

ATYAKIN, A.K.

Core drilling tool for the air-tight sealing of a core. Biul.
nauch.-tekh.inform VIMS no.1:95-97 '63.

(MIRA 18:2)

ATYAKINA, I.K., assistant

On the composite effect on the organism of small concentrations of sulfur dioxide in the presence of high air temperature. Gig. i san. 24 no.10:26-32 '59. (MIRA 13:1)

1. In kafedry obshchey giginey I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(SULFUR off. inj.)
(HEAT off.)

ATYAKINA, I.K., Cand Med Sci --(diss) "On the effect on the organism of
small concentrations of sulfur fumes and high air temperature," Moscow,
1960, 13 pp (Central Institute for Advanced Training of Doctors) (KL, 36-60, 117)

BLAGONRAVOVA, A.A.; PRONINA, I.A.; TARTAKOVSKAYA, A.M.; ATRYASINA, V.P.

Polyisocyanates suitable for the manufacture of protective
coatings with increased lightfastness. Lakokras.mat. i ikh
prim. no.2:3-6 '64. (MIRA 17:4)

ATYASOV, N.I.

Acute enlargement and spontaneous rupture of the stomach. Khirurgiia no.10:
82-83 0'53. (MLBA 6:11)

1. Iz khirurgicheskogo otdeleniya Vyksunskoy gorodskoy bol'nitsy (zavednyu-
shchiy - zasluzhennyi vrach respubliki A.R. Ratyuk). (Stomach--Diseases)

ATYASOV, N. I.

ATYASOV, N.I.

Penetrating wound of the right auricle of the heart. Khirurgiia
no.5:70 № '54. (MLRA 7:7)

1. Iz khirurgicheskogo otdeleniya Vyksunskoy gorodskoy bol'nitsy
Gor'kovskoy oblasti.

(HEART, sounds and injuries,
*right auricle)

(WOUNDS AND INJURIES,
*heart, right auricle)

ATYASOV, N.I.

Intra-osteal local anesthesia and intra-osteal injection of antibiotics in surgery of the extremities. Khirurgia no.2:47-51 F '55.
(MIRA 8:5)

1. Vysnuskaya rayonnaya bol'nitsa Arsamasskoy oblasti (glavnyy vrach zasluzhennyy vrach respubliki A.R.Ra'yuk).

(EXTREMITIES, surgery,

anesth., intra-osteal local, & intra-osteal admin. of antibiotics in)

(ANTIBIOTICS, administration,

intra-osteal, in surg. of extremities)

(ANESTHESIA, LOCAL,

intra-osteal, in surg. of extremities)

ATTASOV, N.I.; FINKEL'SON, Ye.I.; ULANOV, V.I.

Our achievements in prevention of agricultural accidents. Fel'd. i
akush. no.3:46-48 Nr '55. (MIRA 8:5)

1. Student V kursa Gor'kovskogo meditsinskogo instituta (for
Finkel'son, Ulanov).
(WOUNDS AND INJURIES,
in agriculture, prev.)

ATYASOV, N.I. (Vyksa)

Result of surgical treatment of gastric and duodenal ulcer at
a district hospital. Klin.med.33 no.8:42-47 Ag '55 (MLRA 8:11)

1. Iz Vyksunskoy bol'nitsy Arzamasskoy oblasti (glavnyy vrach -
zasluzhennyy vrach RSFSR A.R.Ratyuk)
(PEPTIC ULCER, surgery,
hosp. statist.)

EXCERPTA MEDICA Sec.9 Vol.11/5 Surgery May 1957
ATYASOV, N.I.
2552. ATYASOV N.I. Reg. Hosp. Wyksa, Arsamas Region. *Gastric strangulation in epigastric hernia (Russian text) VESTN.KHIR. 1955, 75/1 (61)
Report of a patient aged 46, who was admitted in a very severe condition with the diagnosis of high ileus. After abolition of the shock, operation was immediately carried out. A hernial pouch, the size of a fist, was found, in which the anterior wall of the stomach was strangulated. The patient was cured.

ATYASOV, N.I. Arzamasskaia oblast', g. Vyksa, ul.Krasnye Zori,d.13,kv.4.

Three years of practice in using intraosseous local anesthesia
in a district hospital. Vest.khir. 75 no.5:51-55 Je '55.(MLBA 8:10)

1. In Vyksunskoy bol'nitsy Arzamasskoy oblasti (glavnyy vrach-
sasl. vrach RSFSR A.R. Ratyuk)
(ANESTHESIA, LOCAL,
intraosseous)

ATYASOV, N.I.

Ten years of intra-osseous anesthesia. Ortop.travm. i protez. 17 no.6:
71-74 N-D '56. (MLRA 10:2)

1. Iz Vyksunskoy bol'nitsy Arzamaszkoy oblasti (glavnyy vrach -
zasluzhennyy vrach RSFSR A.R.Ratyuk [deceased])
(ANESTHESIA
intraosseous, review)

ATYASOV, N. I.

Use of intrasosseous novocaine anesthesia in ambulatory surgery.
[with summary in English, p.159] Vest.khir. 77 no.6:76-81 Je '56.

(MLRA 9:8)

1. Is Vyksunskoy rayonnoy bol'nitsy Arzhanasskoy oblasti (gl. vrach-zasl. vrach RSFSR A.Ratyuk). Vyksa, Arzhanasskoy obl., ul. Krasnykh Zor', d. 13 kv. 4.

(PROCAINE, anesthesia and analgesia,
intra-osseous in ambulatory surg. (Rus))

ATYASOV, N. I. Cand Med Sci -- (diss) "~~The~~ Application of Intra-
Osseous Anesthesia to Ambulatory Surgery." ~~XXXX~~ Gor'kiy, 1957.
16 pp 20 cm. ~~XX~~ (Gor'kiy Medical Inst im S. M. Kirov), 200 copies
(KL, 25-57, 117)

~~119~~
20

121

COUNTRY : USSR
CATEGORY : Pharmacology, Toxicology. Toxicology ✓
REF. NUM. : ZhBiol., No. 12 1958, No. 55880
AUTHOR : Atyasov, N.I.
INST. : -
TITLE : The Use of Intraosseous Local Novocaine Block in Snake Bite
ORIG. PUB. : Sov. Meditsina, 1957, No.4, 116-118
ABSTRACT : 5 cases are described of snake bites of the legs in which, after performing intraosseous local novocaine-adrenalin block, there was a progressive general improvement in the patients' condition, terminating in cure. -- B.A.Katsnel'son

Card: 1/1

ATYASOV, N.I.; PARIN, B.V., red.

[Using intraosseous anesthesia in ambulatory surgery] Primenenie
vnutrikostnoi anestezii v ambulatornoi khirurgii, pod red. B.V.
Parina. Gor'kiy, 1958. 182 p. (MIRA 12:4)
(ANESTHESIA)

ATYASOV, N.I.

