

KOVALYUKH, A. I.; SMAGA, F.M.; PAVLOVA, Ye. Ye.; and YEGOROV, I.F.

"The C. F. T. and I. C. T. in Diagnosing Toxoplasmosis"

Voprosy toksoplazmoza, report theses of a conference on toxoplasmosis,
Moscow, 3-5 April 1961, publ. by Inst Epidemiology and Microbiology
im. N. F. Gamaleya, Acad. Med. Sci USSR, Moscow, 1961, 69pp.

YEGOROV, I.F.; KOVALYUKH, A.I.; SMAGA, M.F.; PAVLOVA, Ye.Ye.

Comparative indices of the complement fixation reaction and
intracutaneous test in the diagnosis of toxoplasmosis. Zhur.
mikrobiol. epid. i immmun. 33 no.10:51-54 0'62 (MIRA 17:4)

1. Iz L'vovskoy oblastnoy psikhonevrologicheskoy bol'nitsy.

18.9500

40286

S/081/62/000/014/001/039
B166/B144AUTHOR: Kovalyunayte, V.

TITLE: Mechanism of single crystal growth in a solution irradiated by ultrasonic waves

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 14, 1962, 31, abstract 14B202 (Sb. "Primeneniye ul'traakust. k issled. veshchestva" no. 13. M., 1961, 171-175)

TEXT: Detailed study is established that the influence of ultrasonics on the rate of growth (v) of a single crystal increases with reduction in the degree of supersaturation of the mother liquor; the effect of ultrasonic vibrations on the shape of the crystal increases with increase in the degree of supersaturation of the mother liquor. The quantity v increases with increase in the intensity of the ultrasonic vibrations up to 0.1 w/cm^2 . The effect of ultrasonics on single crystal growth is assumed to be explained by the action of acoustic wind and the elastic vibrations of the crystal itself. [Abstracter's note: Complete translation.]

Card 1/1

Kovalyunaite, U. Ye.

24(2)

PHASE I BOOK EXPLOITATION

SOV/2353

Akademiya nauk SSSR. Institut kristallografi

Rost kristallov, tom. 2 (Growth of Crystals, Vol. 2) Moscow, 1959. 238 p.
Errata slip inserted. 2,000 copies printed.

Resp. Eds.: A. V. Shubnikov, Academician, and N. N. Sheftal', Doctor of
Geological and Mineralogical Sciences; Ed. of Publishing House:
K. S. Aleksandrov; Tech. Ed.: T. V. Polyakova.

PURPOSE: This book is intended for scientists and researchers engaged in
crystallography and in growing industrial monocrystals.

COVERAGE: This is the second of two volumes on crystal growth. The first
volume contained reports delivered at the First Congress on Crystal Growth.
The present volume also contains an extensive study of corundum synthesis
by S. K. Popov [deceased]. These studies reflect the development of Soviet
research in crystallography in the period following the first congress.
The studies contain some essentially new results obtained by Soviet scientists.
The editors express the hope that these studies will unite the efforts of Sov-
iet scientists engaged in studying the process of crystal growth and in grow-

Card 1/5

Growth of Crystals (Cont.)

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ing industrially valuable monocrystals. No personalities are mentioned.
References are given at the end of each article.

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Crystals - Organic Admixture (Survey) 223

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Card 5/5

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S/070/62/007/004/009/016
E132/E435, + other

AUTHORS: Kapustin, A.P., Kovalyunayte, V.Ye.

TITLE: The generation and development of centres of crystallization in solutions of potassium aluminium alums in ultrasonic fields

PERIODICAL: Kristallografiya, v.7, no.4, 1962, 613-615

TEXT: A series of experiments on the precipitation of supersaturated aqueous solutions of potassium aluminium alum by ultra sonic waves have been made. It is shown that precipitation takes place whether there is a seed or not. In the latter case it is important whether the seed is put at a node or antinode of the standing wave system. If the seed is at a pressure, antinode precipitation is seven times faster than if there is no seed. A frequency of 30 kc/s was used with an (acoustic) power of 0.42 W/cm². Control experiments with simple stirrings were performed. There are 4 tables.

ASSOCIATION: Institut kristallografii AN SSSR (Institute of Crystallography AS USSR)

SUBMITTED: September 22, 1961

Card 1/1 SEE S/070/62/007/004/016/016

KAPUSTIN, A.P.; KOVALYUNAYTE, V.Ye.

Growth of potassium alum crystals in an ultrasonic field.
Kristallografiia 6 no.5:805-807 S.O '61. (MIRA 14:10)

1. Institut kristallografiia AN SSSR.
(Alum crystals--Growth) (Ultrasonic waves)

BULOCHNIKOV, D. I.; KOVALYUS, V. A.; YURMANOV, B. N.

Portable hygrometer. Priborostroenie no.10:29 O '62.
(MIRA 15:10)

(Hygrometry--Equipment and supplies)

KOVALYUSHKO, S.P.; BELYAKOV, M.I., red.; TOGOBITSKAYA, N.V.
[Tohobits'ka, N.V.], red.; KOVALENKO, O.I., red.;
DOBROVOL'SKIY, O.A.[Dobrovol's'kyi, O.A.], red.;
NAGORNYY, A.G.[Nahornyy, A.H.], red.; LEVITSKAYA, G.P.
[Levyts'ka, H.P.], red.; CHEREVATSKIY, S.A.[Cherevats'kyi,
S.A.], tekhn. red.

[Manual on production planning and organization on collective
and state farms] Dovidnyk po planuvanniu i organizatsii vy-
robnytstva v kolhospakh i radhospakh. Kyiv, Derzhsil'hosp-
vydav URSR, 1963. 935 p. (MIRA 16:12)

(Ukraine--Farm management--Handbooks, manuals, etc.)

KOVALYUSHKO, S.P.; KIREYEV, F.M. [Kirileiev, F.M.], red.; LUPKO, A.Ya.,
red.; SEMENKO, M.V., red.

[Economic manual on collective farm planning] Ekonomichnyi
dovidnyk po planuvanniu v kolhospakh. Kyiv, Derzh.vyd-vo
sil's'kohospodars'koi lit-ry UkrSSR, 1959. 447 p. (MIRA 12:12)
(Collective farms)

USPENSKIY, Gleb; KOVAL'ZON, F.P., redaktor; KLYUCHKINA, Ya.S., tekhnicheskiy redaktor.

