

BELKIN, R. I.

PA 8T53

USSR/Medicine - Therapy
Thyroidine

Mar 1947

"Treatment of Wounds of Mouth Tissue with
Thyroidine," R. I. Belkin, 4 pp

"CR Acad Sci" Vol LV, No 7

Results of treatment on patients and control
group, and comparison of time of healing.

8T53

Effect of thyroids on regeneration of limbs in axolotl and Amblystoma. R. I. Belkin. *Doklady Akad. Nauk S.S.S.R.* 70, 327-9(1930); cf. Biyakher, *Zool. Zhur.* 11, No. 2(1932).—Amputation of a hind limb of either animal followed by keeping the animals in H₂O contg. 1:20,000 thyroids led to regeneration within 60-75 days, which is slightly shorter than the normal period of regeneration. Hence the hormone does not retard regeneration processes.
G. M. Kosolapoff

BELKIN, R. I.

I.I. Mechnikov - velikii russkii biolog [I.I. Mechnikov, great Russian biologist].
Moskva, Goskul'tprosvetizdat, 1953. 128 p.

SO: Monthly List of Russian Accessions, Vol 6 No 4, July 1953

BELKIN, R.I.

MECHNIKOV, I.I.; ANICHKOV, N.N., redaktor; ABRIKOSOV, A.I., redaktor;
BEKLEMISHEV, V.H., redaktor; DOGWL', V.A., redaktor; ZHUKOV-
VEREZHNIKOV, N.N., redaktor; ZDRODOVSKIY, P.F., redaktor; ZIL'BER;
L.A., redaktor; KOSHTOYANTS, Kh.G., redaktor; MILENUSHKIN, Yu.I.;
redaktor; PAVLOVSKIY, E.N., redaktor; SIROTININ, N.N., redaktor;
TIMAKOV, B.D., redaktor; BELKIN, R.I., redaktor; NEKRASOV, A.K.,
redaktor; BELKIN, P.I., redaktor; KIRSANOVA, N.A., tekhnicheskii
redaktor

[Collected works issued by the Academy] Akademicheskoe sobranie
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company volume two] Al'bom risunkov ko vtoromu tomu. 1954. 43 p.
55 fold. plates (in portfolio)]... (MLRA 8:7)
(Embryology)

MECHNIKOV, I.I.; KROTKOV, F.G., glavnyy redaktor; VASETSKIY, G.S., redaktor;
BELKIN, R.I., redaktor; ANICHKOV, N.H., redaktor; ZHDANOV, V.H., re-
daktor; BEKLEMISHEV, V.N., redaktor; KRAYEVSSKIY, N.A., redaktor;
BEKLEMISHEV, V.N., redaktor; KRAYEVSKIY, N.A., redaktor; PAVLOVSKIY,
Ye.N., redaktor; VYGODCHIKOV, G.V., redaktor; SOBOL', L.I., redaktor;
ROTERMEL', R.P., tekhnicheskiy redaktor.

[Collected works published by the Academy] Akademicheskoe sobranie
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izd-vo med. lit-ry. Vol. 13. 1954. 242 p. (MLRA 7:11)
(Biology)

Belkin, R.I.

MECHNIKOV, I.I.; KROTKOV, F.G., redakter; ANICHKOV, N.M., redakter;
BEKLEMISHEV, V.B., redakter; VYGODCHIKOV, G.V., redakter; ZHDANOV,
V.M., redakter; ZIL'BER, L.A., redakter; KRAYEVSKIY, M.A., redakter;
PAVLOVSKIY, Ye.N., redakter; SOBOL', S.L., redakter; BELKIN, R.I.,
redakter; DOGEL', V.A., redakter; GABRILAND, M.I., tekhnicheskiy
redakter; POPRYADUKHIN, K.A., tekhnicheskiy redakter.

[Collected works (Academy edition)] Akademicheskoe sobranie sochinenii.
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1. 1955. 390 p. (BIOLOGY) (MIRA 9:5)

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MECHNIKOV, I.I.; KROTKOV, F.G.,redaktor; ANICHKOV, N.M.,redaktor;
BEKLEMISHEV, V.N.,redaktor; VYGODCHIKOV, G.V.,redaktor;
ZHDANOV, V.M.,redaktor; ZIL'BER, L.A.,redaktor; KRAYEVSKIY, N.A.,
redaktor; PAVLOVSKIY, Ye.N.,redaktor; SOBOL', S.L.,redaktor;
~~BRILIN, R.I.,redaktor; NEKRASOV, A.D.,redaktor; BRILIN, R.I.,~~
redaktor; GABERLAND, M.I.,tekhnicheskij redaktor

[The Academy edition of his collected works] Akademicheskoe
sobranie sochinenii. Red. kollegiia; F.G. Krotkov i dr. Moskva,
Gos. izd-vo med. lit-ry Vol.3. 1955. 504 p.-----
[Album of drawings to accompany volume three] Al'bom risunkov k
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MECHNIKOV, Il'ya Il'ich; KROTKOV, F.G., redaktor; VYGODCHIKOV, G.V., redaktor; BELKIN, R.I., redaktor; GABERLAND, M.I., tekhnicheskij redaktor

[Collected works (Academy edition)] Akademicheskoe sobranie sochinenii. Moskva, Gos. izd-vo meditsinskoi lit-ry. Vol. 9. 1955. 365 p. (MIRA 9:4)
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MECHNIKOV, Il'ya Il'ich; PIONTKOVSKIY, I.A., redaktor; BELKIN, R.I.,
redaktor; BEL'CHIKOVA, Yu.S., tekhnicheskij redaktor; GLUKHO-
YEDOVA, G.A., tekhnicheskij redaktor

[Collected works; Academy edition] Akademicheskoe sobranie sochinenii.
Moskva, Gos. izd-vo med. lit-ry. Vol.12 Red., posleslovie i primechania
I.A.Piontkovskogo. 1956. 322 p. (MIRA 9:12)
(BIOLOGY)

BELKIN, R.I.; VYGODCHIKOV, G.V.

I.I. Mechnikov an outstanding Russian microbiologist; 40th anniversary
of his death, 1916-1956. Zhur. mikrobiol. epid. i immun. 27 no.9:3-13
S '56. (MLRA 9:10)

(MECHNIKOV, IL' IA IL' ICH, 1845-1916)

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A.I., tekhn. red.

