break the chain. The relative amount of impurities and their effect on the polymer properties decrease, and characteristic viscosity and decomposition temperature increase, as the degree of conversion rises. Destruction processes, formation of long-lived radicals and ramifications, occur under irradiation, which reduce characteristic viscosity and thermal stability. The color intensity increased with radiation dose owing to formation of conjugate double bonds. The polymer obtained at -20°C, $2 \cdot 10^5 - 5 \cdot 10^5$ rad had $T_v \simeq 100°C$; in radical polymerization, $T_v$ = 75-80°C. Therefore, high-purity vinyl chloride must be used for radiation polymerization, and irradiation of the polymer should be avoided to preserve its stability. It is recommended that polymers insoluble in the monomer should be continuously withdrawn from the radiation zone. There are 9 figures. The most important English-language reference reads as follows:
A. Charlesby, Atomic radiation of Polymers, N.Y., 1959.

4.

S/191/62/000/005/002/012
B110/B101

AUTHORS: Popova, Z. V., Yanovskiy, D. M., Tatevos'yan, G. O., Shtekker, O. A.

TITLE: The effect of polyvinyl chloride decomposition inhibitors on the decomposition kinetics and light-fastness of polyvinyl chloride plasticate

PERIODICAL: Plasticheskiye massy, no. 5, 1962, 3-6

TEXT: Attempts were made to increase the stability of PVC by adding the following inhibitors which do not bind HCl: (1) phenols, (2) aromatic hydroxy ketones, (3) products of the autocondensation of cyclohexanone, and (4) esters of benzoic and salicylic acid. The following substances were investigated: 2,4-dihydroxy benzophenone (I), 2-hydroxy-4-methoxy benzophenone (II), diphenylol propane (III), 2,2-bis-(3-methyl-4-hydroxy-phenyl)-propane (IV), 1,1-bis-(4-hydroxy phenyl)-cyclohexane (V), 2,2',4,4'-tetrahydroxy adipyl phenone (VI), 2,2',4,4'-tetrahydroxy sebacyl phenone (VII), dodecahydrotriphenylene (VIII), the product from the autocondensation of three molecules cyclohexanone (IX), the product from the autocondens-

Card 1/3

The effect of polyvinyl chloride ...

sation of six-molecules cyclohexanone (X), resorcin dibenzoate (XI), resorcin disalicylate (XII), phenyl salicylate (XIII), and β-naphthoxy propene oxide (XIV). The effect of these substances on the stability of powders and plasticized films was determined: (1) according to the decrease of heat resistance of PVC after ultraviolet irradiation, (2) by comparing the rate of separation of HCl during heating of stabilized and nonstabilized PVC before and after ultraviolet irradiation. A measure of the aging stability was afforded by the length of time elapsing before brittleness appeared in the 180° bending test, as well as by the time of irradiation at which the rupture elongation dropped by 50%. IX, X and XIV delayed dehydrochlorination effectively, VI and VII only slightly: concentrations: IX = 0.064, X = 1.130, XIV = 0.050, VI = 0.082, VII = 0.096 g per 10 g PVC; setting in of decomposition: IX = 150°C, X = 158°C, XIV = 169°C, VI = 154°C, VII = 157°C; separated amount of HCl before irradiation (mg HCl/g PVC): IX = 1.94, X = 1.88, XIV = 1.70, VI = 3.48, VII = 3.57; after irradiation: IX = 4.88, X = 4.87, XIV = 4.75, VI = 5.85, VII = 6.50. For a plasticate containing 12 parts by weight of lead silicate and 0.5 parts by weight of an inhibitor mixture, the best heat resistance and fastness to light was found to occur using cyclo-hexanone stabilizers VIII, IX and X. In this case it was VI, VII and XIV

The effect of polyvinyl chloride ... S/191/62/000/005/002/012
B110/B101

that produced the lowest fastness to light (TPK-2 (PRK-2) lamps). For aging of plasticates under arc lamp light, III, IV, V, VI and VII gave best results, XI, XII and XIII the poorest. There are 4 tables.

Card 3/3

39848

5.3832

S/190/62/004/008/007/016
B101/B180

AUTHORS: Berlin, A. A., Popova, Z. V., Yanovskiy, D. M.

TITLE: Polymers with conjugate bonds in the macromolecular chains. XXIV. Effect of polymers with conjugate bonds on the stability of polyvinyl chloride

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 8, 1962, 1172-1177

TEXT: The authors studied the inhibiting effects of polyphenyl acetylene (I), a copolymer of phenyl acetylene with p-diethinyl benzene (II), and a thermal dehydrochlorination product of polyvinyl chloride (PVC) (III) on the thermal decomposition of PVC. Decomposition temperature, induction period and rate of HCl liberation were measured (methods see Zh. prikl. khimii, 33, 186, 1960). PVC without inhibitor was completely dehydrochlorinated after 60 min. at 300°C in vacuo. It was found, that the inhibiting effect (1) depends on concentration and temperature; (2) diminishes in the order I > III > II; (3) is greater with I than with lead stearate, dibutyl lead maleinate, or ethyl resorcinol. On adding 1%

Card 1/2

Polymers with conjugate bonds ...

of any of these substances the amounts of HCl (mg/g PVC) liberated after 3 hrs at 175°C were around 8.5, 8.5, 6.5, and 5, respectively; (4) I inhibits thermal decomposition of PVC at 185°C, without acceleration at 195°C which does, however, occur with III, due to the active radicals present in III. The effect of such radicals was confirmed: when heated to above 300°C I lost its inhibiting effect and initiated thermal decomposition. (5) I only stabilizes PVC against thermal effects, not against light. There are 2 figures and 4 tables. The English-language reference is: D. E. Winkler, J. Polymer Sci., 35, 3, 1959.

SUBMITTED: May 8, 1961

Card 2/2

POPOVA, Z.V.; YANOVSKIY, D.M.; KOZLOVA, N.V.; KRYMOVA, A.I.

Effect of symmetrical triazine derivatives on the stability of poly(vinyl chloride). Zhur.prikl.khim. 35 no.1:164-170 Ja '62. (MIRA 15:1)

(Triazine) (Ethylene)

POPOVA, Z.V.; YANOVSKIY, D.M.

Effect of some stabilizers on the thermal and mechanical properties of poly (vinyl chloride). Vysokom.soed. 3 no.12:1782-1786 D '61. (MIRA 15:3)

(Ethylene)

S/081/62/000/022/080/088
B101/B186

AUTHORS: Raskin, Ya. L., Sverdlin, M. S., Kronman, A. G., Yanovskiy, D. M.

TITLE: Paint and varnish coatings based on the copolymer obtained by the suspension method from vinyl chloride and vinyl acetate

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 552, abstract 22P464 (Lakokrasochn. materialy i ikh primeneniye, no. 2, 1962, 10 - 12)

TEXT: Data are given for the composition and properties of copolymers (CP) synthetized by the suspension method from vinyl chloride and vinyl acetate, and for coatings made on this basis. In addition, recipes are given for primers and enamels based on this CP both in combination with other resins (epoxy, modified alkyd resin) and without them. Test results prove the high resistance to atmospheric effects, the good physico-mechanical properties, the resistance to water and light and the good appearance of coatings based on CP containing 16 - 17 % of vinyl acetate. [Abstracter's note: Complete translation.]

Card 1/1

S/191/63/000/001/009/017
B101/B186

AUTHORS: Fedoseyev, B. I., Popova, Z. V., Yanovskiy, D. M.

TITLE: Dependence of the color of transparent products from vinyl chloride copolymers on some conditions of copolymerization

PERIODICAL: Plasticheskiye massy, no. 1, 1963, 35-37

TEXT: The discoloration of the vinyl chloride - methyl acrylate copolymer under different conditions of copolymerization and the effect of acetylene impurities and oxygen on the transparency have been studied. Copolymerization was performed at 53°C, the monomer : water weight ratio being 1 : 2, the content of methyl acrylate 20%, and ammonium persulfate (0.4% of the monomer weight) being used as initiator. When all the vinyl chloride and methyl acrylate were filled into the autoclave at the same time an inhomogeneous product (I) resulted because the components had different copolymerization constants. A homogeneous copolymer (II) was formed by adding the methyl acrylate to the vinyl chloride gradually. The amount of HCl liberated at 175°C in an air current during 3 hrs was

measured and the difference $\Delta K$ of the extinction coefficients was determined on films of 0.5 mm thickness in the range of 432-726 mμ. Results: Copolymer II was much more stable than I, only 4.7 mg HCl being separated per 1 g copolymer whereas I yielded 7.4 g HCl. $\Delta K$ was 0.14 for II, and 0.55 for I. Besides this, II showed opalescence, its transparency decreased with increasing rolling time and temperature: $\Delta K$ was 0.652 after 2 hrs rolling at 115°C, and 0.683 after 4 hrs; at 125°C, the values were 0.915 and 0.941. A content of 0.3% acetylene in the vinyl chloride reduced the transparency owing to side reactions caused by the acetylene, such as formation of double bonds. The presence of oxygen in the aqueous phase during copolymerization reduced the transparency by formation of oxygen-containing groups which favored the thermal dehydrochlorination. Therefore copolymerization should be performed after removing the air by evacuation or bubbling with $N_2$. There are 3 tables.

L 13546-63 EPF(n)-2/EWT(m)/BDS/ES(s)-2 AFFTC/ASD/SSD Pc-4/
Pc-4/Pr-4/Pt-4 RM/WW
ACCESSION NR: AP3000690 S/0190/63/005/005/0659/0662

79

AUTHOR: Fedoseyev, B. I.; Popova, Z. V.; Yanovskiy, D. M.