[From Orenburg to Ufa; extracted from "Notes from the road."]
Ot Orenburga do Ufy; iz "Pisem s dorogi." [Chkalov] Chkalovskoe knizhnoe izd-vo, 1955. 60 p. (MLRA 8:11)
(Ural Mountain region--Description and travel)

SEM'KOV, Angel, prepodavatel'; CHOKOYEV, Zhivko, prepodavatel';
OSTAPENKO, N.N., red.; PASTUKHOV, V.M., red.; KOVAL'ZON, P.P.,
red.; DORODNOVA, L.A., tekhn.red.

[Training workers in machining metals in industrial schools]
Podgotovka rabochikh po metalloobrabotke v promyshlennyykh uchi-
lishchakh. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat,
1960. 44 p.
(MIRA 13:11)

1. Promyshlennoye uchilishche po metalloobrabotke goroda Ruse
Bulgarskoy Narodnoy Respubliki (for Semkov, Chokoyev).
(Machine shop practice--Study and teaching)

PARKHOMENKO, Vladimir Mikhaylovich; SHAFARENKO, Mark Samoylovich; OSIPOV,
M.I., red.; KOVAL'ZON, F.P., red.; NESMYSLOVA, L.M., tekhn.red.

[Training of cabinetmakers and operators of woodworking machines]
Podgotovka stoliarov-krasnoderevtsev i stanochnikov po derevo-
obrabotke. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat,
1960. 61 p.
(MIRA 13:9)

1. Starshiy master proizvodstvennogo obucheniya (for Parkhomenko).
2. Zamestitel' direktora po uchebno-proizvodstvennoy rabote
tekhnicheskogo uchilishcha No.6 g.Kiyeva (for Shafarenko).
(Woodwork--Study and teaching)

YUDASIN, Lev Samoylovich; YEVGEN'YEV, B.S., red.; KOVAL'ZON, F.P., red.;
DORODNOVA, L.A., tekhn.red.

[Story about an invention] Rasskaz ob odnom izobretenii. Moskva,
Vses.uchebno-pedagog.izd-vo Proftekhizdat, 1960. 69 p.
(MIRA 14:4)
(Loginov, Ivan Grigor'evich, 1924-) (Tractors)

SHILYAKOV, Nikolay Ivanovich; KOZ'MIN, N.V., red.; KOVAL'ZON, F.P.,
red.; DORODNOVA, L.A., tekhn.red.

[Laboratory work and excursions for the course "General
technology of metals"] Laboratorno-prakticheskie raboty i
ekskursii po kursu "Obshchaya tekhnologiya metallov."
Moskva, Vses.uchebno-pedagog.izd-vo Proftekhnidat, 1960.
70 P.
(MIRA 13:11)

1. Zamestitel' direktora tekhnicheskogo uchilishcha No.9
g.Vladimira (for Shilyakov).
(Metals)

VASNETSOV, Valeriy Mikhaylovich; KOVAL'ZON, F.P., red.; PEREDERIY, S.P.,
tekhn. red.

[Work training of students at independent construction sites] Pro-
izvodstvennoe obuchenie uchashchikhsia na stroitel'stve samo-
stoyatel'nykh ob"ektov. Moskva, Vses. uchebno-pedagog. izd-vo Proftekh-
izdat, 1961. 42 p.
(MIRA 14:10)

1. Direktor stroitel'nogo uchilishcha no.2 Permskoy oblasti (for
Vasnetsov).

(Building trades—Study and teaching)

SOLOV'YEV, Viktor Andreyevich, tokar-rastochnik; BASTOV, Viktor Fedorovich, inzh.; KOVAL'ZON, F.P., red.; BARANOVA, N.N., tekhn. red.

[Manufacture and introduction of multipurpose attachments for machining compound parts] Izgotovlenie i vnedrenie universal'-nykh prisposoblenii dlja obrabotki slozhnykh detalei. Moskva, Proftekhizdat, 1961. 47 p.
(MIRA 15:6)
(Machine tools--Attachments)

TITOV, Petr Nikolayevich; IVANCHUKOV, A.F., red.; KOVAL'ZON, F.P.,
red.; NESMYSLOVA, L.M., tekhn. red.

[Increasing the qualifications of workers in integrated
crews] Povyshenie kvalifikatsii rabochikh kompleksnykh
brigad. Moskva, Proftekhnizdat, 1962. 76 o.

(MIRA 16:6)

1. Direktor uchebnogo kombinata Ufimskogo stroitel'no-
montazhnogo tresta No.3 (for Titov).
(Construction workers)

BREGADZE, Georgiy Iosifovich; KOVAL'ZON, F.P., red.; PEREDERIY, S.P.,
tekhn. red.; NESMYSLOVA, L.M., tekhn. red.

[On-the-job technical training of employees] Organizatsiia
tekhnicheskogo obucheniia kadrov na proizvodstve. Moskva,
Proftekhizdat, 1963. 72 p. (MIRA 16:8)
(Employees, Training of)

MUKHIN, Petr Alekseyevich; KOVAL'ZON, F.P., red.; NESMYSLOVA,
L.M., tekhn. red.

[Use of motion pictures and slides in electrical engineer-
ing lessons] Ispol'zovanie kinofil'mov i diafil'mov na uro-
kakh elektrotekhniki. Moskva, Vysshiaia shkola, 1964. 31 p.
(MIRA 17:4)

SELIVANOVA, Nadezhda Mikhaylovna; BUZAVIN, Iven Ivanovich;
MACHENKO, Lai, nauchn. red.; KOVAL'ENOK, F. P., red.

[Inorganic chemistry] Neorganicheskaja khimija. Me-
skva, Vysshajaia shkola, 1965. 259 p. (MIRA 18.12)

VAYAKAS, Khel'mut Yanovich[Vajakas, Helmut]; KOVAL'ZON, F.P., red.;
TOKER, A.M., tekhn. red.

[Equipment of a study room for preparing tractor operators and
farm electricians] Oborudovanie uchebnykh kabinetov dlia pod-
gotovki traktoristov i sel'skikh elektrikov. Moskva, Vses.
uchebno-pedagog.izd-vo Proftekhizdat, 1961. 43 p.

(MIRA 15:2)

1. Zamestitel' direktora po uchebno-proizvodstvennoy rabote
yarva-yaniskogo uchilishcha mekhanizatsii sel'skogo kho-
zyaystva No.6, Estonskaya SSR (for Vayakas).

(Agricultural engineering--Study and teaching)

KOVAL'ZON, M.Ya., dotsent, kandidat filosofskikh nauk.

Science leads us forward and religion backwards. Nauka i zhizn' 23
no.11:42-46 N '56. (MLRA 9:11)
(Religion and science)

KOVAN, J. A.