[Academy edition of collected works] Akademicheskoe sobranie sochi-
nenii. Red. kollegiia: F.G. Krotkov i dr. Moskva, Gos. izd-vo med.
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(Biology)

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NEKRASOV, Aleksey Dmitriyevich; PARAMONOV, A.A., otvetstvennyy red.;
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1957. 469 p. (MIRA 11:1)

(Darwin, Charles Robert, 1809-1882)

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[Academy edition of I.I.Mechnikov's collected works] Akademicheskoe sobranie sochinenii. Red.kolleghia: F.G.Krotkov i dr. Moskva, Gos. izd-vo med.lit-ry. Vol.14. Red.R.I.Belkin i I.D.Strashun. 1959. Vol.14. Red.R.I.Belkin i I.D.Strashun. 1959. 426 p.
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Evolutionary foundation of I.I.Mechnikov's phagocytic theory.
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(MIRA 13:11)

1. Deystvitel'nyy chlen AMN SSSR (for Krotkov).
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I.I. Mechnikov's election to the membership of Royal Society.
Biul. MOIP. Otd. biol. 65 no. 6:141-146 N-D '60. (MIRA 14:2)
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Abstract of M.V.Lomonosov's work "On the layers of the earth" composed
by Il'ia Mechnikov. Biul. MOIP. Otd. biol. 66 no.5:36-42 3-0 '61.
(MIRA 14:10)

(LOMONOSOV, MIKHAIL VASIL'EVICH, 1711-1765)
(GEOLOGY) (MECHNIKOV, IL'IA)

BELKIN, R.I.

(Moskva)

I.I. Metchnikov and the Odessa Bacteriological Station; on the
75th anniversary of the first Russian microbiological insti-
tution; Sov. zdrav. 21 no.9:61-67 '62 (MIRA 17:4)

MECHNIKOV, Il'ya Il'ich, BELKIN, R.I. red. [deceased]; KROTKOV,
F.G., red. *1964*

[Academy edition of the collected works] Akademicheskoe
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463 p. (MIRA 18:2)

BELKIN, Rafail Semuilovich, dotsent; VINBERG, A.I., prof., doktor yuridich. nauk, red.

[Theory of and practice in testing the materials of criminal investigation] Teoriia i praktika sledstvennogo eksperimenta. Pod obshchei red. A.I.Vinberga. Moskva, Vysshaya shkola MVD SSSR, 1959. 169 p. (MIRA 13:4)

(Criminal investigation)

SHIMANOVA, Zinaida Yegorovna; BELKIN, R.S., doktor yurid. nauk,
red.; GORBACHEV, I.N., red.; ZLOBINA, Z.P., red. izd-va;
MAYOROV, V.V., tekhn. red.

[Technical expert examination of the causes of fires] Po-
zharno-tekhnicheskaya ekspertiza. Moskva, Izd-vo kommun.
khoz.RSFSR, 1963. 85 p. (MIRA 16:12)
(Fire investigation)

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[Currency circulation and credit in the U.S.S.R.] Denezh-
nce obrashchenie i kredit SSSR. Moskva, Vysshaya shkola,
1965. 458 p. (MIRA 18:8)

1. Vsesoyuznyy zaachnyy finansovo-ekonomicheskii institut
(for all except Dubnova).

GRINENKO, V.I., inzh.; BELKIN, S.A., inzh.; ASTAFUROVA, N.I., kand.tekhn.nauk

Welding nonrotatable pipe joints of Kh19N9T steel by the automatic
pressure method. Svar. proizvod. no.10:27-29 0 '63. (MIRA 16:11)

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met. 33 no.10:87 O '60. (MIRA 13:10)
(Copper ores) (Ore dressing)
(Molchanov, A.A.) (IUkhtanov, D.M.)

BELKIN, S.L. and A.S. DRUZHININ

Prakticheskii metod podscheta kharakteristik vintov. Moskva, 1939. 64 p., table
diags. TSAGI. Trudy, no. 429)

Title tr.: Practical method of calculating propeller characteristics.

DNACA RFB

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress,
1955

BELKIN, S.R.; BOYAROV, A.I.; DEMINOV, I.A.; OVCHARENKO, G.I.

Automatic taper-roller sorters. Stan.i instr. 28 no.2:21-24
F '57. (MLRA 10:5)
(Roller bearings) (Sorting devices)

ANDREYEV, V.I.; ~~BELKIN, S.R.~~; BOYAROV, A.I.; DEMINOV, I.A.;
OVCHARENKO, G.I.

Automatic machine for precision sorting of small bearing balls.
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(Sorting devices)

BELKIN, V.

Work results of a research laboratory. Prof.-tekh. obr.
18 no.5:16-18 My '61. (MIRA 14:8)
(Labor supply) (Job analysis)

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Cost of construction of river ships and ways to reduce it.
Rech. transp. 20 no.12:21-25 D '61. (MIRA 14:12)
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BELKIN, V., kand. ekonom. nauk

Building new schools is an urgent task of the organs of technical education. Prof.-tekh. obr. 22 no.7:3-5 J1 '65.

(MIRA 18:8)

1. Chlen kollegii Gosudarstvennogo komiteta po professional' no-
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BELKIN, V.

Vocational education in France. Prof.-tekh. obr. 21 no.6:27-30 Ja
'64. (MIRA 17:9)

KANTSEL', Ya.O., inzh.; BELYANCHIKOV, V.N., inzh.; NOVIKOV, I.V.,
inzh.; ZAYTSEV, L.Ye., inzh.; AKIL'YEV, S.A., inzh.;
BELKIN, V.A., inzh.; POCHKINA, L.A., inzh.; VASIL'YEV,
O.A., inzh.; KUZ'MINYKH, A.A., red.izd-va; SHIBKOVA, R.Ye.,
tekhn. red.