TITLE: Intrinsic stability of vinylchloride polymers and copolymers

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 5, no. 5, 1963, 659-662

TOPIC TAGS: intrinsic stability, vinylchloride polymers, thermal degradation, stabilizers

ABSTRACT: A study was conducted on the effect of compounds with mobile hydrogen at the carbon atom, such as isopropylbenzene, on the thermal stability of polyvinylchloride and the vinyl chloride--methyl methacrylate copolymer. Their stability was estimated by measuring the temperature of decomposition, the induction period leading to the evolution of HCl at 175C, and the yield rate of HCl at 175C during a 3-hour period. The addition of isopropylbenzene or similar compounds at the start of the polymerization reaction yielded products with an increased thermostability, while their incorporation into the finished product did not affect the degradation temperature. It caused only a significant drop in the yield of HCl. It is suggested that these agents perform in monomers by reducing in the resulting polymer the concentration of labile groups, while in polymers as such they seem to exert an inhibiting effect on thermal degradation. Orig. art. has 1 formula, and 3

Card 1/2

S/080/63/036/001/018/026
D204/D307

AUTHORS: Popova, Z.V., Yanovskiy, D.M., Kirpichnikov, P.A., Kapustina, A.S., and Davydova, V.M.

TITLE: Stabilization of polyvinyl chloride (PVC) with esters of alkylphosphinic acid

PERIODICAL: Zhurnal prikladnoy khimii, v. 36, no. 1, 1963, 187 - 191

TEXT: The n-butyl, n-amyl, n-hexyl, n-octyl, iso-propyl, iso-amyl, and phenyl esters of 1,2-epoxy-2-propyl-phosphinic acid were prepared by condensing the corresponding dialkyl phosphorus acids with monochloroacetone, at 100°C, without a catalyst, and removing HCl from the resulting esters of 1-hydroxy-2-chloro-iso-propylphosphinic acid with alcoholic 25 - 35 % KOH. The stabilizing effects of these compounds on the thermal decomposition of PVC were investigated by heating PVC, with and without additions of the phosphinates ( 0-0.5 g per g PVC), to 175, 185, and 195°C. The quantities measured were the induction period until the commencement of HCl evolution (T min), mean integral rate of HCl

Card 1/2

Stabilization of polyvinyl ...

evolution over 3 hours (V mg HCl/g PVC) and the temperature of initial decomposition (t°C). The phosphinates exerted a retarding action, which varied according to the nature of R in $(RO)_2P.O.C(CH_3)=CHO$

When R was a straight chain, the stabilizing effect was most strongly pronounced. The reduction in V was greater for (a) higher alkyl groups, (b) higher temperatures and (c) greater concentrations of the phosphinate in the polymer. Phenyl and iso-alkyl phosphinates were less effective but their effects also increased at higher temperatures. The mechanism of the stabilizing action is indicated. There are 2 tables.

SUBMITTED: December 6, 1961

Card 2/2

POPOVA, Z.V.; BERLIN, A.A.; YANOVSKIY, D.M.

Synergism during polyvinyl chloride stabilization. Zhur. prikl. khim. 36 no.5:1091-1096 My '63. (MIRA 16:8)

(Vinyl compound polymers) (Inhibition (Chemistry))

KARGIN, V.A., akademik; NEYMAN, M.B., prof.; BUCHACHENKO, A.L., kand. khim. nauk; MIKHAYLOV, V.V.; MASLOVA, I.P.; LUKOVNIKOV, A.F., kand. khim. nauk; MATVEYEVA, Ye.N.; BERLIN, A.A., prof.; YANOVSKIY, D.M., kand. khim. nauk; POPOVA, Z.V., kand. khim. nauk; LEVANTOVSKAYA, I.I.; KOVARSKAYA, B.M., kand. khim. nauk; ANDRIANOV, K.A., prof.; KUZ'MINSKIY, A.S., prof.; SLONIMSKIY, G.L., prof.; MAKUNI, Ye.B., tekhn. red.

[Aging and stabilization of polymers] Starenie i stabilizatsiia polimerov. Moskva, Izd-vo "Nauka," 1964. 330 p. (MIRA 17:3)

1. Akademiya nauk SSSR. Institut khimicheskoy fiziki.
2. Chlen-korrespondent AN SSSR (for Andrianov).

MINSKER, R.I.; FROLOVA, L.S.; YANOVSKIY, D.M.

Suspension method for the polymerization of vinyl chloride with the use of magnesium hydroxide as emulsion stabilizer. Plast. massy no.6:3-6 '64. (MIRA 18:4)

BERLIN, A.A.; GANINA, V.I.; KARGIN, V.A.; KRONMAN, A.G.; YANOVSKIY, D.M.

Formation of salt groups in the interaction of polyvinyl chloride with nitrile and methylvinylpyridine rubbers. Vysokom.soed. 6 no.9:1684-1687 S '64. (MIRA 17:10)

ACCESSION NR: AP4045436 S/0190/64/006/009/1688/1692

AUTHOR: Berlin, A.A., Kronman, A.G., Yanovskiy, D.M., Kargin, V.A.

TITLE: Mechanism of the processes occurring in the coplasticization of poly[vinylchloride], nitrogenous rubber, methylvinylpyridine, isoprene, graft polymer, polymer impact strength, hydroquinone

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 9, 1964, 1688-1692

TOPIC TAGS: coplasticization, copolymer, poly[vinylchloride], nitrogenous rubber, methylvinylpyridine, isoprene, graft polymer, polymer impact strength, hydroquinone

ABSTRACT: The properties of grafted copolymers synthesized by the joint plasticization of poly[vinylchloride] (PVC) with nitrile (SKN) and methylvinylpyridine (MVP) rubbers were investigated in order to clarify the molecular and radical mechanisms occurring during the formation of these copolymers. Films 0.4-0.6 mm thick obtained from a 0.5% solution of polymer in cyclohexanone at a PVC: rubber ratio of 9:1 were tested for strength and viscosity. It was found that the maximum tensile strength for films of grafted copolymers is much lower than for films obtained from the corresponding mechanical mixtures. This is due to the loosening of the polymer structure resulting from the grafting process, which leads to the formation of systems characterized by lower density

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ACCESSION NR: AP4045436

and air-filled micropores. Viscosimetric investigations showed that the intrinsic viscosity of mechanical mixtures of PVC with MVP-15, SKN-18, SKN-26 and SKN-40 is intermediate between the viscosities of the initial polymers, but that the viscosity of the corresponding coplasticization product is lower than the viscosity of either initial polymer. However, the viscosity of the coplasticization product of PVC with isoprene rubber (SKI) and that of their mechanical mixture are almost identical and are intermediate between the viscosities of the initial polymers. This is due to the absence of functional groups in isoprene rubber able to react with PVC, which results in a mechanical mixture during their coplasticization. The specific viscosity-concentration curves for a PVC composition containing 10% MVP-15, plasticized for 2.5, 5, 10 and 20 min., show that the viscosity decreases with decreasing reaction time while the Huggens constant increases. During the plasticization of PVC with 10% isoprene rubber, the viscosity remains unchanged with time, but the concentration-viscosity curves for 2.5, 5 and 20 min. almost agree. This confirms the theoretical difference in the processes of plasticization of PVC with rubbers with or without functional groups which can react with it. The effect of the addition of hydroquinone to the mixture on the properties

Card 2/3

ACCESSION NR: AP4045436

of the coplasticization product of PVC with rubbers was also studied. Plasticization with 1% hydroquinone, used as an acceptor of free radicals, showed that hydroquinone does not affect the impact strength of the samples and decreases the reduced viscosity of the plasticization products only slightly. Thermal dynamic curves show that hydroquinone by hindering the recombination of radicals and cross-linking, improves the flow properties of the composition slightly. The decrease in temperature promotes the destruction of the macromolecules during mechanical processing. On the basis of the experimental data, it was established that the role of radical processes in the formation of grafted polymers is small. Orig. art. has: 4 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 16Nov63 ENCL: 00 SUB CODE: OC, MT

NO REF SOV: 006 OTHER: 001

Card 3/3

KRONMAN, A.G.; FEDOSEYEV, B.I.; YANOVSKIY, D.M.

Effect of formula and engineering factors in the production of vinyl chloride and vinyl acetate copolymer on th sound quality of phonorecords. Plast. massy no.12:58-61 '64.

(MIRA 18:3)

RAZUVAYEV, G.A.; TERMAN, L.M.; YANOVSKIY, D.M.

Radical reactions of peroxycarbonates. Part 4: Thermal decomposition of diphenylperoxydicarbonate in inert solvents. Zhur.org.khim. i no.2:274-280 F '65. (MIRA 18:4)

KRONMAN, A.G.; FEDOSEYEV, B.I.; YANOVSKIY, D.M.

Use of mixtures of protective colloids for regulating the granulometric composition of vinyl chloride copolymers. (MIRA 18:6)
Plast. massy no.5:68-70 '65.

L 11026-66 EWT(m)/T/EWP(j)/ETC(m) WW/RM

ACC NR: AP5025663 SOURCE CODE: UR/0080/65/038/010/2383/2386

44,55 44,55 44,55 44,55

AUTHOR: Burmistrova, R. S.; Gushchina, N. A.; Florentseva, L. I.; Yanovskiy, D. M.

