

KLEBANOV, V.M.

Modification of the operation for placing a vaginal fistula for the graphic registration of the contractile activity of the uterus (internal hystero-graphy in an experiment. Biul. eksp. biol. i med. 54 no. 7:109-110 J1 '62. (MIRA 15:11)

1. Iz kafedry normal'noy fiziologii (zav. - prof. M.G. Mogendovich) Permskogo meditsinskogo instituta. Predstavlena deyatvitel'nym chlenom AMN SSSR V.V. Parinym.
(FISTULA) (UTERUS)

VLASOV, V.P.; KLEBANER, V.Ya., inzh., retsentsent

[Economics of metal-cutting-tool production] Ekonomika
instrumental'nogo proizvodstva. Moskva, Mashinostroenie,
1965. 135 p. (MIRA 18,3)

KLEBANOV, Ya.A.

Public health and epidemic control service in South Kazakhstan
Province. Sov.sdrav. 17 no.4:55-57 Ap'58 (MIRA 11:5)

1. Oblastnoy gossaninspektor Yushno-Kazakhtanskoy oblasti.
(PUBLIC HEALTH
in Kazakhstan, med. serv. (Rus))

ACC NR: AP0013496

UR/0120/66/000/002/0066/0067

AUTHOR: Klebanov, Yu.D.; Kruchinin, S.P.; Lozina, L.A.

ORG: Institute of Atomic Energy GKAE, Moscow (Institut atomnoy energii (KAE)

TITLE: Differential gas Cerenkov counter

TOPIC TAGS: particle ~~velocity~~ counter, Cerenkov ~~velocity~~ counter, meson ~~velocity~~ indicator, bubble chamber, ~~instrument~~, synchrotron.

ABSTRACT: This paper discusses the theory of operation, the construction and the results of tests of a differential type compressed gas Cerenkov counter, used for high energy particle velocity determination and counting. The counter was slated for work with a gadoscopic system (reported previously by L.I. Govor and Yu.D. Klebanov at the Conference for high energy physics at Dubne in 1964) of a bubble chamber. The particle velocity β to be determined is related to the easily measurable angle of the Cerenkov radiation θ , and the adjustable refractive index of the environment, n (compressed freon-13), by the equation:

$$\cos \theta = 1/(\beta \cdot n) \quad (1)$$

Thus the angular resolution of the particle velocity becomes

$$d\theta/d\beta = 1/(\beta^2 \cdot n \cdot \sin \theta) = (Ctg \theta)/\beta \quad (2)$$

and this improves with the decrease of θ . However, since the radiation intensity, I , decreases sharply with θ , I being proportional to $\sin^2 \theta$, an optimum design angle of the Cerenkov radiation cone exists. This has been found to be 4° . Constructional

Card 1/2

UDC: 539.1.074.4

ACC NR: AP6013496

details of the counter are given. Tests of the counter were conducted in the beam of π^- mesons with an impulse $p = 4$ GeV/s on the 7 GeV synchrophazotron of the ITEP. The meson beam passed thru a 3-scintillator telescope with a space angle of $2 \cdot 10^{-3}$ rad. The counter showed its maximum effectiveness (96%) at a gas pressure of 3.7 atm. Its resolving power for particle velocities was $d\beta/\beta = 2 \cdot 10^{-3}$. Authors thank R.S. Shlyapnikov for his valuable discussions and interest in this project. Orig. art. has 2 figures and 3 formulas.

SUB CODE: 18, 20

SUBM DATE: 28 Jun 65

ORIG REF: 004

OTH REF: 004

Card 2/2

26.2321
26.2212

26687
S/056/61/041/005/002/038
B104/B108

AUTHORS: Klebanov, Yu. D., Sinitayn, V. I.

TITLE: Injection of plasma from a strong pulsed discharge into a vacuum

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41, no. 5(11), 1961, 1340-1346

TEXT: The authors describe experiments carried out with two plasma injection devices: a small and a bigger one (Figs. 1 and 2). The bigger device in difference from the smaller has two diaphragms with apertures of 5 and 10 mm separating the observation chamber from the discharge chamber. The injection of plasma from a strong pulsed discharge into hydrogen (0.1-1.0 mm Hg) was studied. The capacitance of the discharge circuit of the small device was 40 μ F, the voltage was 20-30 kv and the maximum discharge current was 400 ka. The capacitance of the discharge circuit of the bigger device was 80 μ F, the voltage was 30-40 kv, and the maximum discharge current was 500 ka. The plasma parameters at different injector conditions were determined photoelectrically together with a temperature-Card 1/4

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S/056/61/041/005/002/038

B104/B108

Injection of plasma from a ...

scan. It is shown that plasma is ejected in two opposite directions along the discharge axis. The plasma was injected in single pulses (2-5 μsec). The pinches were 30-40 cm long. By means of photoelectric and calorimetric methods the total number of particles injected by one pulse was determined. The density and velocity of the plasma were estimated too. The authors obtained: $N = 8 \cdot 10^{16}$; $n = 6 \cdot 10^{13} \text{ cm}^{-3}$; $V_z = 2.8 \cdot 10^7 \text{ cm/sec}$. N. V.

Filippov (D. P. Petrov, N. V. Filippov et al., Fizika plazmy i problema upr. termoyadernykh reaktsiy (Plasma Physics and Problems of Thermo-nuclear Reactions), v. 4, Izd. AN SSSR, 1958, p. 170) is mentioned. The authors thank Academician L. A. Artsimovich and S. Yu. Luk'yanov for discussion of results, M. A. Savenkov and V. S. Shumanov for assistance. There are 8 figures, 2 tables, and 19 references: 10 Soviet and 9 non-Soviet. The 3 most recent references to English-language publications read as follows: F. H. Coensgen, A. E. Sherman, W. E. Nexsen, Phys. Fluids, 3, 765, 1960; F. R. Scott, R. F. Wenzel, Phys. Rev., 119, 1187, 1960; J. Marschall, Phys. Fluids, 3, 134, 1960.

SUBMITTED: March 21, 1961

Card 2/4

L 25591-66 EWT(m)/T IJP(c)

ACC NR: AT6001556

SOURCE CODE: UR/3136/65/000/900/0001/0011

AUTHOR: Klebanov, Yu. D.; Kruchinin, S. P.; Lozina, L. A.

ORG: none

TITLE: Cherenkov differential gas counter

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAN-900, 1965.
gazovoy cherenkovskiy schetnik, 1-11 Differentsial'nyy

TOPIC TAGS: radiation counter, hodoscope, bubble chamber, Cherenkov counter, Cherenkov radiation

ABSTRACT: The gaseous differential Cherenkov counter, developed at the Institute of Atomic Energy, is used for work with a hodoscopic device for a bubble chamber. Since the angle of Cherenkov radiation θ is related to the index of refraction of the medium n , and the particle velocity β , then the angular resolution is:

$$\frac{d\theta}{d\beta} = \frac{1}{\beta^2 n \sin \theta} = \frac{\cot \theta}{\beta} \quad (2)$$

Thus the optimum angle of Cherenkov radiation θ must be selected due to the sharp drop in intensity which accompanies a decrease of the angle θ . The optimum angle in this case is $\theta \approx 4^\circ$. The Cherenkov light was focused through a convex glass lens, 130 mm in

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L 25591-66

ACC NR: AT6001556

diameter. Focal length was $f = 250$ mm. Photons of Cherenkov radiation were registered by the FEU-36 photomultiplier. The counter was filled with freon -13. The counter was tested in a π meson beam on the ITEP Cyclotron. The π meson beam passed through a telescope from three scintillation counters measuring 50×50 mm². The calculated maximum value of p ions with an impulse of $k \frac{Q_{\text{ev}}}{Q} = 3.5$ atm. The width of the curve at mid-height, $\Delta p = 2$ atm, corresponds to the resolution $\frac{\Delta p}{p} = 2.10^{-3}$. The authors thank R. S. Shlyapnikov for his interest in the work and valuable discussions. Orig. art. has: 5 figures and 3 formulas.

SUB CODE: 18 / SUM DATE: 00/ ORIG REF: 004/ OTH REF: 004

Card 2/2 f/

2.21.775-66

ACC NR: AP6007814

SOURCE CODE: UR/0120/66/000/001/0084/0087

AUTHOR: Klebanov, Yu. D.

ORG: Institute of Atomic Energy GKAE, Moscow (Institut atomnoy energii GKAE)

TITLE: A Cerenkov counter with adjustable threshold

SOURCE: Pribery i tekhnika eksperimenta, no. 1, 1966, 84-87

TOPIC TAGS: Cerenkov counter, particle detector

ABSTRACT: Differential gas Cerenkov counters usually operate satisfactorily in the region of $\beta=1$. Registration of particles with velocities noticeably differing from 1 (e. g. $\beta=0.95$) involves a number of technical and theoretical difficulties. Among these are proper index of refraction, impairment of resolution due to dispersion of the working gas and an increase in the probability for registration of background particles. These difficulties arise from the necessity for superhigh pressures. The necessary pressures usually result in liquefaction of the gas used in the radiator. The author describes a Cerenkov counter which eliminates these disadvantages to a certain degree. This detector has a continuously variable threshold for registration of Cerenkov radiation. The instrument has total internal reflection with a resolution of $\Delta\beta/\beta = 10^{-2}$ and registration efficiency of $\sim 90\%$ in the range of velocities $\beta = 0.89-0.97$. The radiator is a polished rectangular plate of transparent plastic measuring

Card 1/2

UDC: 539.1.074.4

L 24775-66

ACC NR: AP6007814

3

170 × 170 × 10 mm. The sides of the plate are parallel to within $\sim 0.1^\circ$. The counter housing is made up of two duralumin discs fastened together by bolts with the radiator placed between them. The working gas is pumped into the space between the discs under pressure. The instrument is designed for a pressure of 150 atm. Radiation is recorded by two photomultiplier tubes. In conclusion I consider it my pleasant duty to thank R. S. Shlyapnikov for useful consultation and L. A. Lozina and S. P. Kruchinin for assistance in testing the counter. Orig. art. has: 7 figures, 4 formulas.

SUB CODE: 18/

SUBM DATE: 28Jun65/

ORIG REF: 001/

OTH REF: 002

Cord 2/2

SIROTA, I.M., kand. tekhn. nauk (Kiyev); NAUMOVSKIY, L.D., inzh.
(Leningrad); TSIREL', Ya.A., inzh. (Leningrad); KLEBANOV, Z.I.
(Bobruysk); KAMENSKIY, A.P. (Bobruysk); BOYCHUK, S.I. (Bobruysk);
IOZEPAVICHUS, D.I., inzh. (Kaliningrad); SHULOV, B.S., inzh. (Riga)

Neutral operating mode in electric power distribution systems.
Elektrichestvo no.1:84-91 Ja '64. (MIRA 17:6)

KLEBANOVA, A. A.

Dept. Exptl. Pathology, Moscow Oblast Sci. Res. Tuberculosis Inst., -1948.
Medicine.

"The Significance of the Absence of Tubercle Bacilli in Flotation Studies of
Gastric Contents Obtained by Lavage Flotation Method," Prob. Tuber., No.
3, 1948.