[Service life of parts of excavating, construction and road
machinery; a reference catalog] Sroki sluzhby detalei ekska-
vatorov, stroitel'nykh i dorozhnykh mashin; katalog-spravochn-
nik. Izd.2., perer. i dop. Moskva, Goslesbumizdat. Pt.1. [Ex-
cavating machinery and hoisting equipment; cranes, loaders,
winches, and elevators] Ekskavatory i pod'emno-transportnoe
oborudovanie; krany, pogruchiki, lebedki, elevatory. 1963.
342 p.

(MIRA 17:3)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye po snab-
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inzh.; AKIL'YEV, S.A., inzh.; BELKIN, V.A., inzh.;
POCHKINA, L.A., inzh.; VASIL'YEV, O.A., inzh.; Prinimali
uchastiye: KOPEYKINA, O.P.; SMIRNOVA, A.N.; BELKINA, S.S.;
SHILINA, Ye.I.; LAGUNOV, Ye.N.; REZNIK, S.Z.; BRISMAN,
B.I.; KUZMINEKH, A.A.; SHIBKOVA, R.Ye.,
tel'marek.

[Operational life of parts of excavating, construction,
and road machinery; a reference catalog] Sroki sluzhby de-
talei ekskavatorov, stroitel'nykh i dorozhnykh mashin.
katalog spravochnik. Izd.2., perer. i dop. Moskva, Gos-
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machinery for manufacturing building materials] Dorozhnye,
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nykh materialov. 1963. 306 p. (MIRA 17:4)

1. "Stroitiyazhmashzapchast'," Tekhnicheskaya kontora. Kon-
struktorskoye byuro.

BELYANCHIKOV, V.N., inzh.; NOVIKOV, I.V., inzh.; GRACHEV, A.S.,
inzh.; BELKIN, V.A., inzh.; AKIL'YEV, S.A., inzh.

[Catalog and reference manual on the adaptability of
hydraulic and pneumatic systems to excavating, construc-
tion, and road machinery] Katalog-spravochnik primeniae-
mosti gidro- i pnevmosistem na ekskavatorakh, stroitel'-
nykh i dorozhnykh mashinakh. Moskva, Goslesbumizdat,
1963. 147 p. (MIRA 17:7)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye po snab-
zheniyu i sbytu produktsii tyazhelogo, traktornogo i stro-
itel'no-dorozhnogo oborudovaniya.

BELKIN, V.

On the work of the Scientific Research Laboratory on Problems of
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i zar. plata 3 no. 10:39-43 '60. (MIRA 13:12)
(Vocational education--Research)

BELKIN, V.

Toward a scientific approach to the training of industrial personnel. Prof.-tekh. obr. 17 no.7:1-3 J1 '60. (MIRA 13:8)

1. Zamestitel' zaveduyushchego nauchno-issledovatel'skoy laboratoriyey po professional'no-tehnicheskomu obrazovaniyu.
(Technical education)

VEYSBLAND, A.; TRUBNIKOV, S.; BELKIN, V.

International seminar of socialist countries on vocational and technical education. Prof.-tekh. obr. 17 no.9:27-29 S '60.

(MIRA 13:10)

(Vocational education--Congresses)

BELKIN, V.

"Vocational and technical education in the USSR."

Report submitted to the Conf. on the Application of Science and Technology
for the Benefit of the Less Developed Areas.
Geneva, Switzerland 4-20 February 1963

BELKIN, V.

Training of labor must be conducted on a scientific basis. Sots.
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(Technical education--Research)

BELKIN, V. B.

"New systems of vocational training and apprenticeship"

report to be submitted for the United Nations Conference on the
Application of Science and Technology for the Benefit of the Less
Developed Areas - Geneva, Switzerland, 4-20 Feb 63.

BELKIN, V.

First Congress of the Teachers of Bulgaria. Prof.-tekh.
obr. 19 no.8:29-31 Ag '62. (MIRA 15:12)
(Bulgaria—Education—Congresses)

BELKIN, V., kand. ekonom. nauk

Training of workers' cadres at the present stage. Prof.-tekh. obr.
20 no.1:3-6 Ja '63. (MIRA 16:2)

1. Zaveduyushchiy nauchno-issledovatel'skiy laboratoriyey Gosudarstven-
nogo komiteta Soveta Ministrov SSR po professional'no-tekhnicheskomu
obrazovaniyu.

(Vocational education)

BELKIN, V.D.

16(0); 28(2)

PHASE I BOOK EXPLOITATION

80V/3365

Akademiya nauk Azerbaydzhanskoy SSR

Tezisy dokladov Sovershechnaya po vychislitel'noy matematike i primeneniya sredstv vychislitel'noy tekhniki (Outlines of Reports of the Conference On Computational Mathematics and the Use of Computer Techniques) Baku, 1970. 63 p. 400 copies printed.

Additional Sponsoring Agencies: Akademiya nauk SSSR. Vychislitel'nyy tsentr, and Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.

No contributors mentioned.

PURPOSE: This book is intended for pure and applied mathematicians, scientists, engineers and scientific workers, whose work involves computation and the use of digital and analog electronic computers.

COVERAGE: This book contains summaries of reports made at the Conference on Computational Mathematics and the Application of Computer Techniques. The book is divided into two main parts. The first part is devoted to computational mathematics and contains 19 summaries of reports. The second section is devoted to computing techniques and contains 20 summaries of reports. No personalities are mentioned. No references are given.

Babich, Yu.A. On the Filtration of a Liquid in Nonhomogeneous Media	36
Makhmudov, Yu.A. System of Instructions for a Universal Digital Computer With Magnetic (Ferrite) Elements and its Circuits	38
Nikolayev, N. New Continuously Operating Mathematical Machines for the Solution of Mathematical Physics Problems	40
Magnova, Kh. Application of Mathematical Machines for the Solution of a Number of Scientific and Engineering Problems of Petroleum Production (Summary Reports)	41
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BELKIN, V. D.

Economic calculations by electronic calculating machines. Vop. ekon.
no.10:142-144 0 '59. (MIRA 12:12)
(Moscow--Electronic calculating machines)

BELKIN, V.D.

BR

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PHASE I BOOK EXPLOITATION SOV/5962

Vsesoyuznoye soveshchaniye po vychislitel'noy matematike i primeneniyu sredstv vychislitel'noy tekhniki, Baku, 1958.