Present state of the problem of intra-osseous infusion of blood, plasma substitutes, and drugs. Probl.gemat. i perel.krovi 3 no.1: 48-54 Ja-F '58. (MIRA 11:3)

1. Iz Vyksunskoy rayonnoy bol'nitsy (glavnyy vrach - sasluzhennyy vrach RSFSR A.R.Ratyuk [deceased]) Arxanasskoy oblasti.

(BLOOD TRANSFUSION,

intra-osseous, review (Rus))

(PLASMA SUBSTITUTES, administration,

same)

(INFUSIONS, PARENTERAL,

same)

EXCERPTA MEDICA Sec 9 Vol 13/7 Surgery July 59

3659. A FIVE-YEAR EXPERIENCE OF INTRAOSSEOUS ANAESTHESIA IN AN
OUT-PATIENT DEPARTMENT (Russian text) - Atyasov N. I. - KHI-
RURGIYA 1958, 6 (94-98)

Intraosseous anaesthesia was used in 618 patients, aged from 1 to 83 yr. These
were 110 patients with panaritias, 60 with phlegmons and 35 with abscesses. It was
also administered in reposition of bones in 75 patients with closed fractures, in
24 with compound fractures, in 11 for reduction of dislocations, in 176 for surgic-
al treatment of wounds, etc. Anaesthesia was successful in 94.5% of patients,
satisfactory in 3.3%, unsatisfactory in 2.2%.

ATYASOV, N.I.

Intraosseous anesthesia in suppurative-inflammatory diseases of the extremities of outpatient practice. *Sov.med.* 22 no.7:126-129
Jl '58 (MIRA 11:10)

1. Iz Vyksunskoy bol'nitsy Arzamasskoy oblasti (glavnyy vrach—
zasluzhennyy vrach RSFSR A.R. Ratyuk [deceased]).

(EXTREMITIES, dis.)

purulent inflamm., intraosseous anesth. in outpatient
practice (Rus))

(ANESTHESIA, local

intraosseous in ther. of purulent inflamm. of extremities
in outpatient practice (Rus))

ATYASOV, N.I.; GOSTEV, G.S.

Treatment of obliterating endarteritis with intraosseous novocaine block in combination with X-ray therapy. Vest. rent. 1 rad. 33 no.6: 75-76 N-0 '58. (MIRA 12:1)

1. Iz Vyksunskoy bol'nitsy Gor'kovskoy oblasti (glavnyy vrach - zaslushenny vrach ESFSR A.R. Ratyuk [deceased].

(THROMBOANGIITIS OBLITERANS, ther.

intraosseous procaine block, with x-ray ther. (Rus))

(RADIOTHERAPY, in various dis.

thromboangiitis obliterans, with intraosseous procaine block (Rus))

(ANESTHESIA, REGIONAL, in various dis.

thromboangiitis obliterans, intraosseous procaine block, with x-ray ther. (Rus))

ATYASOV, N. I.

Five years' experience with intraosseous anesthesia in an outpatient department [with summary in English]. Khirurgia 34 no.6:94-98
Je '58 (MIRA 11:8)

1. Iz Vyksunskoy rayonnoy bol'nitsy Gor'kovskoy oblasti (glavnyy vrach zaslyzhennyy vrach RSFSR A.R. Ratyuk) i Gor'kovskogo nauchno-issledovatel'skogo instituta ortopedii i travmatologii (dir. - dots. M.G. Grigor'yev).

(ANESTHESIA,

intraosseous admin. in various cond., use outpatient department (Rus))

ATYASOV, Nikolay Ivanovich; PARIN, B.V., red.

[Intraosseous jet instillations] Struinye vnutrikostnye
vlivania. Gor'kii, 1959. 130 p. (MIRA 13:11)
(INJECTIONS)

ATYASOV, N.I.; DUBNEV, A.M.

Industrial accidents in the Syava Lumber Trust in the Gorkiy
Economic Region, based on material from a sector hospital.
Ortop., travm. i protez. 20 no.5:58 My '59. (MIRA 12:9)

1. Iz Syavskoy uchastkovoy bol'nitsy Shakhunskogo rayona,
Gor'kovskoy oblasti.

(SYAVA DISTRICT--INDUSTRIAL ACCIDENTS)

ATYASOV, N.I., starshiy nauchnyy sotrudnik

Advantages of intraosseous anesthesia in fractures of the radius
in ambulatory patients. Ortop.travm.i protes. 20 no.8:42-44 Ag '59.
(MIRA 12:11)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo instituta travmatologii
i ortopedii (dir. - dotsent M.G. Grigor'yev).
(RADIUS, fracture & dislocation)
(ANESTHESIA, LOCAL)

ATYASOV, N.I., starshiy nauchnyy sotrudnik

Organization of medical care by stages in cases of accidents to
workers of the Syava lumber industry. Zdrav.Ros.Feder. 4 no.11:
17-21 '60. (MIRA 13:11)

1. Iz Gor'kovskogo nauchno-issledovatel'skogo instituta travmatologii
i ortopedii (dir. -- dotsent M.G.Grigor'yev)
(SYAVA--LUMBERMEN--MEDICAL CARE)
(INDUSTRIAL ACCIDENTS)

ATYASOV, N.I., starshiy nauchnyy sotrudnik

Intraosseous infusions in extensive burns. Ortop., travm. i
protez. 23 no.11:58-62 N '62. (MIRA 16:4)

1. Iz ozhogovogo otdeleniya Gor'kovskogo instituta travmatologii
i ortopedii (dir. - dotsent M.G.Grigor'yev). Adres avtorov:
Gor'kiy, naberezhnaya Zhdanova, d.18, Institut travmatologii i
ortopedii.

(BURNS AND SCALDS) (PARENTERAL THERAPY)

ATYASOV, N.I., starshiy nauchnyy sotrudnik

Anesthesia in removing foreign bodies from the hand and fingers
in outpatient treatment. Ortop., travm. i protez. 25 no.7:33-35
JI '64. (MIRA 18:8)

1. Iz Gor'kovskogo instituta travmatologii i ortopedii (dir. -
detsent M.G.Grigor'yev). Adres avtora: Gor'kiy, naberezhnaya
imeni Zhdanova, d. 18, Institut travmatologii i ortopedii.

ATYUKINA, G.D.

107-57-7-41/56

AUTHOR: Atyukina, G. (Moscow)

TITLE: Suppression of Peak Noise in TV Sets (Zashchita ot impul'snykh pomekh v

PERIODICAL: Radio, 1957, Nr 7, p 43 (USSR) televizorakh)

ABSTRACT: A noise-compensating circuit is described in which two 6N1P double triodes are used. One tube functions as a sync-pulse amplifier and a noise suppressor. The other tube functions as a limiter-amplifier and as a follow-up stage. A noise peak that may arrive in between the sync pulses is clipped, reversed in phase and combined with the original signal in such a way that it practically cancels itself. The circuit was tested in a high peak-noise area and showed good results.