ORG: none

TITLE: Effect of certain derivatives of benzophenone on thermal and photodecomposition of polyvinyl chloride

15,44,55

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 10, 1965, 2383-2386

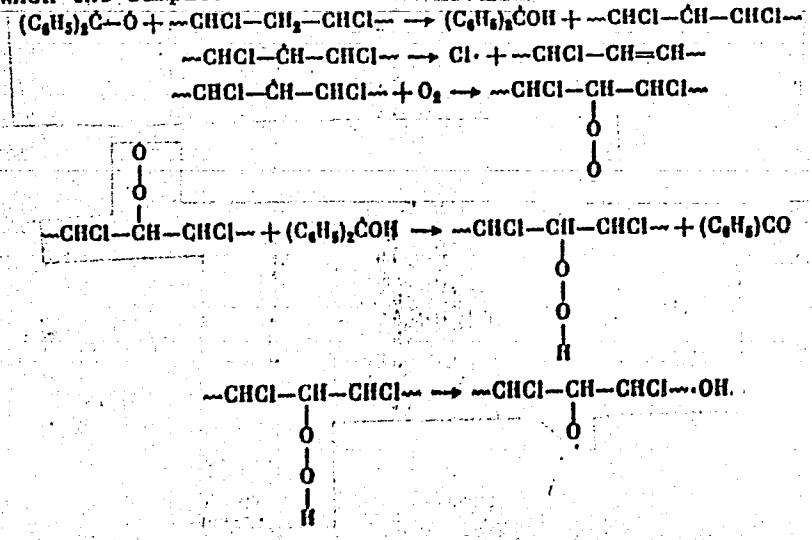
TOPIC TAGS: polyvinyl chloride, thermal decomposition, photochemical reaction, free radical, benzene, phenol, UV spectrum, UV irradiation, alkyl radical

ABSTRACT: The article gives directions for the synthesis and properties of the following derivatives of benzophenone: 2,2',4-trihydroxybenzophenone, 2,2'-dihydroxy-4--methoxybenzophenone, 2,2'-dihydroxy-4-octoxybenzophenone, 2,4,4'-trihydroxybenzophenone, 2-hydroxy-4,4'-dimethoxybenzophenone, 2-hydroxy-4,4'-dipropoxybenzophenone, 2-hydroxy-4,4'-dibutoxybenzophenone and 2-hydroxy-4,4'-dioctoxybenzophenone. Ultraviolet spectra of solutions containing 0.008 g/l of the investigated substances in isopropyl alcohol were measured by means of an SF-4 spectrophotometer. It was found that 2,2'4- and 2,4,4'-trihydroxybenzophenones have a slight retarding effect on the thermal decomposition of polyvinyl chloride and no stabilizing effect on the photodecomposition of polyvinyl chloride. The replacement of hydrogen of the hydroxyl

UDC: 678.743

Card 1/3

group in these compounds in paraposition to carbonyl by an alkyl radical increases the photostabilizing effect of the benzophenone derivatives. When polyvinyl chloride containing benzophenone is irradiated with ultraviolet radiation, splitting of the hydrogen from the polymer through the resulting benzophenone biradicals. The processes which take place when the samples are irradiated in air are represented by the following reactions:



L 11026-66

ACC NR: AP5025663

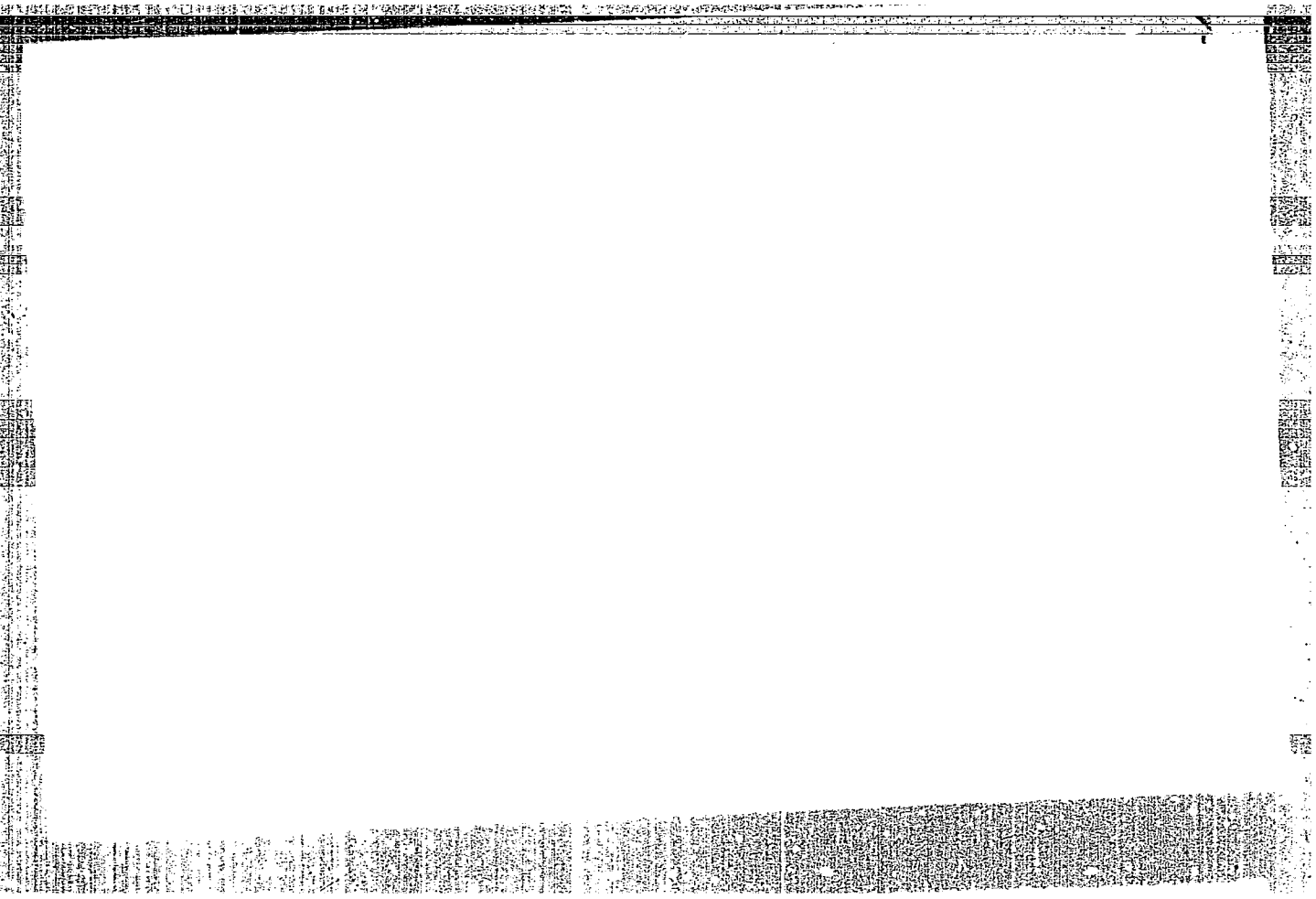
3

The alkoxy radical can either decompose or convert into carbonyl containing compounds by losing hydrogen. The produced carbonyl compounds easily lose HCl or decompose under the action of light produced free radicals which are capable of initiating the process of dehydrochlorination of polyvinyl chloride. The authors express their gratitude to E. G. Pomerantseva for the ultraviolet absorption spectra of benzophenones. Orig. art. has: 2 tables, 1 figure.

SUB CODE: 07/ SUBM DATE: 17Sep63/ ORIG REF: 002/ OTH REF: 006

HW

Card 3/3



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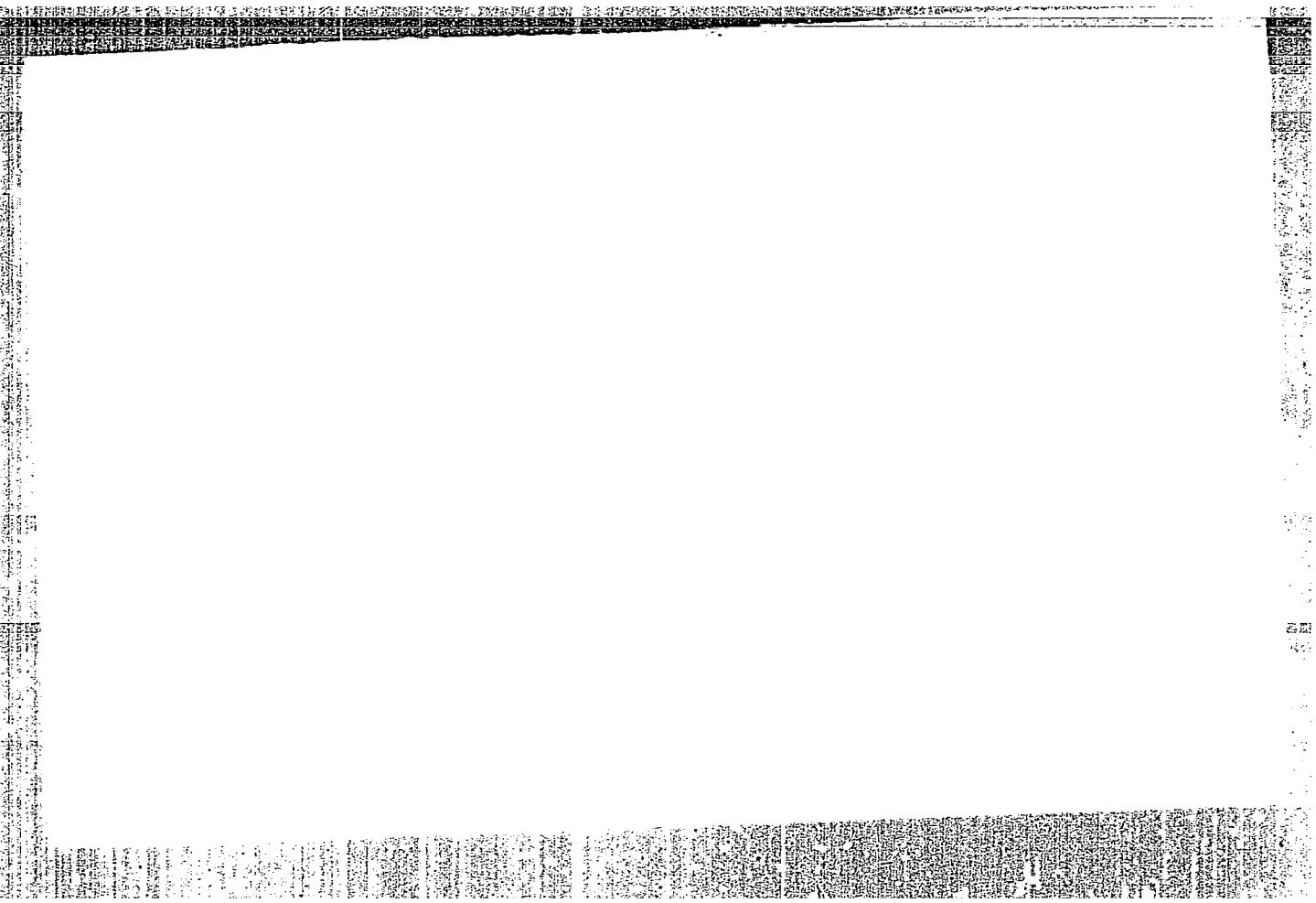

