



CIA-RDP86-00513R000309910001-8"

CIA-RDP86-00513R000309910001-8

ACCESSION NR: AT4017172

8/2546/63/000/128/0064/0078

AUTHOR: Davy\*dova, O. A.; Prenina, G. N.

TITLE: Results of a forecast of the development of high-level cyclones and anticyclones

SOURCE: Mescow. Tsentral'ny\*y institut prognosov. Trudy\*, no. 128, 1963. Voprosy\* kratkosrochny\*kh prognosov pogody\* (Problems of short-range weather forecasting). 64-78

TOPIC TAGS: meteorology, weather forecasting, short-range weather forecasting, atmospheric geopotential, cyclone, anticylcone, atmospheric pressure, wind, wind divergence, atmospheric vorticity

ABSTRACT: The method for computing diurnal changes of geopotential at the centers of cyclones and anticyclones at the 850- and 700-mb surfaces is described; this method is essentially that developed over a period of years by B. D. Uspenskiy and repeatedly described in the literature (for example, by the author in Meteorologiya i gidrologiya, No. 1, 1961). The modification introduced here involves an allows ance for the angles between the meridians on the chart and the parallel straight lines on the rectangular grid at whose points of intersection data are read for determination of wind divergence, vorticity and other values entering into pro- $Card = \frac{1/2}{2}$ 

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ACCESSION NB: AT40171	72	n an
the modification. The forecasting the develo ior to the unmodified	method described was appl pment of cyclones and anti- method Detailed results	the steps necessary in implementing lied to 25 synoptic situations for loyclones, yielding results super- are given of a forecast made art. has: 20 formulas, 8 figures
ASSOCIATION: "TSINTRAL		Central Institute of Forecasts)
SUEMITTED: 00	DATE ACQ: 24Feb	64 BNCL: <sup>f</sup> oo
SUB CODE: AS	NO BEP SOV: COS	3 071EDER: 000
	no vel 200 - 37	other
Cord 2/2		

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CCESSION NR: AT4017177	\$/2546/63/000/128/0155/0159	
WTHOR: Baydina, N. A.; Davy*dova	. O. A.; Konyukhove, M. S.	
ITLE: Experience in preparing fo potential, temperature, wind, clou	recasts of the surface field: of pressure, geo- d cover and precipitation for 12 hours in advance	
SOURCE: Moscow. Tsentraliny*y in Joprosy* kratkosrochny*kh prognozo casting), 155-159	stitut prognozov. Trudy*, no. 128, 1963. v pogody* (Problems of short-range weather fore-	
TOPIC TASS: meteorology, weather atmospheric geopotential, atmosphe precipitation, wind, troposphere	forecasting, short-range weather forecasting, ric temperature, atmospheric pressure, cloud,	
area (except for pressure) on the Short-Range Weather Forecasting; h /arious attempts have been made by cedures to make a more extensive f nevertheless, as shown in this art tensive areas while adhering to th	e Soviet Union are usually prepared for a small basis of the method described in the Manual on owever, forecasts are needed for extensive areas. different authors to speed up and simplify pro- orecast possible, but at the expense of quality; icle, forecasts can be made speedily for ex- e basic procedures and quality standards set made over a period of 11 days in July 1959.	

ACCESSION NR:	AT4017177			. · · ·	
ments were com were compiled; (genera and w the 1000-300 m each cr these good results. 2-2-1/2 hours; been avoided.	npiled for 12 h surface pres vertical thickn nh, layer also w procedures are The time requ the Manual is Ata the same t nown on high-le	nours in advance soure, 700-, 500 ness) and precip was predicted. a given. A samp lired for 4 weat a adhered to any time, more comp	e. The following D- and 300-mb sur pitation. The me The <u>formulas</u> and ple forecast, des thermen to do all d earlier propose lete use has been	er mateorological prognostic chart faces, cloud cove an geostrophic wi techniques used cribed briefly, s the work involve d simplifications made of the obse art. has: l figu	showed showed showed shave
ASSOCIATION: Forecasts)	TSENTRAL' NY*Y	INSTITUT PROGN	DZOV, MOSCOW (Cen	itral institute of	F
SUBMITTED: 00	<b>)</b>	DATE ACQ:	24Feb64	ENCL: 00	
SUB CODE: AS	10 N 19 - 11	NO REF SO	V: 004	OTHER: 000	
		E.	•		

USFENSKIY, B.D., doktor fiz, -mat. nauk, prof.; BELOUSOV, S.L.; kand. fiz.-mat. nauk; PYATYGINA, K.V.; YUDIN, M.I.; MERTSALOV, A.N., kand. fiz.-mat. nauk; DAVYDOVA, O.A.; KUPYANSKAYA; A.P.; PETRICHENKO, I.A.; MORSKOT, G.I.; TOMASHEVICH, L.V.; SAMOYLOV, A.I.; ORLOVA, Ye.I.; DZHORDZHIO, V.A.; FETRENKO, N.V.; DUBOVYY, A.S.; ROMOV, A.I.; PETROSYANTS, M.A.; GLAZOVAYA, A.P.: BATYAYEVA, T.F.; BEL'SKAYA, N.N.; CHISTYAKOV, A.D.; GANDIN, L.S.; BURTSEV, A.I.; MERTSALOV, A.N.; BACROVYY, N.A.; BELOV, P.N.; ZVEREV, AVS., retsenzent; SIDENKO; G.V., red.; DUBENTSOV, V.R., kand. Liz.-mat. nauk, nauchn. reu.; SAGATOVSKIY, N.V., red.; BUGAYEV, V.A., doktor geogr. nauk, prof., red.; ROGOVSKAYA, Ye.G., red.

> [Manual on short-range weather forecasts] Rukovodstvo po kratkosrochnym prognozam pogody. Leningrad, Gidrometeoizdat. Pt.1. Izd.2., perer. i dop. 1964. 519 p. (MIRA 18:1)

1. Moscow. TSentral'nyy institut prognozov.

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DAVYDOVA, O.D.

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Practices in the use of waterproofed wood for wooden goods. Bum. i der. prom. no.2:41-44 Ap-Je '64.

(MIRA 17:9)

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000309910001-8 7. 11V G 7 EV4, C. K. BLAGOVESHCHENSKIY, A.V.; DAVYDOVA, O.L.; PRESNYAKOVA, M.A. Biochemical characteristics of the crowfoot family. Biul. Glav. bot. sada no.14:29-33 '52. (MIRA 6:5) 1. Glavnyy botanicheskiy sad Akademii Nauk SSSR. (Ranales) (Plants--Chemical analysis)

. .

EL'HERT, B.Ya.; KRASIL'NIKOV, A.P.; IZRAITEL', N.A.; DAVYDOVA, O.V.; FACEHTEYN, B.A.

> Investigation of the fishes of the Pripet River Basin as bearers of the scleroma bacillus. Zhur. ush., nos. i gorl. bol. 21 no.2: 39-44 Mr-Ap '61. (MIRA 14:6) 39-44 Mr-Ap '61.