There is one figure.

AVAILABLE: Library of Congress

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ATYUKINA, G.D.

Repair of band switches, Radio no.9:55 S '56.
(Radio--Repairing)

(MIRA 9:11)

I 47465-66 EMT(1)/T RO/JK
ACC NR: AP6014592 (A) SOURCE CODE: UR/0017/66/000/005/0026/0027

AUTHOR: Atyunin, N.

ORG: none

TITLE: Decontaminating apparatus

SOURCE: Voyennyye znaniya, no. 5, 1966, 26-27

TOPIC TAGS: nuclear decontamination, biologic decontamination, chemical decontamination, cw decontamination equipment

ABSTRACT: A self-contained car-borne apparatus has been designed and produced for degassing, disinfecting, and deactivating areas contaminated with agents of mass attack. It is intended for distributing special preparations warmed to 60--80C and propelled by a stream of water under 4--5 atm of pressure. A gas-liquid apparatus mounted on a standard car, as shown in Fig. 1, would adapt itself well to such operations. The process of decontamination is accomplished by utilizing the heat and kinetic energy of the exhaust gases and of water vapor, and the effect is improved by rubbing a contaminated surface with a waxed brush. The apparatus may also be used for sucking in contaminated dust by introducing minor equipment changes. It weighs about 14--16 kg, uses some 1.5 liters of liquid per sq meter, and 3--4 minutes are needed for mounting or dismounting. The list, dimensions, and functions of separate parts are included, and the operation is explained in some detail.

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B

L 47465-66

ACC NR: AP6014592

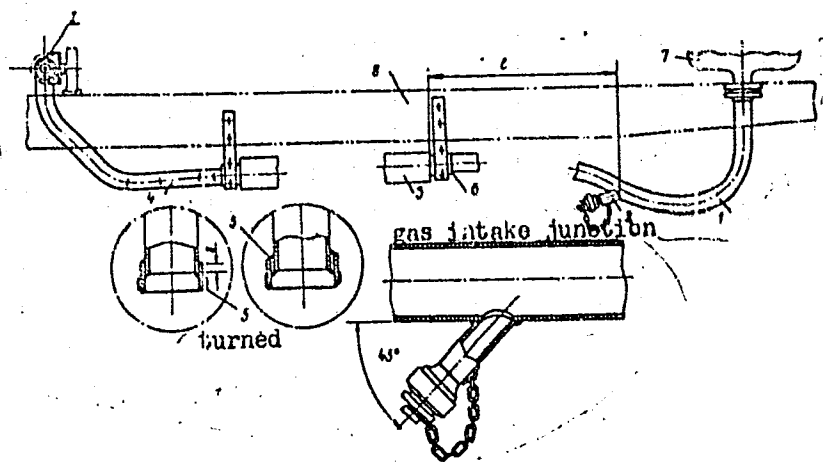


Fig. 1. Schematic drawing of motorcar mounted auxiliary equipment: 1 - receiving exhaust pipe; 2 - gas collecting nipple; 3 - muffler; 4 - outflow pipe; 5 - nipple; 6 - seal; 7 - engine; 8 - frame.

Orig. art. has: 5 figures.

SUB CODE: 06/ SUBM DATE: none

Card 2/2 *egk.*

ATYUR'YEVSKAYA, M.I.

Early history of the petroleum industry in Bashkiria. Trudy MINKHIGP
no.30:62-73 '59. (MIRA 14:5)

(Bashkiria--Oil fields)
(Bashkiria--Petroleum industry)

ATZEV, E. [Atsev, E.]

Changes in electric brain activity after local KCl application on epileptogenic focus in cats. Doklady BAN 17 no.3:307-310 '64.

1. Submitted by Academician G.Ouzounov [Uzunov, G.].

ATZEV, E.; AROUYUNOV, V.

Relations between neuronal discharges in somatosensory cortex
and secondary Forbes response in cats. Dokl. Bolg. akad. nauk.
18 no.3:271-274 '65

1. Submitted on November 10, 1964.

L 4357-66

ACC NR: AP5028786

SOURCE CODE: BU/0011/65/018/002/0191/0194

AUTHOR: Atzev, E.; Arbutyunov, V.

ORG: Group of Neurology and Psychiatry, Bulgarian Academy of Science; Institute of Physiology at the Georgian Academy of Science, Tbilisi

TITLE: Simultaneous macro- and micro-electrode investigations of certain epileptic manifestations in cats' somatosensory cortex

SOURCE: Bulgarska akademiya na naukite, v. 18, no. 2, 1965, 191-194

TOPIC TAGS: cerebral cortex, experiment animal, electroencephalography, neuron, neurology

ABSTRACT: [English article] The purpose of this investigation, which was part of a more detailed experimental work on relations between the somatosensory cortex global and neuronal activity, carried out at the Institute of Physiology at the Georgian Academy of Sciences under the guidance of its Director, Prof. S. P. Narikashvili, was to study certain relations between the slow electrocorticographical activity and neuronal discharges in the case of strychnine epileptogenic focus in cats' somatosensory cortex, on the basis of earlier simultaneous macro- and micro-electrode investigations by the authors and of data from literature (e.g., J. R. Atkinson, J. M. Macs, A. A. Wardt, *Electroenceph. clin. Neurophysiol.*, 13, 1961, 824; M. Sawa, N. Murjama, S. Kaji, *Electroenceph. clin. Neurophysiol.*, 15, 1963, 221). The

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L 4357-66

ACC NR: AP5028786

experiments were made on 15 cats under nembutal narcosis and systematic anasthosis of the painful surfaces with novocain. After describing the experimental method and presenting the results in the form of electrocorticograms (ECoG), the authors conclude that the relations between neuronal discharges and the electrocorticographic activity of the somatosensory cortex with local strychnine application can be explained only if one assumes that, on the one hand, in agreement with other authors (D. P. Purpura, Internat. Review of Neurobiology, 1, 1959, 47) ECoG is primarily a result of the integration of the postsynaptic potentials and, on the other, the neuronal discharges appear at a certain level of depolarization of the cellular membrane which also depends on the synaptic activity. The work was presented by G. Usunoff, Academician, 10 Nov. 64. Orig. art. has: 4 figures. [IPRS]

SUB CODE: IS / SUBM DATE: 10Nov64 / OTH REF: 011

KE
Card 2/2

1/1

BULGARIA

ATZEV, S. VASSILENKO, S., Cytopathological Laboratory, Institute of
Epidemiologic and Microbiologic Research

"The Development of Crystalline Inclusions in Nerve Cells During
Experimental Infection of Mice with Certain Enteroviruses"

Sofia, Doklady Bolgarskoy Akademii Nauk, Vol 19, No 3, 1966, pp 249-251

Abstract: [French article] The authors described earlier paralytic forms
in mice which were caused by infection with the virus Coxsackie A 11 and
ECHO 6. A comparison was made with experimental infection with
poliovirus types I and II. The present article describes (using several
photographs) two types of crystalline inclusions found in nerve cells.
This observation was made possible by cytologic and cytochemical methods
used by the authors and these are described in considerable detail. There
are 3 Bulgarian, 1 Soviet, and 2 Western references. (Manuscript received,
14 Dec 65.)

