome, if the logarithmic receiver is followed by an amplifier having an exponential amplitude characteristic. In practice, such an amplifier can easily be constructed. A block diagram of such a device is shown in Fig. 1 and its amplitude characteristic is illustrated Cardl/3

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85322 s/142/60/003/004/006/013 E192/E382 Amplifier with an Exponential Amplitude Characteristic The amplifier can be connected after the detector. A detailed circuit diagram of the amplifier is shown in are employed to Fig. 6, where the resistances R₁ and R₂ produce a suitable bias voltage across the non-linear element (rectifier), Amplitude characteristics of this device are shown in Fig. 7. The problem was also investigated experimentally and the results are illustrated in Fig. 8, where the exponential characteristics are plotted in a semilogarithmic scale; the "solid" curves represent the ideal exponentials, while the dotted curves give the experimental results. An amplifier with an exponential amplitude characteristic is particularly useful if the receiver is employed in the measurement or detection of very weak signals. One of the disadvantages of the amplifier is its temperature dependence, which is due to the poor temperature characteristics of the Card 2/3

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