~~TRUS M. V., ALDASHOVA A. A. AND SURDUKOVA A. A.~~ The mechanism of streptomycin action Problemi Tuberkuleza, Moscow 1949, 6 (48-50)

Trus found that even in a concentration of 200 I. U./ml. of streptomycin for 10 days tubercle bacilli will survive in small numbers. In clinical meningitis cases CSF was cultured before and during streptomycin treatment. In favourable cases cultures usually became negative after 3-5 injections and laboratory animals failed to become infected with the CSF. However, with the floatation method (with benzene or xylene), it was established that nevertheless tubercle bacilli could sometimes be found for months after the disappearance of all clinical symptoms; when the slightest cell or protein content of CSF is present, tubercle bacilli can be found after careful search, and even sometimes with a quite normal CSF and in the absence of any clinical symptom. The morphology of tubercle bacilli often changes during streptomycin treatment: very short, or thin, or granulated bacilli, or acid-fast granules, or 'shadows' were found along with typical bacilli. The floatation method sometimes gave positive results when inoculation and cultures were negative. It must be supposed that part of the bacilli die, are dissolved, and others become avirulent and grow badly. The author asks: what should be done with clinically healed patients with normal CSF and atypical bacilli still present in their CSF. Only a detailed study of cultures of these bacilli can give the answer to this question.

Van der Molen-Tervold (XV, 4, 8)

SO: Neurology & Psychiatry Section VIII Vol 3 No 7-12

KLEBANOVA, A.A.; SKRYABINA, L.B.

**Combined flotation and inoculation methods. Prob.tuberk., Moskva
No.1:51-55 Jan-Feb 51. (CML 20:6)**

1. Candidate Biological Sciences A.A.Klebanova. 2. Of the Department of Experimental Pathology (Head--M.V.Trius), Moscow Oblast Scientific-Research Tuberculosis Institute (Director--Prof.F.V. Shebanov).

KLEBANOVA, A.A., SERIABINA, L.Ye.

Possible errors in application of the flotation method.
Probl. tuberk., Moskva No.6:63-67 Nov-Dec. 1953. (OZML 25:5)

1. Senior Scientific Assistant for Klebanova. 2. Of the
Department of Experimental Pathology (Head -- M. V. Trins),
Moscow Oblast Scientific-Research Tuberculosis Institute
(Director -- Prof. F.V. Shebanov).

KLEBANOVA, A.A., kandidat biologicheskikh nauk

Effect of phthivasid on the causative agent of tuberculosis.

Probl. tub. no.4:50-55 J1-Ag '54.

(MIRA 7:11)

1. Iz Moskovskogo oblastnogo nauchno-issledovatel'skogo tuberkulez-nogo instituta (dir. prof. F.V.Shebanov, zam. direktora po nauchnoy chasti prof. D.D.Aseyev)

(MYCOBACTERIUM TUBERCULOSIS, effect of drugs on, isoniazid)

(NICOTINIC ACID ISOMERS, effects, isoniazid, on M. tuberc.)

KLEBANOVA, A. H.

USSR / Microbiology. Medical and Veterinary Microbiology. 7-5

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 22094

Author : Klebanova, A.A., Pupko, S.L.

Inst :

Title : Electron Microscopic Study of Tubercular Mycobacteria
Changes Affected by Antimicrobial Preparations.

Orig Pub: Probl. tuberkuleza, 1956,³⁴ No 2, 47-52

Abstract: Streptomycin in quantities of 500 units per ml. disturbs mainly the tubercle bacilli (TB) cytoplasmic substance and produces no effect on granules; at first a swelling develops, and then cytoplasm vacuolization with subsequent tearing of the cell envelope and emergence of granules into the surrounding medium. Phtivazide in a concentration of 2 mg/ml preeminently causes changes of the granular substance, which liquefies, accumulates at one cell pole and pours out of it after the envelope is torn. TB isolated from the patients during treatment or before that, those sensitive to medication, manifested no deviation from the norm when examined

Card : 1/2 and *Enst. Exptl. Biol. AMS USSR*
Microbiology Lab, Moscow Oblast Sci Res. Tuberculosis Inst

USSR / Microbiology. Medical and Veterinary Microbiology. 7-5

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 22094

in the electron microscope. TB cultures which are resistant to some medical preparations and sensitive to others possessed a clearly expressed polymorphism. After treatment with phtivazide TB often experiences a partial loss of acid-resistance, which makes their detection difficult when dyed according to the Ziehl-Neelsen method, and requires compulsory inoculation or animal infection.

Card : 2/2

-60-

КЛЕШАКОВА, А.А.

White mice as test objects in detecting virulent atypical strains
of the tuberculosis bacilli. Lab. delo. 4 no. 5:29-32 8-0 '58

(MIRA 11:11)

1. In Moskovskogo nauchno-issledovatel'skogo instituta
tuberkuleza (dir. V.F. Chernyshev) Ministerstva zdavookhraneniya
RSFSR.

(MYCOBACTERIUM TUBERCULOSIS)

(MICE AS LABORATORY ANIMALS)

KLEBANOVA, A.A., kand.biol.nauk

Biological properties of phtivazid resistant tuberculosis strains
[with summary in French]. Probl.tub. 36 no.1:91-96 '58.

(MIRA 11:4)

1. Is mikrobiologicheskogo otdeleniya (zav. T.N.Yashchenko)
Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza Mini-
sterstva zdavookhraneniya RSFSR (dir. V.F.Chernyshev, zam.
direktora po nauchnoy chasti - prof. D.D.Aseyev)

(MYCOBACTERIUM TUBERCULOSIS

biol. properties of N-(4-hydroxy-3-methoxy)benzal
isonicotinic acid hydrazone resist. strains (Rus))

(ISONIAZID, related cpds.

biol. properties of N-(4-hydroxy-3-methoxy)benzal
isonicotinic acid hydrazone resist. M.tuberc. strains
(Rus))

KLEBANOVA, A.A.

Peculiarities of the agent of tuberculosis at the present time. Lab.
delo 5 no.4:44-47 J1-Ag '99. (MIRA 12:12)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza
Ministerstva zdavookhraneniya RSFSR (dir. V.F. Chernyshev).
(MYCOBACTERIUM TUBERCULOSIS)

ASEYEV, D.D., prof.; ~~KLIMANOVA, A.A., kand.biolog.nauk~~; UGRYUMOV, B.P., prof.;
OUR'YEVA, I.G., ~~kand.med.nauk~~

Clinical and bacteriological parallels in antibacterial treatment.
Probl.tub. 37 no.4:16-23 '59. (MIRA 12:10)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza Ministerstva zdavookhraneniya RSFSR (dir. - kand.med. nauk V.F.Chernyshev, zam.direktora po nauchnoy chasti - prof. D.D.Aseyev).

(TUBERCULOSIS, ther.

bacteriol. & clin. parallels in antibact.ther.
(Rus))

BUNINA, B.Z., prof.; DRANKINA, R.O., prof.; KLEBANOVA, A.A., kand. biolog.nauk; KOSMODAMIANSKIY, V.M., prof.; MOISEL', L.M., prof.; RABUKHIN, A.Ye., prof.; STRUKOV, A.I., prof.; STUKALO, I.T., prof.; TIMASHINA, Ye.D., kand.med.nauk; CHISTOVICH, A.N., prof.; SEMOLEV, N.A., prof.; NYINIS, V.L., prof., saslushennyi deyatel' nauki, otv. red., red.toma; KORNEV, P.G., prof., red.; KUDRYAVTSOVA, A.I., prof. [deceased], red.; LEBEDEVA, Z.I., kand.med.nauk, red.; LAPINA, A.I., red.; MASSIMO, S.V., doktor med.nauk, red.; SHEKHANOV, F.V., prof., saslushennyi deyatel' nauki, red.; SENCHILO, K.K., tekhn.red.

[Multivolume handbook on tuberculosis] Mnogotomnoe rukovodstvo po tuberkulezu. Moskva, Gos.isd-vo med.lit-ry. Vol.1. [General problems in tuberculosis] Obshchie problemy tuberkuleza. Red. toms: V.L.Ninis, A.I.Strukov. 1959. 672 p. (MIRA 13:6)

1. Chlen-korrespondent AMN SSSR (for Strukov, Shmelev). 2. Deyatv-
tel'nyy chlen AMN SSSR (for Kornev).
(TUBERCULOSIS)

KLEBANOVA, A.A., kand.med.nauk

Fluorescence microscopy of modified Mycobacterium tuberculosis.
Probl.tub. 38 no.7:77-84 '60. (MIRA 14:1)

1. Iz Moskovskogo gosudarstvennogo nauchno-issledovatel'skogo
instituta tuberkuleza (dir. V.F. Chernyshev, zam. dir. po nauke -
prof. D.D. Aseyev) Ministerstva zdoravookhraneniya RSFSR.
(MYCOBACTERIUM TUBERCULOSIS)

KLEBANOVA, A.A., kand.biologicheskikh nauk

Current status of the problem of the tuberculosis pathogen.
Probl.tub. 39 no.2:64-72 '61. (MIRA 14:3)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza Ministerstva zdavookhraneniya RSFSR (dir. V.F. Chernyshev sam. dir. po nauchnoy chasti - prof. D.D. Aseyev).
(MYCOBACTERIUM TUBERCULOSIS)

KLEBANOVA, A.A., kand.biolog.nauk

Are the comments and conclusions of A.M. Khoma-Lenishko mentioned in his article, "Pigmented mycobacteria in clinical tuberculosis" correct? Probl.tub. no.5:102-104 '61. (MIRA 15:1)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza Ministerstva zdavookhraneniya RSFSR (dir. - kand.med.nauk V.F. Chernyshev, zam. dir. po nauchnoy chasti - prof. D.D. Aseyev).

(MYCOBACTERIUM TUBERCULOSIS) (KHOMA-LENISHKO, A.M.)

KLEBANOVA, A. A., kand. biolog. nauk; ZAGLUKHINSKAYA, S. B., kand. biolog. nauk; SKRYABINA, L. S., kand. biolog. nauk

Luminescence method for the study of tuberculosis. Probl. tub.
40 no.5:72-77 '62. (MIRA 15:7)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza Ministerstva sdravookhraneniya RSFSR (dir. - kandidat meditsinskikh nauk V. F. Chernyshev, zam. dir. po nauchnoy chasti - prof. D. D. Asyev)

(MYCOBACTERIUM TUBERCULOSIS)
(FLUORESCENCE MICROSCOPY)

BAGAYEVA, M.I., kand.med.nauk; KLEBANOVA, A.A., kand.biol.nauk

Clinical bacteriological parallels in tuberculous lupus during
antibacterial therapy. Vest.derm.i ven. no.8:29-35 '62.

(MIRA 15:9)

1. Iz kozhnogo otdeleniya (sav. - kand.med.nauk I.N. Agapkin)
mikrobiologicheskoy laboratorii (sav. - kand.med.nauk T.N.
Yashchenko) Instituta tuberkuleza (dir. - kand.med.nauk V.F.
Chernyshev) Ministerstva zdavookhraneniya RSFSR.
(LUPUS)

KLEBANOVA, A.A.; SHAPIRO, D.M.; BLAGODARNYY, Ya.A.

Characteristics of *Mycobacterium tuberculosis* isolated in a
remote district in Alma-Ata Province. Izv. AN Kazakh. SSR. Ser.
med. nauk 11 no. 2:85-89 '64. (MIRA 17:7)

CHEFRANOV, V.S.; KLEBANOVA, A.A.

Clinical and bacteriological parallels in patients following surgery for pulmonary tuberculosis. Probl. tub. 42 no.1:44-48 '64.
(MIRA 17:8)

1. Moskovskiy nauchno-issledovatel'skiy institut tuberkuleza (dir. - kand. med. nauk T.P. Mochalova, zamestitel' direktora po nauchnoy chasti - prof. D.D. Aseyev) Ministerstva zdoravookhraneniya RSFSR.

BURKA, N.I.; KLEBANOVA, B.S.