1. Kafedra mikrobiologii (zav. - prof. B. Ya. El'bert) Minskogo meditsinskogo instituta. (RHINOSCLEROMA) (PRIPET RIVER BASIN\_FISHES) (FISH AS CARRIERS OF DISEASE) •

CIA-RDP86-00513R000309910001-8

AZAROV, K.P.; DAVYDOVA, P.P.

Effect of preparing a metal surface on the quality of enamels without ground coating. Trudy NPI 154:53-61 '63.

(MIRA 17:10)

DAVYDOVA, R.A.

Species of the genera Cylindropuntia and Opantia growing outdoors in Ashkhabad. Izv. AN Turk. SSR. Ser. biol. nauk no.5:46-53 163.

1. Botanicheskiy and Tarkmanskey SSR.

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### HROLOV, P.N., DAVYDOVA, R.G.

Hydraulic forging press of 800-ton capacity manufacture of 60. firm "Fielding." Kuz. shtam. proizy. 2 no.12:38-44 D '60. (MIRA 14:3)

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(Hydraulic presses)

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L 16089-65 EWT(d)/EWT(m)/EWN(d)/EWP(v)/EWP(k)/EWP'h)/EWP(b)/EWP(1:/EWP(t) ACCESSION NR: AT4048350 Pt+4 JD/HW S/3000/64/000/008/0036/0042.

AUTHOR: Frolov, P.N. (Engineer), Matvoyev, I.B. (Candidate of technical sciences), 8/1 Davy\*dova, R.G. (Engineer), Gutsalaako, F. F. (Engineer)

TITLE: Hydraulic impact presses

1997 (2014) - 1998 (2014) 1997 - 1997 (2014) - 1997 (2014) 1997 - 1997 (2014) - 1997 (2014)

SUURCE: Moscow. Eksperimental ny y hauchno-issledovatel'skiy institut kuznechnopressovogomashinostroyeniya. Nauchny ye trudy\*, no. 8, 1964. Novoye v kuznechnoshtampovochnom proizvodstve (Latest developments in the forging industry), 36-42

TOPIC TAGS: hydraulic press, impact press, vibration forging, metal forging, cormet forging

ABSTRACT: The paper describes a theoretical investigation of a new type of hydraulic press which produces vibration in the forging dies by periodically supplying a fluid into the working cylinder and subsequently draining it. The plunger employed has a small stroke of 2-5 mm with respect to the cylinder, thereby decreasing significantly and making constant the losses due to compression of the fluid; the plunger, however, together with the cylinder, can be displaced for any given distance. The working pressure is obtained due to the inertia in the upward motion of the working cylinder, which has considerable mass (the weight of the cylinder exceeds the weight of the plunger 10-20 times). Cord 1/3

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Core 2/8

The advantage of this press is not only the application of a periodic impact load to the workpiece, which decreases the resistance of n stals to deformation by 20-30% and the resistance to deformation of friable materials by a factor of 3 to 5, but also the considerably smaller weight of the press. The first experimental model of the press giving a working pressure of 5.3 tons was constructed in 1959. A description is given of a later model constructed during 1960-1961 in the suthors' Institute. The following basic elements determining the efficiency and originality of the pump are described: The hydraulic system of the pulse mechanism, the design of the cylinder and the plunger, the hydraulic system of the draining valve. The remaining elements of the press can be pulsating valve and the draining valve. The remaining elements of 120-400 vibrations pressing metals and refractory mixtures at a frequency of vibration of 120-400 vibrations per minute (13.3-16.7 cps) for a plunger stroke of 2-5 mm. The vibration can be smootl?y controlled. For the hydraulic drive, pumps having pressures within the limits of 200-400 kg/cm<sup>2</sup> and a discharg? rate of 0.84-1.67 liters/sec. can be used. The

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ACC NR: AP7002613 ( A, N) SOURCE CODE: UR/0413/06/000/025/0100/025	· · · · · · · · · · · ·
INVENTOR: Vasil'yev, B. P.; Davydova, R. G.; Platonov, V. N.	
ORG: None	<b></b> .
TITLE: A device for automatic control of a hydraulic vibrator. Class 58, No. 189312 [Experimental Scientific Research Institute of Forging and Pressing Machine Building (Eksperimental'nyy nauchno-issledovatel'skiy institut kuznechno-pressovogo mashinostroyeniya)]	hand
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 128	
TOPIC TAGS: hydraulic device, metal press	_
ABSTRACT: This Author's Certificate introduces a device for automatic control of a hydraulic vibrator, specifically for a hydraulic vibration press operating from a con- stant high-pressure source of working fluid. The unit contains high-speed pulser valves for feeding the working fluid to the cylinder of the working element and a de- vice for filling the cavities above the valves. Vibration frequency is increased and control is simplified by making the device for filling these cavities in the form of a single-stage unit consisting of a chamber located in the cylinder housing where a hy- dropneumatic cushion is set up for pressure control of a relief valve.	
Card 1/2 UDC: 621.226	

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DAV	YDOVA,	R.M.

Tables made on no.11:38 N	f laminated plastics. 62.	Mashinostroitel <sup>†</sup> (MIRA 15:12)
	(Plastics)	

DAVYDOVA, R.M.

Hermetic sealing of units of machine tools. Biul.tekh.-ekon.inform. Gos.nauch.-issl.inst.nauch.i tekh.inform. 17 no.1:45-46 '64. (MIRA 17:2)

DAVYDOVA, R.M. Suggested during an inspection. Maphinostroitel' no.2:40 F '65. (MIRA 18:3) .

SHAPIRO, Ye.A.; ZHUKOVSKIY, Ye.S.; MUSTAFABEKOVA, A.A.; MIKHAYLOV, N.D.; KOBYLYANSKIY, A.E.; KONONIKHIN, A.G.; EPSHTEYN, R.R.; KARPINSKIY, V.F.; DAVYDOVA, R.T.; TROITSKIY, V.I., red.; GOR'KOVA, M.A., vedushchiy red.; FEDOTOVA, I.G., tekhn.red.

> [Establishing standards for material consumption and stocks in the petroleum industry] Mormirovanie raskhoda i proizvodstvennykh zapasov osnovnykh materialov v neftianci promyshlennosti. Moskva, Gos.nauchno-tekhn.isd-vo neft. i gorno-toplivnoi lit-ry, 1959. (MIRA 12:12) 252 p.

(Petroleum industry--Standards)

DAVYDOVA, R. Z.

Davydova, R. Z.

"Investigation of the Exchange Adsorption of Anicns on Synthetic Anionites." Min Higher Education Ukrainian SSR. Khar'kov Order of Labor Red Banner State U imeni A. M. Gor'kiy. Khar'kov, 1955. (Dissertation for the Degree of Candidate in Chemical Sciences)

So: Knizhnava letopis', No. 27, 2 July 1955

DAVYDOY, A.Y.; DAVYDOVA, R.Z.

Study of the temperature dependence of the adsorption and the exchange energy of silicic acid. Ehur.fiz.khim. 31 no.4:815-819 Ap 157. (MLRA 10:7)

1. Gosudarstvennyy universitet im. A.M.Gor"kogo i Sel'skokhosysystvennyy institut im. V.V.Dokuchayeva, Khar'kov. (Silicic acids) (Anions) (Adsorption)

JAVY DODA (K. Z.,

73-3-24/24

AUTHOR: Davydov, A. T. and Davydova, R. Z.