1/1

ATZEV, S.

On the cytochemical examination of ribonucleic acid in nuclear and cytoplasmic structures with pyronine G. Dokl. bolg. akad. nauk. 15 no.5: 535-538 '62.

1. Vorgelegt von Akademienmitglied A.I. Hadjioloff.
(RNA) (DYES) (CELL NUCLEUS) (PROTOPLASM)

ATZEV, S.

Photometric method for quantitative determination of ribonucleic acids in nuclear and cytoplasmic structures. Dokl. bolg. akad. nauk 15 no.6: 631-534 '62.

1. Vorgelegt von Akademiemitglied A. Hadzioloff.
(CELL NUCLEUS) (PROTOPLASM) (PYRONINE) (CARCINOMA ERLICH TUMOR)

0915 262

L 34506-66 T JK

ACC NR: AP6024754

SOURCE CODE: BU/0011/65/018/010/0963/0966

AUTHOR: Atzev, S.; Dobrev, I.

24
B

ORG: Cytopathological Laboratory, Institute of Epidemiological and Microbiological Research

TITLE: Morphological aspect of the toxic effect of the contamination of cell cultures by the type 14 adenovirus

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 10, 1965, 963-966

TOPIC TAGS: cytology, toxicology, virus, pathogenesis, morphology

ABSTRACT: The cytopathogenic effects caused by adenovirus are noticeable either during their reproduction or before reproduction by a so-called "toxic effect." The present paper reports in detail on the cytologic and cytochemical investigations of the dynamics of the embryonic human kidney cell modifications appearing during the proliferation of the type 14 adenovirus as well as those changes caused by the toxic effect. Observations were carried out 6, 12, 18, 48, 72, and 96 hours after contamination. The article concludes with a detailed discussion of the results which are, in general, in good agreement with the results of other authors. Orig. art. has: 4 figures. [Orig. art. in French.] [JPRS: 34,903]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 008

P/021/62/000/012/005/005
D289/D308

AUTHOR: Au, Andrzej, Master of Engineering

TITLE: The use of the nonsimultaneous short circuits to increase parameters of high-power testing stations

PERIODICAL: Przegląd Elektrotechniczny, no. 12, 1962, 521-524

TEXT: The author considers two cases of short circuits: without zero sequence currents and with zero sequence currents in a closed ground-neutral loop. Expressions for instantaneous currents are given. The analysis shows that for a system without zero sequence currents the maximum possible amplitude factor occurs when the angle at the instant of make of the 1st short circuited phase is 150 electrical degrees for a two-phase short circuit, and 240 electrical degrees for a three-phase short circuit. However, this varies depending on whether the making switch is on the primary or secondary side of the transformer. It was found that, for tests to check withstand against electromagnetic forces, in a system without zero sequence currents, the increase of peak current using non-

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The use of the ...

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D283/D308

simultaneous short circuits can attain 15%. Tests were also made with zero sequence current in a closed loop where the tested apparatus was placed in the neutral line. In this case the amplitude factor depends on the ratio $\frac{X_0}{X_1}$, as well as the angle at the instant of make. It is concluded that due to high values of γ for transformers this method has no practical significance. The author also deals with short circuit tests on transformers and illustrates the advantage of using nonsimultaneous short circuits for transformers in tests to withstand electromagnetic forces. The increase of peak current obtained with this method over simultaneous short circuit method is 18%. The amplitude factor k for tests on transformers can be obtained from the equation

V
K

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The use of the ...

P/021/62/000/012/005/005
D289/D308

$$1 + e^{-\frac{0.01}{X_T} \omega R_T} = \frac{1}{1+k} \left[1 + 0.5 e^{-\frac{0.0067}{\left(\frac{X_T}{\omega R_T} \frac{1+k}{1 + \frac{R_Z}{R_T}} \right)}} + 0.867 e^{-\frac{0.005}{\frac{X_T}{\omega R_T} \left(\frac{1+k}{1 + \frac{R_Z}{R_T}} \right)}} \right]$$

where $k = X_Z/X_T$; X_Z = supply reactance; X_T = transformer reactance;
 R_Z = supply resistance; R_T = transformer resistance. Curves are given for amplitude factors as a function of the impedance of tested apparatus and as a function of damping time constant. There are 7 figures.

ASSOCIATION: Katedra Przyrządów Rozdzielczych, Politechnika Warszawska (Department of Distribution Equipment, Warsaw Polytechnic)

Card 3/3

AU, Andrzej, mgr., inż.

Analysis of the possibilities for improving testing parameters of a laboratory of low voltages by using nonsimultaneous shor circuits. Przegl elektrotechn 38 no.2:77 '62.

USSR/Human and Animal Physiology. The Skin.

v

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27469.

Author : I.F. Prizhivoyt and T. Aubakirov
Inst : The Kirghiz State Medical Institute
Title : The Effect of Ultraviolet Irradiation on the
Epidermis Associated With Stimulation of the
Cerebral Cortex With Caffeine.

Orig Pub: Tr. Kirg. gos. med. in-ta, 1956, 8, 53-63.

Abstract: Rabbits were injected subcutaneously with 0.05
gm/kg of caffeine and sodium benzoate and the
skin of the back and of the inner surface of the
helix was irradiated (with a PRK-2 lamp from a
distance of 30 cm for a period of one to two
minutes). After six days the average thickness
of the epidermis minus the stratum corneum was

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USSR/Human and Animal Physiology. The Skin.

V

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27469.

measured, as well as the number of layers in the stratum germinativum and stratum granulosum. Fifteen minutes after irradiation of two parts of the left ear (control), the caffeine was injected into ten rabbits in a single dose, and symmetrical portions of the right ear were irradiated. When irradiation lasted one minute, the average epidermal thickness of the group before and after administration of caffeine did not change. With a two-minute irradiation the reaction increased by 19%. In the case of eight rabbits on daily caffeine, a one-minute irradiation increased the reaction by 29%, and a two-minute irradiation increased it by 47%. In twelve rabbits on daily caffeine, when the

Card : 2/3

AUBAKIROV, Zh.