Use of glass filters in pharmaceutical practice. Apt. delo 10 no.4:
61-62 J1-Ag '61. (MIRA 14:12)

1. Pyatigorskiy farmatsevticheskiy institut.
(FILTERS AND FILTRATION)

KLEBANOVA F. M.

AUTHORS: Tarkovtsev, V. V., Rozenblyum, Ye. N., 75-6-15/23
Kryukova, Z. S., Klebanova, F. M.

TITLE: The Determination of Lead Sulphate in the Active Mass of Lead Storage Batteries (Ob opredelenii sulfata svintsa v aktivnykh massakh svintsovykh akkumulyatorov).

PERIODICAL: Zhurnal Analiticheskoy Khimii, 1957, Vol. 12, Nr 6, pp. 736-739 (USSR).

ABSTRACT: The unsuitability of the soda method for the determination of $PbSO_4$ at a low lead content in the active mass of lead storage batteries is described. An incomplete solution of $PbSO_4$ occurs because of Na_2CO_3 whereby the results are lower.
It is recommended to treat the positive charged platelets with acid and the negative charged platelets with a mixture consisting of equal parts of $5NCH_3COOH$ and $5NCH_3COONH_4$. The proposed method is four- to five times shorter than the usual soda method.
There are 3 tables.

Card 1/2

The Determination of Lead Sulphate in the Active Mass of Lead Storage Batteries. 75-6-25/23

ASSOCIATION: Institute of Scientific Research on Storage Batteries, Leningrad
(Nauchno issledovatel'skiy akkumulyatornyy institut, Leningrad).

SUBMITTED: October 6, 1956.

AVAILABLE: Library of Congress.

1. Lead sulfite-Determination
2. Storage batteries-Active lead mass

Card 2/2

KLEBANOVA, I.M.

New occurrence of Eocene mammals in eastern Kazakhstan. Paleont. zhur.
no. 114-145 '63. (MIRA 1614)

1. Paleontologicheskii institut AN SSSR.
(Kazakhstan—Mammals, Fossil)

KLEBANOVA, I.M.

New locality of Middle Oligocene mammals in the Kyzylkak depression. Paleont. zhur. no.4:99-102 '65.

(MIRA 19:1)

1. Paleontologicheskii institut AN SSSR. Submitted April 27, 1965.

KLEBANOVA, K. A.

Microscopic structure of the compact matter of long bones of the
extremities in some representatives of the family Scuridae. Trudy
Zool. inst. 33:256-282 '64.
(MIRA 17:7)

DYNALURG, A.D. [Dynalurg, H.D.]; KLEBANOVA, I.B.; YERYSH, A.I. [IERYSH, A.I.]

Thermoregulation in infectious diseases of the nervous system. Fiziol. zhur. [Ukr.] 11 no.1:37-44 Ja-F '65. (MIRA 18:7)

1. Otdel nevrologii i neyrofiziologii Instituta fiziologii im. A.A. Bogomol'tsa AN UkrSSR, Kiyev.

KIMBANOVA, L.B.

Changes in the vegetative nervous system in various neuroinfections.
Fiziol.shur.[Ukr.] 2 no.6:97-105 N-D '56. (MLM 10:2)

1. Institut fiziologii imeni O.O.Bogomol'tsya Akademii nauk URSR,
viddil klinichnoi i eksperimental'noi nevrologii.
(VIRUSES) (NERVOUS SYSTEM--DISEASES)

KLEBANOVA, L.B.

Role of cortical neurodynamics in disturbance of autonomic reactions in neurotropic virus infections [with summary in English]. Fisiol. zhur. [Ukr.] 4 no.2:175-184 Mr-Apr '58.

(MIRA 11:5)

1. Institut fiziologii im. O.O. Bogomol'tsya AN URSR, viddil klinichnoi ta eksperimental'noi nevrologii.

(NERVOUS SYSTEM, AUTONOMIC--DISEASES) (REFLEXES)

DINABURG, G.D. [Dinaburg, G.D.]; KLEBANOVA, L.B.; YERISH, A.I. [Ish, A.I.]

Blood pressure and vascular tone in postinfluenzal neuroinfections.
Fiziol. zhur. [Ukr.] 4 no.6:804-813 M-D '58. (MIRA 12:3)

1. Institut fiziologii im. A.A. Bogomol'tsa AN USSR, otdel klinicheskoy
i eksperimental'noy nevrologii.
(BLOOD PRESSURE) (NERVOUS SYSTEM--DISEASE)
(INFLUENZA)

KUCHEROVA, L.L.; KLEBANOVA, L.B.

Amount of protein and protein fractions in encephalomyelitis and multiple sclerosis. Zhnr. nevr. i psikh. 60 no.11:1458-1463 '60.
(MIRA 14'5)

1. Kafedra nervnykh boleznykh (zav. - prof. B.N.Man'kovskiy)
Kiyevskogo meditsinskogo instituta i otdel klinicheskoy i eksperimental'noy nevrologii (rukovoditel' - prof. A.F.Makarchenko)
Instituta fiziologii imeni A.A.Bogomol'tsa AN USSR, Kiyev.
(ENCEPHALOMYELITIS) (MULTIPLE SCLEROSIS)
(BLOOD PROTEINS)

MAKARCHENKO, A.F. [Makarchenko, O.F.]; PASTERNAK, M.N.; DINABURG, A.D.;
MEL'NICHENKO, A.V. [Mel'nychenko, H.V.]; KLEBANOVA, L.B.

Experimental allergic encephalomyelitis. Fiziol. zhur.
[Ukr.] 8 no.3:292-308 My-Je '62. (MIRA 15:6)

1. Otdel nevrologii i nevrofiziologii Instituta fiziologii
im. Bogomol'tsa AN USSR, Kiev.

(ENCEPHALOMYELITIS)
(ALLERGY)

KRITSKIY, M.S.; KULAYEV, I.S.; KLEBANOVA, L.M.; BELOZHERSKIY, A.N., akademik

Two ways of phosphate transport in the fruiting bodies of *Agaricus bisporus*. Dokl. AN SSSR 160 no.4:949-952 F '65.

(MIRA 18:2)

1. Institut biokhimii im. A.N. Bakha AN SSSR i Moskovskiy gosudarstvennyy universitet.

FILE COPY 10/10/50
TSESARSKAYA, S. I.; MONOSZON, S. M.; SHEYMAN, Ye. A.; YAKHNIS, B. L.; GOLDENBERG, A. I.; GORLOVSKAYA, Ye. P.; KLEBANOVA, M. A.

Role of roentgenological method in examination of children for B.C.G. vaccination. Probl. tuberk., Moskva no.4:31-36 July-Aug. 1950. (CJML 20:1)

1. (Candidate Medical Sciences S. I. Tsarkaya -- Odessa Tuberculosis Institute; S. M. Monosson and E. A. Sheyman -- Leningrad Tuberculosis Institute; Prof. B. L. Yakhnis and Candidate Medical Sciences A. Ya. Gol'berg -- Khar'kov Tuberculosis Institute; M. P. Gorlovskaya -- Kiev Tuberculosis Institute.

S/133/61/000/001/015/016
AO54/AO33

AUTHORS: Tsitver, V. M., Candidate of Economic Sciences, and Klebanova, M. I., Engineer

TITLE: Comparing the Efficiency of Melting Killed Carbon Steel in Large-capacity Open-hearth and Electric Furnaces

PERIODICAL: Stal', 1961, No. 1, pp. 74 - 76

TEXT: Under the Seven-Year Plan the share of electric steel in total steel production will be increased to 9% (nearly double the 1958-figure). No full agreement has yet been reached, however, as to the question whether it is justified to produce killed carbon steel in electric furnaces instead of open-hearth furnaces. To clear up this problem the technical and economic indices of 180-ton electric furnaces and 250-ton open-hearth furnaces (operated with natural gas and oxygen) with an annual output of 1.2 million tons of killed carbon steel have been analysed. The cost of iron and the sales prices of natural gas and electric power, were calculated on the basis of the prices valid for the central area of the USSR, while the prices of the plant (without rework) scrap and supplied scrap were taken as being identical with the iron price. Under these con-

Card 1/7

S/133/61/000/001/015/016

A054/A033

Comparing the Efficiency of Melting Killed Carbon Steel in Large-capacity Open-hearth and Electric Furnaces

ditions open-hearth steel was 9% cheaper than electric steel, (table 1). Calculating scrap at 200 rubles/ton and taking into account the expected electric power costs (5 kopeck /kWh), natural gas (3 kopeck/ cu m) and masut (50 rubles /ton), the cost of open-hearth steel amounts to 317 rubles /ton and that of electric steel to 351 rubles /ton. Since the main factors determining the costs of both steels are the scrap and iron prices and iron consumption per ton of steel, electric steel will be cheaper than open-hearth steel only under the condition, that in some areas of the USSR the price of iron is 70 - 120 r /t lower than that of scrap, which, however, is not very probable for the principal metallurgical plants. With regard to capital investment for open-hearth and electric furnace shops, with 4 furnaces (250 ton and 180 ton capacity respectively) and with an annual output for both shops of 1.2 million tons, the following figures were obtained:

Card 2/7

S/133/61/000/001/015/016
A054/A033

Comparing the Efficiency of Melting Killed Carbon Steel in Large-capacity Open-hearth and Electric Furnaces

	Open-hearth furnace shop million rubles	Electric furnace shop million rubles
Main workshop building	208.0	159.1
...inol.		
building	57.1	42.7
furnaces	30.0	18.3
2 continuous casting installations	55.2	55.2
Electric transformer station	1.4	6.1
Mixing shop	6.7	6.5
Charge-material stockyard	8.3	5.3
Waste-heat boilers	17.0	-
Various costs	8.6	3.0
In total	250.00	180.0

Card 3/ 7

S/133/61/000/001/015/016
A254/A033

Comparing the Efficiency of Melting Killed Carbon Steel in Large-capacity Open-hearth and Electric Furnaces

This shows that the capital investment for the construction of 180-ton electric furnace shops is about 30% lower than that for 250-ton open-hearth furnaces of the same capacity. However, when including the figures for the allied industries (power, transport, coal) the capital investment for both types of furnace shops will be about the same. With regard to the above calculations it seems advisable to produce mainly structural alloyed steels in electric furnaces. There are 2 tables.

ASSOCIATIONS: Leningradskiy GIPROMEZ (Leningrad GIPROMEZ).

Table 1: Costing of open-hearth (A) and electric steel (B)

Cost Items	Prices rubles/t	A		B	
		Quantity ton	sum rubles kop.	quantity ton	sum rubles kop.
①	②	③	④	⑤	⑥

Card 4/7

SAVKEVICH, I.A., inzh.; MAL'CHEIKO, V.I., inzh.; KLEBALOVA, N.M.,
inzh.; OSTAPENKO, V.D., kand.tekhn.nauk

Semidry pressing of roofing tiles. Stroimnt. 5 no.11:
27-28 N '59. (MIRA 13:3)
(Voronesh--Tiles, Roofing)

NAKHAPETYAN, Ye.G.; KIEBAROVA, O.N.