- Ion Exchange Sorption of Silicic Acid on H and H-o Anionites. TITIE: (Issledovaniye Jonnoy Obmennoy Sorbt.sii Kremnevoy Kisloty Na Anionitakh Marki H i H-o)
- PERIODICAL: Ukrainskiy Khimicheskiy Zhurnal, 1957, Vol. 23, No.3, pp. 415-419(USSR)
- ABSTRACT: Silicic acid can be adsorbed from solutions with H and H-o anionites under static conditions and converted to anions of strong acids. B. P. Nikol'skiy's equation was checked in order to clarify the character of processes taking place during exchange-sorption silicic acid. The silicic acid was adsorbed on H and H-o anionites (synthesised in the Department for Plastic Substances of the Moscow Chemico-Technological Institute im. D.I Mendeleyeva). When the divalent anion adsorbent is changed to a monovalent adsorbent, Nikol'skiy's equation is as follows:

$$a = a_m - K^2 \alpha \left( \frac{\alpha}{5.000 C_0 - \alpha} \right)^2$$

where a = quantity of divalent anion (in mg/ekv); desorbed from 2 g of the adsorbent, calculated on 100 g Card 1/3J. .

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73-3-24/24 Ion Exchange Sorption of Silicic Acid on H and H-o Anionites.

of the adsorbent;

a<sub>m</sub> = Maximum adsorption (in mg/ekv) /100 g of the sorbent:

C = initial concentration of the anion (in mole/litre) K<sup>o</sup> = constant of change.

When plotted on a graph: y = a;  $\left(\frac{\alpha}{50000}, -\alpha\right)$  $\mathbf{x} = \mathbf{a}$ 

and linear isotherms are obtained. Experimental data, calculated by the method of least squares, are tabulated (Tables 1 and 2). The concentration of the anions was within the limits of 0.05-N to 1-N. The anionite H-o was shown to have greater practical importance which, during the conversion of silicic acid to carbonate ions, revealed a working capacity up to 90 mg/ekv per 100 g of adsorbent. This is 3-times larger than the capacity of glauconite. The anions can be arranged in the following order, according to their absorptive properties:  $CO_3 > NO_3^2 > C1' > SO_4'$  which represents

the reverse order of adsorption occurring during an exchange on weakly basic anionites. There are 2 tables and 8 Slavic references.

Card 2/3

CIA-RDP86-00513R000309910001-8

73-3-24/24 Ion Exchange Sorption of Silicic Acid on H and H-o Anionites. SUBMITTED: September, 10, 1956.

ASSOCIATION: Kharkov State University imeni A. M. Gorkiy, Agricultural Institute imeni V. V. Dokuchayev. (Khar'kovskiy Gosudarstvennyy Universitet im. A. M. Gor'kogo, Sel'skokhozyaystvennyy Institut im. V. V. Dokuchayeva)

AVAILABLE: Library of Congress.

Card 3/3

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Investigation	of the Lows of Polyanionic Exchange SCV-69-58-4-5/18
	anionite for carbonate ions. There is 1 table and 10 references, 8 of which are Soviet, 1 English, and 1 German.
ASSOCIATIONS:	Khar'kovskiy gosudarstvennyy universitet imeni A.M. Gor'kogo (Khar'kov State University imeni A.M. Gor'kiy) Khar kovskiy sel'skokhozyaystvennyy institut imeni V.V. Do- kuchayeva (Khar'kov Agricultural Institute imeni V.V. Doku- chayev)
SUBMITTED:	June 2, 1956 1. Chromatographic analysisApplications 2. Ion exchangeApplications
Card 2/2	

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# DAVIDOVA, S., red.; MATVEYEVA, A., tekhn.red.

[Wood milling machinery and equipment] Derevoobrabatyvaiushchie stanki i oborudovanie. Izd.ofitsial'noe. Moskva, 1961. 215 p. (MIRA 14:6) 1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov. (Woodworking machinery)

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DAVYDOVA, S. A., Cand Med Sci -- (diss) "Peculiarities of reflex activity in dogs in acute radiation sickness." Mos, 1957. 13 pp (Acad Med Sci USSR), 250 copies (KL, 52-57, 111)

- 109 -

DAVYDOVA SA.

**3-11** USSR/Human and Animal Physiology - Effects of Physical Factors. Ionizing Radiation. Abs Jaur : Ref Ehur - Biol., No 13, 1953, 84689 : Gorizontov, R.D., Davydova, S.A. Author Inst: : Exposing the Toxic Properties of Blood in Irradiated Title Animals by Tests with Adveralcotomized Animals. Orig Pub : Ned. radiologiya, 1957, 2, No 5, 51-55. : Rats were subjected to general X-ray irradiations with 2,000 r doses (output, 40.6 r/min); dogs received 300 r Abstract doses (output, 15.1 r/min). After irradiation blood was taken on the 1st, End, and 3rd days, centrifuged for 15 minutes, and after 20-25 minutes the serum was intraperitoneally injected into previously (1 day before test) adrenalectomized (A) mice (0.5 ml) and rats (1 ml). The mortality of mice was investigated for 3 days following injections, and of rate for 1 month. Sera (3) originating Card 1/2

DAVYDOVA, S.A. (Moskva); GORIZONTOV, P.D., prof., nauchnyy rukovoditel'

Protective and therapeutic effect of somatotropic hormone in acuto radiation sickness. Fat. fiziol. i eksp. terap. ? no.4:64-65 J1-Ag 163. (MIRA 17:9)

1. Deystvitel'nyy chlen AMN SSSR (for Gorintov).

DAVYDOVA, S.A.; SHCHERBOVA, Ye.N.

Use of diazoline in experimental acute radiation sickness. Pat. fiziol. i eksp. terap. 7 no.6:72 N-D '63.

(MIRA 17:7)

ACC NR: AP6007762	SOURCE CODE: UR/0205/66/00	6/001/0093/0095
AUTHOR: Davydova, S. A.; D	orofeyev, V. H.; Yakovlev, V. G.	39
DRG: none	19	ß
ITLE: The possibility of total quantity of Diche-post	isolating <u>radiation protection agents</u> on itive compounds in urine	the basis of the
SOURCE: Radiobiologiya, v.	6, no. 1, 1966, 93-96	
TOPIC TAGS: gamma irradiat	ion, radiation protection, ionizing radia	tion
tective effect and the capa Diche-positive compounds (D ers noted a considerable DP ed that this reaction was a ed that the reaction could In order to check these the (700 rad), after having rec containing radiation protec and others). It was found	ade to establish a correlation between th city of protection agents to influence th PC) in the urine of irradiated organisms. C increase in the urine of irradiated ani specific feature of radiation sickness; be used to diagnose and isolate radiation ories, rats of both sexes were exposed to eived protective doses of 1 of 24 prepara tion agerts, high molecular compounds, in that irradiation increased DPC production The authors conclude that the rise in t	e production of Earlier research- mals and suggest- they also suggest- protection agents. Co <sup>69</sup> gamma rays tions (sulfur- dole derivatives, in the urine by
Cord 1/2	UDC: 577. 391;628.58	


UNVINUUM, D.D. KCRZHEV, Pavel Petrovich, pri uchastii K.Ya.Parmenova, S.D.Davydova, Ya.L.Gol'dfarba, A.B.Neydinga; POZDNYAKOVA, N.I., red.; SHIBNOV, G.I., tekhn.red. [Chemistry manual for teachers of secondary schools] Spravochnik po khimii dlia uchitelei srednei shkoly. Izd. 4-os, ispr. i dop. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1958. (MIRA 11:5) 423 p. (Chemistry---Laboratory manuals) .