Trudy (Transactions of the All-Union Conference on Computer Mathematics and Applications of Computers) Baku, Izd-vo AN Azerbaydzhanskoy SSR, 1961. 254 p. 500 copies printed.

Sponsoring Agency: Akademiya nauk Azerbaydzhanskoy SSR. Vychislitel'nyy tsentr.

Eds.: A.A. Dorodnitsyn, S.A. Aleskerov, and K.F. Shirinov; Ed. of Publishing House: A. Til'man; Tech. Ed.: T. Ismailov.

PURPOSE: The book is intended for mathematicians and other specialists interested in computer theory and uses for computers.

COVERAGE: The book contains the texts of 24 papers presented at the All-Union Conference on Computer Mathematics and Applications of Computers held in Baku, 3-8 Feb 1958. The "Resolution"

Card 1/8

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Transactions of the All-Union (Cont.) SOV/5962

of the conference, consisting of proposals for accelerating the development of computer mathematics and computer engineering, is also included.

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AGANBEGYAN, Abel Gezevich; BELKIN, Viktor Danilovich; BIRMAN, Igor'
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Nataliya Mikhaylovna; TRET'YAKOVA, Al'bin Feoktistovna; KONIKOV,
L.A., red.; PONOMAREVA, A.A., tekhn. red.

[Using mathematics and electronic machines in planning] Primenenie
matematiki i elektronnoi tekhniki v planirovanii. Moskva, Izd-vo
ekon. lit-ry, 1961. 290 p. (MIRA 14:11)
(Russia--Economic policy) (Economics, Mathematical)
(Electronic analog computers)

AGANBEGYAN, A.G.; BELKIN, V.D.; BIRMAN, I.Ya.; KARAPETYAN, A.Kh.;
RIMASHEVSKAYA, N.N.; TRET'YAKOVA, A.F.

Production, distribution and use of national income in
the U.S.S.R. Nauka i zhizn' 29 no.12:26-27 D '62. (MIRA 16:3)
(Income)

BELKIN, Viktor Danilovich; KONIKOV, L.A., red.; MISHNAYEVSKAYA,
G.V., mladshiy red.; GERASIMOVA, Ye.S., tekhn. red.

[Uniform prices and economic measurements based on them]
TSeny edinogo urovnia i ekonomicheskije izmereniia na ikh
osnove. Moskva, Izd-vo ekon. lit-ry, 1963. 345 p.
(MIRA 16:12)

1. Zaveduyushchiy laboratoriyey ekonomicheskikh issledovaniy
Instituta elektronnykh upravlyayushchikh mashin (for Belkin).
(Prices)

BELKIN, V. F., NIKITIN, S. Ya. and KRUPCHITSKIY, P. A.

"(Part II) Dependence of Effective Number of Secondary Neutrons on Energy of Captured Neutrons".

Report appearing in 1st Volume of "Session of the Academy of Sciences USSR on the Peaceful Use of Atomic Energy, 1-5 July 1955", Publishing House of Academy of Sciences USSR, 1955.

SO: Sum 728, 28 Nov 1955

BEIKIN, V.F.; SVEDOV, O.V. [Shvedov, O.V.]

Thermal neutron density distribution in channels of a heavy water reactor model with rod-type fuel elements. Jaderna energie 8 no.10:343-348 1962.

1. Ustav teoretické a experimentální fyziky Akademie věd SSSR.

BELKIN, V. F.

AUTHORS

Belkin, V.F., Krupchitskii, P.A.,
Orlov, Yu. V.

89-10-8/36

TITLE

Measuring Resonance Absorption of Neutrons in
Heterogeneous U/D₂O Systems.

PERIODICAL

(Ob izmerenii rezonansnogo pogloshcheniya neytronov v
geterogennykh sistemakh v uran - tyazheloy vode).
Atomnaya Energiya, 1957, Vol. 3, Nr 10, pp. 320-322 (USSR)

ABSTRACT

Into a tank filled with D₂O various uranium systems (square
lattices with a = 10,0; 6,3 and 3,4 cm; uranium rod
diameter 1,75; 1,1 and 0,568 cm) could be fitted. Besides,
a uranium converter of ϕ = 3 cm, H = 10 cm was fitted into
the center which was irradiated with slow neutrons of the
Russian heavy water reactor. Indium foils, packed in
cadmium holders, were used as neutron detectors. The
coefficients α and Λ of the relation

$$- \ln \Psi = \nu = \frac{\alpha}{S^3} (q^{3/2} + \Lambda q^2) \text{ were determined}$$

at $\alpha = 4,4 \text{ cm}^{1/2}$ and $\Lambda = 0,40 \text{ cm}^{-1/2}$. The expression
 $\Psi S^3 q^{-2/3}$ for the uranium D₂O system is, measured by means
of this method, lower than in the case of measuring by
other methods.

CARD 1/2

BELKIN, V.F.

21(4)

PHASE I BOOK EXPLOITATION SOV/2583

International Conference on the Peaceful Uses of Atomic Energy, 2nd, Geneva, 1958.

Doklady sovetskikh nauchnykh yadernykh reaktorov i yadernaya energetika. (Reports of Soviet Scientists; Nuclear Reactors and Atomic Energy) Moscow, Atomizdat, 1959. 707 p. (Series: Its: Trudy, vol. 2) Errata slip inserted. 8,000 copies printed.

General Eds.: M.A. Dolzhenko, Corresponding Member, USSR Academy of Sciences, A.K. Kravtsov, Doctor of Physical and Mat. Sciences, I.I. Lopyrev, Member, Ukrainian SSR Acad. of Sciences, I.I. Korolov, Corresponding Member, USSR Acad. of Sciences, and V.S. Purov, Doctor of Physical and Mathematical Sciences; Ed.: A.P. Alyab'yev; Tech. Ed.: Ye. I. Masl'.

PURPOSE: This book is intended for scientists and engineers engaged in reactor design, as well as for professors and students of higher technical schools where reactor design is taught.

COVERAGE: This five-volume set of six-volume collection on the peaceful use of atomic energy. The six volumes contain the reports presented by Soviet scientists at the Second International Conference on Peaceful Uses of Atomic Energy, held from September 1 to 13, 1958 in Geneva. Volume 2 consists of three parts. The first is devoted to atomic power plants and construction in the Soviet Union; the second to experiments and research reactors, the experiments carried out on them, and the work to improve them; and the third, which is predominantly theoretical, to problems of reactor physics and construction engineering. Yu. I. Berezin is the science editor of this volume. See SOV/2081 for titles of all volumes of the set. References appear at the end of the articles.