Investigating heavily-loaded turning gears with Geneva mechanisms
of external and internal engagement. Teor. mash. i mekh. no. 107/108:
25-39 '65. (MIRA 18:7)

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

INVENTOR: Belotelov, N. A.; Verkhovushov, B. A.; Kal'nov, V. G.; Kryuchkov, A. P.;
Litvin, A. P.; Mal'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

Card 1/3

L 13288-66

ACC NR: AP6000321

0
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: AP8000321

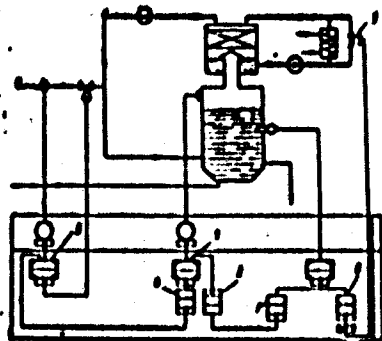
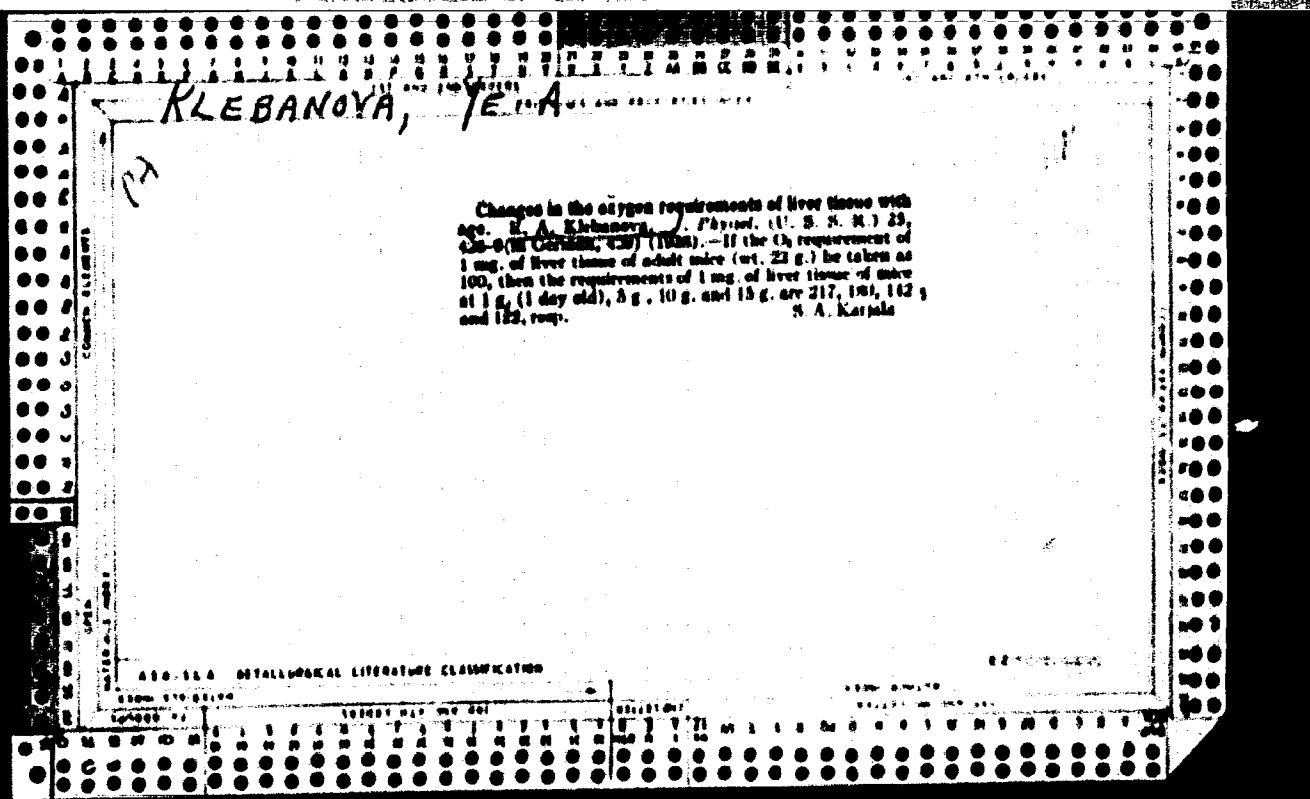


Fig. 1. 1 - first temperature controller; 2 - first speed reducer; 3 - pressure regulator; 4 - second speed reducer; 5 - flow regulator for the product; 6 - second temperature controller; 7 - flow regulator for the coolant.

SUB CODE: 07/ SUBM DATE: 01Feb65/

Card 3/3



KLEBANOVA, YE. A.

Klebanova, Ye. A. and Yakovleva, Ye. S. "Changes in the living organism under the influence of its living conditions", Yestestvoznaniye v shkole, 1949, No. 2, p. 18-28.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).

KLEBANOVA, Ye.A.

Glycemic reactions in various forms of heliotropic dystrophy of the liver in children. *Vopr.pediat.* 18 no.2:24-26 Mr '50. (GLML 19:3)

1. Of the Department of Hospital Pediatrics (Head of Department -- Honored Worker in Science Prof. R.S.Gershenovich) and of the Department of Faculty Pediatrics (Head of Department -- Docent A.N.Maksudov) of the Pediatric Faculty of Tashkent Medical Institute imeni V.M.Molotov.

КЛЕДАНОВА *К. И.*
KOVESHNIKOVA, A.K.; KIMRANOVA, Ye.A.; TAKOVLEVA, Ye.S.; PANTALOVA, V.L.,
redaktor; TIMOKHIN, S.F., Tekhnicheskiiy redaktor.

[Outlines of human functional anatomy; manual for teachers in
secondary schools] Ocherki po funktsional'noi anatomii cheloveka;
posobie dlia uchitelei srednikh shkol. Moskva, Izd-vo Akademii
pedagog. nauk RSFSR, 1954. 339 p. (MLRA 7:12)
(Anatomy, Human)

"Growth changes in the Vascularization of the Human Kidney. Part II:
Growth Changes in the Kidney Veins"

Izv. Yestestv.-Nauchn. In-ta im. Lesgafta, No 26, 1954, 43-52

Preparations were examined from kidneys of newborn children, older children and adults. The volume and number of veins and arteries increased with increasing age. The diameter of the venous anastomoses also increased. There was no change in the volume of the ~~auxiliary~~ auxiliary, emissary veins of adults. (RZhBiol, No 9, May 1955)

SO: Sum-No 787, 12 Jan 56

17(1)

AUTHOR:

Klebanova, Ye. A.

SOV/20-126-4-60/62

TITLE:

On the Possible Increase in the Number of Fibers in a Skeleton Muscle Hypertrophied by Work (O vozmozhnosti uvelicheniya chisla volokon v skeletnoy myshtse pri yeye rabochey gipertrofii)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 4, pp 905 - 908 (USSR)

ABSTRACT:

It is still unclear whether, beside the enlargement of single muscle fibers, also their quantity increases due to hypertrophy by work. This cannot be fully rejected in the postembryonal period (Refs 1-6). The countings of muscle fibers carried out by the authoress (Tables 1,2, Fig 1) give no reason to deny that in the strengthening of one muscle, fibers are newly formed, split and even degenerate. The results obtained only point to the fact that the enlargement of the muscle mass required for the performance of additional work does not take place in the form of an increase in the number of fibers in the muscle. There are 1 figure, 2 tables, and 16 references, 10 of which are Soviet.

Card 1/2

On the Possible Increase in the Number of Fibers in a SOV/20-126-4-60/62
Skeleton Muscle Hypertrophied by Work

ASSOCIATION: Zoologicheskiy institut Akademii nauk SSSR (Zoological Institute
of the Academy of Sciences, USSR)

PRESENTED: February 9, 1959, by Ye. P. Pavlovskiy, Academician

SUBMITTED: January 29, 1959

Card 2/2

BUNAK, V.V.; KLEBANOVA, Ye.A.

Effect of increased mechanical load on the formation of bones of the extremities in growing animals. Arkh. anat. gist. i embr. 38 no. 5:43-50 My '60. (MIRA 14:2)

1. Laboratoriya funktsional'noy morfologii im. P.F. Iasgafa obyzannosti zav. laboratoriyey - Ye.A. Klebanova) Zoologicheskogo instituta AN SSSR.
(BONES) (EXTREMITIES (ANATOMY)) (GROWTH)

KLEBANOVA, Ye.A.; KOMAROVA, A.N.; BUKIN, Yu.V.

Aleksandra Kornil'evna Koveshnikova; on her 70th birthday. Arkh.
anat.gist.1 embr. 39 no.11:125-127 N '60. (MIRA 14:5)
(KOVESHNIKOVA, ALEKSANDRA KORNIL'EVNA, 1890-)

KLEBANOVA, Ye.A.

Microscopic structure of the compact substance in long tubular bones of jerboas. Zool. zhur. 41 no.3:425-436 Mr '62.

(MIRA 15:3)

1. Laboratory of Functional Morphology, Zoological Institute,
U.S.S.R. Academy of Sciences, Leningrad.

(Jerboas)

SOKOLOV, I. I.; KLEBANOVA, Ye. A.; SOKOLOV, A. S.

Morphological and functional characteristics of the locomotorium
in saiga and goitered gazelle. Trudy Zool inst. 33:319-348 '64.
(MIRA 17:7)

KLEBANOVA, Ye.A.

Structure of extremital bones in mammals. Zool. zhur. 44 no.4:
578-592 '65. (MIRA 1816)

1. Zoologicheskiy institut AN SSSR, Leningrad.

KLEBANOVA, Ye.A.

Causes for the differentiation in the structure of the compact mass of long tubular bones of the extremities in mammals. Trudy Zool. inst. 35:364-374 '65. (MIRA 19:1)

1. Zoologicheskiy institut AN SSSR.

RAVICH-SHCHEPPO, V. A.; KLEBANOVA, YE. YE.

Pneumothorax

Broncho- and angiospastic pulmonary reflexes in endoscopy and in spontaneous pneumothorax. Prob. tub. no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August ¹⁹⁵²~~1953~~. Unclassified.

KLEBANOVA, Ye. Ye. (Kiyev)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000723010009-

Hematological characteristics of various outbreaks of influenza.
Vrach. delo no.4:359-361 Ap '59. (MIRA 12:7)

1. Kliniki--diagnosticheskaya laboratoriya Instituta infektsionnykh
bolezney AMN SSSR.
(BLOOD--EXAMINATION) (INFLUENZA)

KLEBANOVA, Ye.Ye. (Kiyev)

Blood picture in adenovirus diseases. Shor.nauch.trud. Inst. infek. bol.
no. 4:219-222 '64. (MIRA 18:6)

KLEBANOVICH, V. I., CAND MED SCI, *Perinatal* "CHARACTERISTICS OF *infants*
DIAPHYSEAL FRACTURES OF TUBULAR LONG BONES IN NEWBORN."
SARATOV, 1961. (SARATOV STATE MED INST).

KLEBANOVICH, V.P.

Raising the power factor of electric equipment. Gidrolis.
1 lesokhim. prom. 9 no.4:25-26 '56. (MLRA 9:11)

1. Bobruyskiy gidrolisnyy zavod.
(Electric machinery)

KLEBANOVSKAYA, L.R.

Two cases of bone homoplasty using an "embryonal" transplant. Ortop.
travm.i protes. 21 no.5:77-79 My '60. (MIRA 13:9)

1. Iz kafedry gosspital'noy khirurgii (sav. - prof. A.N. Okulova)
Omskogo meditsinskogo instituta im. M.I. Kalinina (dir. - prof.
I.S. Novitskiy). (BONE GRAFTING)

KLEBANOVSKAYA, L.R. (Omsk 42, prospekt Marksa, d.22, kv.41)

Homoplasty with embryonal bone tissue. Ortop., trava. i protez. 26
no.2:14-19 F '65. (MIRA 18:5)

1. Iz kafedry khirurgicheskikh bolezney (zav. - dotsent V.I.Larin)
Omskogo meditsinskogo instituta imeni Kalinina (rektor - dotsent
L.G.Makarov).