8377

S/052/60/039/003/002/043
B004/P003

26/1/60 Abrikosov, A. I., Blinov, P. I., Polotin, V. P., Prudnikov, A. V., Gor'kin, P. F., Kostylev, Ye. N., Goryainov, V. N., Petrushkevich, B. S., Slobodchikov, V. M., Ruzakov, V. D., Sazulin, O. V., Shchegoleva, N. N., Frenkel-Kentukov, D. I., Chernyavskii, P. A., Shchekin, N. V.

TITLE:

Magnetacoustic Resonance in the Plasma

PERIODICAL: Journal experimental'nyi teoreticheskiy fizika, 1960,

Vol. 39, No. 3 (9), pp. 536-544

SUMMARY: The authors wanted to study the penetration of oscillations into the plasma taking place transversally to a static magnetic field. From the physical point of view, this process has a course similar to ion cyclotron oscillations, with the difference that the magnetic pressure is not the gaseous pressure, as is written down in (1), but the pressure $P/0.6$, and not the gaseous pressure, is used here. (1) is written down as a resonance condition: $B_0 \omega_{cpl}^2 = \omega^2 + \frac{P}{\rho}$, where ω is a dimensionless number characterizing the type of oscillations. So the strength of the

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static magnetic field, B_0 , the density of the plasma, ρ , the radius of the plasma cylinder, R , the following is written down for the radial amplitude of the plasma motion velocity: $V_r = \bar{E}_r B_0 / B_0 - B / kT_p$ (B - strength of the magnetic alternating field, V_r - plasma velocity of the magnetic field). The interpretation of an electro-magnetic high-frequency field E with a cold plasma and experimentally investigated in a cylinder is the presence of an axial quasi-stationary magnetic field B_0 . Figure 1 shows the change of the operation used for the experiments. In one such experimental series the alternating field had a frequency of 12.5 Mc/sec, while in another series the frequency was 20 Mc/sec. The plasma glow was recorded by means of an E39-19 (UZM-19) photomultiplier and an OK-17M (OK-17M) oscilloscope, while the penetration of high-frequency oscillations into the plasma and the radial amplitude distribution of the magnetic alternating field were studied with the aid of a magnetic probe. The experiments were conducted with hydrogen, helium, argon, and air at an initial pressure of

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$10^{-4} - 6 \cdot 10^{-3}$ torr. The oscillograms of Figs. 2, 3 show that resonance phenomena appear in the range between 300 electron and 5 kiloerads. Fig. 4 shows the effect of resonance on the spectral lines of hydrogen. There is a dependence of the amplitude A_p of the magnetic resonance field on the amplitude of the E -field. Fig. 5 shows the spatial distribution of the amplitude A_p on the waveguide field in hydrogen and argon. It may be seen from Figs. 6, 7, 8 that the resonance shows a fine structure. This effect is being further investigated. A gas temperature of 1200° was calculated from the Doppler broadening of the lines (Fig. 10) corresponding to 0.1. Experimental data for H_2 confirmed the validity of equation (1). Experiments with Ar₂ at frequencies above the hybrid frequency field no appreciable difference as compared with the effect observed with frequencies below the hybrid frequency. The authors assume that the appearing oscillations propagated obliquely, not perpendicularly to B_0 . This was confirmed by measurement of the oblique azimuthal component of the magnetic field E (Fig. 9). The authors thank I.V. Borodkin, Academician, for interest displayed in the work; there are 9 figures and 4 references; 2 Soviet, 1 US and 1 German.

Card 3/4

SUBMITTED: April 2, 1960

AKHMATOV, A.P.; BLINOV, P.I.; BOLOTIN, V.F.; BORODIN, A.V.; GAVRIN, P.P.;
ZAVOYSKIY, Ye.K.; KOVAN, I.A.; OGANOV, M.N.; PATRUSHEV, B.I.;
PISKAREV, Ye.V.; RUSANOV, V.D.; SMOLINKIN, G.Ye.; STRIGANOV, A.R.;
FRANK-KAMENETSKIY, D.A.; CHEREMNYKH, P.A.; CHIKIN, R.V.

Magnetoacoustic resonance in a plasma. Zhur. eksp. i teor. fiz.
(MIRA 13:10)
39 no.3:536-544 S '60.
(Nuclear magnetic resonance)
(Plasma (Ionized gases))

88419

S/056/60/039/006/003/063
B006/B056

2b.2311

AUTHORS:

Rusanov, V. D., Patrushev, B. I., Kovan, I. A., Garkusha, V. L,
Frank-Kamenetskiy, D. A.

TITLE:

Investigation of the Magneto-acoustic Resonance in a Plasma
by Means of Two Electrical Probes

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 39, No. 6 (12), pp. 1497 - 1502

TEXT: This is a report on concentration measurements made on a cylindrical hydrogen plasma, which was located in a homogeneous quasistatic longitudinal magnetic field H_0 , and a high-frequency magnetic field in the same direction. Two molybdenum wire probes were used to estimate the charged particle concentration; probing was done also with the 3-cm pulses of a klystron-generator. The experimental arrangement is shown in Fig. 1, the probe circuit diagram in Fig. 3. Fig. 5 is shown as an example of the oscilloscopes obtained (Figs. 4-9): the upper oscilloscopes show the probe currents of various pairs of probes, the lower ones show the signals of

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Investigation of the Magneto-acoustic
Resonance in a Plasma by Means of Two
Electrical Probes

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the sound shf generator; I - probes on the walls, II - in the chamber axis. ($U_{\text{probe}} = 300 \text{ v}$, $E = 6 \text{ kv}$, $H_0 = 5.8 \text{ koe}$, $p = 8 \cdot 10^{-4} \text{ mm Hg}$). The probe current has two maxima, viz. at $H_0 = 650 \text{ oe}$ ($n = 6 \cdot 10^{12} \text{ cm}^{-3}$) and $H_0 = 1580 \text{ oe}$ ($n = 5 \cdot 10^{12} \text{ cm}^{-3}$) (n - electron concentration). With a change of the quasistatic magnetic field, the amplitude of the alternating field was found to have two or three resonance maxima, interpreted as magneto-acoustic resonance. The resonance frequencies are near the geometrical mean from electronic and ionic cyclotron frequency (ω_e , ω_i). Numerically one obtains:

$$\omega^* = H_0 u_i \sqrt{4\pi \rho} R$$

1st maximum	2nd maximum
$6 \cdot 10^7$	$3 \cdot 10^8$
$7 \cdot 3 \cdot 10^7$	$4 \cdot 10^8$
$2 \cdot 5 \cdot 10^7$	$6 \cdot 5 \cdot 10^8$

$$\omega = \omega_i \omega_e \left[1 + \frac{1}{4} \frac{\omega_e}{\omega_i} \frac{k_z^2}{k_r^2} \right] \left[\frac{1}{1 + \frac{\omega_e^2}{\omega_0^2}} + 1 + \frac{\omega_e^2}{\omega_0^2} \right]$$

$$\sqrt{\omega_i \omega_e}$$

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Investigation of the Magneto-acoustic Resonance in a Plasma by Means of Two Electrical Probes