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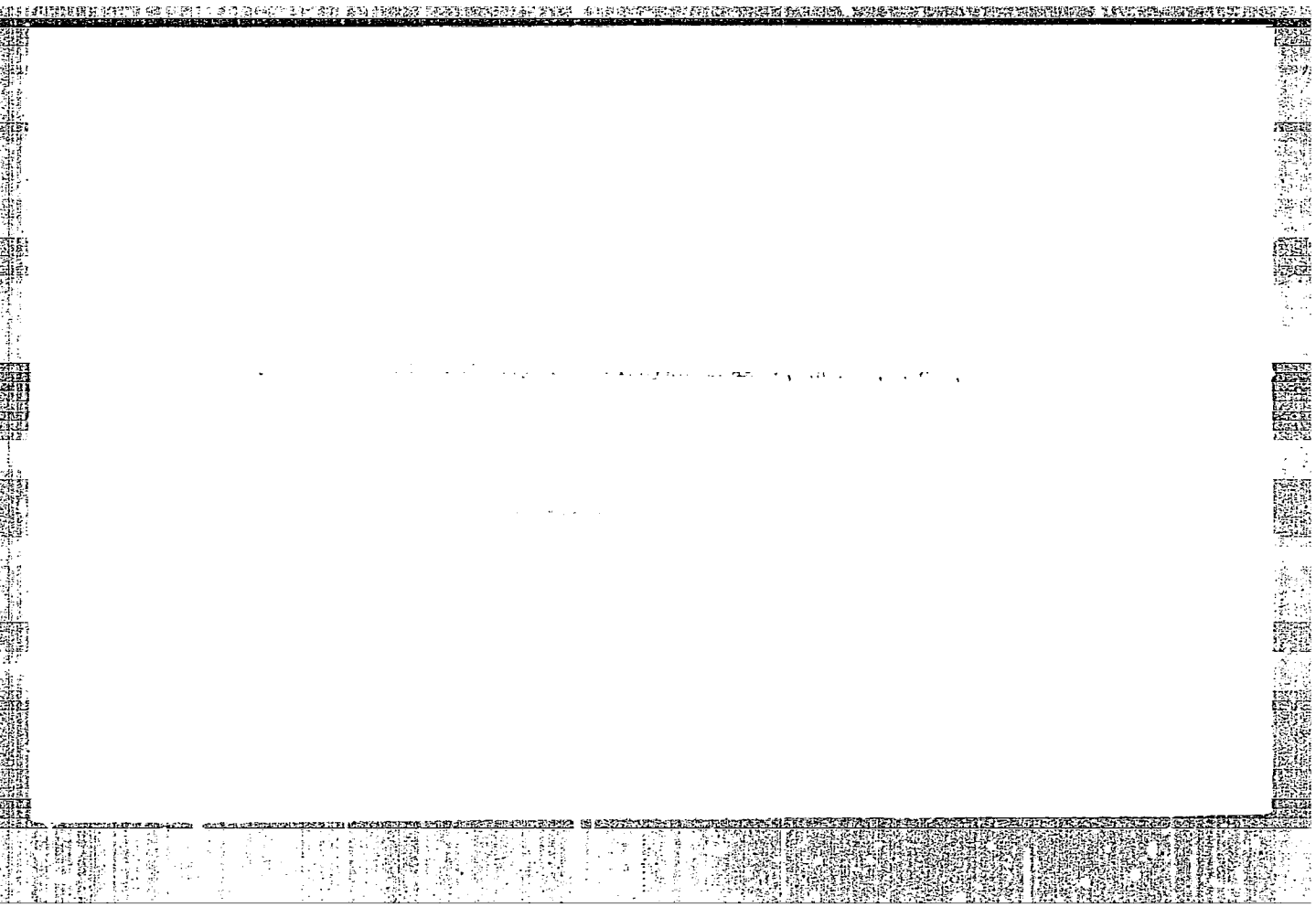


APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962110019-1"

RAZUVAYEV, G.A.; TERMAN, L.M.; YANOVSKIY, D.M.

Nature of radicals in the initiation of polymerization by organic peroxydicarbonates. Dokl. AN SSSR 161 no.3:614-616 Mr '65. (MIRA 18:4)

1. Chlen-korrespondent AN SSSR (for Razuvayev).

RAZUVAYEV, G.A.; TERNAY, L.M.; YANOVSKAYA, D.M.; MIKHAYLOVA, L.N.

Radical reactions of organic peroxydicarbonates. Part 3: Interaction of dicyclohexylperoxydicarbonate with dimethylaniline. Zhur. org. khim. 1 no.1:79-82 Ja '65. (MIRA 18:5)

L 32756-66 EWT(m)/EWP(j)/T IJP(c) RM/WW

ACC NR: AP6012714 (A) SOURCE CODE: UR/0190/66/008/004/0699/0702

AUTHOR: Afonskiy, V. K.; Berlin, A. A.; Yanovskiy, D. M.

ORG: Institute of Organochlorine Products and Acrylates (Institut khloroganicheskikh produktov i akrilatov)

TITLE: Effect of anthracene compounds obtained by thermolysis on thermal and photo-oxidative degradation of polyvinyl chloride

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 4, 1966, 699-702

TOPIC TAGS: polyvinyl chloride, polymer, paramagnetic material, pyrolysis, high temperature effect, anthracene

ABSTRACT: A study was made of the effect of the products of anthracene compounds obtained by pyrolysis on thermal and photo-oxidative degradation of polyvinyl chloride. The addition of anthracene treated at 450C has a stabilizing role in polyvinyl chloride degradation. The dependence of the amount of hydrogen chloride liberated during polymer degradation on the additive concentration and on the quantity of paramagnetic particles is of extremal nature. The stabilization effect is decreased with the temperature. The relation between the inhibiting behavior of the anthracene pyrolysis products and the energy of singlet-triplet transition was established. Orig. art. has: 2 figures and 1 table. [Based on authors' abstract.] [NT]

SUB CODE: 11, 07/ SUBM DATE: 28Apr65/ ORIG REF: 010/ OTH REF: 001/

UDC: 678.01:54+678.743

Card 1/1

L 10396-67 EWT(m)/EWP(j) IJP(c) RM

ACC NR: AP7003119 SOURCE CODE: UR/0080/66/039/007/1572/1576

46

BOGATYREVA, T. K., KAPUSTINA, A. S., KIRPICHNIKOV, P. A., TIKHOVA, Y. V., and YANOVSKIY, D. M.

ORG: none

"Stabilization of Polyvinylchloride by Esters of 1,2-Epoxy-1-phenylethylphosphinic and 1,2-Epoxypropylphosphinic Acids. Report 2"

Moscow, Zhurnal Prikladnoy Khimii, Vol 39, No 7, Jul 66, pp 1572-1576

Abstract: The esters of 1,2-epoxy-2-propylphosphinic acid are known to inhibit the thermal decomposition of polyvinylchloride (PVC). The effect of esters of phosphinic acid with the following general formula on the thermal decomposition of PVC was studied to further investigate the stabilizing action of organophosphorus compounds:

$$(RO)_2\text{-}P(=O)\text{-}CH_2\text{-}CH_3 \quad \text{and} \quad (RO)_2\text{-}P(=O)\text{-}C(R')\text{-}CH_2\text{-}O$$

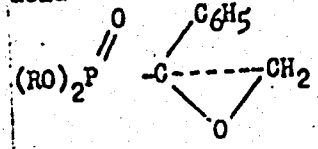
where R = alkyl group, R' = $CH_3$ or $C_6H_5$.

Card 1/2

L 10396-67

ACC NR: AP7003119

The previously undescribed esters of 1,2-epoxy-1-phenylethylphosphinic acid with the general formula



where R = $CH_3$, $C_2H_5$, iso-$C_3H_7$, iso-$C_4H_9$, or iso-$C_5H_{11}$, were obtained by the dehydrochlorination of the esters of alpha-hydroxy-alpha-phenyl-beta-chloroethylphosphinic acid.

The stabilizing effect of the esters studied during the thermal decomposition of PVC depends on their structure and on the experimental conditions.

The nature of the esters of 1,2-epoxy-1-phenylphosphinic and 1,2-epoxy-2-propylphosphinic acids in the stabilizing action on the thermal decomposition of PVC was established.

It was shown that the action of the esters is determined by the strength of the carbon-phosphorus bond, and the effect on the stability of the ester molecule depends on the nature of the radical connected to the carbon epoxy ring.

Orig. art. has: 1 figure and 2 tables. [JPRS: 38,970]

TOPIC TAGS: polyvinyl chloride, ester, phosphinic acid, thermal decomposition

SUB CODE: 07 / SUBM DATE: 09Jun64 / ORIG REF: 003 / OTH REF: 001

Card 2/2 blp

BURMISTROVA, R.S.; GUSHCHINA, N.A.; FLORENTSEVA, L.I.; YANOVSKIY, D.M.

Effect of some benzophenones on the decomposition of polyvinyl chloride by heat and light. Zhur. prikl. khim. 38 no. 10: 2383-2386 O '65. (MIRA 18:12)

1. Submitted Sept. 17, 1963.

L 1157-66 EWT(m)/EPF(c)/EWP(j)/T RM

ACCESSION NR: AP5022008 UR/0286/65/000/014/0078/0078
678.74 : 66.097

AUTHOR: Razuvayev, G. A.; Shevlyakov, A. S.; Yanovskiy, D. M.; Kofman, L. P.; Stupen', L. V.; Pavlov, S. M.

TITLE: A method for polymerizing vinyl compounds. Class 39, No. 172994

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 78

TOPIC TAGS: emulsion polymerization, vinyl plastic, polymerization initiator, polymer

ABSTRACT: This Author's Certificate introduces a method for polymerizing vinyl compounds. Polymerization time is reduced and polymer yield is increased by using alkyl or aryl esters of percarbonic acid as the initiator for block or emulsion polymerization.