DAVYDOVA, S.A. (Moskva)

ومعرجي والمرجو

Effect of sex hormones on the course of acute radiation sickness. Pat. fiziol. eksp. ter. 7 no.5245-48 S-0\*63 (MIRA 17:2)

# CIA-RDP86-00513R000309910001-8



79-28-4-9/60 Stepanov, F. N., Davydova, S. L. AUTHORS: Heterocyclic Methyl-Ketone Derivatives (Geterotsiklicheskiye TITLE: proizvodnyye metilketonov) Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 4, pp. 891-896 (USSR) PERIODICAL: In 1898 W. Wislicenus (Ref 1) carried out the condensation ABSTRACT: of oxalate with quinaldine and obtained the ether of the . substituted pyroracemic acid. Later on this reaction was investigated more detailed by Borsche and his collaborators (Ref 2). They extended it also to other heterocycles (Ref 3). In such a condensation the diethyl oxalate is one of the most Estive acylating ethers. The authors found it interesting to get to know condensations with less active compounds, e.g. with ethyl benzoate and other ethers. Under the action of potassium ethylate the ethyl benzoate enters reaction with 2 methyl homologues of different heterocycles and forms ketones according to the scheme  $x = c - cH_3 + c_2H_5 ocor - \frac{c_2H_5 oc}{c_2H_5 oc}$ C-CH<sub>2</sub>COR Card 1/3

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Heterocyclic Methyl-Ketone Derivatives

79-28-4-9/60

(I) 
$$X = S_{2} R = C_{6}H_{5}$$
; (II)  $X = 0$ ,  $R = C_{6}H_{5}$ ; (III)  $X = S_{2}$ ,  $R = C_{6}H_{5}$ ;  
(IV)  $X_{2}^{*} = CH = CH_{2} R = C_{6}H_{5}$ ; (V)  $X = NCH_{3}$ ,  $R = C_{6}H_{5}$ ; (VI)  $X = S_{3}$ ,  
 $R = CH_{3}$ ; (VII)  $X = S_{3}$ ,  $R = n - CH_{3}OC_{6}H_{4}$ ; (VIII)  $X = S_{3}$ ,  $R = n - ClC_{6}H_{4}$ ;  
(IX)  $X = S_{3}$ ,  $R = n - C_{2}H_{5}OCOC_{6}H_{4}$ 

2-methyl banzimidazole which under given conditions does not react at all, forms an exception. The yield of ketones fluctuates between 5 and 28 %. One of the ketones obtained by the authors  $\omega$ -benzoyl-2-methyl-benzthiazole (I) was described already earlier by Rogers and Sexton (Ref 5) who had obtained it by another method. (In the mentioned paper the boiling point was erroneously fixed at 150° instead of the correct boiling point at 110 - 111°). The para-substituted ethyl benzoates behaved much more active in the reaction with 2-methyl-benzothiazole. The same heterocylcic ketones with the exception of (IV) may be obtained also by another method, by means of the condensation of o-substituted anilines with acyl or aryl acetate according to the scheme

Card 2/3



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5 (3) AUTHORS:	Nazarov, I. N., Prostakov, N. S., SOV/79-29-7-40/83 Mikheyeva, N. N., Davydova, S. L.
TITLE:	Synthetic Anodyne Compounds. 7-Piperidones, 7-Piperidols and Their Ethers (Sinteticheskiye obezbolivayushchiye veshchestva. 5-Piperidony, 7-piperidoly i ikh efiry)
PERIODICAL:	Zmurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2285-2292 (USSR)
ABSTRACT :	The authors continued their investigations on the synthesis of $\gamma$ -piperidols and their ethers, the analogs of promedol and isopromedol (Ref 1), and obtained a number of new $\gamma$ -piperidones by alkylation or acylation of the 2,5-dimethyl-4-piperidone (Refs 2, 3). The 1- $\beta$ -phenyl ethyl-(I), 1- $\gamma$ -phenyl allyl-(II), 1- $\beta$ -p-nitro phenyl ethyl-(II), 1-phenyl carbo-methoxy-methyl-(IV), 1-(3',4',5'-trimethoxy benzoyl)-(VI), 1-nicotinoyl-(VII), 1-furfuroyl-(VIII), 1- $\beta$ -diethyl-amino propionyl-(IX) and 1-carbo-benzoxy- 2,5-dimethyl-4-piperidone (X) were synthesized. Compound (V) was obtained by the reduction of the nitro group of 1-p-nitro benzoyl-2,5-dimethyl-piperidone (Ref 3). In the case of hydrogenolysis of (X) the initial-2,5-dimethyl-4-piperidone is formed. Synthesis of the $\gamma$ -piperidols was
Card 1/2	brought about by reaction of the corresponding piperidones

Synthetic Anodyne Compounds. *p*-Piperidones, *p*-Piperidols and Their Ethers

SOV/79-29-7-40/83

with organolithium compounds or also by substitution of hydrogen of the secondary amino group of the 2,5-dimethyl-4phenyl-4-piperidol (Ref 4) by the corresponding radicals. The following compounds are obtained: The piperidols (XI), (XII), (XII), (XIV), (XV). In the case of ether formation of piperidols by means of acid chlorides the ethers (XVI), (XVIII), (XIX), (XX), (XVII) the  $\pounds$ -, $\beta$ - and  $\gamma$ -isomers of 1,2,5-trimethyl-4-phenyl-4piperidol (I), (XXI) and (XXII) were obtained. For the pharmacological test the hydrochlorides of the ethers of some tertiary and secondary  $\gamma$ -piperidols were prepared (more exact information in the experimental part). There are 4 Soviet references.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii (Moscow Institute for Fine Chemical Technology)

SUBMITTED: June 23, 1958

Card 2/2

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APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86



KOLESNIKOV, C.S.; DAVYDOVA, S.L.; SHMAL'TS, A.M.; SHALINA, N.A.

Polyesters of antimonous and chloroantimonous acids. Izv.AN (MIRA 16:4) SSSR.Otd.khim.nauk no.2:368-373 F '63.

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Antimonic acids)

# CIA-RDP86-00513R000309910001-8

DAVYDOVA, S.L.; PLATE, N.A.; YAMPOL'SKAYA, M.A.; KARGIN, V.A.