Dolzhenko, M. A., A. K. Kravtsov, M. A. Nikolayev, A. M. Grigor'yants, and V. M. Ushakov. Experience of Operating the First Atomic Power Plant in the USSR and the Plant's Work Under Boiling Conditions (Report No. 2133) 19

Dolzhenko, M. A., A. K. Kravtsov, F. I. Alekshchenko, A. M. Grigor'yants, V. V. Gerasimov, M. G. Krasavin, V. I. Yezel'yakov, M. M. Rykubov, V. M. Kuznetsov, Yu. I. Mityayev, and A. M. Golovin. A Graphite-Uranium Reactor With High-temperature Steam Superheat. (Report No. 2139) 36

Aleksandrov, A. F., V. I. Artyukov, A. K. Kravtsov, A. I. Brudnik, G. I. Gindler, S. Ya. Gurev, V. A. Kozlov, and V. S. Dolzhenko. The Atomic Laboratory Lenin (Report No. 2140) 60

Shtrom, Yu. V. and M. G. Kolorith. Radiation Safety System of the Atomic Laboratory (Report No. 2151) 87

Shtrom, Yu. V. Water-water Power Reactors (WWR) in the USSR (Report No. 2184) 95

Shchegolev, S. S., A. M. Glukhov, V. I. Gorbunov, A. I. Kovalyev, and S. A. Khvortsov. Heat-producing Elements of Water-water Reactors of Atomic Power Plants (Report No. 2196) 119

Shchegolev, S. S. and V. I. Subbotin. Cooling Water-water Reactors (Report No. 2144) 134

Yermolov, V. S. and I. V. Ivanov. A Study of Unsteady Heat Transfer in Heat-producing Elements of Nuclear Reactors (Report No. 2470) 133

Ivanovskiy, M. M., V. I. Subbotin, and Z. A. Mikhaylov. High-speed Method of Measuring the Heat Transfer Coefficient in the Pipe (Report No. 2472) 166

Butskoy, S. S., V. I. Subbotin, V. M. Porishanskii, and F. I. Kirillov. Heat Transfer During the Flow of Liquid Metal in the Pipes (Report No. 2210) 176

Shchegolev, S. S., O. B. Ekonomov of Nuclear Fuel in Fast Power Reactors (Report No. 2028) 188

Belkin, V. F., P. A. Krasovitskiy, M. S. Sidonov, and O. V. Shvedov. Thermal Neutron Density Distribution Along the Radius of Assemblies of Rod-shaped Heat Producing Elements (Report No. 2038) 199

21(4) BELKIN V.F.

PHASE I BOOK EXPLOITATION 30V/2583
International Conference on the Peaceful Uses of Atomic Energy,
Zurich, Geneva, 1958.

Doklady sovetskikh uchenykh; Yadernyye reaktory i yadernaya energiya. (Reports of Soviet Scientists on Nuclear Reactors and Nuclear Power) Moscow, Atomizdat, 1959. 707 p. (Series: Itis Trudy, vol. 2) Errata slip inserted. 8,000 copies printed.
General Eds.: N.A. Dollezhal, Corresponding Member, USSR Academy of Sciences, A.I. Lypanskiy, Member, USSR Academy of Sciences, I.Y. Moser, A.I. Lypanskiy, Member, Ukrainian SSR Academy of Sciences, I.Y. Moser, Member, USSR Academy of Sciences, and V.S. Perev, Doctor of Physical and Mathematical Sciences, and V.S. Alyab'ev, Tech. Ed.: Ye. I. Masel'. A.P.P.

PURPOSE: This book is intended for scientists and engineers engaged in reactor designing, as well as for professors and students of higher technical schools where reactor design is taught.

COVERAGE: This 14th, second volume of a six-volume collection on the peaceful use of atomic energy, sent by Soviet scientists at the Second International Conference on Peaceful Uses of Atomic Energy, held from September 1 to October 1, 1958 in Geneva. Volume 2 consists of three parts. The first is devoted to atomic power plants under construction in the Soviet Union; the second to experiments and research reactors, the experiments carried out on them, and the work to improve them; and the third, which is predominantly theoretical, to problems of nuclear reactor physics and construction engineering. Yu. I. Belkin is the science editor of this volume. See 30V/2081 for titles of all volumes of the set. References appear at the end of the articles.

Kostovoy, V.I., V.S. Dikarev, N.B. Yegitarov, and Yu. S. Salytkov. Measuring Neutron Spectra in Uranium Water Lattices (Report No. 2152)	546
Krasin, A.K., B.D. Dubovskiy, M.N. Lentsov, Yu.Yu. Glazkov, B.K. Gombanov, A.Y. Kozlov, L.A. Gerasova, V.V. Vavilov, Ye. I. Inyutin, and A.P. Semenov. Studying the Physical Characteristics of a Beryllium-moderator Reactor (Report No. 2146)	555
Galamin, A.D., S.A. Krasovskaya, A.P. Rudik, Yu. O. Abov, V.F. Belkin, and P.A. Kruphichitskiy. Critical Experiment on an Experimental Heavy-water Reactor (Report No. 2036)	570
Karamuk, G.I., V. Ya. Pupko, Ye. I. Popkhalina, V.V. Semlov, I.P. Tyuterev, S.T. Flatonova, and G. M. Krushchikina. Certain Problems in Nuclear Reactor Physics and Methods of Calculating Them (Report No. 2151)	588
Sinyutin, G.V. and V.M. Semanov. Determination of Control Rod Effectiveness in a Cylindrical Reactor (Report No. 2469)	613
Gel'fand, I.M., S.M. Fyrenberg, A.S. Prolov, and M.M. Chentsov. Using the Monte Carlo Method of Random Sampling for Solving the Kinetic Equation (Report No. 2141)	628
Laletis, M.I. Neutron Distribution in a Heterogeneous Medium (Report No. 2109)	634
Kazurovskiy, M.V., A.V. Stepanov, and F.L. Shapiro. Neutron Thermalization and Diffusion in Heavy Media (Report No. 2148)	651
Verrill, A.L., V.S. Yermakov, and A.V. Lykov. Using the Onstage Theory of Studying Neutron Diffusion in the Absorbing Media of Nuclear Reactors (Report No. 2224)	668
Broder, D.L., S.A. Burdin, A.A. Ruksov, V.V. Levin, and V.V. Orlov. Studying the Spatial and Energy Distribution of Neutrons in Different Media (Report No. 2147)	674
Dmitriyev, A.B. Boron Ionization Chambers for Work in Nuclear Reactors (Report No. 2084)	690
Klirilin, V.A., and S.A. Ulybin. Experimental Determination of Specific Volumes of Heavy Water in a Wide Temperature and Pressure Range (Report No. 2471)	696

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D267/D307

211000
AUTHORS:

Bělkin, V.F. and Svedov, O.V.