ASSOCIATION: none

SUBMITTED: 12Jan57 ENCL: 00 SUB CODE: OC, MT

NO REF SOV: 000 OTHER: 000

Card 1/1

IVANOV, V.N., akademik, prof., otv. red.; BURCHINSKIY, G.I., prof., zam. red.; LIKHTENSHTEYN, Ye.I., doktor med. nauk, red.; MIKHNEV, A.L., zasl. deyatel' nauki, prof., red.; PELESHCHUK, A.P., dots., red.; REVUTSKIY, Ye.L., starshiy nauchnyy sotr., red.; SKOPICHENKO, N.F., dots., red.; CHEBOTAREV, D.F., prof., red.; YANOVSKIY, D.N., prof., red.; GITSHTEYN, A.D., tekhn. red.

[Transactions of the 7th Congress of Therapeutists of the Ukrainian S.S.R.]Trudy VII s"ezda terapevtov Ukrainskoi SSR. Kiev, Gosmedizdat USSR, 1962. 610 p. (MIRA 15:10)

1. S"yezd terapevtov Ukrainskoy SSR. 7th, 1957. 2. Akademiya nauk Ukrainskoy SSR i deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR, predsedatel' Pravleniya Respublikanskogo nauchnogo obshchestva terapevtov Ukrainskoy SSR (for Ivanov). 3. Glavnyy terapevt Ministerstva zdravookhraneniya Ukrainskoy SSR (for Chebotarev). 4. Otvetstvennyy sekretar' Pravleniya Respublikanskogo nauchnogo obshchestva terapevtov Ukrainskoy SSR (for Revutskiy). 5. Zamestiteli predsedatelya Pravleniya Respublikanskogo nauchnogo obshchestva terapevtov Ukrainskoy SSR (for Mikhnev, Chebotarev).

(THERAPEUTICS--CONGRESSES)

Atlas of clinical hematology Kiev, Gosmedizdat USSR, 1940. 183 p.

DAFM

Yanovskiy, D. N.

Medicine

Manual of clinical hematology; Kiev, Gos. med. izd-vo UKR. SSSR, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 2 1953. Unclassified.

1. D. N. IANOVSKI

2. USSR (600)

4. Blood

7. "Handbook on clinical hematology". Reviewed by Prof. Ye. M. Tareyev. Sov. med. 16 no. 12. 1952.

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

STRAZHESKO, N.D.; YANOVSKIY, D.N.; VINOGRADSKAYA, M.A.

[Punctates of lumph nodes; an atlas] Punktaty limfaticheskikh uslov; atlas. Kiev, Gos.med.izd-vo USSR, 1953. 33 p.

(MLRA 10:5)

(LYMPHATICS)

YANOVSKIY, D.N., professor (Kiyev).

Further discussion on Kh.Kh.Vlados' and N.A.Kraevskii's article "Classification of leucoses." Terap.arkh.25 no.4:90-93 Jl-Ag '53. (MLRA 7:2)

(Leukemia) (Vlados, Kh.Kh.) (Kraevskii, N.A.)

YANOVSKIY, D.N.

STRAZHESKO, Nikolay Dmitriyevich; AYZENBERG, A.A., professor, redaktor; YEVTUKHOVA, M.L., dotsent, redaktor; KAVETSKIY, P.Ye., professor, redaktor; LIOZINA, Ye.M., dotsent, redaktor; MIKHNEV, A.L., professor, otvetstvennyy redaktor; PRIMAK, F.Ya., professor, redaktor; SAYKOVA, V.V., dotsent, redaktor; CHEBOTAREV, D.F., professor, redaktor; YANOVSKIY, D.N., professor, redaktor; SNEZHIN, M.I., redaktor izdatel'stva; RAKHLINA, N.P., tekhnicheskiy redaktor.

[Selected works] Izbrannye trudy. Kiev, Izd-vo Akademii nauk USSR. Vol.1. [Problems in the pathophysiology of the circulation of the blood] Problemy patofiziologii krovoobrashcheniia. 1955. 398 p. Vol.2. [Problems of sepsis, endocarditis, rheumatism, physiology and pathology of the organs of digestion] Problema sepsisa, endokardita, revmatizma, fiziologiia i patologiia organov pishchevareniia. 1956. 365 p. (MLRA 9:7)

1. Deystvitel'nyy chlen AN USSR (for Kavetskiy)
(PHYSIOLOGY, PATHOLOGICAL)

YANOVSKII, D. N.

U.S.S.R. / Human and Animal Physiology. Blood. T

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22066.

Author : Yanovskii, D. N.
Inst : Not given.
Title : Leucopoiesis Stimulation.

Orig Pub: Vratcheb. delo, 1956, N 9, 897-904.

Abstract: Leucopenia, (L) as a clinical hematological syndrome, appears as a manifestation of a hyperemic reaction, when the shock organ involved (the organ where the antigen-antibody reaction place) is the bone marrow. For instance, in fulminating cases of alimentary-toxic aleukia, there is associated aplasis of the bone marrow. The application of existing stimulants in this form of (Type of) aleukia is unjustified, as the object of their own action is absent; in

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"Kartina Krovi i Yego Klinicheskoye Znacheniye (Blood Picture and its Clinical Significance), by Prof D. N. Yanovskiy, head, Division of Clinical Hematology, Institute of Clinical Medicine imeni Academician N. D. Strazhesko, Ministry of Health Ukrainian SSR, Gosudarstvennoye Meditsinskoye Izdatel'stvo UkSSR, Kiev, 1957, 544 pp

The book is arranged in four parts.

Part 1 is entitled "Morphology of Blood and Hemopoietic Organs."

It includes articles on morphological composition of blood and bone marrow, leukoblasts (myeloblasts), lymph nodes, quantitative leukocyte composition, relationship of blood picture to circulation, regulation of hemopoiesis, and general premises for the evaluation of blood picture.

Part 2 is entitled "Leukocyte Blood Picture."

It includes articles on the picture of blood leukocyte composition during certain surgical diseases; purulent processes in lungs; leukocyte composition of blood during appendicitis and during cholecystitis due to stones; general purulent infection; certain allergic diseases accompanying eosinophilias leukocyte composition of blood during certain endocrine diseases; infectious diseases accompanying lymphocyte, monocyte, mononuclear, and plasmocellular reactions; so-called "leukemoid reactions"; etc.

Part 3 is entitled Changes of Erythrocyte Composition of Blood.

It includes articles on the physiological significance of the erythrocyte system, changes of erythrocyte composition of blood, anemia during sepsis, agastric pernicious anemia, hemolytic anemia, etc.

Part 4 is entitled Changes of Blood Thrombocyte Composition.

It includes articles on thrombopenic purpura (essential thrombopenia), and so-called "symptomatic thrombopenias".

A 24-page bibliography, 75% of which refers to Russian sources is given. (U)

Sum 'N 1462

YANOVSKIY, D.N.

YANOVSKIY, D.N., prof.; NADGORNAYA, N.I., nauchnyy sotrudnik; VINOGRADSKAYA-YEZERSKAYA, M.A.; GAMDZIY, G.P.

Electron microscopy in hematology. Vrach.delo no.11:1185-1187 N '57. (MIRA 11:2)

1. Otdel klinicheskoy gematologii (zav. - prof. D.N.Yanovskiy) Ukrainskogo instituta klinicheskoy meditsiny im. akad. N.D.Strazhesko i laboratoriya etiologii opukholey (zav. - deystv. chlen AMN SSSR, prof. A.D.Timofeyevskiy) Ukrainskogo instituta epidemiologii i mikrobiologii Ministerstva zdravookhraneniya USSR.
(ELECTRON MICROSCOPY) (BLOOD)

Yanovskiy, D. N.

YANOVSKIY, D.N., prof. (Kiyev)

Achievemnts of clinical hematology in U.S.S.R. during the last 40 years; on the 40th anniversary of the October Revolution. Klin. med. 35 no.7:6-13 Jl '57. (MIRA 10:11)
(HEMATOLOGY, in Russia, review (Rus))

YANOVSKIY, D.N., prof.

Hemorrhages in some hematological syndromes. Mat. po obm.nauch. inform. no.2:245-251 '58. (MIRA 13:6)
(HEMORRHAGE) (BLOOD--DISEASES)

YANOVSKIY, D.N., prof.; NADGORNAYA, N.I.; GANDZIY, G.P.; VINOGRADSKAYA-YEZERSKAYA, M.A.

Morphology of thrombocytes in leukemia patients as shwn by data of the electron microscope. Vrach.delo no.12:1275-1279 D '59.
(MIRA 13:5)

1. Laboratoriya etiologii opukholey (zav. - deystvitel'nyy chlen AMN SSSR, prof. A.D. Timofeyevskiy) Ukrainskogo nauchno-issledovatel'skogo instituta epidemiologii i mikrobiologii i otdel klinicheskoy gematologii (zav. - prof. D.N. Yanovskiy) Instituta klinicheskoy meditsiny im. akademika N.G. Strazhesko.
(BLOOD PLATELETS)

YANOVSKIY, D.N., prof. (Kiyev)

Combination of pregnancy with leukosis and Werlhof's disease.
Klin.med. 36 no.7:46-56 Jl '58 (MIRA 11:11)

1. Iz Ukrainskogo instituta klinicheskoy meditsiny imeni akad. N.D. Strazhesko (dir. - prof. A.L. Mikhnev).
(PREGNACY, in various dis.
leukemia & Werlhof's dis. (Rus))
(LEUKEMIA, in pregn.
with Werlhof's dis. (Rus))
(PURPURA, THROMBOPENIC, in pregn.
Werlhof's dis. with leukemia (Rus))

YANOVSKIY, D.N., prof. (Kiyev)

Some remarks on "transitional" forms of leucosis. Vrach.delo no.10: 9-18 O '60. (MIRA 13:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut klinicheskoy meditsiny imeni akademika N.D.Strazhesko.
(LEUKEMIA)

YANOVSKIY, D.N., prof. (Kiyev)

Some comments on the article by M. Tushinskaia and IU. Urinson on "Influence of the spleen on hematopoiesis." Probl.gemat. i perel.krovi no.8:30-33 '61. (MIRA 14:9)
(SPLEEN) (HEMOPOIETIC SYSTEM)
(TUSHINSKAIA, M.) (URINSON, IU.)