Chemical modification of chlorinated polyolefins by incorporation of aromatic groups. Vysokom. soed. 7 no.11:1946-1949 N '65. (MIRA 19:1)

1. Institut neftekhimicheskogo sinteza AN SSSR. Submitted December 25, 1964.

# DAVYDOVA, S. L.

"An Investigation of Heterocyclic Derivatives of Acetophenone." Cand Chem Sci, Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov, 13 Dec 54. (VM, 9 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

KOLESNIKOV, G.S.; DAVYDOVA, S.L.; YERMOLAYEVA, T.I.

Carbochain polymers and copolymers. Part 17: Polymerization of diallyl derivatives of silicon and germanium. Vysokom. soed. 1 no.10:1493-1495 0 '59. (MIRA 13:3) (MIRA 13:3)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Silicon compounds) (Germanium compounds) (Polymers)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000309910001-8"

1. K. 1. K. 1. K. 1.

VUL'FSON, N. S.; DAVYDOVA, S. L.; LUKASHINA, L. I.

Investigation in the series of derivatives of acetonitrile. Report No.2: 2-cyanomethylquinoxalone-3 and its derivatives. Org. polu-prod. i kras. no.1:231-236 59. (MIRA 14:10) (Acetonitrile)

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5(3) AUTHORS:	Kolesnikov, G. S., Davydova, S. L. SOV/79-29-6-58/72
TITLE:	Carbochainpolymers and Copolymers (Karbotsepnyye polimery i sopolimery). XIII. Synthesis and Polymerization of Some Un- saturated Compounds, Which Contain Elements of the Group IV (XIII. Sintez i polimerizatsiya nekotorykh nenasyshchennykh soyedineniy, soderzhashchikh elementy IV gruppy)
PERIODICAL:	Zhurnal obshchey khimii, 1959, Vol 29, Nr 6, pp 2042-2045 (USSR)
ABSTRACT :	The aim of this work was the synthesis and polymerization of elemental organic compounds, which contain in their composition Sn, Ge, Si, i.e. derivatives of vinyl and styrene of the type $R_{J}MCH=CH_{2}$ and $R_{J}MC_{6}H_{4}CH=CH_{2}$ . The triethyl-vinyl-silane was synthesized by dehydro-chlorination of triethyl- $\beta$ -chloro-ethyl silane, by Ushakov and Itenberg (Ref 1) and closer analyzed by Kanazashi (Ref 2). The authors synthesized the trimethyl- vinyl-silane by the reaction of vinyl-magnesium-bromide with trimethyl-chloro-silane, the triethyl-vinyl-stannane, according to D. Seyferth and F. G. A. Stone (Ref 3), by the reaction of the vinyl-magnesium-bromide with triethyl-chloro-stannane, and for the first time, the triethyl-vinyl-germane by the reaction
Card 1/3	

Carbochainpolymers and Copolymers. XIII. Synthesis and SOV/79-29-6-58/72 Polymerization of Some Unsaturated Compounds, Which Contain Elements of the Group IV

> of the triethyl-bromo-germane with vinyl-magnesium-bromide. Trichloro-vinyl-germane was also synthesized according to A. D. Petrov and his associates (Ref 6), but tribromo-ethylgermane was used as starting material. By the reaction of 4-triethyl stannyl-phenyl-magnesium-bromide with acetaldehyde according to references 7 and 8 the 4-triethyl-stannyl-phenylcarbinol was obtained by the reaction of 4-triethyl-germanylphenyl-magnesium-bromide with acetaldehyde the 4-triethyl-germanyl-phenyl-methyl-carbinol was obtained and by the reaction of ethylene-oxide with triethyl-germanyl-magnesium-bromide the  $\beta$ -(4-triethyl germanyl phenyl)-ethyl alcohol was obtained. Inasmuch as dehydration of alcohol failed, the method of M. S. Kharasch(Ref 9) for the synthesis of substituted styrenes was used; by the reaction of 4-triethyl-stannyl-phenyl-magnesium with vinyl-bromide in the presence of cobalt salt the 4-triethyl-stannyl styrene resulted. In this way the triethylgermanyl-styrene and the 4-trimethyl-silyl-styrene were obtained. The experiments to obtain polymers from synthesized unsaturated compounds had only very small yields as a result. Of the

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Carbochainpolymers and Copolymers. XIII. Synthesis and SOV/79-29-6-58/72 Polymerization of Some Unsaturated Compounds, Which Contain Elements of the Group IV

> synthesized compounds of germanium, tin and silicon, the triethyl-vinyl-germane, the 4-triethyl-germanyl-styrene and the 4-triethyl-stannyl-styrene were not yet described up to present. There are 11 references, 4 of which are Soviet.

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR ASSOCIATION: (Institute for Elemental Organic Compounds of the Academy of Sciences, USSR)

May, 24, 1958 SUBMITTED:

Card 3/3

DAVYDOVA, S. L., KLIMENTOVA, N. V. and KOLESNIKOV, G. S. (USSR)

Polimery soderzhashchie germanii Germanium containing polymers TUPAC S 1:156-9

report presented at the Intl. Symposium on Macromolecular Chemistry, Moscow, 14-18 June 60

Germanium 1

CIA-RDP86-00513R000309910001-8

84515 s/190/60/002/004/016/020 B004/B056

## 2109,2209,1581 15.8114

Kolesnikov, G. S., Davydova, S. L., Klimentova, N. V. AUTHORS:

TITLE:

Carbochain Polymers' and Copolymers. XXII. Synthesis, Polymerization, and Copolymerization of Methacrylyltriethyl

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 4, 🗙 PERIODICAL: pp. 563-566

TEXT: It was the aim of the authors to synthetize methacryl derivatives of germanium and to produce their polymers. In the present paper, a report is given on the results obtained by the hitherto unknown methacrylyltriethyl germanium (MATEG). This compound was synthetized according to the scheme  $(C_2H_5)_3GeBr + CH_2 = C(CH_3)COOK$ 

 $\rightarrow$  CH<sub>2</sub>=C(CH<sub>3</sub>)COOGe(C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>. The infrared spectrum of this compound and, for comparison, the infrared spectrum of methylmethacrylate are

Card 1/2

APPROVED FOR RELEASE: 06/12/2000

Carbochain Polymers and Copolymers. XXII. S/190/60/002/004/016/020 Synthesis, Polymerization, and Copolymerization B004/B056 of Methacrylyltriethyl Germanium

shown in Fig. 1. In the presence of benzoylperoxide or azoisobutyric acid dinitrile MATEG polymerized to form transparent products. Further, also copolymerization with methylmethacrylate and styrene was attained. Because of the low activity of MATEG, the copolymers contained considerably less MATEG than the initial mixture with methylmethacrylate (1 : 194; 1 : 239 instead of 1 : 4; 1 : 10; see Table). The thermal properties of the polymer and its copolymers are represented in Fig. 2. The polymer of MATEG softens at 180 - 185°C, its copolymer with methylmethacrylate at a lower temperature, and the copolymer with styrene at about 145°C. The authors thank <u>G. L. Slonimskiy</u> for the thermomechanical examination, <u>N. A. Chumayevskiy</u> for the infrared spectra. There are 2 figures, 1 table, and 5 references: 2 Soviet, 1 US, 1 British, and 1 German.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Elemental-organic Compounds AS USSR)