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B006/B056

(The generator frequency was $3.2 \cdot 10^8$). ω^* is the circular frequency of the radial magneto-acoustic oscillations, ω -the circular frequency of the longitudinal-radial magnetoacoustic oscillations; the other quantities are defined in Ref. 5. Summing up: Under magneto-acoustic resonance, ionization increases rapidly and considerably. The radial concentration distribution in the plasma is nearly uniform. The authors thank Ye. K. Zavoyskiy for his interest. There are 10 figures and 5 references:
4 Soviet and 1 US.

SUBMITTED: April 23, 1960

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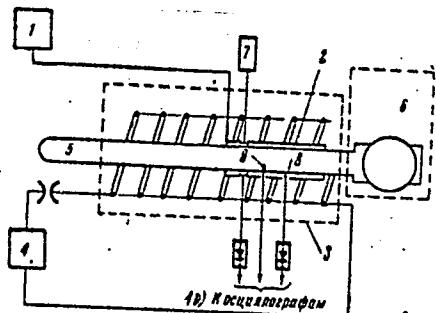


Fig. 1

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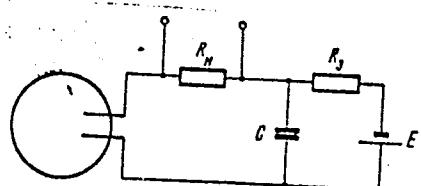


Рис. 3. Схема включения зондов

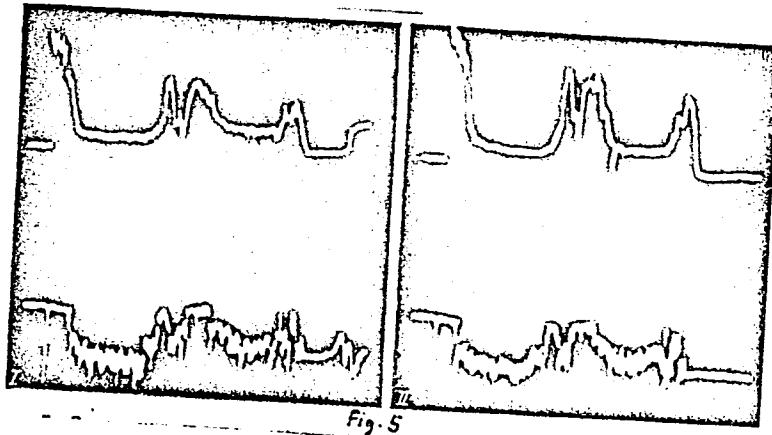
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Text to Fig. 1: 1) Generator (150 kw, 42 - 50 Mc). 2) Oscillation circuit.
3) Solenoid for producing the magnetic longitudinal field ($H_{max} = 16$ koe).
4) Capacitor battery for feeding the solenoid. 5) Cylindrical glass
vacuum chamber. 6) Evacuation system. 7) Sounding shf generator ($\lambda = 3$ cm).
8) Magnetic probe. 9) Double electric probes. 10) to the oscilloscope.

X

Card 7/7

9.9845
26.2321

AUTHORS:

Patrushev, B. I., Rusanov, V. D., Kovan, I. A., Savichev, V. Y.,
Frank-Kamenetskiy, D. A.

88420
S/056/60/039/006/004/063
B006/B056

TITLE:

Gyrotropic Properties of a Plasma During the Propagation of
an Extraordinary Wave

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 39, No. 6 (12), pp. 1503 - 1507

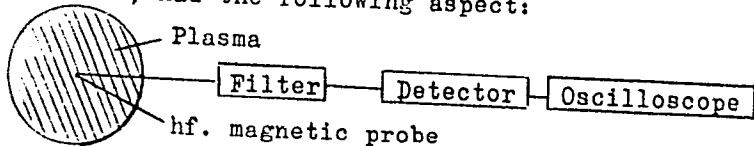
TEXT: This is a report on investigations of the propagation of electro-magnetic waves in a cylindrical plasma column, which is located in a homogeneous quasistatic magnetic field H_0 . The hydrogen plasma ($8 \cdot 10^{-4}$ mm. Hg) was generated by means of an ionization generator (50 Mc/sec, 150 kw) in a glass cylinder. The high-frequency magnetic field coincided with the static field as to direction. A detailed description of the experimental arrangement is given in Ref. 1. The plane-polarized waves were produced by a sounding generator with 29 Mc/sec and 500 w, whose operation was not disturbed by discharges. The block diagram for investigating the signal from the magnetic probe, located in the anodic circuit of the sounding Card 1/4

88420

Gyrotropic Properties of a Plasma During the
Propagation of an Extraordinary Wave

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B006/B056

generator, had the following aspect:



The results obtained from these experiments are shown in a number of oscillograms and are numerically given in a Table. It could be proven that in the propagation of a wave whose frequency is between the ion- and electron cyclotron frequencies, both the wave vector and the polarization vector rotate in the plasma waveguide. This result is of interest for the retaining and hf-heating of plasma. The authors thank Ye. K. Zavoyiskiy for his interest and L. I. Rudakov for discussions. There are 10 figures, 1 table, and 6 Soviet references.

SUBMITTED: April 23, 1960

Card 2/4

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825620008-0

88420

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B006/B056

t	H_{eff} Oe	n	ϵ_1	λ_{eff} cm	ω_2	ω_1
1	450	$8 \cdot 10^{12}$	13300	8,6	$7,8 \cdot 10^9$	$4,3 \cdot 10^8$
2	1370	$8 \cdot 10^{12}$	4400	13	$24 \cdot 10^9$	$13,3 \cdot 10^8$
3	2280	$5 \cdot 10^{12}$	2200	19	$39 \cdot 10^9$	$22 \cdot 10^8$

X

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APPROVED FOR RELEASE: 06/14/2000

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Text to the Table: i denotes the amplification of the passing signal,
 n - the plasma density, ϵ_{\parallel} the longitudinal component of the dielectric
constant, λ_{pl} the wavelength in the plasma, ω_e the electron- and ω_i the
ion cyclotron frequency. The frequency of the sounding generator was
 $\omega = 18 \cdot 10^7$.