TITLE:

Thermal neutron density distribution in the channels of a model of a heavy-water reactor with rod-type fuel elements

PERIODICAL:

Jaderná energie, no. 10, 1962, 343-348

TEXT:

The purpose of this research has been the experimental study of density changes (skewness) caused by (1) the drop of neutron density in the plane of the radius of the active zone, (2) the presence of a Cd rod, and (3) the effect of an adjacent empty channel. The design and construction of the reactor model (and of the counter used) was described in earlier papers. The thermal neutron density distribution was measured across the diameter of the channel and on the outer surface of fuel tubes. Formulas were derived for calculating the density distribution (1) when no disturbances occur in the core lattice, (2) in channels around Cd rods, and (3) in channels adjacent to empty channels. It was found that (1) at small disturbances ($f \leq 20\%$), the variation of Card 1/2

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S/089/62/012/002/012/013
B102/B138

21.5110

AUTHORS: Abov, Yu. G., Belkin, V. F., Krupchitskiy, P. A.

TITLE: Criticality stand tests of a heavy-water reactor with rod-shaped fuel elements

PERIODICAL: Atomnaya energiya, v. 12, no. 2, 1962, 156 - 159

TEXT: It is hard to make accurate enough calculations for systems with porous fuel elements, as used in power reactors. A special test stand has been developed for checking theoretical results (Fig. 1), and used to find the critical size for heavy-water reactors with various different fuel rod systems. A scram system automatically stops chain reactions when criticality is exceeded. The critical dimensions of five types of working channels were determined in dependence on lattice pitch. Average weight of the fuel elements, uncoated uranium rods (density 18.80 g/cm^3) was $793.0 \pm 1 \text{ g}$. Criticality was determined from counting rate using four CHM-3 (SNM-3) neutron counters. The heavy-water temperature was kept at

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B102/B138

Criticality stand tests of a ...

18±0.5°C throughout, and its density was 99.7±0.05%. The lower part of the reactor core was provided with a thin reflector which meant that a correction had to be made for the effective height of the core; it was calculated by B. I. Il'ichev and L. A. Martsimova and was almost the same for all types of channel. The addition ΔH to the critical level due to this correction and to the existence of the reflector, was 6±1.5 cm; the addition ΔR the core radius was 3±0.5 cm. The geometrical parameter

was calculated from the relation $\alpha^2 = \left(\frac{\pi}{H + H} \right)^2 + \left(\frac{2.405}{R + R} \right)^2$, where

H is the height of the core up to the heavy-water level and the tank radius R = 150 cm. α^2 was plotted as a function of lattice pitch for five types of rod. The curves were similar in shape in most cases the α^2 maximum was at a pitch of 24-26 cm, in one case at 23, in another at 27 cm. S. Ya. Nikitin is thanked for help, B. I. Il'ichev for discussions. There are 3 figures, 2 tables, and 3 Soviet references.

SUBMITTED: June 17, 1961

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Criticality stand tests of a ...

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B102/B138

Fig. 1. Test stand for criticality experiments.

Legend: (1) inner tank 3.5 m high, 3 m in diameter coated outside with 0.5 mm Cd. (2) outer tank, (3) connecting pipe, (4) reflux valve, (5), (7) electrically operated gate valves, (6) pump, (8) water shedding valve, (9) dump tank, (10) water gage glass, (11), (13), (15) hand-operated valves, (12) "breather" line, (14) metering tanks with heavy water; (16) control rods (2 scram rods, 1 regulating rod), (17) neutron source, (18) boron neutron counters.

Fig. 2. Working channel.

Legend: (1) Steel attachment for uranium rods, (2) surrounding (Avial) tube, (3) shielding Avial tubes, (4) remote Avial lattice. ✓

Card 3/0 3

S/089/63/014/003/006/020
B102/B186AUTHORS: Belkin, V. F., Shvedov, O. V., Kochurov, B. P.

TITLE: Determination of the external blocking effect in heavy-water moderated multiplying assemblies

PERIODICAL: Atomnaya energiya, v. 14, no. 3, 1963, 281 - 284

TEXT: The external blocking effect of a multiplying assembly was found by measuring the thermal and epithermal neutron density distributions in the moderator. Discs of 0.42 cm diameter, made of Dy (~ 3 mg/cm) and of In (~ 25 mg/cm²) coated with Cd, served as detectors for the thermal and epithermal neutrons respectively. These detectors were arranged in radial sections around a 100/0.252 channel in a quadratic lattice (pitch 26 cm). The channel was 36.8 cm off the core axis. The blocking effect, characterized by $W = \bar{N}_{\text{mod}}/N_0$, was calculated also by the usual formulas (Galanin).

\bar{N}_{mod} is the mean neutron density in the moderator and N_0 is the mean thermal neutron density at the outer surface of the caisson tube. The results were: $W_{\text{exp}} = 1.514$ and $W_{\text{calc}} = 1.504$. Measurements and calculations were made

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Determination of the external ...

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B102/B186

also for other channel types and other pitch values, but for these only the numerical results are given. The results agree with those published in J. Nucl. Energy, 6, 79, 1957, or Rapport CEA No. 740, Saclay 1957. For epithermal neutrons the blocking effect may become considerably noticeable. There are 2 figures and 2 tables.