SUBMITTED: January 15, 1960

Card 2/2

APPROVED FOR RELEASE: 06/12/2000

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CIA-RDP86-00513R000309910001-8

84516 s/190/60/002/004/017/020 2109,2209,1541 15.8114 B004/B056 Kolesnikov, G. S., Davydova, S. L., Yermolayeva, T. I., Shilova, N. D., Bykhovskaya, M. B. AUTHORS: Carbochain Polymers and Copolymers. XXIII. The TITLE: Copolymerization of Diallyl-derivatives of Germanium, Tin, and Silicon With Styrene and Methylmethacrylated in the Presence of Benzoylperoxide Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 4, PERIODICAL: pp. 567-571 TEXT: It was the aim of the present paper to investigate the influence exerted by the content in diallyldimethylgermanium, diallyldiethylftannane, diallyldiethylsilane in the initial mixtures with respect to the composition of the polymers with styrene and methylmethacrylate. Copolymerization took place at 60°C in gasoline. The reaction lasted 8 h, concentration of the benzoylperoxide was 2% by weight, referred to the sum of the monomers. The copolymers with methylmethacrylate were found Card 1/3

APPROVED FOR RELEASE: 06/12/2000

Carbochain Polymers and Copolymers. XXIII. The Copolymerization of Diallyl-derivatives of Germanium, Tin, and Silicon With Styrene and Methylmethacrylate in the Presence of Benzoylperoxide 84516 s/190/60/002/004/017/020 b004/b056

to be insoluble in the usual solvents. The compounds obtained were analyzed (Tables 1,2), and their thermomechanical properties were investigated (Figs. 1,2). In the copolymers with styrene, also the viscosity in benzene and the molecular weight was determined. An increasing content in elemental organic monomers in the initial mixture resulted in a decrease of the molecular weight of the copolymers. This is explained by the low activity of the elemental organic compounds. The copolymers with styrene had a lower softening temperature than polystyrene. The copolymers with methylmethacrylate showed no steric structure in the course of the thermomechanical investigation. That they are nevertheless insoluble, is explained by the very weak cross linking, which produces no effect upon the thermomechanical properties. The authors thank S. R. Rafikoy and G. L. Slonimskiy for determining the molecular weight and the thermomechanical properties. They mention papers by V. V. Korshak et al. (Refs. 1-3) and A. Ye. Borisov (Ref. 4). There are 2 figures,

Card 2/3

APPROVED FOR RELEASE: 06/12/2000

The Copolymeri of Germanium, and Methylmeth Benzoylperoxid		yl-derivatives n With Styrene Fresence of nces.	BO04/B056	002/004/017/020	
ASSOCIATION:	Institut eleme (Institute of	ntoorganicheskik Elemental Organi	ch soyedineniy A c Compounds of	NN SSSR the AS USSR)	X
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APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000309910001-8"

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5/074/60/029/012/004/004 B013/B078

AUTHORS: Kolesnikov, G. S., Davydova, S. L.

TITLE: Polymerization of Non-conjugate Dienes

PERIODICAL: Uspekhi khimii, 1960, Vol. 29, No. 12, pp. 1474 - 1486

TEXT: In the present review the authors report from the field of research of cyclic polymerization. The assumption about the closing of rings during polymerization of compounds with isolated double bonds was first put forth by Simpson (Ref.1). Further confirmation of an "intramolecular cross linking" has been offered in Refs.2-4. In following years Butler and collaborators (Refs.5-13) found that polydiallyl ester of dicarboxylic acids are representatives of a large number of polymers obtained from compounds with two isolated double boris. They show an anomalous solubility in organic solvents but no substantial non-saturation. Most of these polymers are converted by increased temperatures and pressure into transparent synthetic materials without, however, losing their solubility. These observations contradicted the common statement that linear polymers obtained from monomers with a druble bond are of relatively good

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APPROVED FOR RELEASE: 06/12/2000

Polymerization of Non-conjugate Dienes

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solubility, while those obtained by monomers with two or more double bonds show only a negligible solubility or none at all. By ascertaining numerous factors which influence polymerization Butler and Angelo (Ref.11) succeeded in establishing optimal conditions for polymerization. The mechanism suggested by them encompasses the formation of the radical from monomers and an alternate intramolecular and intermolecular transmission of the chain, resulting in a linear saturation of a chain consisting of alternating rings and methylene groups. The scheme proposed by Butler allows the formation of rings with any number of atoms. The formation of five- and six-link rings is, however, preferred. To illustrate the strong tendency of diene-1,6 as compared to monoolefins, toward polymerization, Butler suggested a scheme of intermolecular electron interaction between the non-conjugated double bonds in the molecule of the monomer. The structure of the resulting linear "cyclopolymers" was proved by Butler and his collaborators (Ref.13) for the decomposition products of polydiallyl ammonium bromide and polydiallyl dimethyl ammonium bromide. The polymerization mechanism suggested by Butler has been used by many researchers (Refs. 16-54) to explain polymerization processes of a large number of other monomers. Here all familiar methods of initiation and

Card 2/3

Polymerization of Non-conjugate Dienes

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catalysis giving rise to the formation of rings with five and more atoms in the polymeric chain were used. The terminology created by Butler and his co-workers has also been taken over by other authors and the technical literature now uses such words as "cyclopolymerization", "cyclopolymers", "cyclocopolymers" and even "cyclocatalysts" can now be found. The results of studies on cyclic polymerization point to the intense interest displayed by researchers in this new field of the chemistry of high-polymer compounds. All indications are that it will be possible in this way to create polymer compounds of an unknown structure in which linear and cyclic fragments alternate. Among them there will certainly be substances which will be of highly practical significance. Mentioned are: S. G. Matsoyan, M. G. Avetyan, I. A. Arbuzova, Ye. N. Rostovskiy, and V. N. Yefremova. There are 54 references: 17 Soviet.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Elemental-organic Compounds of the AS USSR)

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BURKSER, E.S. [Burkser, IE.S.]; ALEKSEYEVA, Yo.N. [Alekseieva, K.M.]; VETSHTEYN, V.Yo.; GOL'DENFEL'D, I.V.; DAVYDYUK, L.A. [Davydyuk, L.O.]; DEMIDENKO, S.G. [Demydenko, S.H.]; YELISEYEVA, G.D. [IEliseieva, H.D.]; LECHEKHLEB, V.R. [Lechekhlib, V.R.]; SHCHERBAK, M.P.

Accurate determination of the absolute age of rocks by the lead method. Geol.shur. 21 no.5:48-57 '61. (MIRA 14:10)

1. Institut geologicheskich nauk AN USSR. (Geological time) (Mineralogy)

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DAVYDOVSKIY, Yu.S. (Baku)

Overgrowth of Balanus on water supply stations in the Caspian Sea. Vod. i san. tekh. no.ll:30-32 N '61. (MIRA 15:6 (Caspian Sea-Cirripedia) (Water pipes) (MIRA 15:6)

CIA-RDP86-00513R000309910001-8

89913

s/062/61/000/002/010/012 B115/B207

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AUTHORS: Zakharkin, L. I., Kolesnikov, G. S., <u>Davydova</u>, <u>S. L.</u>, Gavrilenko, V. V., and Kamyshova, A. A.