Card 4/4

26.2311

22770
3/037/61/031/005/001/020
3104/3205

AUTHORS: Zavoyksiy, Ye. K., Kovar, I. A., Patrushev, B. I.,
Rusanov, V. D., and Frank-Kamenetskiy, D. A.

TITLE: Magnetosonic method of plasma ionization

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 5, 1961, 513-517

TEXT: The conventional methods of producing concentrated plasma are discussed in the introduction. It is noted that the application of these methods to a magnetic field is limited. The thermal method can only be used for atoms of low ionization potentials. Ionization by longitudinal current causes instabilities, and ionization by an oscillating electron beam meets with experimental and technical difficulties. The concentration of plasma attainable by h-f discharge is limited by the plasma frequency, and the production of concentrated plasma by a longitudinal alternating field requires the use of millimeter and sub-millimeter waves. The authors tested several methods of obtaining concentrated plasma, which are not limited by the plasma frequency. This is achieved by an alternating electric field, the electric vector of which is perpendicular to a

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Magnetosonic method...

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B104/B205

static magnetic field. This method makes it possible to use electron and ion-cyclotron or magnetosonic resonances. The latter method is not limited as to the attainable plasma concentration. It makes use of magnetosonic oscillations of a limited plasma volume, and from the theory of these oscillations it follows that the velocity amplitude of the azimuthal electron drift is given by $v_e = \omega V / \omega_i$ (1), where V denotes the velocity amplitude of the radial plasma motion. For the kinetic electron energy one has

$$E = \frac{mv_e^2}{2} = \frac{1}{2} \frac{\omega^2}{\omega_i \omega_e} \frac{H^2}{4\pi n_e} \quad (3)$$

where H_0 indicates the strength of the static magnetic field, ω the amplitude of the alternating magnetic field, and ω its frequency; ω_e and ω_i are the electron and ion cyclotron frequencies, respectively, and n_e denotes the electron concentrations. Ionization by radial magnetic sound is possible if its energy is higher than the ionization energy. It is obvious that the required amplitude of the alternating field is the higher, the higher are the concentration and strength of the static field. With a

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Magnetosonic method...

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given amplitude of the h-f field H and a given plasma concentration, there exists a threshold H^* of the static field strength above which ionization will not be possible any longer. By increasing the amplitude of the h-f field, the strength of the static field and the attainable plasma concentration can be extended infinitely. In a strong static field, however, a very strong alternating field is required for obtaining high concentrations by radial magnetic sound. Ionization by magnetic sound has been observed experimentally in a quasi-static field in several installations. Effective ionization occurred both below and above the hybrid frequency, resulting in concentrations of more than 10^{13} cm^{-3} . The ionization had the nature of resonance and was always accompanied by the penetration of an alternating field into the plasma. Fig. 1 shows resonance ionization by a h-f magnetic field with an increase of the quasi-static magnetic field in time. By blanking a 3-cm probe signal it was possible to indicate a concentration higher than 10^{12} cm^{-3} . The penetration of an external h-f field was observed by means of a magnetic probe introduced into the discharge space. In fields larger than H^* , concentration dropped considerably. It could be shown that in experiments

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27280

26.2321

S/056/61/041/002/001/028
B102/B205

AUTHORS:

Borodin, A. V., Gavrin, P. P., Kovan, I. A., Patrushev, B. I.,
Nedoseyev, S. L., Rusanov, V. D., Frank-Kamenetskiy, D. A.

TITLE:

Magnetoacoustic oscillations and the instability of an induction pinch

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41,
no. 2(8), 1961, 317 - 321

TEXT: The results of experiments on a plasma pinch are presented. The experimental arrangement used is schematically shown in Fig.1. A vacuum chamber (10^{-7} mm Hg, 450 - 500°C) made of quartz served as discharge space. Most experiments were performed in air (10^{-1} - 10^{-2} mm Hg), and some of them in hydrogen, argon, xenon, and helium (10^{-1} - 10^{-3} mm Hg). The magnetic field was generated by a homogeneous turn with an inductance of 30 cm, and a 200-kw h-f generator was used for pre-ionization. The

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Magnetoacoustic oscillations and...

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B102/B205

behaviour of the discharge was studied with the aid of a quick-acting photorecorder, type CQP- 2M(SFR - 2M), and a magnetic probe. The directions of photographing are indicated in Fig.1 Pictures taken in the axial direction show that the incandescence of the gas in the first semiperiod appears in the form of an annular tube. This indicates that the radial oscillations originate from the cold plasma contained in the incandescing tube. Pictures were taken in intervals of $0.3 \mu\text{sec}$. The first pinch is attributed to the formation of a relatively weak shock wave. In air with a pressure of $8 \cdot 10^{-2} \text{ mm Hg}$, the shock wave has a velocity of $2.3 \cdot 10^6 \text{ cm/sec}$ and a front width of $\sim 0.7 \text{ cm}$. The discontinuity of the magnetic field at the axis is explained by collisions of strong shock waves. The radial oscillations are ascribed to magnetoacoustic oscillations of the plasma column. The boundary conditions prevailing in this case are analyzed in the following. The analysis is complicated by the fact that the plasma column is copper-shielded. The authors discuss two limiting cases, one of which is based on the assumption that the plasma oscillates as if it were completely enclosed by a copper shield. This assumption was found to be correct. The boundary condition $J_1(kR) = 0$, where $kR \equiv \mu = 1.84, 5.3, \dots$

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Magnetoacoustic oscillations and...

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(J - Bessel function), is satisfied here. Using results of Frank-Kamenetskiy the authors obtain the following relation for the frequency of magnetoacoustic oscillations: $f = \mu \frac{H}{nm_0} / 2\pi R \sqrt{4\pi M(n_0 + n_i)}$, where M is the ion mass, n_i is the ion concentration, and n_0 is the concentration of neutral particles. A comparison between experimental and theoretical results obtained for H₂, N₂, and Ar shows that: 1) the dependence of the eigenfrequency on the gas mass is in good agreement with theory; 2) the agreement between the theoretical and experimental absolute values of the frequencies is worse, since many important facts have not been considered. Conclusions: Rapid transverse contraction of plasma results in the occurrence of free magnetoacoustic oscillations of the plasma column, which are damped in time. At the instant of maximum contraction of the annular tube of the plasma, "tongues" protruding along the field are ejected (inertial instability). The excitation of oscillations may be attributed to the rapid contraction of the annular tube without a field. The contraction is caused by shock waves. The tube is formed by the mixing of

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27180

Magnetoacoustic oscillations and...