ALEKSEYEV, G.A., prof.; BAGDASAROV, A.A., prof.[deceased]; BEYYER, V.A., prof.; VOGRALIK, V.G., prof.; DEMIDOVA, A.V., kand. med. nauk; DUL'TSIN, M.S., prof.; ZAKRZHEVSKIY, Ye.B., prof.; KONCHALOVSKAYA, N.M., prof.; KASSIRSKIY, I.A., prof.; KOST, Ye.A., prof.; LOGINOV, A.S., kand. med. nauk; NESTEROV, V.S., prof.; SHERSHEVSKIY, G.M., prof.; YANOVSKIY, D.N., prof.; MYASNIKOV, A.L., prof., otv. red.; TAREYEV, Ye.M., prof., am. otv. red.; SHAPIRO, Ya.Ye., red.; LYUDKOVSKAYA, N.I., tekhn. red.

[Multivolume manual on internal diseases]Mnogotomnoe rukovodstvo po vnutrennim bolezniam. Otv.red. A.L.Miasnikov. Moskva, Medgiz. Vol.6. [Diseases of the blood system and hemopoietic organs]Bolezni sistemy krovi i krovotvornykh organov. 1962. 700 p. (MIRA 15:12)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Bagdasarov, Myasnikov, Tareyev). 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Kassirskiy).
(BLOOD--DISEASES)
(HEMOPOIETIC SYSTEM--DISEASES)

ISHCHENKO, I.N., zasl. deyatel' nauki prof., red.; FEDOROVSKIY, A.A., zasl. deyatel' nauki prof., red.; PETROV, D.G., dots., red.; FEDOROV, I.I., prof., red.; YANOVSKIY, D.N., prof., red.; CHUCHUPAK, V.D., tekhn. red.

[Transactions of the Sixth Enlarged Plenum of the Board of the Scientific Society of Surgeons of the Ukrainian S.S.R. and the 11th Republic Conference on Blood Transfusion] Trudy Rasshirennogo plenuma pravleniia Nauchnogo obshchestva kirurgov USSR i XI Respublikanskoi konferentsii po perelivaniiu krovi. Kiev, Gosmedizdat USSR, 1963. 392 p. (MIRA 16:10)

1. Rasshirennyy plenum pravleniya Nauchnogo obshchestva khirurgov USSR i XI Respublikanskoy konferentsii po perelivaniyu krovi. 6th, Lvov, 1959. 2. Chlen-korrespondent AN Ukr.SSR (for Ishchenko).
(HEMATOLOGY--CONGRESSES) (BLOOD--TRANSFUSION)

STRAZHESKO, Nikolay Dmitriyevich[deceased]; YANOVSKIY, David Naumovich; KARPOVA, G.D., red.; GORDVITS, V.A., tekhn. red.

[Atlas of clinical hematology] Atlas klinicheskoi gematologii. Moskva, Medgiz, 1963. 97 p. 40 plates. (MIRA 16:7)
(HEMATOLOGY--ATLASES)

L 13288-66 EWT(d)/EWT(m)/EWP(v)/EWP(j)/T/EWP(k)/EWP(h)/EWP(l) RM

ACC NR: AP6000321 (A) SOURCE CODE: UR/0286/65/000/021/0010/0010

INVENTOP: Belotelov, N. A.; Varkhorubov, B. A.; Kal'noy, V. G.; Kryuchkov, A. D.; Litvin, A. P.; Mel'nichenko, V. Z.; Morozov, G. N.; Olerinskiy, B. I.; Klebanova, I. S.; Solnyshkin, L. M.; Fridman, A. N.; Shilov, L. A.; Shchutskiy, S. V.; Yanovskiy, E. A.

ORG: none

TITLE: A device for automatic control of an installation for polymerizing gaseous olefins. Class 12, No. 175923 [announced by the Leningrad Affiliate of the All Union Scientific Research and Design Institute for Chemical Machine Building (Leningradskiy filial Vsesoyuznogo nauchno-issledovatel'skogo i konstruktorskogo instituta khimicheskogo mashinostroyeniya)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 10

TOPIC TAGS: polymerization, olefin, chemical engineering, automatic control equipment

ABSTRACT: This Author's Certificate introduces a device for automatic control of an

UDC: 66.05-5 : 66.095.26 : 678.742.2

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L 13288-66

ACC NR: AP6000321

installation for polymerizing gaseous olefins, e.g. in production of low pressure polyethylene. The unit consists of two temperature controllers connected to a flow regulator for the product reactor, and a pressure regulator connected to the controller for the coolant. For increased productivity and optimization of the process, one temperature controller is connected through a speed reducer to the pressure controller which is connected through a second speed reducer to the flow regulator for the product reactor. The other temperature controller is connected to the flow regulator for the coolant.

Card 2/3

L 13288-66

ACC NR: AP6000321

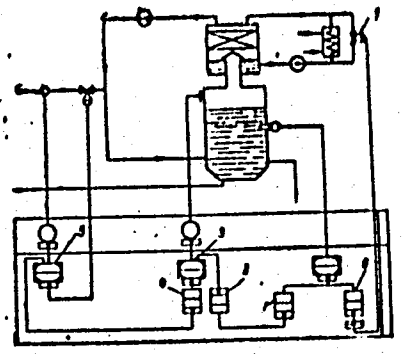

Fig. 1. 1 - first temperature controller; 2 - first speed reducer; 3 - pressure regulator; 4 - second speed reducer; 5 - flow regulator for the product; 6 - second temperature controller; 7 - flow regulator for the coolant.

SUB CODE: 07/ SUBM DATE: 01Feb65/

Card 3/3

SERGEYEV, M.P., doktor tekhn. nauk; KAZANTSEV, G.M., inzh.; YANOVSKIY, E.V., inzh.; YAGODOV, O.P., inzh.; YARKIN, A.A., inzh.

Investigating the operating tension of the carrying system of the S-1000GP tractor with the D-493 bulldozer. Stroi. i dor. mash. 10 no.9:18-20 S '65. (MIRA 18:10)

ACC NR: AR6033796 SOURCE CODE: UR/0058/66/000/007/H011/H011

AUTHOR: Yanovskiy, G. G.

TITLE: Appearance of latent characteristics described by the sum of exponential functions

SOURCE: Ref. zh. Fizika, Abs. 7Zh80

REF SOURCE: Tr. Nauchno-tekhn. konferentsii Leningr. elektrotekhn. in-ta svyazi, vyp. 2, 1965, 83-92

TOPIC TAGS: mathematical analysis, applied mathematics, biorthogonal function apparatus, exponential functions

ABSTRACT: The problem of determining unknown characteristics composing the sums of exponential functions is investigated. An apparatus of biorthogonal functions is proposed for its solution. An example illustrating the proposed method is given. [Translation of abstract] [GC]

SUB CODE: 12/

Card 1/1

ACC NR: AT6022367 SOURCE CODE: UR/0000/66/000/000/0046/0051

AUTHOR: Khanovich, I. G.; Yanovskiy, G. G.

ORG: none

TITLE: Possible techniques for improving the linear prediction of stationary time series by the method of least squares

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya teorii informatsii. Doklady. Moscow, 1966, 46-51

TOPIC TAGS: mathematical method, least square method, mathematical prediction

ABSTRACT: Based on the classical works by Wiener and Shannon, this problem of "pure" (no-noise) prediction is considered: Function $f(t)$ is known within $(-\infty, 0)$, find a best estimator $f(t_1)$ of its value at time moment $t_1 > 0$. A greater

Card 1/2

ACC NR: AT6022367

accuracy of linear prediction is expected as a result of using these techniques: (1) In evaluating $f(t_1)$, the approximate effect of pulses which might arrive since the present time moment should be taken into account; then, in Shannon's notation, $\frac{E_1^2}{U^2} < \left(\frac{E^2}{U^2}\right)_4^2$; this technique is efficient only with small-to-medium error values E/U; (2) The prediction interval $(o, t_1)$ is subdivided into small sections; for each section, the value $f(t)$ is found from the information specified within $(-\infty, o)$, with an allowance for all preceding predicted discrete values. The use of the above techniques is illustrated by an example of a random telegraph signal. Orig. art. has: 2 figures, 15 formulas, and 1 table.

SUB CODE: 09, 12 / SUBM DATE: 28Apr66 / ORIG REF: 002 / OTH REF: 002

Card 2/2

YANOVSKIY, G.I.

ROMODANOV, A.P.; YANOVSKIY, G.I.

Clinical course of concussion of the brain in school children. Vop.neirokhir. 19 no.2:22-27 Mr-Ap '55. (MLRA 8:7)

1. Iz Instituta neyrokhirurgii Ministerstva zdravookhraneniya USSR.

(BRAIN, wounds and injuries, concussion in child)
(WOUNDS AND INJURIES, brain concussion in child)

Yanovskiy, G.I.

VIROZUB, I.D., YANOVSKIY, G.I. (Kiyev)

"Gunshot wounds of the skull and brain; surgical anatomy and operative srugery" by E.M. Margorin. Reviewed by I.D. Virozub, G.I. IAnovskii. Nov.khir.arkh. no.2:124-126 Mr-Ap '58 (MIRA 11:6)
(HEAD--WOUNDS AND INJURIES)
(MARGORIN, E.M.)

GLUSHKOVA, I.S.; KANYUKA, Yu.I.; KOPYAKOVSKIY, Yu.I.; KOROL', A.P.; LAPONOGOV, O.A.; YANOVSKIY, G.I.