Nikolai Mikhailovich Prsheval'skii; 65th anniversary of his death.
Vest.AN Kazakh. SER 10 no.11:43-45 11 '53. (MIRA 6:12)
(Prsheval'skii, Nikolai Mikhailovich, 1839-1888.)

AUBAKIROV, Z. D.

KONKASHBAYEV, G.; AUBAKIROV, Zh.

Brief Russian-Kazakh terminological dictionary of physical geography
[in Kazakh with summary in Russian]. Vest. AN Kazakh. SSR 14 no.3:
50-63 Mr '58. (MIRA 11:5)

(Physical geography--Dictionaries)
(Russian language--Dictionaries--Kazakh)

AUBAKIROV, Zhaksylyk Aubakirovich; SEMENOVA, N.I., kand.geograf.nauk,
otv.red.; POTAPOV, I.Ye., red.; ALFEROVA, P.F., tekhn.red.

[Alma-Ata Province; economic and geographical description]
Alma-Atinskaya oblast'; ekonomiko-geograficheskaya kharakteristika.
Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1959. 137 p.
(Alma-Ata--Economic conditions) (MIRA 12:8)

AUBAKIROVA, R.B.; KOZLOVSKAYA, Z.A.; POTOK, S.I.; SHISHALOV, V.A.

Antofagastite and botallackite from the oxidation zone of the
Dzhezkazgan deposit. Izv. AN Kazakh. SSR. Ser. geol. 21 no.5:
90-95 S-0 '64. (MIRA 18:5)

1. Institut geologicheskikh nauk im. K.I.Satpayeva AN KazSSR,
Alma-Ata.

AUBAKIROVA, V. R.; TROFIMENKO, A. T.

Study of the motion of a nonisothermal jet moving along a
hard surface. Inv. AN Kazakh. SSR. Ser. energ. no.2:55-62
1962. (MIRA 16:1)

(Fluid dynamics)

ALMANIYAZOV, Agibay Almasovich; AUBEKEROV, Tel'man Aubekerovich;
SPIVAK, F., red.; NAGIBIN, P., tekhn.red.

[Mustard in Kazakhstan] Gorchitsa v Kazakhstane. Alma-
Ata, Kazsel'khozgiz, 1963. 34 p. (MIRA 17:2)

AUBER, L.

"Standardization and Pharmacopoeias", P. 2, (SZANVANYOSITAS, Vol. 5,
No. 1/2, Jan./Feb. 1953, Budapest, Hungary)

SC: Monthly List of East European Accessions (EPAL), LC, Vol. 4, No. 3,
March 1955, Uncl.

SZEKELY, Jeno.; ANDRISKA, Jozsef, dr.; ~~AUBER, László, dr.~~; GSONTOS,
Matyas, dr.; KADAR, Tibor, dr.; KEDVÉSSY, György, dr.; KIRÁLY,
Ilona, dr.; KEMENES, Janosné, KOVACS, László, dr.; KUN, Ferenc;
LIGETI, Viktor.; SZENT, Miklós, Pal.

Opening of rest home for pharmacists. Gyermekgyógyászat 6 no.11:
121-122; Nov 55

(PHARMACY, economics,
rest homes for pharmacists in Hungary)

AUBIER, Lasslo, dr.

Colorimetry in pharmaceutical chemistry. Gyogyasz 10 no.5:
94-99 May 55.

(COLORIMETRY
in pharm.)

AUBER, Laszlo, dr.

Physiology of color vision. *Ogygysszeresz* 10 no.7:123-126 1 July 55.

(COLOR VISION, physiology,)

SZEKELY, Jeno.; ANDRISKA, Jozsef, dr.; AUBER, Laszlo, dr.; CSONTOS,
Matyas, dr.; KADAR, Tibor, dr.; KEDVESSY, Gyorgy, dr.; IRALY,
Ilona, dr.; KEMENES, Janosne.; KOVACS, Laszlo, dr.; KUN,
Ferenc.; LIGETI, Viktor.; SZENTMIKLOSI, Pal.

Document exhibition of pharmaceutical enterprises. Gyogyszeres 10
no.8:141-142 1 Aug 55

(PHARMACY,
in Hungary)

AUBER, Laszlo, dr.

Principles of blending and measuring of colors. Gyogyaszok 10
no.8:151-154 1 Aug 55.

(PHARMACY,
blending & measuring of colors)

COUNTRY : Hungary
CATEGORY : H-17
ABS. JOUR. : *RZKhim.*, No. 21 1959, No. 75809
AUTHOR : Auber, I., Szasz, G., Eloe, G., and Takacs, M.
ENST. : Not given
TITLE : On the Stability of the Color of Standard Solutions Prepared According to the Fifth Edition of the Hungarian Pharmacopoeia
ORIG. PUB. : *Acta Pharmac Hung*, 28, No 3, 105-119 (1958)
ABSTRACT : The authors have investigated the stability of standard solutions used in colorimetric analysis and containing $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$ (60 mg/ml), $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$ (45 mg/ml), and $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ (60 mg/ml). It has been found that: (1) Changes in the concentration of chloride ion affect the color of the solution and the use of FeCl_3 , which does not contain free HCl is therefore recommended; the concentration of the HCl used in dilution should be 1%. (2) The standard solutions must be stored

CARD: 1/2

AUBER, László

Color characterization of color solutions. Magyar Folyóiratok 67 no.12:
545-552 D '61.

1. Budapesti Orvostudományi Egyetem, Gyógyszerészeti-Kémiai Intézet.

ALAKOBA, Ecleslawa; AUDERSKA-WADAS, Wanda; SZYMANIAK, Ewa

The possibility of removal of active foci of the periodontium
using conservative treatment in cases of chronic periodontitis.
Gzus. stomat. 18 no.4:357-361. Ap'65.

1. Z Zakładu Stomatologii Zachowawczej Akademii Medycznej w
Łodzi (Kierownik: prof. dr. M. Fuchs).

AUDERSKA-WADAS, Wanda; ZAJACZKOWSKI, Zygmunt

The specificity of clinical conditions and the results of treatment of certain dental pulp diseases by means of devitalization. Czas. stomat. 18 no.4:369-375 Ap'65.

1. Z Zakładu Stomatologii Zachowawczej Akademii Medycznej w Łodzi (Kierownik: prof. dr. M. Fuchs).

AUBERT, H., Prof.; GAVRILESCU, S., dr.

Hexamethonium bromide in therapy of some cardiovascular diseases. Med. int., Bucur. 4 no.8:1182-1189 Dec 56.