KLEBANOWSKI, Jerzy (Address: Rabka-Zdroj, ul. Nowy Swiat 2)

**Problem of incision in surgery of the biliary tract. Polski
prsegl. chir. 26 no.1:29-32 Ja '54.**

1. (Praca wplynela do redakcji dnia 27.IV.1952)
(BILIARY TRACT, surgery,
*incision, selection of site)

KLEBANOWSKI, Jerzy

Modern therapy of osteoarticular tuberculosis. Polski przegl. chir.
29 no.5:467-481 May 57.

1. Z Sanatorium im. W. Patrowskiego w Rabce. Dyrektor: Dr B. Pleszonka
Praca wpłynęła dnia 18. 4. 1956 r. Rabka, Sanatorium im. Patrowskiego.
(TUBERCULOSIS, OSTEOARTICULAR. therapy,
(Pol))

KLEBANOWSKI, Jerzy

Osteoarticular tuberculosis treated locally by streptomycin. Polski
przegl. chir. 31 no.4:549-553 May 59.

1. Z Sanatoriów im. Patrowskiego w Rabce, im. Nowotki w Rabce i
im. Zeylanda w Zakopanem.

(TUBERCULOSIS, OSTEOARTICULAR, ther.)

(STREPTOMYCIN, ther.)

KLEBANOWSKI J.

EXCERPTA MEDICA Soc 15 Vol 13/6 Chest Lis. June 50

1817. LOCAL TREATMENT OF SURGICAL TB WITH STREPTOMYCIN - Grud-
lica kostno-stawowa leczona miejscowo streptomycyną - Klebanowski J.
Sanat. im. Patrowskiego, Rabce - POL. PRZEGL. CHIR. 1959, 31:5 (549-553)
Tables 1 illus. 2

On the basis of 45 of his own cases and observations from other sanatoria the con-
tributor of the article suggests the application of streptomycin to the foot and joints
in cases of tuberculous changes in the bones if these are not of a very destructive
character. He stresses the contemporary tendency to early radical surgical re-
moval of the foci of caseous necrosis and the importance of applying antibiotics as
early as possible and for a prolonged period. (IX, 13)

KLEBANOWSKI, Jerzy; KALINSKA, Melania; SLOMSKA, Irena; ZASADA, Danuta

Treatment of early tuberculosis of large joints in children by means of antibiotics applied topically. Chir.narz.ruchu 25 no.2: 161-165 '60.

1. Z Sanatorium im. J. Krasickiego w Otwocku. Ordynator: dr J. Klebanowski.

(TUBERCULOSIS OSTEOARTICULAR in inf.& child.)

KLEBANOWSKI, Jerzy

Results of conservative therapy of tuberculous synovitis of the hip
in children. Gruslica 29 no.6:555-559 Je '61.

1. Z Sanatorium Gruslicy Kostno-Stawowej im. J. Krasickiego w Otwocku
Dyrektor: dr med. J. Sowinski.

(TUBERCULOSIS OSTEOARTICULAR ther)

KLEBANOWSKI, Jerzy; SLOMSKA, Irena; KALINSKA, Helena

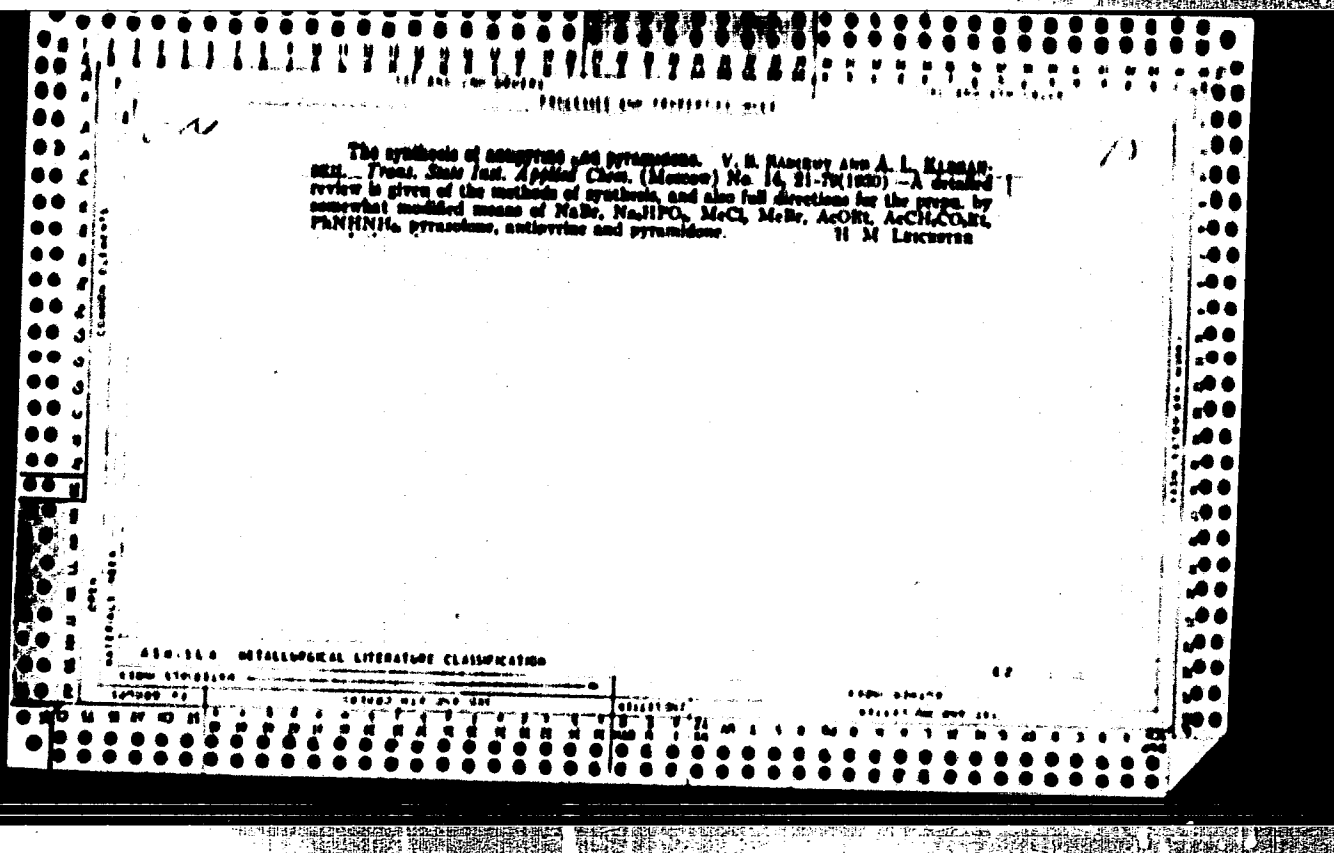
Is it possible to prevent rheumatoid deformities using correct
interventions in gonitis? Chir. narzad. ruchu ortop. Pol.
28 no.7:709-710 '63

1. Z Sanatorium Gruziy Kostno-Stawowej dla Dzieci im.
J. Krasickiego w Otwocku.

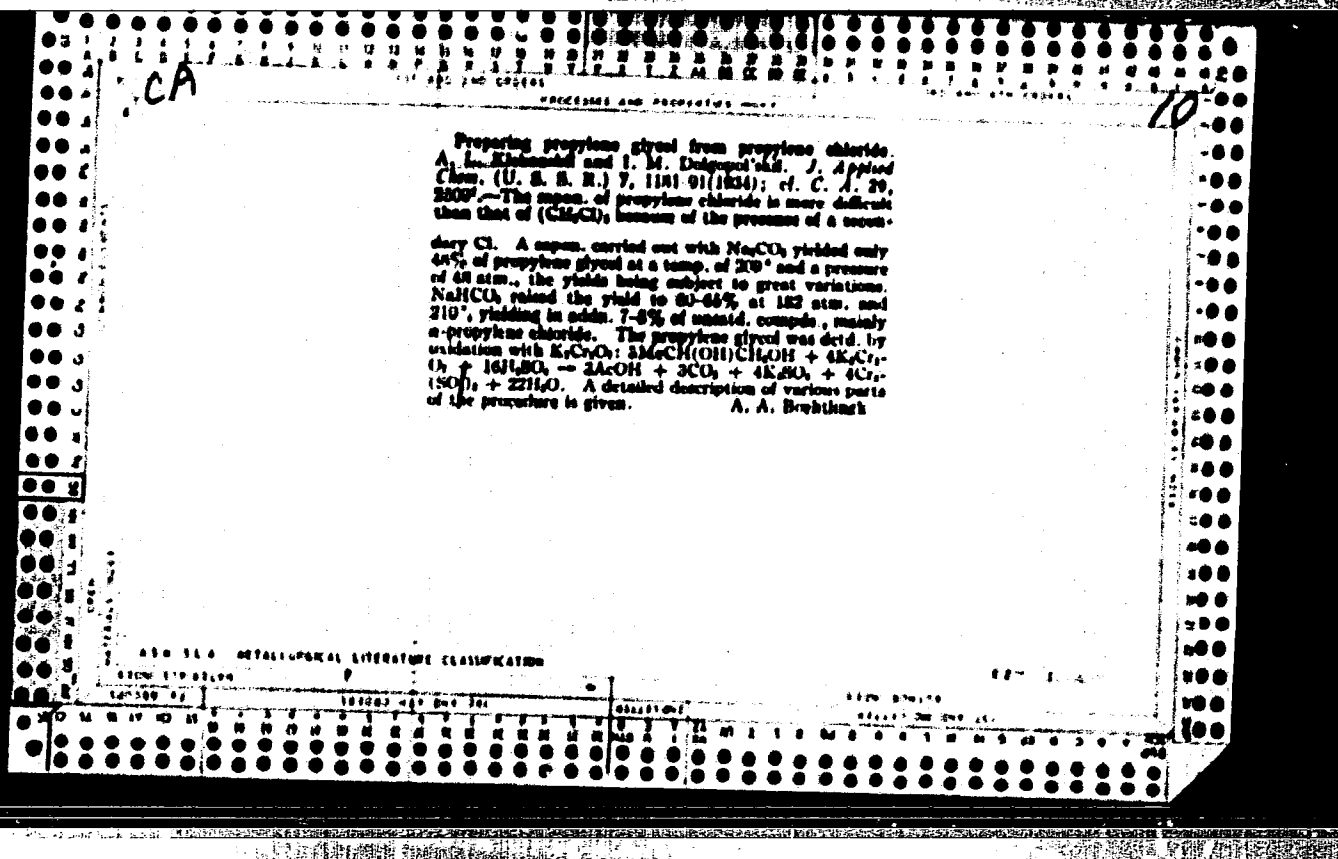
LAZOWSKI, Zygmunt; KLEBANOWSKI, Jerzy; POLAKOWA, Irena

Chronic progressive rheumatism originating in a single joint
treated as osteoarticular tuberculosis in children. Pediat.
Pol. 39 no.12:1337-1346 D '64

1. Z Kliniki Pediatricznej Studium Doskonalenia Lekarzy
Akademii Medycznej w Warszawie (Kierownik: prof. dr.med.
E. Wilkosszewski); z Instytutu Reumatologicznego w Warszawie
(Dyrektor: dr. med. W. Bruhl) i z Sanatorium Gruslicy Kostno-
Strawowej im. J. Krasickiego w Otwocku (Dyrektor: dr. med.
J. Sowinski).