TITLE: Dialkyl aluminum derivatives of saturated and unsaturated acids

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, no. 2, 1961, 364-365

TEXT: The authors aimed at obtaining dialkyl aluminum methacrylates and acrylates and studying their properties. The compounds of the  $(\text{RCOO})_x \text{AlR}_{3-x}^{!}$  type have not yet been described in publications. First,

the authors tried to obtain salts of dialkyl aluminum and of fatty acids by interaction of the potassium salts of these acids with dialkyl aluminum chlorides, but without success probably due to complex formation of organoaluminum compounds with KCl. Subsequently, the authors applied the interaction of trialkyl aluminum with free saturated and unsaturated acids by the following scheme:

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APPROVED FOR RELEASE: 06/12/2000

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Dialkyl aluminum derivatives of ...

s/062/61/000/002/010/012 B115/3207

RCOOAlR<sup>i</sup> + R<sup>i</sup>H. The reaction proceeded in  $RCOOH + AlR'_3$ hexane or benzene under intensive stirring. The separation of saturated hydrocarbons in quantities close to calculations was observed in the reaction process. By this method, the following substances were obtained from dialkyl aluminum and saturated acids: diisobutyl aluminum acetate, diisobutyl aluminum propionate; from dialkyl aluminum and unsaturated acids: diethyl aluminum methacrylate, diethyl aluminum acrylate, and diisobutyl aluminum methacrylate. The substances obtained are transparent, colorless, easily distillable and viscous oils which fume in the air and inflame sometimes. The table shows their constants. Salts from dialkyl aluminum and unsaturated acids polymerize both thermally and in the presence of initiators such as dinitrile of azoisobutyric acid. They are viscous, transparent polymers which are nearly insoluble in organic solvents, and swell in some polar media such as amyl acetate or dimethyl formamide. Salts from dialkyl aluminum and unsaturated acids copolymerize well with methyl methacrylate and styrene in all ratios (1: 0.5, 1: 1, 1: 2, 1: 4, etc.), and are solid, transparent, vitreous polymers practically insoluble in organic solvents.

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Dialkyl alumin	num derivatives of	S/062/61/000/002/010/012 B115/B207	
the air (if the organoaluminum	decompose in the air, while hey are not kept there for to m compounds were conducted in references: 5 Soviet-bloc a	o long). All reactions with pure nitrogen. There are	
ASSOCIATION:	Institut elementoorganiches nauk SSSR (Institute of Ele the Academy of Sciences USS	emental-organic Compounds of	•
SUBMITTED:	July 4, 1960		
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<u>Card 3/4</u>			
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### CIA-RDP86-00513R000309910001-8



# CIA-RDP86-00513R000309910001-8

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LEYTES, L.A.; YEGOROV, Yu.P.; KOLESNIKOV, G.S.; DAVYDOVA, S.L.

Study of vibrational spectra of methacrylic acid derivatives containing the elements of the IVth group. Izv.AN SSSR.Otd.khim.nauk no.11:1976-1981 N '61. (MIRA 14:11)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR i Institut elementoorganicheskikh soyedineniy AN SSSR. (Methacrylic acid--Spectra)

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1	10:12:00	D234/D308	
•	AUTHOR:	Davydson, V. Ye.	
۰. د	TITLE :	Plane plate in a diverging two-dimensional stream of an incompressible liquid	
	PERIODICAL:	Akademiya nauk Ukrayins'koyi RSR. Instytut mekhaniky. Prikladna mekhanika, v. 8, no. 5, 1962, 541-545	1
•	ated at (0, ted along th the flow pas stream and t	tream is assumed to be produced by a point source situ- f) in the coordinate system $(x, y)$ . The plate is situa- te x axis. The plate is replaced by a vortex layer and to the plate formulated by superposing a disturbing the point source stream. In the boundary condition on the square of f is neglected, and the resulting equation	Ţ
· -	dama 1/3	$\int_{\mathcal{F}_{A}}^{\mathcal{F}_{B}} \frac{\chi(\xi)d\xi}{x-\xi} = \frac{Qf}{x^{2}} $ (2)	- - -
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APPROVED FOR RELEASE: 06/12/2000

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S/198/62/008/005/004/009 D234/D308 Plane plate in a .... origin of coordinates is  $M_0 = \frac{Q^2 \rho f}{2\pi 1} \varphi_1(k)$ (11)where  $\varphi_1(\mathbf{k}) = \sqrt{(\mathbf{k} + 1)}\sqrt{(\mathbf{k}^2 - 1)}$ . The coefficient of the pressure center  $C_d$  is found from these expressions. Graphs of  $\varphi$ ,  $\varphi_1$  and  $C_d$ are given. There are 2 figures. Dnipropetrovs'kyy derzhavnyy universytet (Dniprope-trovsk State University) ASSOCIATION: SUBMITTED: June 3, 1961 ר <u>ה</u> ה . . ۰. Card 3/3

KOLESHIKOV, G.S.; DAVYDOVA, S.L.; YAMPOL'SKAYA, M.A.; KLIMENTOVA, N.V.

Interaction of mono- and dicarboxylic acids with trialkyl derivatives of boron and aluminum. Izv. AN SSSR. Otd.khim.nauk no.5:841-844 My 162. (MIRA 15:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Boron organic compounds) (Aluminum organic compounds) (Acids, Organic)

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158070	S/190/62/004/007/009/009 B119/B180	
AUTHORS:	Kolesnikov, G. S., <u>Davydova, S. L</u> ., Klimentova, N. V.	
TITLE:	Carbochain polymers and copolymers. XL. Polymerization and copolymerization of methacrylic and acrylic derivatives containing germanium	
PERIODICAL:	Vysokomolekulyarnyye soyedineniya, v. 4, no. 7, 1962, 1098-1102	
the authors f 0.93 <u>+</u> 0.08 a were synthesi 4 mm Hg; d <sup>20</sup> (m.p. 180°C); CH <sub>2</sub> =CHC00Ge(	merizing methacrylyl triethyl germanium with styrene at $60^{\circ}$ C ound the relative activities of the two components to be ind $1.05 \pm 0.02$ respectively. The following new compounds zed: $CH_2 = C(CH_3)COOGe(C_4H_9)_3$ (1) (b.p. 130-132°C at $1.0166$ ; $n_D$ 1.4602 at 20°C); $CH_2 = C(CH_3)COOGe(C_6H_5)_3$ (2) $CH_2 = C(CH_3)COOGe \equiv (C_6H_{11})_3$ (3) (m.p. 82-84°C); $(C_2H_5)_3$ (4) (b.p. 88-90°C at 12 mm Hg; $d_{20}^{20}$ 1.1530; $20^{\circ}$ C); $CH_2 = CHCOOGe(C_4H_9)_3$ (5) (b.p. 131°C at 4 mm Hg;	ľ
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"APPROVED FOR RELEASE: 06/12/2000

Carbochain polymers and copolymers...