Focal and general brain symptoms of supratentorial tumors of varying histostructure. Probl.neirokhir. 4:19-32 '59. (MIRA 13:11)
(BRAIN--TUMORS)

S/904/61/000/000/009/011
D218/D308

AUTHORS: Maysuradze, P. A., and Yanovskiy, G. N.

TITLE: Antenna system excluding polarization fading

SOURCE: Doklady Nauchnogo simpoziuma po ionosfere, Rostov-na-Donu, 21-22 aprelya 1960 g. V razdel programmy MGG (ionosfera). Rostov on the Don, Izd-vo Rostov. univ., 1961 101-107

TEXT: One of the magneto-ionic components was suppressed by means of the six-terminal two-section network shown in Fig. 2. This ensured the necessary 90° phase difference in the range 1 - 10 Mc/sec. The wave-impedance equalizing circuit which was employed is shown in Fig. 7. There are 8 figures and 2 tables.

ASSOCIATION: Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR (Institute of Terrestrial Magnetism, Ionosphere, and Radiowave Propagation, AS USSR)

Card 1/3

YANOVSKIY, G. P.

24121 YANOVSKIY, G. P. Nekotoryye itogi po proyektirovaniyu i stroitel'stvu orositel'nykh sistem v tsentral'no-chernozemnykh oblastyakh. Gidrotekhnika i melioratsiya, 1949, No. 1, S. 17-25.

SO: Letopis, No. 32, 1949.

APOLLOSOV, V.M., kandidat tekhnicheskikh nauk; YANOVSKIY, G.P., redaktor; GUKKOVA, Ye.M., khudozhestvennyy redaktor; MOISEYENKO, D.G., tekhnicheskiy redaktor.

[Building of prefabricated hydraulic engineering structures (for irrigation systems)] Stroitel'stvo gidrotekhnicheskikh sooruzhenii sbornoi konstruktsii (na orositel'nykh sistemakh). Moskva, Gos. izd-vo selkhoz. lit-ry, 1954. 342 p. [Microfilm] (MLRA 8:2)
(Hydraulic engineering) (Precast concrete construction)
(Reinforced concrete construction)

L 24277-66 EWT(d)/T IJP(c)

ACC NR: AR6005253 SOURCE CODE: UR/0058/65/000/009/H014/H014

AUTHORS: Khanovich, I. G.; Yanovskiy, G. G.

TITLE: Methods of separating hidden periodicities

SOURCE: Ref. zh. Fizika, Abs. 9Zh116

REF. SOURCE: Tr. Nauchno-tekhn. konferentsii Leningr. elektrotekhn. in-ta svyazi, vyp. 1, 1964, 14-34

TOPIC TAGS: detection probability, periodic function, harmonic analysis

ABSTRACT: A review is presented of several methods for separating "hidden periodicities," i.e., for determining the number n and all the parameters $a_i$, $\omega_i$, and $\alpha_i$ of the harmonic components of the function

$$S(t) = \sum_{i=1}^{n} a_i \sin(\omega_i t + \alpha_i),$$

specified in a sufficiently large interval (0, T) in either tabular or graphic form. [Translation of abstract]

SUB CODE: 12, 09

Card 1/1

YANOVSKIY, G.V.

Capillaroscopic picture of the skin in patients with rheumatic fever and infectious nonspecific polyarthritis and its change following treatment with adrenocorticotropic hormone and cortisone. Mat. po obm.nauch.inform. no.2:181-187 '58. (MIRA 13:6)

1. Iz otdela klinicheskoy farmakologii (zav. - prof. A.L. Mikhnev) Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy meditsiny, Kiyev.
(RHEUMATIC FEVER) (ARTHRITIS) (ACTH) (CAPILLARIES)

YANOVSKIY, G.V. (Kiyev)

Functional state of the cardiovascular system in adrenocorticotropic hormone (ACTH) and cortisone therapy of rheumatism and infectius nonspecific polyarthritis. Klin.med. 36 no.1:77-84 Ja '58. (MIRA 11:3)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy meditsiny imeni akad. N.D.Strazhesko (dir.-prof. A.L.Mikheyev)

(RHEUMATISM, ther.
ACTH & cortisone, eff. on cardiovasc. system (Rus)
(ARTHRITIS, RHEUMATOID, ther, same)
(ACTH, ther. use, rheumatism & rheum. arthritis, with cortisone, effect. on cardiovasc. system (Rus)
(CORTISONE, ther. use
same)

YANOVSKIY, G. V., Cand Med Sci -- (diss) "Some indications of the functional condition of the cardiovascular system in hormonal therapy of rheumatism and of infectious nonspecific polyarthritis." Kiev, 1960. 17 pp; (Kiev Order of Labor Red Banner Medical Inst im Academician A. A. Bogomol'tsa); 200 copies; price not given; (KL, 17-60, 174)

YANOVSKIY, G.V.; SLEDZEVSKAYA, I.K.

Ballistocardiographic indexes in healthy individuals. Vrach. delo no.12:79-82 D '60. (MIRA 14:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut klinicheskoy meditsiny imeni akademika N.D. Strazhesko.
(BALLISTOCARDIOGRAPHY)

YANOVSKIY, G.V., kand.med.nauk (Kiyev)

Ballistocardiography in the diagnosis of rheumatic carditis. Vrach. delo no.12:65-69 D '61. (MIRA 15:1)

1. Otdel klinicheskoy farmakologii (zav. - zasluzhennyy deyatel' nauki, prof. A.L.Mikhnev) Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy meditsiny im. akademika N.D.Strazhesko.
(BALLISTOCARDIOGRAPHY) (RHEUMATIC HEART DISEASE)

MIKHNEV, A.L., zasluzhennyy deyatel' nauki, prof.; YANOVSKIY, G.V., kand.med. nauk (Kiyev)

Clinical phonocardiographic evaluation of the gallop-rhythm. Vrach. delo 4:38-41 Ap '62. (MIRA 15:5)

1. Ukrainskiy nauchno-issledovatel'skiy institut klinicheskoy meditsiny imeni akademika N.D.Strazhesko.
(HEART--SOUNDS)

YANOVSKIY, G.V.

Functional state of the myocardium in patients during the active phase of rheumatic fever as per ballistocardiographic and electrocardiographic data. Vop.revm. 1 no.4:46-49 O-D '61. (MIRA 16:3)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy meditsiny imeni akademika N.D. Strazhesko (dir. - prof. A.L. Mikhnev) Kiyev.
(RHEUMATIC HEART DISEASE) (ELECTROCARDIOGRAPHY)
(BALLISTOCARDIOGRAPHY)

MIKHNEYEV, Anatoliy L'vovich, zasl. deyatel' nauki prof.;
SLEDZEVSKAYA, Irina Kazimirovna, kand. med. nauk;
YANOVSKIY, Georgiy Viktorovich, kand. med. nauk;
ZANAZDRA, N.S., red.; BOYKO, V.P., tekhn. red.

[Clinical phonocardiography] Klinicheskaia fonokardiografiia. Kiev, Gosmedizdat USSR, 1963. 134 p.
(MIRA 17:3)

YANOVSKIY, G.V., kand.med.nauk; DROZDOV, D.D.

Reiter's syndrome. Vrach.delo no.2:132-133 F '63.
(MIRA 16:5)

1. Otdel klinicheskoy farmakologii (zav. - zasluzhennyy deyatel' nauki, prof. A.L. Mikhnev) Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy meditsiny imeni akademik N.D. Strazhesko.
(ARTHRITIS) (CONJUNCTIVITIS) (URETHRA—DISEASES)

SLEDZEVSKAYA, I.K., kand.med.nauk; YANOVSKIY, G.V., kand.med.nauk (Kiyev)

Systolic phases of the heart in rheumatic carditis. Vrach. delo no.8:3-7 Ag'63. (MIRA 16:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut klinicheskoy meditsiny imeni akademika N.D.Strazhesko.
(RHEUMATIC HEART DISEASE) (HEART BEAT)

MIKHNEV, A.L., zasluzhennyy deyatel' nauki, prof.; YANOVSKIY, G.V., Kand. med. nauk (Kiyev)

Graphic analysis of some sound phenomena of the heart in diastole. Vrach. delo no.11:9-15 N'63 (MIRA 16:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut klinicheskoy meditsiny imeni akademika N.D.Strazhesko.

Yanovskiy G. Yu.

BOLGARSKIY, Andrey Vladimirovich; ZASTELA, Yu.K., dotsent, retsenzent; KVASNIKOV, A.V., doktor tekhnicheskikh nauk, professor, retsenzent; YANOVSKIY, G.Yu., inzhener, redaktor; PETROVA, I.A., izdatel'skiy redaktor; ROZIN, V.P., tekhnicheskiy redaktor

[Calculation of processes in the combustion chamber and in the nozzle of fluid rocket engines] Raschet protsessov v kamere sgoraniia i sople zhidkostnogo raketnogo dvigatelia. Moskva, Gos.izd-vo obor. promyshl., 1957. 94 p. (MLRA 10:9)
(Rockets (Aeronautics))

YANOVSKIY, G.Yu.

DRIGGS, I.G. [Driggs, Ivan H.]; LANKASTER, O.Ye. [Lancaster, Otis E.]; MIRONOV, G.G. inzh. [trnaslator]; TUMANOV, R.I., inzh. [translator]; SHENKIN, V.P., inzh. [trnaslator]; YANOVSKIY, G.Yu., inzh., red.; BOGOMOLOVA, M.F., red. izd-va; SHCHERBAKOV, P.V., tekhn.red.

[Gas turbines for aircraft. Translated from the English] Aviatsionnye gazovye turbiny. Perevod s angliiskogo G.G.Mironova, R.I.Tumanova i V.P.Shenkina. Moskva, Gos.izd-vo obor. promyshl., 1957. 338 p. (MIRA 11:2)
(Airplanes--Turbojet engines)
(Airplanes--Turbine-propeller engines)

VIKULIN, N.; YANOVSKIY, I.; KOVALEV, V., inzh.; KARKACHEV, P., prepodavatel'; POKROVSKIY, L., starshiy inzh.; BANDOVKIN, A.