SUBMITTED: April 9, 1962

Card 2/2

BELKIN, V.F.; KOCHUROV, B.P.; SHVEDOV, O.V.

Measuring the density distribution of thermal neutrons along the
radius of plug type fuel elements. Atom. energ. 15 no.5:377-381
N '63.

(MIRA 16:12)

AFANAS'YEV, M.I. ; SELKIN, V.I.

Tertiary age of the lower horizons of loose cover in the
Bol'shezemel'skaya Tundra. Sov. geol. 8 no.6:143-149 Ja '65.

(MIRA 18:8)

1. Vorkutinskaya kompleksnaya geologorazvedochnaya ekspeditsiya.

ABRAMOV, V.P.; BELKIN, V.I.; KHAYTSER, L.L.

Participation of the ice factor in the formation of Jurassic deposits in the northern part of the Pechora syncline. Dokl. AN SSSR 139 no.6:1419-1422 Ag '61. (MIRA 14:8)

1. Vorkutinskaya komplekhnaya geologorazvedochnaya ekspeditsiya. Predstavleno akademikom N.M. Strakhovym.
(Pechora Basin—Geology, Stratigraphic)

BELKIN, V.I.

Presence of a Mesozoic weathering surface in the Pechora
Basin. Kora vyvetr. no.6:150-153 '63. (MIRA 17:9)

1. Vorkutinskaya kompleksnaya geologorazvedochnaya ekspeditsiya,
gorod Vorkuta.

BELKIN, V.I.

Neogene sediments of the Bol'shezemel'skaya Tundra. Dokl. AN
SSSR 149 no.3:660-662 Mr '63. (MIRA 16:4)

1. Vorgashorskaya geologo-razvedochnaya partiya. Predstavleno
akademikom N.M.Strakhovym.
(Bol'shezemel'skaya Tundra—Geology Stratigraphic)

BELKIN, V.I.

Mesozoic weathering surface in the Pechora Basin. Sov. geol. 7 no.9:
128-131 S '64. (MIRA 17:10)

1. Vorgashorskaya geologorazvedochnaya partiya.

L 26620-65

ACCESSION NR: AP5002156

S/O120/64/000/006/0087/0089

AUTHOR: Belkin, V. H.; Lukashev, A. A.

TITLE: Capacitive divider for measuring short pulses of high voltage

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1964, 87-89

TOPIC TAGS: capacitive voltage divider, pulse measurement, voltage divider, HV pulse

ABSTRACT: The design (see Fig. 1 of Enclosure) of a capacitive voltage divider for measuring single voltage pulses of 10^{-6} sec up to 1500 kv in amplitude is described. The division ratio is 6600 ± 200 . Resolving time is 5×10^{-9} sec or better. The divider is 1200 mm high and 500 mm in diameter. Orig. art. has: 2 figures. [03]

ASSOCIATION: none

SUBMITTED: 14Nov63

ENCL: 01

SUB CODE: EC

NO REF SOV: 006

OTHER: 001

ATD PRESS: 3188

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L 26620-45

ACCESSION NR: AP5002156

ENCLOSURE: 01

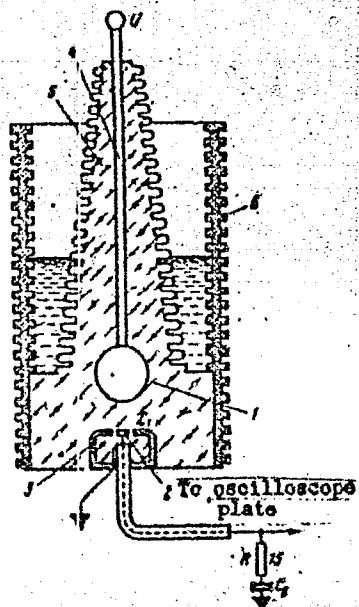


Fig. 1. Capacitive pulse-voltage divider

- 1 - Metal sphere (125-mm diameter);
 - 2 - brass disk (20-mm diameter);
 - 3 - steel shield; 4 - metal rod;
 - 5 - plexiglass insulation; 6 - bakelite cylinder (0.5-m diameter).
- The gap between sphere 1 and disk 2 is filled with plexiglass.

Card 2/2

KOROTKIN, Yakov Isayevich; ~~BEKIN, V.P.~~, doktor tekhn. nauk, retsenzent; YEKIMOV, V.V., doktor tekhn. nauk, retsenzent; ROSTOVTSEV, D.M., kand. tekhn. nauk, otv. red.; OSVENSKAYA, A.A., red.

[Problems of the strength of seagoing transport vessels]
Voprosy prochnosti morskikh transportnykh sudov. Lenin-grad, Sudostroenie, 1965. 387 p. (MIRA 18:10)

HELKIN, Vasily Pavlovich; SLEPOV, B.I., otvetstvennyy redaktor; OSVENSKAYA,
A.I., redaktor; KONTOPOVICH, A.I., tekhnicheskiy redaktor

[Behavior of deck plating after buckling] Rabota elementov palubnykh
perekrytii posle poteri ustoychivosti. Leningrad, Gos. soiuznoe
izd-vo sudostroit. promyshlennosti, 1956. 286 p. (MLRA 10:3)
(Elastic plates and shells) (Ships)

BELKIN, V.P., doktor tekhnicheskikh nauk

Stability of deck covering elements taking into account the torsion
of the stiffening frame. Sudostroenie 22 no.3:11-17 Mr '56.
(MLRA 9:8)

(Stability of ships)

SOV/124-58-8-9241

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 129 (USSR)

AUTHOR: Belkin, V.P.

TITLE: Stability of the Elements of a Deck Covering With Allowance
Made for the Torsion Acting on the Longitudinal Framework
(Ustoychivost' elementov palubnogo perekrytiya s uchetom
krucheniya prodol'nogo nabora)

PERIODICAL: Tr. Nauchno-tekhn. o-va sudostroito. prom-sti, 1957, Vol 7,
Nr 2, pp 295-304

ABSTRACT: See Sudostroyeniye, 1956, Nr 3, pp 11-17; RZhMekh, 1957,
Nr 10, abstract 11914.

Card 1/1

BELKIN, V.P., doktor tekhn.nauk prof.