CO 10 Preparing ethylene glycol from dichloroethane. A. L. Kitchin and I. M. Doherty. <i>J. Applied Chem.</i> (U. S. N. R.) 7, 799-806 (1954).—In the prep. of $(C_2H_4Cl)_2$ with Na_2CO_3, 82.7% ethylene glycol was obtained when using a mixt. of 250 g. $C_2H_4Cl_2$ and 250 g. Na_2CO_3 which was heated to 150° for 4 hrs. at a max. pressure of 45 atm. in a rotating autoclave. The prep. with $NaHCO_3$ yielded 82.5% glycol at a pressure of 45 atm. and a temp. of 150° for 48 hrs. The use of solvents such as ortho-toluenesulfonic acid, Na chloride, $Me_2C_2H_5ONa$ and Na stearate did not show any advantage. The ethylene glycol yield was highest (under semi-com. conditions) when working at $175-200^\circ$ and at least 100 atm. pressure; it then amounted to 87-90%, the balance constituting vinyl chloride which was absorbed in xylene. A detailed description of the process is presented. A. A. B	
ADDITIONAL LITERATURE CLASSIFICATION	
FROM SOURCE	
COLLECTION	
REMARKS	



CA 10

Hydrolysis of stannic chloride. A. L. Kishinevskii and I. M. Dubovskii. Russ. 42,071, 1958, 31, 1958. Stannic chloride is hydrolyzed continuously by means of Na_2CO_3 or NaHCO_3 in tube stills at 170-200° at a pressure of at least 75 atm., which is built up either by heating or by pumping CO_2 or other inert gas.

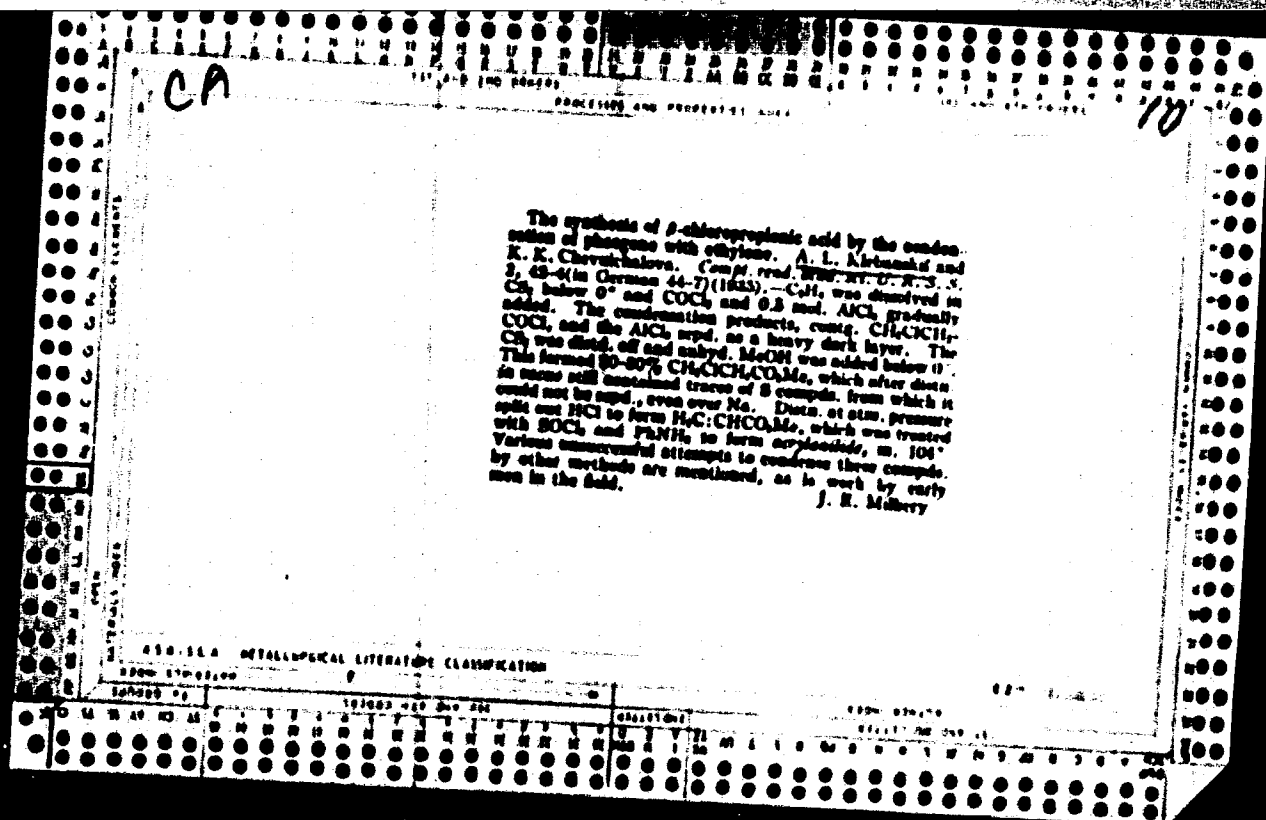
ASB-ILA METALLURGICAL LITERATURE CLASSIFICATION

FROM STATION

100000-110000

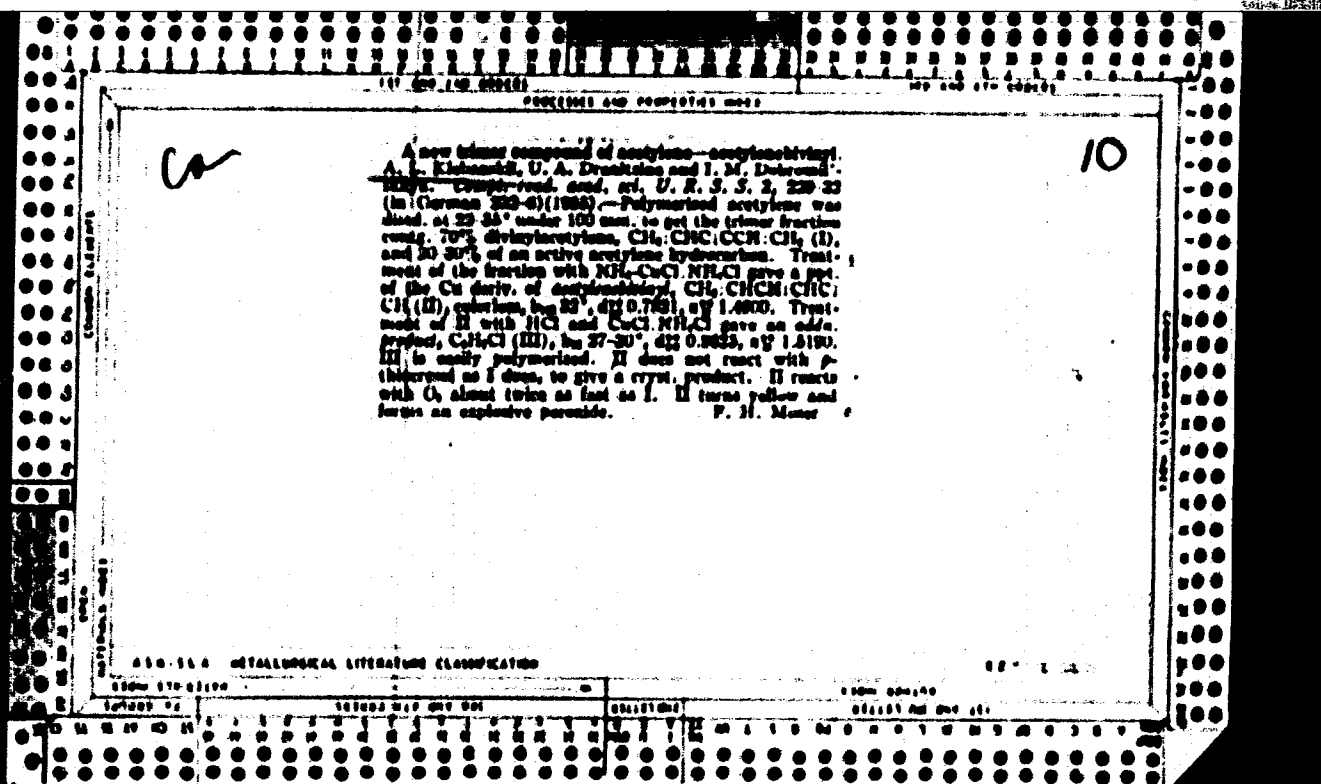
COLLECTION

100000-110000



Chloroprene synthetic rubber (Soyprene). A. Kishimoto, L. O. Teyurikh and I. M. Dolgoploski, *Russ. Acad. Sci. U. S. S. R.* 1955, No. 2, 129-133; *J. Russian Assoc. Res. Rubber Mfrs.* 4, 305-6 (1955).—In the continuous polymerization of C_4H_6 in a weakly acid soln. of $CoCl_2 \cdot 6H_2O$ as catalyst, the product contains 75-80% of $HC(C_2H_4)_2$ (I) and 20-25% of the trimer (II) and higher polymers. The yield, calcd. on the C_4H_6 , is about 100%, and a single passage of the gas converts about 60% of the C_4H_6 . The optimum condition of the catalyst, the mechanism of the reaction and the main factors which affect this polymerization are discussed, and a method of prep. and absorption of the gas by solvents is described. A discontinuous method of synthesizing chloroprene (III), and methods for its continuous prep. from pure I and from solns. of I with $CoCl_2$ are also described. The polymerization of III to the α -polymer (IV) is then discussed, with particular reference to the conditions which hinder the formation of higher, latex-like polymers. A study was made of the combination and oxidation of polymers of III, the first method being applied to IV, to the μ -polymer and to the α -polymer. The chief product is succinic acid. The compn. of II is discussed and the phys. and chem. properties of the previously unknown acetylenediene, $H_2C \cdot CHCH \cdot CHC \cdot CH$, the formation of which accompanies that of the living I, are described. Data are also given on the action of alk. $NaOH$ on 2,4-

30
dichloro-2-butene (V), in which reaction 2-chloro-3-butene ethyl ether is formed. Similar methods are described for the synthesis of chlorobutanol and of dichlorobutanol ether from chlorobutanol and V are described. In this reaction 2-chlorobutene-2-ol synthol is also formed. A series of new syntheses from I is described, including a new synthesis of α, β -dichlorobutadiene. The structure of the product and the method of polymerization are discussed, as well as the function of aliphatic org. acids by I in the presence of $HgCl_2$ or a mixt. of $HgCl_2$ and BF_3 , with formation of esters of 2-hydroxy-1,3-butadiene. The method of synthesis and the structures of the formates and acetates of 2-hydroxy-1,3-butadiene, and of the condensation products with malic anhydride, and of their hydration products, are described. The combinations of $NaOH$ and of $MeOH$ with I in the presence of alk. air are described. In these reactions 1-methoxy-3,4-butadiene and 2-methoxy-1,3-butadiene are formed. The function of $MeOH$ by I in the presence of $HgCl_2$ or $BF_3 \cdot Et_2O$, and the hydrogenation of I to butadiene are described. Finally the formation of styrene by the polymerization of I is discussed. C. C. Davis



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The reaction of the combination of organic acids with monovinylacetylene to form butadiene esters. A. I. Kabanov and E. K. Chernoborn. *Izv. Akad. Nauk SSSR, No. 4, 8 19(1955)*.—Monovinylacetylene fumarate was prepd. by admitting into a flask with agitation and reflux, and contg. 47% of H_2O , H_2O_2 , and $HClO_4$, monovinylacetylene (I) from a dropping funnel. The yield of the ester (II) exceeded 64% after 4 hrs. Kpts. carried out with $ZnCl_2$, $CoCl_2$, $FeCl_3$, ZnO , CuO and $CuCl_2 \cdot (H_2O)_2$ as catalysts were unsatisfactory. II had the formula $C_8H_8O_4$. Various tests of the II are reported. The reaction carried out with $AcOH$ and I under similar conditions yielded only 31% of the corresponding ester (acetylenepene), of the formula $C_8H_8O_2$. According to various tests the product of the reaction of $HClO_4$ with I is 2-acetylen-1,3-butadiene (III) and that of $AcOH$ with monovinylacetylene is 2-acetylen-1,3-butadiene (IV). Both III and IV form rubber-like polymers, the polymerization velocity of III exceeding that of IV. The process is described, and 10 references are appended. A. A. Borzhilov