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B102/B205

the fields inside and outside the plasma, which have opposite directions.
Ye. K. Zavoyskiy is thanked for his interest in the work, and L. I. Rudakov
for discussions. There are 6 figures, 1 table, and 10 references: 7 Soviet
and 3 non-Soviet.

SUBMITTED: January 27, 1961

Legend to Fig.1: 1) 50-kv rectifier; 2) capacitor bank ($27\mu f$, 50 kv);
3) gap in the turn for photographing; 4) turn for generating the magnetic
field; 5) quartz vacuum chamber; 6) and 8) h-f generator; 7) magnetic
probe; 9) starter; a) to pump; b) to oscilloscope; c) directions of
photographing.

Card 4/5

KOVAN, I.A.; PATRUSHEV, B.I.; RUBANOV, V.D.; TILININ, G.N.; FRANK-KAMENETSKIY,
D.A.

Effect of spatial amplification of variable magnetic fields in the
case of magnetooacoustic resonance in a plasma. Zhur. eksp. i teor.
fiz. 43 no.1:16-20 J1 '62. (MIRA 15:9)
(Magnetic fields) (Plasma (Ionized gases))

AKHMATOV, A.P.; BLINOV, P.I.; BOLOTIN, V.F.; BORODIN, A.V.;
GAVRIN, P.P.; ZAVOYSKIY, Ye.K.; KOVAN, I.A.; OGANOV, M.N.;
PATRUSHEV, B.I.; PISKAREV, Ye.V.; RUSANOV, V.D.; SMOLKIN,
G.Ye.; STRIGANOV, A.R.; FRANK-KAMENETSKIY, D.A.; CHEREMNYKH,
P.A.; CHIKIN, R.V.

[Magnetoacoustic resonance in a plasma] Magnito-zvukovoi
rezonans v plazme. Moskva, In-t atomnoi energii, 1960. 23 p.
(MIRA 17:2)

RUSANOV, V.D.; PATRUSHEV, B.I.; KOVAN, I.A.; GARKUSHA , V.I.;
FRANK-KAMENETSKIY, D.A.

[Use of double electric probes in studying magneto-acoustic resonance in a plasma] Issledovanie magnitno-zvukovogo rezonansa v plazme s pomoshch'iu dvoimykh elektricheskikh zondov. Moskva, In-t atomnoi energii AN SSSR, 1960. 18 p. (MIRA 17:1)

ACCESSION NR: AT4025314

S/0000/63/000/000/0237/0246

AUTHORS: Kovan, I. A.; Moskvin, Yu. L.; Rusanov, V. D.; Smirnov, V. P.

TITLE: Investigation of plasma parameters in a strong magnetic field with the aid of double electric probes

SOURCE: Diagnostika plazmy* (Plasma diagnostics); sb. statey. Moscow, Gosatomizdat, 1963, 237-246

TOPIC TAGS: plasma, plasma diagnostics, probe method, double probe method, plasma in strong magnetic field, probe method accuracy, Larmor radius, probe characteristic dimensions, charged particle density, electron temperature, saturation current, effect of probe size, probe current, probe current derivative

ABSTRACT: In view of the doubtful reliability of data obtained with probes on a plasma in a strong magnetic field, when the particle

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ACCESSION NR: AT4025314

Larmor radius is comparable with the probe characteristic dimension, the authors have checked on the probe readings by other diagnostic means. The plasma parameters measured were electron temperature and charged-particle density at saturation. The electron temperature was determined by plotting the derivative of the current with respect to the voltage against the probe voltage. The charged-particle density was measured by determining the saturation current and also by measuring the derivative of the probe current with respect to the voltage in the vicinity of zero voltage. The effect of the probe size was also investigated. It is shown that the probe measurements deviate from the others by as much as 40% and become particularly unreliable in strong magnetic fields. Orig. art. has: 5 figures.

ASSOCIATION: None

SUBMITTED: 19Oct63

DATE ACQ: 16Apr64

ENCL: 01

SUB CODE: PH

NO REF SOV: 005

OTHER: 003

Card 2/32

L 20385-66 EWT(1)/ETC(f)/EPP(n)-2/ENG(m)/ETC(m)-6 IJP(s) 4W/AT
ACC NR: AT6001560 SOURCE CODE: UR/3136/65/000/911/0001/0020

AUTHOR: Kovan, I. A.; Podgornyy, I. M.; Rusanov, V. D.; Smirnov, V. D.; Spektor, A. M.; Frank-Kamenetskiy, D. A.

ORG: Institute of Atomic Energy im. I. V. Kurchatov (Institut atomnoy energii)⁷²⁶⁸

TITLE: Magnetosonic heating of a plasma²⁷

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-911, 1965. Magnitno-zvukovoy nagrev plazmy, 1-20

TOPIC TAGS: magnetoacoustic effect, magnetoactive plasma, plasma resonance, plasma waveguide, plasma oscillation, plasma heating, magnetic trap/ Vega

ABSTRACT: The authors present results of a study of excitation, propagation, and absorption of oblique magnetic-sound waves in a hydrogen or helium plasma at 10--30 Mcs. More attention than in the past is paid to the excitation of magnetic-sound waves, and particularly magnetic-sound resonance in a confined plasma. Various experiments with direct magnetic-sound waves are discussed and experiments aimed at heating plasma with the aid of oblique waves and magnetic-sound resonance are described. A "Vega" adiabatic trap with high frequency source of cold plasma, designed for this purpose is briefly described. The plasma in these experiments was produced by high frequency discharge, using generators operating at 20-50 Mcs

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ACC NR: AT6001560

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with a nominal power of ~200 kw. The transverse field was produced by discharging a capacitor through a solenoid. The magnetic-field pulse was 20 msec. The investigations have shown that when beyond-cutoff plasma-waveguide conditions are produced resonance accumulation of energy is possible in the plasma column when the magnetic sound wave propagates almost transverse to the static magnetic field. This phenomenon is treated as magnetic-sound resonance at lower radial modes. The spatial amplification obtained in strong magnetic fields corresponds to a resonator $Q \sim 15$, assuming that only transverse waves are excited in the resonator. This value of Q is limited by dissipative mechanisms, particularly nonlinear processes. The study of the oblique magnetic-sound waves has shown that the dissipative processes can be more intense here and that in the case of nonstationary waves of large amplitude a nonlinear dissipation, connected with collective mechanisms, can arise. The experiments have also shown that such a wave can be used to transfer energy effectively to the electronic component. The two plasma heating methods considered (resonant and shock-wave) can be particularly promising for the production of hot plasma in toroidal traps. The authors thank Ye. K. Zavoyksiy, M. A. Leontovich, B. B. Kadomtsev, and V. D. Shafranov for numerous discussions.