Annual scientific engineering conference on structural mechanics,
devoted to the memory of P.F.Papkovich. Sudostroenie 24 no.7:
85-86 J1 158. (MIRA 11:9)
(Naval architecture--Congresses)

BELKIN, V.P., doktor tekhn.nauk, prof.; BEL'GOVA, M.A., kand.tekhn.nauk;
KOVALEVSKIY, G.V., kand.tekhn.nauk; MASYAGIN, A.V., kand.tekhn.nauk;
NEBYLOV, V.M., kand.tekhn.nauk; RYABOV, L.I., kand.tekhn.nauk;
SIVERS, N.L., kand.tekhn.nauk; SOKOLOVA, A.S., kand.tekhn.nauk;
TAUBIN, G.O., kand.tekhn.nauk; KONTOROVICH, B.M., inzh.

"Designing ships' hulls" by A.A. Pravdin. Reviewed by V.P. Belkin ,
and others. Sudostroenie 24 no.8:78-79 Ag '58. (MIRA II:10)
(Hulls(Naval architecture))

BELKIN, V.P., doktor tekhn. nauk, prof.

Conference on shipbuilding technology in the German Democratic
Republic. Sudostroenie 25 no.6:54-55 Je '59.

(MIRA 12:9)

(Warnemünde--Shipbuilding--Congresses)

BELKIN, V.P., doktor tekhn.nauk

New hydrodynamic laboratory in England. Sudostroenie 27 no.3:56-58
Mr '61. (MIRA 14:3)
(Feitham(Great Britian)—Ship models—Testing)
(Hydrodynamics)

BARABANOV, Nikolay Vasil'yevich; BELKIN, V.P., prof., doktor tekhn. nauk, retsenezent; TKACHEVA, P.Ye., dots., kand. tekhn. nauk, retsenezent; KAZAROV, Yu.S., red.; KAMOLOVA, V.M., tekhn. red.

[Design of ship hulls] Konstruktsiia korpusa morskikh sudov. Pod red. V.P.Belkina, Leningrad, Gos.soiuznoe izd-vo sudostroit. promyshl., 1961. 467 p. (MIRA 15:2)
(Hulls (Naval architecture))

BELKIN, V.P., doktor tekhn.nauk

Professor Vladimir Konstantinovich Vasil'ev. Sudostroenie
27 no.9:77 S '61. (MIRA 14:11)
(Vasil'ev, Vladimir Konstantinovich, 1886-)

LUKOMSKIY, G.I., dotsent; BELKIN, V.R.; SMIRNOV, B.A.

Technique of bronchoscopic biopsy. Khirurgiia no.10:122-126 '64.
(MIRA 18:8)

1. Kafedra fakul'tetskoy khirurgii sanitarno-gigiyenicheskogo fakul'teta (zav. - zasluzhennyy deyatel' nauki prof. I.S.Zhorov) I Moskovskogo ordena lenina meditsinskogo instituta imeni Sechenova i Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. M.G.Anan'yev).

BELKIN, V.R.; GORKIN, N.S.

New suturing instruments for chest surgery and the technique
of preparing them for an operation. Med.sestra 20 no.12:40-45
D '61. (MIRA 15:3)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy
khirurgicheskoy apparatury i instrumentov Ministerstva zdravo-
okhraneniya SSSR.

(SURGICAL INSTRUMENTS AND APPARATUS)
(SUTURES)

BELKIN, V.R.; KOL'CHINSKAYA, L.L.; LIPOVETSKIY, G.S.

Pincers for removing and applying Michel's clamp. Med. sestra 20
no.1:53-54 Ja '61. (MIRA 14:3)
(SURGICAL INSTRUMENTS AND APPARATUS)

BELKIN, V. R.; BEREZOV, Yu. Ye.; GRITSMAN, Yu. Ya.; SVINKIN, I. K.

Utilization of the mechanical suture in surgery on the esophagus and cardia of the stomach. Grud. khir. 4 no. 3:40-47 My-Je '62.
(MIRA 15:7)

1. Iz nauchno-issledovatel'skogo instituta eksperimental'noy khirurgicheskoy apparatury i instrumentov Ministerstva zdравookра-neniya SSSR (dir. - dotsent M. G. Anan'yev), Instituta grudnoy khirurgii AMN SSSR (dir. - prof. S. A. Kolesnikov) i Chelyabinskogo gorodskogo onkologicheskogo dispansera.

(ESOPHAGUS---SURGERY) (STOMACH---SURGERY)
(SUTURES)

GESELEVUCH, A.M.; GORKIN, N.S.; BELKIN, V.R.; TIKHOMIROVA, A.V.

New models of instruments for pulmonary surgery. Grud.khir.
no.4:115-117 J1-Ag '62. (MIRA 15:10)

1. Iz Nauchno-issledovatel'skogo instituta eksperimental'noy
khirurgicheskoy apparatury i instrumentov (dir. M.G.Anan'yev)
Ministerstva zdravookhraneniya SSSR.
(SURGICAL INSTRUMENTS AND APPARATUS)

GRITSMAN, Yu.Ya., kand.med.nauk; BELKIN, V.R., nauchnyy sotrudnik;
LIPOVETSKIY, G.S., nauchnyy sotrudnik

Third resection of the stomach in peptic anastomotic ulcer.
Zdrav.Bel. 8 no.11:75-77 N '62. (MIRA 16:5)

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(DUODENUM--ULCERS) (STOMACH-- SURGERY)

PREOBRAZHENSKIY, B.S., prof.; POTAPOV, I.I., prof.; ~~BELKIN, V.R.~~, mladshiy
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logii (zav. - deystvitel'nyy chlen AMN SSSR zasluzhennyy deyatel'
nauki prof. B.S. Preobrazhenskiy) lechetnogo fakul'teta II Mos-
kovskogo meditsinskogo instituta imeni N.I. Pirogova i otorino-
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nogo instituta usovershenstvovaniya vrachev.
(ESOPHAGUS--EXPLORATION)

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(MIRA 15:2)

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(HEART—INFARCTION) (ANGINA PECTORIS)
(NITROUS OXIDE)

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(HEART—INFARCTION) (SHOCK)
(MOSCOW—FIRST AID IN ILLNESS AND INJURY)

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