1. Lucrare efectuata in Clinica I medicala, Timisoara.
(CARDIOVASCULAR DISEASES, therapy
hexamethonium bromide, in hypertension, hypertensive
encephalopathy & cardiac insuff.)
(HEXAMETHONIUM COMPOUNDS, ther. use
hypertension, hypertensive encephalopathy & cardiac
insuff.)

RUMANIA/Human and Animal Physiology: Blood

T-4

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65190

Author : Aubert H., Roth L., Krausz N., Weinrauch F.

Inst :

Title : A Study of the Etiology, Pathogenesis and Prognosis of Myelopathy.

Orig Pub : Med. interna, 1956, 8, No 2, 192-202

Abstract : The prognosis in myelopathy depends upon the etiological factor and the degree of disturbance in bone marrow function. Toxic and allergic myelopathies differ pathogenetically. The former arise following chronic intoxication with various chemical substances, the latter when there is increased sensitivity to certain substances. The tonsillar focus can lead to the development of panmyelopathy, in the mechanism of which perivascular, perisinus or allergic edema plays an important role. The differential diagnosis of toxic and allergic myelopathy is difficult. With the former there is a sudden onset with a serious condition and rapid improvement;

Card : 1/2

AUBERT, H.

SCIENCE

AUBERT, H. Profilaxia si tratamentul tulburazilor de ritm cardiac (de)
H. Aubert, S. Gavrilesu (si) L. Stanciu. Bucuresti, Editura Medicala, 1958.
83 p. (profilaxie si tratament) SMLM Not in ELC

Monthly List of East European Accessions (EEAI) EC. Vol. 8, No. X, 3
May 1959, Unclass.
March

AUBERT, H., prof.; ZDSIN, P.; STANCIU, L.; MUNTEANU, M.; MIHAILESCU, M.

Treatment of active paroxysmal extrasinusal rhythm disturbances
with Procainamide (Pronestil). Rumanian M. Rev. 3 no.4:10-11
O-D '59.

1. 1st Medical Clinic of the Medicopharmaceutical Institute,
Timisoara, Director: Prof. H. Aubert.
(ARRHYTHMIA, therapy)
(PROCAINE AMIDE, therapy)

AUERERT, H., prof.; GAVRILESCU, S., dr.; GAVRILESCU, M., dr.

On some clinical and anatomical patterns of chronic cor pulmonale.
Med. intern., Bucur 12 no.10:1469-1480 0 '60.

1. Lucrare efectuata in Clinica I medicala, Timisoara.
(PULMONARY HEART DISEASE)

AUBERT, H., prof. STANCIU, L., dr.; MARCU, A., dr.; ROSU, Cl., dr.; STEIN, J.,
chinista; FENYES, I., student

Cardiovascular repercussions of some factors connected with working
conditions in several enterprises. Preliminary note. Med. intern.
14 no.4:589-594 My '62.

1. Lucrare efectuata in Clinica I medicala I.M.F. Timisoara.
(CARDIOVASCULAR DISEASES) (OCCUPATIONAL DISEASES)

AUBERT, H., prof.; STANCIU, L., dr.; PRODAN, P., dr.

Considerations on some rarely encountered ectopic auricular rhythms.
Med. intern. 14 no.8:909-916 Ag '62.

1. lucrare efectuata in Clinica I medicala, I.M., Timisoara.
(ARRHYTHMIA) (ARRHYTHMIA, SINUS)

AUBERT, H. prof.; GAVRILESCU, S. dr.; STANCIU, L. dr.

Considerations on the pathogenesis of arterial hypertension.
Med inter 15 no. 5:525-531 My '63.
(HYPERTENSION)

HORODNICEANU, Fl.; SERGIESCO, Dina; KLEIN, R.; AUBERT-COMBIESCO, A.

Simplified procedure for the concentration and partial purification of poliomyelitis virus. Arch. roum. path. exp. microbiol. 21 no.1: 171-179 Mr '62.

1. Travail de l'Institut "Dr. I. Cantacuzino" --Service de la Poliomyelite.

(POLIOVIRUS)

(VIRUS CULTIVATION)

HORODNICEANU, Fl.; SERGIESCO, Dina; KLEIN, R.; ZAMFIRESCO, M.; AUBERT-
COMBIESCO, A.; BRUCKNER, Ileana, assistante medicale.

Research on the nature of the guanidine resistance of type 1
poliovirus and on the biological properties of its mutants.
Arch. roum. path. exp. microbiol. 23 no.3:719-724 S'63

1. Travail de l'Institut "Dr. I. Cantacuzino"; Service de la
Poliomyelite. Bucarest.

AUBERT-COMBIESCU, A.; SERGIESCU, Dina

Elucidation of some fundamental processes in the biology of poliovirus using guanidine. Stud. cercet. inframicrobiol. 16 no.3:267-283 '65.

Aubrecht, A.

AGRICULTURE

Solved tasks in the field of domestic animal breeding. p. 557.

Vol. 5, no. 10, 1958

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 4, April 1959

Industrial Medicine

CZECHOSLOVAKIA

BALIK, S.; MILOVA, A.; JISOVA, H.; AUBRECHTOVA, M.; Institute of Hygiene, Prague. [Orig. version not given].

"Visual Performance at Fluorescent Illumination of Various Spectral Radiance Distribution."

Prague, Activitas Nervosa Superior, Vol 3, No 2, Jun 66, pp 211-212

Abstract: Fluorescent light closest to the composition of daylight was investigated. Experiments were conducted with 15 women aged 20-40 years. The best vision was obtained with natural daylight, the closest to it white fluorescent light, next was pink fluorescent light, and worst results were found with incandescent lamps. Best results were obtained at an intensity of 100 lux, the poorest, with the weakest intensity tested, 25 lux. 1 Figure, 2 Tables, no references. Submitted at the 4th Conf. of Exper. and Clin. Study of Higher Nerv. Functions at Mar. Lazne, 12-15 Oct. 65. Article is in English.

1/1

FILKUKA, J.; AUBRECHTOVA, V.; HORNOVA, J.

Microspectrophotometric determination of the amount of DNA in cells of the epithelial lining of maxillary cysts and in cells of a spinocellular carcinoma caused by their malignant transformation. Cesk. stomat. 65 no.5:311-319 S '65.

I. I. patologickoanatomicky ustav (prednosta prof. dr. Jar. Svejda, DrSc.) a II. stomatologicka klinika (prednosta prof. dr. Jos. Svejda, DrSc.) lekarske fakulty University J.E. Purkyne v Brne.

AUDI, S.

1945

"The pathologic - anatomical & pathologic - histological picture of contagious pneumonia of the horse."

Vet. Faculty, Croat U., Zagreb.
Vet. Archiv. 15 : 67-86, 1945

(Pathological anatomy & Morbid histology of contagious pneumonia in horses)

AUDI, S.

YUGOSLAVIA/Virology - Human and Animal Viruses.