Orig. art. has: 11 figures and 11 formulas.

SUB CODE: 20/ SUHM DATE: none / ORIG REF: 028/ OTH REF: 003

Card 2/2 BK

KOVAN, V. M.

DECEASED

1963/1

c. July 1962

POWER ENGINEER

See IIC

KOVANDA, Jiri, promovany geolog

Quaternary fresh-water limestone in Czechoslovakia, raw material
for agriculture, industry, and export. Geol pruzkum 6 no.11:323-
324, 325 N '64.

1. Central Geological Institute, Prague.

KOVANDA, Jiri, promovany geolog

Quaternary freshwater limestones of Czechoslovakia as raw material for agriculture, industry, and export. Pt.2.
Geol pruzkum 6 no.12:355-357 D '64.

1. Central Geological Institute, Prague.

HOLEMAR, Alois; KOVANDA, Ladislav

Gear milling cutter, spiral-fluted. Stroj vyr 10 no.6:318
'62.

1. Zdarske strojirny a slevary, n.p., Zdar nad Sazavou.

KOVANDA, Milan, MUC

Preoperative care in and advantages of blood transfusion in
hip surgery according to Zahradnick's method. Acta chir. orthop.
traum. czech. 24 no.1:70-73 Jan 57.

1. Podle materialu orthopedicke kliniky prof. Dr. B. Frejky v
Brne.

(HIP, surg.
in child., preop. care & preoper. blood transfusion (Cz))
(PREOPERATIVE CARE, in var. dis.
hip surg. in child (Cz))
(BLOOD TRANSFUSIONS, in var. dis.
same)

FREJKA, B.; KOVANDA, M.

Surgical therapy of congenital hip dislocation. Acta chir. orthop. traum. cech. 26 no.5-6:523-541 1959.

1. Ortopedicka klinika university v Brne, prednosta prof. dr. B. Frejka.
(HIP, fract. & disloc.)

KOVANDA, M.;ROTT, Z.

Report on the examination of the hip in newborn infants. Acta
chir. orthop. traum. cech. 27 no.1:21-28 F '60

1. Ortopedicka klinika university v Brne, prednosta prof. MUDr.
B. Frejka.
(HIP fract. & disloc.)

BOZDECH, Zdenek; KOVANDA, Milan

Milkmann's syndrome -- a rare form of osteomalacia. Acta chir.orthop.
traum.cech.27 no.4:378-380 Ag'60.

1. Ortopedicka klinika university v Brne, prednosta prof.dr.
lek.ved Bedrich Frejka.
(OSTEOMALACIA case reports)

BOZDECH, Z.; KOVANDA, M.

Changes in the angle between the neck and diaphysis of the femoral bone as a sequel of damage of the greater trochanter following Zahradnicek's operation. Acta chir. orthop. trauma. Czech. 28 no.1:64-66 F '61.

1. Ortopedicka klinika University J. Ev. Purkyne v Brne, prednosta prof. dr. B. Frejka, doktor lek. ved.

(HIP fract & disloc)

KOVANDA, M.; ROTT, Z.

Habitual dislocation of the patella. Acta chir. orthop. trauma.
Cech. 28 no.2:115-117 Ap '62.

1. Ortopedicka klinika University J.E.Purkyne v Brne, predn. prof.
dr. lek. ved B.Frejka.
(PATELLA fract & disloc)

KOVANDA, M.; ROTT, Z.

Etiological factors in congenital hip dislocation. Observations on
1052 children. Acta chir. orthop. traum. cech. 29 no.2:161-165 '62.

] Ortopedicka klinika LF University J.Ev.Purkyne v Brne, predn.
doc. dr. M.Janecek.
(HIP fract & disloc)

KOVANDOVA, L.

Mechanized preparation of divided powders. Cesk. farm. 11 no. 7:
362-364 S '62.

1. Rozvojove lekarnicke stredisko, Praha.
(CHEMISTRY, PHARMACEUTICAL)

Veterinary Medicine

BULGARIA

KOVANDZHIEV, Dr. Iv.

Veterinary-Sanitary Control of Food Products of Animal Origin During Transportation

Sofia, Veterinarna Sbirka, Vol 63, No 7, 1966, pp 15-17

Abstract: In connection with the increased production and use of food products of animal origin in Bulgaria, instances of spoilage of these products in transportation, particularly as far as meat is concerned, have become more frequent. The reasons are inadequate sanitary inspection of the meat, delays in transportation, and faulty refrigeration in railroad cars because of melting of ice when transportation is unduly delayed. Inspection of food products in transport and supervision of their transportation to ensure proper refrigeration and delivery within a period of time during which these products remain fresh are essential.

1/1

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CIA-RDP86-00513R000825620008-0

KOVANESHNIKOV, A. (UL7HB) (Chimkent KazakhSSR)

Long ago ripened problem. Radio no.12:16 D '58. (MIRA 11:12)
(Radio, Shortwave--Competitions)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825620008-0"

IVANOV, A.I., inzh.; KOVANEV, B.V., inzh.

Over-all mechanization in the repair of diesel locomotives.
Zhel. dor. transp. 45 no.6:73-76 Je '63. (MIRA 16:7)

1. Nachal'nik lokomotivnogo depo Liski Yugo-Vostochnoy dorogi
(for Ivanov). 2. Nachal'nik proizvodstvenno-tehnicheskogo
otdela depo Liski Yugo-Vostochnoy dorogi (for Kovanev).
(Diesel locomotives—Maintenance and repair)

IVANOV, A.I.; KOVANEV, B.V.

The workers of the Liski Railroad Repair Shop have won the right for it to be called an enterprise of communist labor.
Elek. i tepl. tiaga no.5:8-11 My '63. (MIRA 16:8)

1. Nachal'nik depo Liski Yugo-Vostochnoy dorogi (for Ivanov).
2. Nachal'nik proizvodstvenno-tehnicheskogo otdela depo Liski Yugo-Vostochnoy dorogi (for Kovanev).
(Liski—Railroads—Employees)
(Liski—Railroads—Repair shops)

KOVANEV, B.V.

Reconditioning of the high-pressure fuel pipes. Elek. i tepl.tiaga
no.8:17 Ag '63. (MIRA 16:9)

1. Nachal'nik proizvodstvenno-tehnicheskogo otdela depo Liski
Yugo-Vostochnoy dorogi.
(Diesel locomotives--Maintenance and repair)

KOVANEV, V. A.