AD-556 METALLURGICAL LITERATURE CLASSIFICATION

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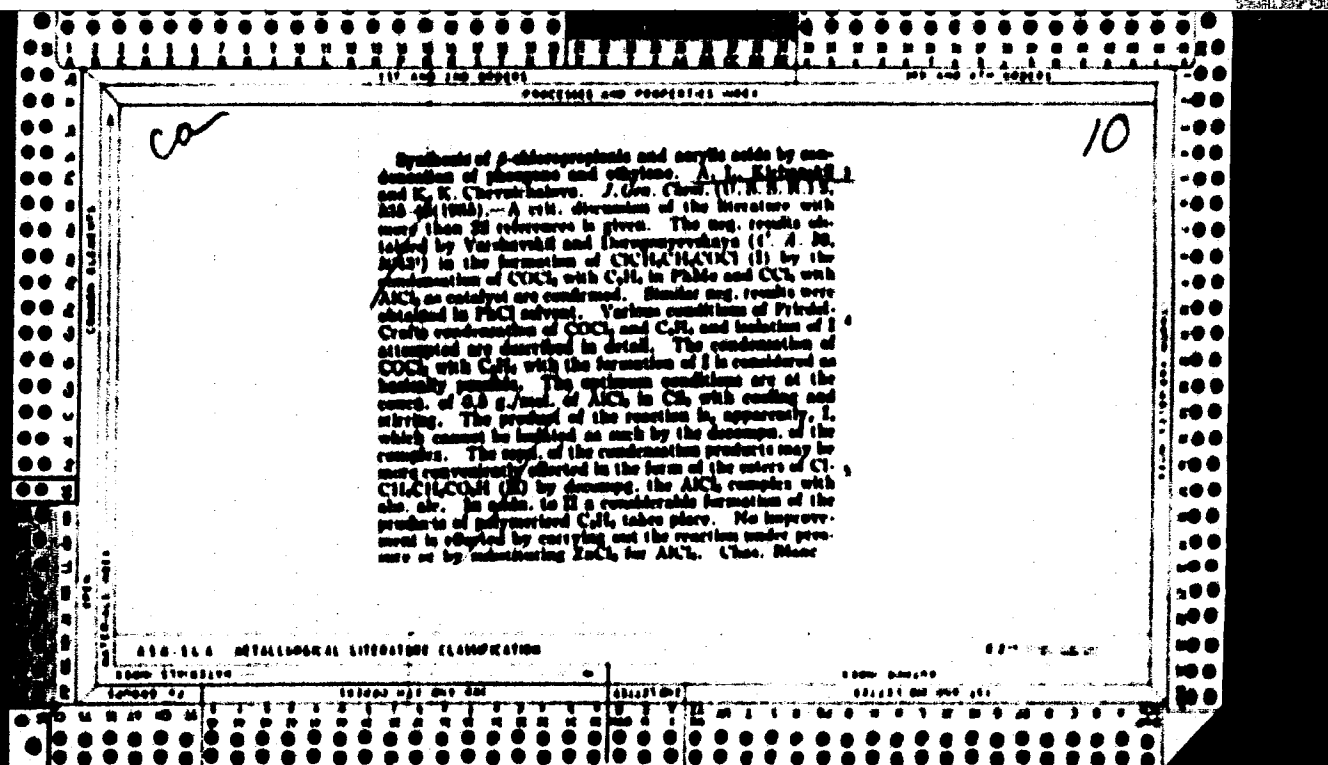
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The synthesis of the derivatives from 2,4-dichloro-2-butene. The use of by-products from the synthesis of chloroprene. A. L. Kabanov and K. K. Chervinskaya. *Soviet Chemistry* 1955, 33, 10 21. (1) 2,4-dichloro-2-butene (I) was treated with a 15% excess of 24-20% alc. KOH, by stirring for 4 hrs. on a water bath (50-70°). The product of reaction was used from oils and fractionated in vacuo and was collected at 62-64° at 60 mm.; it had the following const.: d₂₀ 0.7820, n_D 1.4362, mod. refraction 20.10, C 36.07%, H 4.04%, Cl 59.81%, (I) 11.78, HCl no. 90.70% of theoretical value, formula C₄H₆Cl₂ (Hl ether of 2-chloro-2-butene-4-ol); it did not polymerize. (2) I was treated with 15% excess of 18-20% Na₂CO₃ by stirring for 2 hrs. on a boiling water bath. The product of reaction in a china ale. (chlorobutene) (II); it was dried at 90-110° (yield 70-80%), and bp 62°. d₂₀ 1.110, n_D 1.406, mod. refraction 20.64, C 38.8%, H 4.85%, Cl 56.35%, (I) 6.47%, O 18.8%, formula C₄H₆Cl₂; it did not polymerize. (3) To establish the alc. group in II a santonate was obtained by adding the theoretical amt. of KOH to the II with stirring for 30 min. and heating on a water bath. KOH was in a suspension with the addn. of a 20% excess of CH₃, a crystal.

ppt. of santonate was formed; the latter was dried in alc. at const. temp. of 25-30°. The reaction proceeded as follows: CH₃COCH=CHCl + KOH + CH₃COCH=CHCl + H₂O. The resulting santonate was not in water and alc.; it contained C 17.6%, H 21.20%, at 142° it changed from yellow to a darker color; it can be used for distillation (equals the K₂CO₃ santonate). (4) The water soln. of KOH (15% in excess) was treated with II, heated on a water bath, and I was gradually added with stirring. The reaction was completed in 4 hrs. The product of reaction was washed with water, dried over CaCl₂ and dried in vacuo (yield 70-80%). The const. of the resulting dichlorobutene ether were bp 142°, C 38.8%, d₂₀ 1.171, n_D 1.406, mod. refraction 20.11, formula C₄H₆Cl₂. The product did not polymerize. (5) I was passed through a china pipe over silica gel at 245-250°, over Glukhovskaya clay at 260-280° and 280-300° and over molten KOH at 265-280°. In all cases chloroprene was obtained (yield 17-24%), with the following const.: bp 26°, d₂₀ 0.9378, n_D 1.4870.

A. Petrov

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THE CONDITIONS AND METHODS FOR THE PREPARATION OF
 GYCOL TRICHLORHYDRIN FROM PROPYLENE CHLORIDE. A. A.
 BARKHANG and A. S. VETTER. *J. Applied Chem.*
 (U.S.A.) 10: 100-101 (1958). — In checking various known
 methods for the prep. of glycol trichlorohydrin by
 substituting propylene chloride in the presence and absence
 of various catalysts a very complex mixt. of various prod-
 ucts was obtained. 1,1,2-trichloropropane is obtained, while
 trichlorohydrin is obtained in a very contaminated state
 and in small quantities. In the splitting of HCl from pro-
 pylene chloride by means of catalysts and bases α -chloro-
 propene and propylene are obtained. *Matron reference.*
 A. A. Barkhang

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PROCEDURES AND PROPERTIES INDEX

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Antipyrine and pyrazolone synthesis. H. A. L. Kibben and A. L. Lombo. J. Applied Chem. 10: 8, 2, 7, 8, 222-74 (1936); cf. C. A. 34, 1931.—Antipyrine is prepd. by admitting 100 g. pyrazolone and 100 cc. F.H.M. into a glass or enameled metal flask equipped with a reflux condenser and a stirrer with packing. The mixt. is heated on an oil bath to 180° and 57 g. of freshly prepd. Na_2SO_3 is then admitted drop by drop with steady and vigorous agitation. The heating is continued after the admission of the entire Na_2SO_3 for 4-5 hrs. (at 180°). After cooling, the upper layer, which consists mainly of F.H.M., is discharged for regeneration, while the lower layer is mixed with 100 cc. H_2O , followed by heating with agitation to 80° and 50-100 cc. of 40% NaOH is then admitted, maintaining the above temp. After another 30-min. agitation 200 cc. of C_2H_5 is admitted and agitated and heating to 80° is continued for 1 hr. The upper layer contains the C_2H_5 soln. of antipyrine, while from the lower NaOH layer antipyrine is extd. with C_2H_5 . The combined C_2H_5 solns. of antipyrine are dried over K_2CO_3 , the C_2H_5 distd. off on the water bath and finally in vacuo. The crystals obtained, m. 108.5-10.8°, can be used either for the prepn. of pyrazolone or they must be recrystd. from H_2O with 5% animal C to comply with the pharmacopoeia. The C_2H_5 residues are treated with HCl , the antipyrine going into the HCl soln., which is then treated with animal C, filtered, made alk. with 40% NaOH , etc. The total yield is 82-85%.

Pyrazolone is prepd. by dissolving 80 parts of antipyrine in 400-450 parts H_2O and 73-75 cc. 14.5% HCl , then adding slowly and after cooling 46.7 g. NaNO_2 (45%) dissd. with an equal amt. of H_2O . To the soln. is added 200 cc. NaHSO_3 (40-45%), the mixt. is boiled and simultaneously blown with air for the removal of SO_2 , cooled, and treated, while cold, with 100 cc. of concd. HCl . After standing for 24 hrs. white crystals of antipyrinopyrazolone are prod. which are filtered, washed with H_2O , converted into the Na salt, followed by a treatment of the aq. suspension in 100 cc. H_2O with a 10% soln. of caustic till neutral. The aq. soln. is slowly introduced (2-4 hrs.) into a boiling mixt. of 60 cc. NaCO_3H (0.5 g. per l.) and 54 cc. formic acid (0.20 g. per l.) and heated on a water bath for 14 hrs. The excess of NaCO_3H and NaCO_3H can be distd. off or the product can be treated with strong alkali directly with cooling. The solid crystals are removed and the soln. is treated while cold with C_2H_5 , and the crystals are also removed in the C_2H_5 soln. and dried over K_2CO_3 . The C_2H_5 is evaporated and the crystals are collected from gasoline and then from F.H.M. The pyrazolone yield is 75-80% and it complies with the requirements of the pharmacopoeia. A. A. B.