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 $d_{20}^{20}$  1.0131;  $n_D$  1.4609 at 22°C);  $CH_2 = CHCOOGe(C_{6}H_5)_3$  (6) (m.p. 178-173.5°C). Compounds 1, 3, 4, and 5 were polymerized separately (initiator: azoisobutyric acid dinitrile), and compounds 1, 4, and 5 were copolymerized (20 mole% each in the reaction mixture) with styrene or methyl methacrylate. Polymer yields were 40-60%, and copolymers 52-60%. [%] of the polymers lies between 0.30 and 1.20 (solvent: pyridine, dimethyl formamile), that of the copolymers between 0.35 and 1.45 (solvent: dimethyl formamide). Maximum Ge content in the copolymers is 7.58% (in the case of 5, with methyl methacrylate). 1 polymerizes in emulsion in the presence of potassium persulfate. The thermomechanical properties of some of the polymers were determined. There are 1 figure and 4 tables. The most important English-language reference is: F. R. Mayo, F. M. Lewis, J. Amer. Chem. Soc., 66, 1594, 1944.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Elemental Organic Compounds AS USSR)

SUBMITTED: May 5, 1961

Card 2/2

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000309910001-8"

KOLESNIKOV, G.S.; DAVYDOVA, S.L.; KLIMENTOVA, N.V.

Carbochain polymers and copolymers. Part 40: Polymerization ard copolymorization of methacrylic and acrylic derivatives containing germanium. Vysokom.soed. 4 no.7:1098-1102 Jl '62. (MIRA 15:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Germanium organic compounds) (Acrylic acid) (Methacrylic acid)

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C. 1:5510N NR: AT5002118	5/0000/64/000/000/0113/0117 33
AUTHOR : Kolesnikov, G.S.; Davydova, S.L.	Klimentova, N. V. BH
TITLE. Synthesis of <u>methacrylates</u> and acrylat The periodic table	es containing elements of groups III and IV of
SOURCE $\cdot$ AN SSSR. Institut neitekhimicheskog (The synthesis and properties of monomers).	o sinteza. Sintez i svoystva monomerov Moscow, Izd-vo Nauka, 1964, 113-117
TOPIC TAGS: methacrylate, acrylate, boron r	nelhacrylate, aluminum methacrylate.
silicon methacrylate, tin methaorylate, boron	acrylate, aluminum acrylate, silicon acry-
late, germanium methacrylate, germanium acr	ylate, tin acrylate
ABSTRACT: Methagrylates and acrylates of tr	lalkyl-substituted boron, aluminum, silicon,
germanium, and tin were synthesized and the p	reperties of the derivatives were studied.
Cerivatives of dialkyl aluminum and unsaturate	
ally as well as in the presence of initiators, for difficultly soluble in organic solvents (except d	
merization and copolymerization of dibutylboro	mnethacrylic anyhdride yielded viscous
liquids or waxy, solid polymers and <u>copolymer</u> except dimethylformamide). Methacrylyltrief.	s very difficultly soluble in organic solvents
<b>1/2</b>	

# "APPROVED FOR RELEASE: 06/12/2000

## CIA-RDP86-00513R000309910001-8



ACC NR. AP600098	B4 SOURCE CODE: IP	0286/65/000/022/0059/0059
	44.55	
INVENTOR: Plate,	N. A.; Mal'tsev, V. V.; Kolesnikov, G. S.;	Davydova, 8, 1, 44, 52/9
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ORG: none		"В
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TTCPALATIO	n of organotin and organogermanium polymers	. Clase 39, No. 176408
SOURCE: Byulleten	' izobreteniy i tovarnykh znakov, no. 22, 1	065 50
OPIC TAGS: organ	otin compound, organogermanium compound, po	lymer, catalytic poly-
erization, lithiu	m compound	
BSTRACT: An Auth	or Certificate has been issued for a prepar	tive method for organo-
TH OF ONKOHOKGIMH	or Certificate has been issued for a prepar nium polymers with enhanced heat resistance	
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Synthesis of optically active unsaturated silicon hydrocarbon with an asymmetrical silicon atom. Izv. AN SSSR Ser. khim. no.2:387-389 (MIRA 18:2) 165.

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KHMYROV, A.B., podpolkovnik meditsinskoy slushby; DAVYGORA, N.D., podpolkovnik meditsinskoy slushby

Organization of regimental medical station. Voen.-med. zhur. no. 1:13-19 Ja '60. (MIRA 14:2) (MEDICINE, MILITARY)

DAVYDOVA, S.M., redaktor; KONDRAT'YEVA, M.A., tekhnicheskiy redaktor.

[Equipment of overhead lines for transmission and contact systems] Armatura vozdushnykh linii elektroperedach i kontaktnoi seti. Izd. ofitsial'nos. Moskva, 1957. 187 p. (MIRA 10:11)

1. Russia (1923- U.S.S.R.) Vsesoyusnyy komitet standartov. (Electric lines--Overhead--Standards)

DAVYDOVA, S.H., red.; KONDRAT'YEVA, M.A., tekhn.red.

[Materials used in building installations for railroads and and automobile roads; building and building materials] Materialy primeniaemye pri stroitel'stve iskusstvennykh sooruzhenii na zheleznykh i avtomobil'nykh dorogakh; stroitel'stvo i stroimaterialy. Izd.ofitsial'noe. Noskva, Pt.2. 1957. 289 p. (HIRA 11:1)

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[Storage batteries; batteries and auxiliary materials] Akkumuliatory, elementy i vspomogatel'nye materialy. Izd. ofitsial'noe. Moskva, (MIRA 11:2) 1957. 290 p.

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[Rquipement and attachements for wire communication] Oborudovanie i prisposobleniia provodnoi oviazi. Izd.ofitsial'nos. Moskva, 1957. 379 p. (MIRA 11:2) 379 p.

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[Woodwork for apartment houses and public buildings] Stoliarnye izdeliia dlia zhilykh i grazhdenskikh zdanii; izdanie ofitsial'nos. Noskva, 1959. 110 p. (MIRA 12:9)

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PHASE I BOOK EXPLOITATION SOV/3175

USSR. Goswiarstvennyy komitei standartov

Pod"yemniki (Lifting Machinery) Official ed. Moscow. 1959. 35 p. Errata slip inserted. 10,000 copies printed.

Ed.: S.M. Davydova; Tech. Ed.: A.Ye. Matveyeva.

PURPOSE: This book is intended for technical personnel.

COVERAGE: This is a list of State Standards for elevators. Fields of application, basic parameters and dimensions, drawings, and general requirements are presented for each set of standards. Revisions are published periodically in the Informatsionnyy ukazatel' standartov (Information Index of Standards). No personalities are mentioned. There are no references.

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[Electric appliances] Elektricheskie apparaty. Izd.ofitsial'nos. (NIRA 12:12) Moskva, 1959. 271 p.

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[Electrical engineering materials; insulators] Elektrotekhnicheskie materialy; iscliatory. Izd.ofitsial'noe. Moskva, Gos.izd-vo standartov. Pt.2. 1961. 153 p. (MIRA 16:8)

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