"Innervation of the Splanic Artery." First Moscow Order of Lenin Med Inst,
Moscow, 1955
(Dissertation for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya Letopis', No. 32, 6 Aug 55

KOVANEV, V.A.

Does ditilin have tachyphylactic properties. Grud. khir. l no.4:
87-90 Jl-Ag '59. (MIRA 15:3)

1. Iz laboratorii anestezicologii (zav. - kand.med.nauk V.P.
Smol'nikov) Instituta grudnoy khirurgii AMN SSSR (dir. - prof.
A.A. Busalov, nauchnyy rukovoditel' - akad. A.N. Bakulev).
Adres avtora: Moskva, Leninskiy prospekt,d.8,Institut grudnoy
khirurgii AMN SSSR.

(CHOLINE)

KOVANEV, V.A. (Moskva, Zh-235, Pervaya Kur'yanovskaya ul., d.12, kv.2)

Innervation of the lienal artery. Arkh. anat. gist. i embr. 36 no.4:
196-50 Ap '59. (MIRA 12:7)

1. Kafedra normal'noy anatomii (zav. - prof. G.F. Ivanov [deceased])
I Moskovskogo ordena Lenina meditsinskogo instituta im. I.M. Sechenova.
(ARTERIES, SPLENIC, innervation
(Rus))

KOVANEV, V.A.

Acute adrenocortical insufficiency; survey of the pertinent literature. Grud. khir. 2 no.1:122-127 Ja-F '60. (MIRA 15:3)

1. Iz laboratorii anesteziologii Instituta grudnoy khirurgii
(dir. - prof. A.A. Busalov) AMN SSSR. Adres avtora: Moskva,
Leninskiy prosp., 8, Institut grudnoy khirurgii AMN SSSR.
(ADRENAL CORTEX)
(STRESS (PHYSIOLOGY))

BEREZOV, Yu.Ye.; KOVANEV, V.A.; POTEMKINA, Yo.V.

Unsolved problems in chest surgery. Grud. khir. 2 no.3:115-125
My-Je '60. (MIRA 15:3)
(CHEST-SURGERY)

KOLESNIKOV, S.A.; HEREZOV, Yu.Ye.; SERGEYEV, V.M.; KOVANEV, V.A.

"Essays on chest surgery" by N.M. Amosov. Reviewed by S.A. Kolesnikov
and others. Grud. khir. 2 no. 5:122-127 S-0 '60. (MIRA 16:5)
(CHEST--SURGERY) (AMOSOV, N.M.)

KOVANEV, V.A.; FINKEL', I.I.

Stress reaction and its role in postoperative mortality in patients with lung disease. Grud. khir. 2 no.6:76-83 N-D '60. (MIRA 14:1)

1. Iz laboratorii anesteziologii (zav. - kand.meditinskikh nauk V.P. Smol'nikov) i patomorfologii (zav. - prof. Ya.L.Rapoport) Instituta grudnoy khirurgii (dir. - prof. S.A.Kolesnikov, nauchnyy rukovoditel' - akademik A.N. Bakulev) AMN SSSR. Adres avtorov: Moskva, Leninskiy prospekt, d.8, Institut grudnoy khirurgii AMN SSSR.
(ADRENAL GLANDS) (STRESS)
(LUNGS--DISEASES)

SERGEYEV, V.M., kand.meditinskikh nauk; KOVANEV, V.A., kand.meditinskikh nauk

Symposium on the surgery of mitral commissurotomy. Vest.AMN SSSR
15 no.5:75-81 '60. (MIRA 14:3)
(MITRAL VALVE-SURGERY)

KOVANEV, V.A., kand.med.nauk; SERGEYEV, V.M., kand.med.nauk

Current problems in thoracic surgery. Vest.AMN SSSR 15 no.6:75-
84 '60.
(CHEST-SURGERY) (MIRA 14:1)

KOVANEV, V.A., kand.med.nauk

Preoperative medical treatment of patients and anesthesia. Khirurgiya 36 no.10:135-142 0 '60.
(MIRA 13:11)

1. Iz laboratorii anestesiologii (zav. - kand.med.nauk V.P. Smol'nikov) Instituta grudnoy khirurgii (dir. - prof. S.A. Kolesnikov; nauchnyy rukovoditel' - akad. A.N. Bakulev) AMN SSSR.
(ANESTHESIA)

KOVANEV, V.A.; MISTAKOPULO, N.F.; RYABOV, G.A.; SMOL'NIKOV, V.P.

Some properties of muscle relaxants. Vest. khir. 84 no.5:77-81
Mys '60. (MIRA 13:12)

(MUSCLE RELAXANTS)

KOVANEV, V.A.

Method of using adrenal cortex hormones in anesthesiological
practice. Grud.khir. no.3:86-90 '61. (MIRA 14:9)

1. Iz laboratorii anestesiologii Instituta grudnoy khirurgii
(dir. - prof. S.A. Kolesnikov, nauchnyy rukovoditel' - akad.
A.N. Bekulev) AMN SSSR.
(ADRENOCORTICAL HORMONES) (ANESTHESIOLOGY)

BEREZOV, Yu.Ye.; SERGEYEV, V.M.; KOVANEV, V.A.

Surgery on the open heart under conditions of artificial
blood circulation and hypothermia. Grud.khir. no.3:117-125
'61. (MIRA 14:9)
(HEART--SURGERY) (PERFUSION PUMP (HEART)
(HYPOTHERMIA)

KOVANEV, V.A., kand.med.nauk; BUYANOVA, N.N.

Acute adrenocortical insufficiency in a case of undiagnosed
Addison's disease. Khirurgia no.11:71-73 '61.

l. Iz Instituta grudnoy khirurgii (dir. - prof. S.A. Kolesnikov)
AMN SSSR i fakul'tetskoy khirurgicheskoy kliniki (zav. - akad.
A.N. Bakulev) II Moskovskogo gosudarstvennogo meditsinskogo insti-
tuta.

(ADDISON'S DISEASE) (ADRENOCORTICAL HORMONES)

GEL'SHTEYN, G.G.; KOVANEV, V.A.; SEROV, V.V. (Moskva)

Electrocardiographic changes in experimental glomerulonephritis.
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AMN SSSR prof. A.I.Strukov) i Instituta grudnoy khirurgii AMN SSSR.
(ELECTROCARDIOGRAPHY) (KIDNEYS--DISEASES)

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ABSTRACTS

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AMN SSSR.

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(RESERPINE)

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