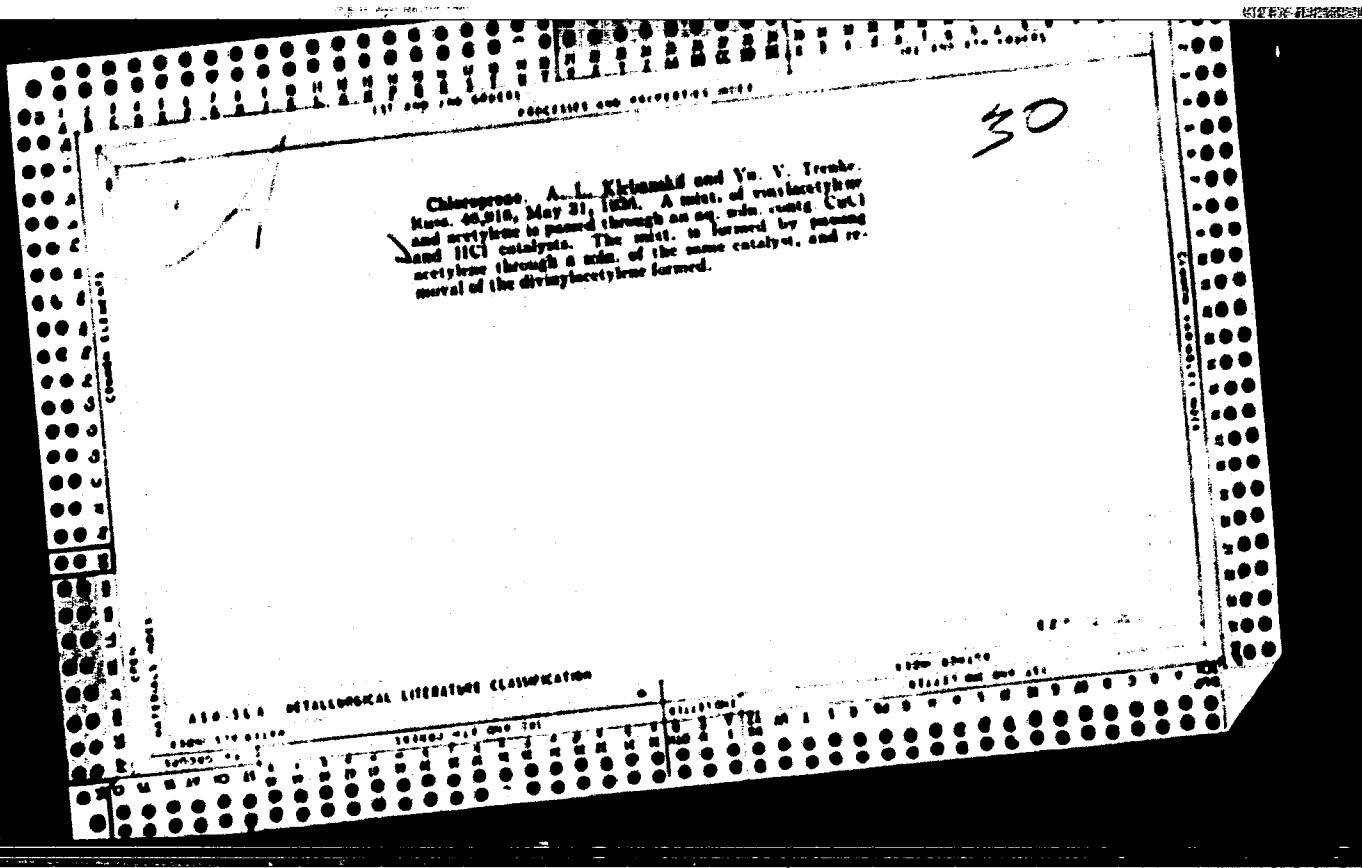
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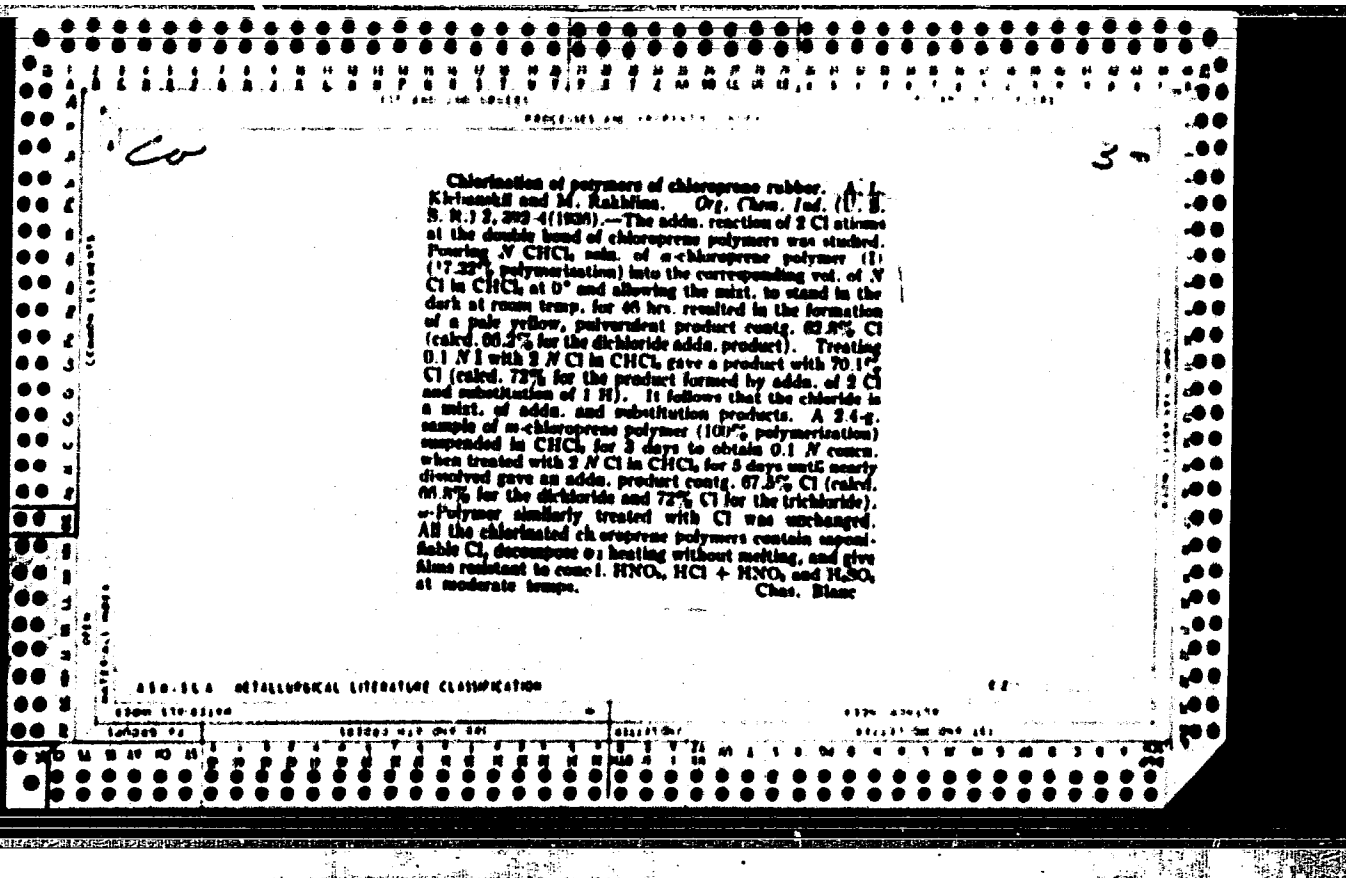
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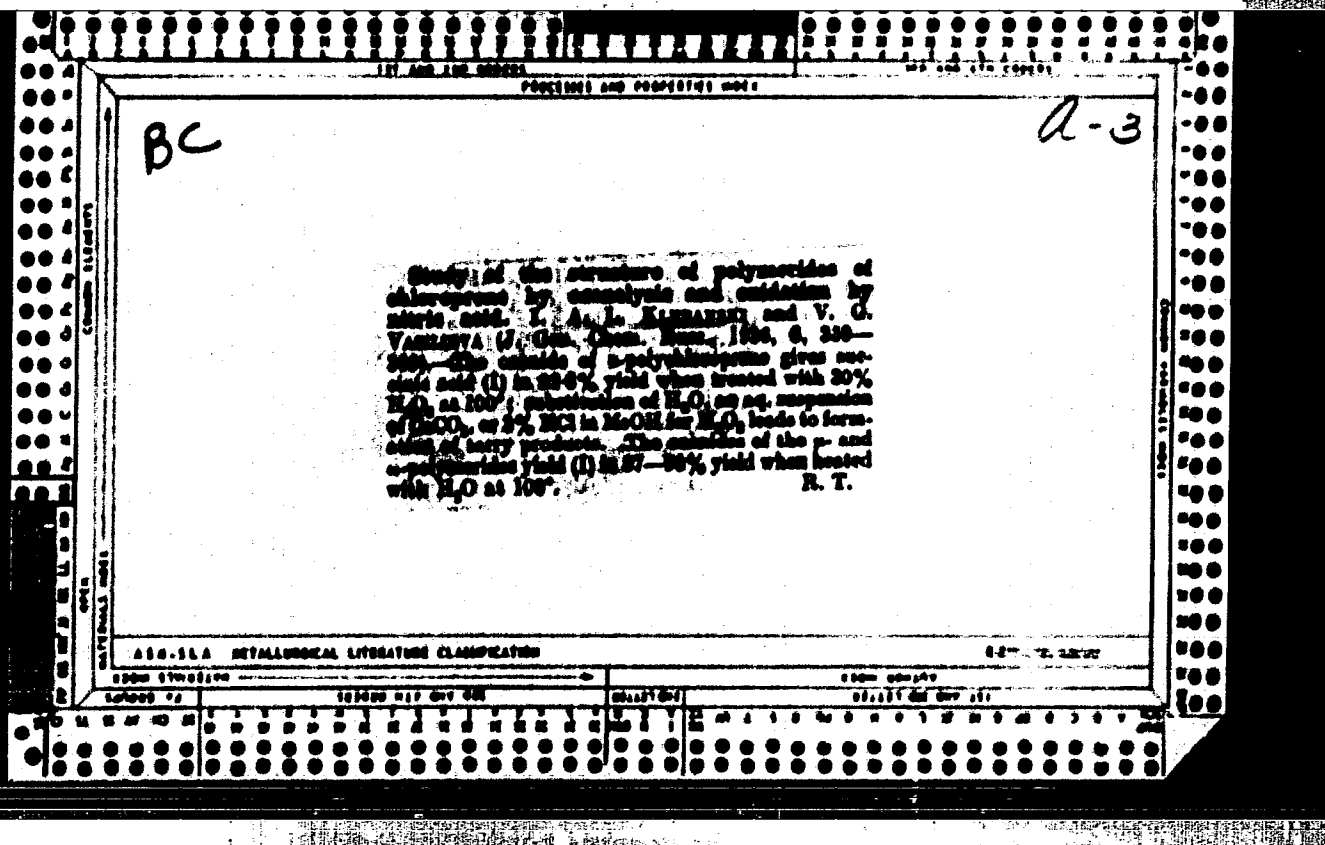
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Method of technical control of the gas mixture obtained in the manufacture of Sorprene synthetic rubber. Analysis of the ternary mixture acetylene, vinylacetylene and divinylacetylene. A. L. Kabanov and I. M. Khramov. Zh. tekh. fiz. (U.S.S.R.) 1960, No. 9, 1216. Eighty % H_2 , about vinylacetylene and divinylacetylene (1) from the gas mixt., leaving C_2H_2 . The gas mixt. is dild. with an equal proportion of inert gas and the whole mixt. is shaken with alk. $Hg(CN)_2$, which leaves 1. The time of analysis is 1-1.5 hr. A. Protod

ASD-554 METALLURGICAL LITERATURE CLASSIFICATION

TITLE AND SUB-TITLE		AUTHOR(S) AND PROPERTY(S) NO(S)		DATE	
BC				2-3	
Elimination of hydrogen chloride from <i>trans</i>-1,2-dichloro-4,4-dimethyl-2-butene. H. A. L. KLEIMAN, E. K. TCHERNYCHALOVA, and A. P. BILIMIRSKAYA (J. Appl. Chem., Russ., 1959, 9, 1985-1986). Chloroprene is obtained in 65-75% yield by passing $\text{CH}_3\text{C}(\text{CH}_3)\text{CH}=\text{CH}_2\text{Cl}$ (I) over CuCl, on Cu turnings at 300-400°, or by passing 1:1 steam-(I) mixture over Cu, also at 300-400°. The inactivated catalysts are regenerated by heating in air at 500-600° for 3-4 hr. R. T.					
ASAC-124 METALLOGICAL LITERATURE CLASSIFICATION					
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