Prepare workers for the automation of industry. Radio no.1: 8 Ja '61. (MIRA 14:9)

1. Nachal'nik Shakhtinskogo radioklуba Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu (for Vikulin). 2. Predsedatel' soveta Shakhtinskogo radiokluba Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu (for Yanovskiy. 3. Chlen Shakhtinskogo radiokluba (for Kovalev). 4. Proyektnyy otdel Upravleniya "Shakhtospetsmontazh" kombinata "Rostovugol'" (for Pokrovskiy). 5. Slesar' po remontu vysokochastotnoy apparatury shakhty "Yuzhnaya-I" (for Bandovkin).
(Automatic control)

BASISTOV, Yuriy Vasil'yevich; YANOVSKIY, Innokentiy Iosifovich; AKHUNOV, I., red.; UMANSKIY, P., tekhred.

[Countries of the Near and Middle East] Strany Blizhnego i Srednego Vostoka. Tashkent, Gos.izd-vo Uzbekskoi SSR. 1958. 313 p. (Near East) (MIRA 12:4)

YAKOVSKIY, I. I. --"Nerves of the Organs of the Pelvic Cavity of Females of Certain Agricultural Animals." *(Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Min of Higher Education USSR, Belaya Tserkov Agricultural Inst, Belaya Tserkov, 1955

SO: Knizhnaya Letopis', No. 25, 18 Jun 55

* For Degree of Doctor of Biological Sciences

YANOVSKIY, I.I.

Effect of the nervous and blood system on ovulation, migration, implantation and development of the embryo in swine. Uzb.biol. zhur. no.2:47-51 '60. (MIRA 14:5)

1. Nauchno-issledovatel'skiy institut zhivotnovodstva Akademii sel'skokhozyaystvennykh hauk UzSSR.
(SWINE BREEDING) (FERTILIZATION (BIOLOGY))

YANOVSKIY, I.I.

Agricultural Machinery - Repairing

Greater attention to the technical maintenance of tractor brigades. Les i step' 14 no. 5, 1952.

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

KIRNOSOV, Vladimir Ivanovich; YANOVSKIY, Il'ya Iosifovich; IZOSIMOVA, O.B., inzhener, redaktor; UDAL'TSOV, A.N., glavnyy redaktor

[Universal apparatus for determining the hardness of metals] Universal'nye pribory dlia opredeleniia tverdosti metallov. Tema 2. Moskva, Akademiia nauk SSSR, 1956. 23 p. (MLRA 10:1)
(Testing machines)

AUTHOR: Dement'yev, Kh.N., Candidate of Technical Sciences

SOV/32-24-9-52/53

TITLE: V.I. Kirnosov and I.I. Yanovskiy. Machines and Apparatus for Material Testing (V.I. Kirnosov i I.I. Yanovskiy. Mashiny i pribory dlya ispytaniya materialov)
Mashgiz, 300 Pages, 1957, 11.65 Roubles (Mashgiz, 300 str., 1957 g., 11 r. 65 kop.)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 9, pp 1167-1167 (USSR)

ABSTRACT: The book mentioned in the title is discussed. It contains 5 chapters and 128 figures. There are, however, no machines for testing the fatigue among those mentioned in this book. It is suggested for laborers in the laboratories of works, as well as for state employed supervisors and workers who deal with repair works and checking of testing machines and apparatus. It is mentioned that the book should have dealt with some generalizations in the interpretation of theoretical basic concepts, constructional details, repair works etc. The plan of the machine P - 5 in figure 20 in this book does not agree with its description. There are a few more of such faults; they are mentioned. It is pointed out that in the case of a new edition of this book the descriptions of the

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V.I. Kirnosov and I.I. Yanovskiy. Machines and Apparatus for Material Testing. Mashgiz, 300 Pages, 11.65 Roubles SOV/32-24-9-52/53

machines should be cut and the faults mentioned should be corrected.

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AUTHORS: Yanovskiy, I. I., Engineer; Tenenbaum, M. M., Candidate of Technical Sciences; Romanenko, N. K., Engineer

TITLE: Relieving internal stresses in soldering carbide tips on tools

PERIODICAL: Vestnik mashinostroyeniya, no. 5, 1960, 52-57

TEXT: Dimension changes from thermal expansion of metal are analyzed and a formula and a diagram are deduced for determining the proper linear deformation coefficient ($\beta$) at which stresses in soldered joint would be zero in given case, i.e., at a definite solder solidification point, steel composition and austenite transformation temperature. The formula is

$$\beta' = T_{sol}(\alpha_{aust} - \alpha_T) - T_{tr}(\alpha_{aust} - \alpha_{dec}) - 20^{\circ}(\alpha_{dec} - \alpha_T) \qquad (4)$$

where $T_{sol}$ is the solidification point of the solder; $\alpha_{aust}$ - the linear expansion factor of austenite; $\alpha_{dec}$ - the linear expansion factor of austenite decomposition products; $T_{tr}$ - steel transformation temperature; $\alpha_T$ - the linear expansion factor of hard alloy of the tool tip; $\beta'$ designates the theoretical ideal value of $\beta$. The approximate relation of $\beta'$ and relative increase at austenite decomposition is $\delta V \approx 3\beta$, and the relative expansion is determined by

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Relieving internal stresses ...

the formula

$$\delta V = \frac{V_{tr} - V_{aust}}{V_{aust}} \qquad (5)$$

where $V_{aust}$ - is the steel volume in austenitic state, and $V_{tr}$ - in state after austenite decomposition. A series of $\beta'$ values can be obtained by substituting different austenite transformation points $T_{tr}$ into the formula (4). The linear expansion factor $\alpha_{aust}$ for different steel grades varies between 17 and 23 x $10^{-6}$ mm/mm · degree [Ref. 4: Spravochnik metallovendeniya i termicheskoy obrabotki (Handbook of metals and heat treatment) Metallurgizdat, 1956]. Substitution of different $\alpha_{aust}$ into the formula is equivalent to the steel choice, and a series of such dependencies can be obtained for a certain solder with a known $T_{sol}$, or vice versa - different $T_{sol}$ (which means different solders) can be substituted and a different series determined. The diagram presents two such series in graphical form. The dotted line indicates solders with $T_{sol}$ = 906°C (brass), and the solid line solders with $T_{sol}$ = 1,083°C (electrolytic copper). These are zero stress lines, and the coordinates are the austenite transformation temperatures ($T_{tr}$) and $\beta'$ values plus zones of structures forming in austenite decomposition. Approximate hardness values($H_B$) are included. The horizontal $\beta$ = 0.0136 line is

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Relieving internal stresses ...

the top boundary of structures. Below it there are in sequence: martensite, troosto - martensite, sorbite, pearlite, austenite. The practical use of the diagram is explained. The analysis proves that zero stress is practically impossible to obtain with copper for solder on steel grades that are used for cutter shanks at the time being. Brass solder is better, for it permits an entire range of possible isothermic heat treatment. The best steel for copper solder is a grade with austenite expansion $20 \cdot 10^{-6}$ mm/mm · degree. It will give minimum internal stresses in a wide range of isothermic hardening temperatures. Obviously, the solder and steel compositions may be varied. The method is not yet sufficiently accurate for practical application, for the $\alpha_{aust}$ and $\beta$ values must be dtermined more accurately for different steel grades. In special literature structure transformations have not been taken into account in determinations of stresses in hard-alloy tools. A calculation example is made with transformation expansion accounted for, in a practical case of the work portion of coal cutting machine teeth. The calculated stresses have been verified by x-ray analysis at the Laptevskiy mashinostroitel'nyy zavod (Laptevo Machinery Plant) (by A. P. Mokrov and N. L. Shapiro). It was stated that the calculation matched the x-ray data, but calculations without transformation temperatures and their effect taken into account gave stress values exceeding the x-ray data about

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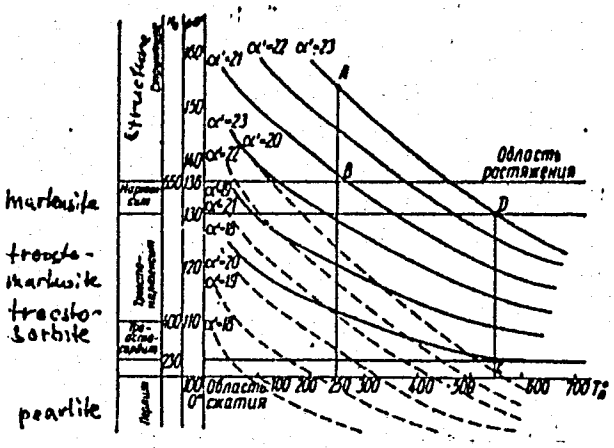
5 times. Despite rough approximations used in determining the effect of structure transformations in the steel shank, the beneficial effect of heat treatment is obvious. There are: 1 figure, 1 table and 7 references: 5 Soviet-bloc and 2 non-Soviet bloc.

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TENENBAUM, M.M., YANOVSKIY, I.I., ARTSIMOVICH, V.N., PATRIKEYEVA, E.M.

Machine for testing hard-alloy tools for repeated impact. Zav. lab. 26 no.7:883-884 '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-tekhnologicheskiy institut ugol'nogo mashinostroyeniya.
(Testing machines)

TENENBAUM, M.M., kand.tekhn.nauk; KOSTROMIN, A.Ye., inzh.; ROMANENKO, N.K., inzh.; YANOVSKIY, I.I., inzh.

Thermal conditions of the performance of bits of cutting machines and coal combines. Vest.mash. 40 no.4:11-14 Ap '60. (MIRA 13:6)
(Coal mining machinery) (Thermal stresses)

TOKAREV, I.A.; ROMANOV, V.A.; YANOVSKIY, I.I.; ARTSIMOVICH, V.N.; MOROZOV, V.D.

Bit for drilling with a perforator. Gor.zhur. no.8:72 Ag '62. (MIRA 15:8)

(Rock drills)

YANOVSKIY, I. L. DECEASED 1963/1

27 April 1962

DEFENSE INDUSTRY
Airplanes, etc.

See ILC