E-3

Abs Jour : Ref Zhur - Biol., No 3, 1958, 9708

Author : Topolnik, Aleray, Audi

Inst : -

Title : Reaction of Complement Fixation in Equine Abortion Virus.

Orig Pub : Veterin. arh., 1955, 25, No 7-8, 188-194

Abstract : With the aid of RSK 358 samples of equine sera were tested; 250 from the Northwestern portion of Khorvatia, where virus abortion prevails, and 108 from districts where no such diseases were observed. Effectiveness of 2 RSK methods was tested (Randall C.C. et al, Proc. Soc. Exptl. Biol. and Med., 1950, 75, 465) and a modified method of the same authors (Doll et al., Am. J. Vet. Res., 1954, 40). In the first method the results were recorded on the basis of 50% hemolysis: positive results were obtained in 42 cases. In using the second method the recording was made only by a total fixation of the complement;

Card 1/2

Audi, S.

YUGOSLAVIA/Virology - Human and Animal Viruses.

E-3

Abs Jour : Ref Zhur - Biol., No 3, 1958, 9705

Author : Topolnik, Shebetich, Aleray, Audi, Dzhyukich
Inst : -
Title : Immunological Interrelationship of Equine Abortion Viruses
and Grippe in Horses.

Orig Pub : Veterin. arh., 1956, 26, No 1-2, 16-20

Abstract : The complement-linked antibodies of mares' abortion viruses were examined in the serum of 32 grippe-affected horses and 293 healthy animals. The complement fixation test was positive in the majority of diseased horses and negative in almost all the healthy ones. The authors consider that this confirms the relationship or identify of the indicated viruses.

Card 1/1

YUGOSLAVIA/Diseases of Farm Animals. Diseases Caused by
Viruses and Rickettsiae.

R

Abs Jour: Ref Zhur-Biol., No 5. 1958, 21592.

data are described. In the organs of dead animals (spontaneously ill or experimentally infected) minute coccoid corpuscles resembling rickettsiae were discovered. These corpuscles were successfully cultivated on hen embryos. The authors are of the opinion that the causative agent of this disease in goats and sheep of Dalmatia is the same one, and that it is probably a rickettsia resembling the causative agent of the "heartwater disease".

Card : 2/2

5

11/12/70 - CIRCULAR, 122

BOJINCA, R., Prof.; IACU, H., Dr.; ANENIESCU, H., Dr.; NICOLAU, V., Dr.;
STACIUS, M., Dr.; ADRIANO-CIGUIENSCU, M., Dr.; BUCUR, H., Dr.;
SANDU, Ioan, Dr.; PASCU, T., Dr.; BUCUR, H., Dr.; BILANEA, A., Dr.

Studies of acute diseases of the lungs. Med. int., Buch., no. 5:
685-699 May 57.

1. Clinical medicine a Spitalului Brincovenesc, direct: dr. G. Bercu
si dr. A. Derevici, dr. D. Sarateanu. (Institutul de fiziologie si fiziopatologie
al Academiei R. P. R. director: acad. St. S. Nicolau)

(PNEUMONIA, PRIMARY ATYPICAL

pathol. & diag.)

(RICKETTSIAL DISEASES

pneumonia, pathol. & diag.)

AUDRIAN, J. ; GHEORGHITA, S.

Influence of different types of walls on characteristic indexes of dwellings.
Pt. 2 p. 216

REVISTA CONSTRUCTIILOR SI A MATERIALELOR DE CONSTRUCTII. (Asociatia Stiintifica a
Inginerilor si Technicienilor din Romina si Ministerul Constructiilor si al
Materialelor de Constructii) Bucuresti, Rumania Vol 11, no. 5, May 1959.

Monthly list of East European Accessions (EEAI) LC, Vo. 8, no. 9, Sept. 1959

Uncl.

FEDOROV, V.N.; GLADCHENKO, I.P.; AUDRING, V.V.; DOBRYAKOV, B.N.

Equipment and methods of manufacturing articles from glass reinforced plastics by the spraying method. Plast.massy no.7:54-58 '61. (MIRA 14:7)

(Glass reinforced plastics)

POLACEK, Premysl, Doc.Dr., C.Sc.; AUDRLICKA, Miroslava

Comparative anatomy of the muscular bridges and loops on the coronary arteries in mammals. Cs morfologie 9 no.3:191-199 '61.

1. Katedra anatomie Meditsinskogo fakul'teta Karlova universiteta v
Gradse Kralove [Hradec Kralove], rukovoditel: prof. d-r med. Jan
Grunada [Hromada, Jan] doktor meditsinskich nauk)

(MAMMALS)

AUDRLICKY, Ivan

Dependence of the alcohol level on various content of water
in blood and serum of samples from the field. Sborn. ved.
prac. lek. fak. Karlov. Univ. (Hrad. Kral.) 7 no.5:Suppl.:
477-484 164.

AUDULEV, K.K. [Auduliev, K.K.]; PRUDNIKOVA, R.V. [Prudnykova, R.V.]

Respiratory insufficiency and the principle of spiographic detection of the true oxygen loss in the organism. Fiziol. zhur. [Ukr.] 10 no.2:278-281 Mr-Apr '64. (MIRA 18:7)

1. Kafedra terapii Kiyevskogo instituta usovershenstvovaniya Vrachey.

AUDULEV, K.K.; LERNER, I.P.; PRUDNIKOVA, R.V.

Physiological role and insufficiency of the reserve
capacity of the venous canal of the lesser circulation.
Vrach. delo no.10:28-31 0 '63. (MIRA 17:2)

1. Kiyevskiy institut usovershenstvovaniya vrachey.

BRUSILOVSKIY, Ye.S.; AUDULEVA, N.N.

Curability of diabetes mellitus. Sbor. nauch. trud. Ukr. nauch.-
issl. inst. eksper. endok. 15:228-233 '59. (MIRA 14:11)
(DIABETES)

AUDY, K.; KLEGATSKA, B.

Resection in atypical complicated silicosis. Pracovní lek. 14 no.8:
383-385 0 '62.

1. Tuberkulózní oddělení Fakultní nemocnice v Plzni, přednosta MUDr.
R. Sembera.

(PNEUMONECTOMY) (SILICOSIS)

HOSEK, B.; NOVAK, L.; AUDY, K.; STEPKA, K.

Semi-automatic integrator of irregular planes. *Cesk. Fysiol.* 9
no. 4:369-374 J1 '60.

1. Biofyzikalni ustav CSAV, Brno.
(PHYSIOLOGY equip & supply)

ŠOUSTEK, Zdeněk; AUDY, Květoslav.

Czechoslovakia

✓
Sikl Pathological Anatomy Institute of the Medical
Faculty of Charles University, Pilsen Branch --
Pilsen (Siklův patologicko anatomického ústavu
lékařské fakulty University Karlovy se sídlem
v Plzni); Director: prof. Dr. J. VANEK, Dr. Sc;
Tuberculosis Department of the State Faculty
Hospital in Pilsen -- Pilsen (Tuberkulózní
oddělení Státní fakultní nemocnice v Plzni --
Plzeň); Director: R. SEMBERA, MUDr. - (for all)

Prague, Vnitřní lékařství, No IX-1, 1963, pp 27-34

"Obliterative Bronchiolitis and Multifocal Lung
Carnification, an Independent Lung Disease in
Adults."

~~X-2~~ 2
HANÁK, Theodor; AUDY, Květoslav; RICHNER, Pavel

Czechoslovakia

Tuberculosis Ward SFN -- Pilsen (Tuberkulózní oddělení
SFN -- Plzeň); Head: R. SEMBERA, MD; Respiratory
and Heart Ward of the Institute Hospital MV; Head:
V. KEPKA, MD - (for all)

Prague, Vnitřní lékařství, No IX-2, 1968, pp 135-142

"Bronchial ECG Leads. Part II. Bipolar Leads."

AUDY, Ljiljana

Vascularization of the lunate bone and its role in the appearance of necrosis. Rad. med. fak. Zagreb 12 no.1:19-24 '64.

HIRSH, Vasilije; ABRA, Ilija

Variations of the glenoid surface of the temporal section of the
temporal bone. Rad. med. fak. Zagreb 17 no. 2:109-119, 1964.

AUDYCKI, Zdzisław

Newly designed electric mining apparatus produced by the Belma
Electrical Engineering Works in Bydgoszcz. Wiad elektrotechn 30
no.5:144-147 My '62.

AUE, L.F.

POLYAKOV, A.E.; TAVRIN, I.F.; AUE, L.F.

Improved method for gravimetric surveying. Trudy Sver. gor. inst.
no.30:39-46 '57. (MIRA 11:4)

(Prospecting--Geophysical methods)

AUE, L.F.

Geological interpretation of maps of second derivative, vertical
gravity anomalies. Geofiz. razved. no.6:18-22 '61. (MIRA 15:4)
(Udmurt A.S.S.R.--Gravity prospecting)

AUER, Adolf, mgr., inz.; GOLABEK, Mieczyslaw, mgr., inz.

Steam temperature regulation in steam boilers and regulating properties of the superheater of the boiler OP-130. Pt.1.
Energetyka Pol 16 no.3:13-16 '62.

1. Zaklad Badan i Pomiarow "Energopomiar", Dzial Kotlow i Spalania

AUER, Adlof, mgr. inz.; GOLABEK, Mieczyslaw, mgr. inz.

Steam perature control of steam boilers and the controlling
properties of the superheater of the OP-130 boiler. Pt. 2.
Energetyka 16 no.5:Suppl.: Biul energopomiar 8 no.3:23-24
My '62.

1. Dzial Kotlow i Spalania, Zaklad Badan i Pomiarow, Warszawa.

AUER, A.L.

15-8101 4-1209
8/100/60/007/56/009/012
8015/0064

ARMONTS: Andreev, S. S.; Auker, A. D.; Koshchikov, P. K.;
Khramov, V. P.; Chukin, Yu. A.; Zolotarev,
V. A.; Zhurav, V. I.; Likhovoy, K. K.; Koshchikov, S. S.
Khramov, V. P.; Zhurav, V. I.

TITRE: Polymerization of Ethylene Under the Influence of Radiation

PERIODICAL: Vysokomolulyarnyye soedineniya, 1960, vol. 2, No. 6,
pp. 904-915

TEXT: The radiation-chemical polymerization of ethylene in the gaseous phase and in organic substances was investigated at different pressures and radiation dose as well as some properties of the polymers formed. G-60 β -radiation sources of the Institut Ia. Karpova (Institute for Kinetics) (1400, 1600, and 20000 gram equiv. H₂) and pressures of 50-300 atm, radiation dose of 17 to 165 r/sec, and 25°C (some experiments were made at 0°C) were the conditions. The experiments were carried out in a corresponding device (Fig. 1). The ethylene used was mass-

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spectroscopically analyzed by M. V. Kibrikov and M. V. Gur'yev. The molecular weight of the polymers obtained was determined by the method of light scattering by I. G. Shchegolev and M. V. Koshchikov. Particular data on this will be given in a separate paper. The experimental conditions of polymerization in heptane, cyclohexane, methanol, and acetone (50 atm, 25°C, ~100 r/sec) showed (Table 1) that reaction proceeds ten times more rapidly than in the gaseous phase. The polymers formed have a molecular weight of 2000-4000. Polymers of the structure $C_2H_4(C_2H_5)_2Cl$ (60%) and $C_2H_4(C_2H_5)_2Cl$ (20%) form in good yield in carbon tetrachloride. Polymerization in the gaseous phase was investigated at constant pressure (100-300 atm, 25 r/sec) and decreasing pressure (100 and 50 atm, 17-165 r/sec, 25° and 50°C). The polymer yield increases rapidly if experiments are made in the presence of polyethylene (Table 2). To begin with, the polymerization rate increases with time and reaches then a constant value. The mean molecular weight and the characteristic viscosity of the polymers increases with preceding transformation (Table 3). The mean reaction rate amounts to 16.9 g/l.hour at 300 atm, 25°C, a duration of 24 hours and radiation dose of 72 r/sec, and the maximum rate

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30.5 g/l.hour (Table 4). The mean molecular weight and viscosity of polyethylene (Table 5) rises with pressure (i.e. the ethylene concentration) and with the rate of polymerization increases somewhat with the radiation dose with the exception of a factor of 0.5, while the radiation-chemical yield decreases with an increase of the radiation dose with a factor of 0.7. The molecular weight of polyethylene rises with a factor of ethylene increases with decreasing radiation dose (Table 6) and the rate of polymerization increases from 35°C to 50°C at constant ethylene concentration (30 g/l) (Table 7). Investigations carried out by Yu. M. Malinik and A. L. Kopyev in the laboratory of radiochemistry of the authors' Institute showed that the polyethylene obtained by γ -irradiation (activity 0.945-0.975 Ci/gm) has a degree of crystallization than high-pressure polyethylene, namely, 45-50% (the authors thank A. K. Shcherbakov, V. A. Gulyaev and E. A. Solodov for their assistance in carrying out the experiments with the gamma sources. There are 11 references, 1 table, and 11 references, 5 Soviet, 4 US, 1 British, and 1 Belgian.

Card 3/4

ASSOCIATORS: Physico-chemical Institute Ia. I. V. Karpova
(Physico-chemical Institute named L. Ye. Karpov)

SUBMITTED: February 24, 1960

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