

SKOBOKHODOV, V.D., inzhener, BOMBAKIROV, P.P., inzhener, redaktor; KHITROV,  
P.A., tekhnicheskii redaktor.

[Handbook for the railroad car greaser in the station] *Rukovodstvo  
stantsionnomu smazchiku vagonov. Izd. 5-oe, perer. i dop. Moskva,  
Gos.transp.shel-dor.isd-vo, 1955. 102 p. (MLRA 8:11)*

1. Russia (1923 - U.S.S.R) Ministerstvo putey soobshcheniya.  
(Railroads--Cars--Maintenance and repair)

*BOMBARDIROV, P.P.*

ANTONOV, Igor' Vasil'yevich; BAHENKO, Vitaliy Il'ich; OSTRYAKOV, Konstantin Ignat'yevich; BOMBARDIROV, P.P., inzhener, redaktor; BOHROVA, Ye.H., tekhnicheskii redaktor

[Progressive work organization of calcium coating shops] Peredovaya organizatsiia raboty kal'tsesalivochnogo tsakha. Moskva, Gos. transp.khel-dor. izd-vo, 1956. 27 p. (MIRA 10:1)  
(Bearings (Machinery))

KOMAROV, S.G.; SAMOKHVALOV, S.F.; BELAVENTSEV, N.V.; BOMBARDIROV, P.P.;  
AMELINA, A.A.; BLIZNYUK, V.F.; LADYGIN, V.I.; PEROV, A.N.; VASIL'YEV,  
I.P.; BRODOVICH, N.B.; RABINOV, A.M.; ALEKSEYEV, V.D.; YEGOROV,  
V.A., inzh.,red.; ARSHINOV, I.M., inzh.,red.; VERINA, G.P., tekhn. red.

[Handbook on the repair of freight cars] Spravochnik po remontu  
gruzovykh vagonov. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 503 p.  
(MIRA 11:12)

(Railroads--Freight cars--Maintenance and repair)

BOMBARDIROV, P.P.; LATYSHEV, K.V., kand.tekhn.nauk

Improving the performance of freight-car axles. Zhel.dor.  
transp. 40 no.11:55-58 N '58. (MIRA 11:12)

1. Starshiy inshener Glavnogo upravleniya vagonnogo khozyaystva  
(for Bombardirov). (Car axles)

BOMBARDIROV, Petr Petrovich; SKOROKHODOV, Vsevolod Dmitriyevich;  
BRAYLOVSKIY, N.G., inzh., red.; VERINA, G.P., tekhn.red.

[Car journal boxes and their maintenance] Vagonnye buksy  
i ukhod za nimi. Moskva, Gos.transp.zhel-dor.izd-vo, 1959.  
198 p. (MIRA 13:1)  
(Railroads--Cars--Maintenance and repair)

BOMBARDIROV, P.P., inzh.

Methods for a proper organization of the maintenance of axle  
boxes. Zhel. dor. transp. 45 no.5:39-42 My '63 (MIRA 16:10)

L 01806-67 EWT(m)/T DJ

ACC NR: AP6030589 (AN) SOURCE CODE: UR/0413/66/000/016/0073/0073

INVENTOR: Ismailov, R. G. A. O.; Mamedov, M. A. A. O.; Spektor, Sh. Sh.; Seidov, M. M. M. O.; Vartapetov, A. A.; Shchelkonogov, I. A.; Kyazimov, A. A. O.; Aliyev, A. A. G. O.; Tangiyeva, T. A.; Kesel'man, L. G.; Lobanov, V. V.; Chikunov, V. A.; Blidchenko, I. F.; Tarumov, G. A.; Bombandirov, P. P.; Merkur'yev, G. D.; Petrov, S. A.

44  
B

ORG: none

TITLE: Lubricating oil for bushings. Class 23, No. 184997

SOURCE: Izob reteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 73

TOPIC TAGS: lubricant, bushing, petroleum

ABSTRACT: An Author Certificate has been issued describing a lubricant for bushings, with a solar fraction and mazut base. To expand the operating temperature range of the oil, a petroleum fraction with a boil-away of 4-5% at 240-320C is added to the lubricant. This fraction is obtained from the petroleum distillate at 300-310C. [Translation] [NT]

SUB CODE: 11/ SUBM DATE: 05Nov64/

Card 1/1 *hh*

UDC: 629.11.012.26

KOLESOV, V.I., prof.; DEMIN, V.N., prof.; LEVIN, A.O.; SHAL'NEVA, T.S.;  
BOBASH, N.Yu., VINCGRADOV, A.G.; LEOSKO, V.A.; SIDORENKO, L.N.;  
YARITSYN, S.S.

Regional perfusion of chemotherapeutic substances in malignant  
tumors of the extremities. Vest.khir. 93 no.8:58-64 Ag '64.  
(MIRA 18:7)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. V.i.  
Kolesov) 1-go Leningradskogo meditsinskogo instituta imeni  
Pavlova.



BOMBASON, I.I.

Effect on eggplants of new types of fertilizer produced from petroleum industry waste. Dokl. AN Azerb. SSR 16 no. 6:583-586 '60. (MIRA 13:10)

1. Institut zemledeliya AN Azerbaydzhanskoy SSR. Predstavleno akademikom AN Azerbaydzhanskoy SSR A.I. Karayevym.  
(Eggplant--Fertilizers and manures)

UGINCHUS, A.A., professor; BOMBCHINSKIY, V.P., inzhener; IZBASH, S.V.,  
professor, doktor ~~tekhicheskikh nauk~~ tekhnicheskikh nauk, redaktor.

(Control and measuring apparatus for hydraulic installations)  
Kontrol'no-izmeritel'naya apparatura gidrotekhnicheskikh sooruzhenii.  
Moskva, Gos. izd-vo po stroitel'stvu i arkhitekture, 1954. 258 p.  
(Hydraulic engineering) (MIRA 7:7)

AUTHOR: ~~Bombchin~~skiy, V. P., Engineer SOV/154-58-4-17/18

TITLE: Determination of Horizontal Shift of Water Power Structures With Respect to a Stretched String (Opredeleniye planovykh sdvigoov gidrotekhnicheskikh sooruzheniy otnositel'no natyanutoy niti)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodesiya i aerofotos"yemka, 1958, Nr 4, pp 155 - 162 (USSR)

ABSTRACT: The application of surveying measuring methods is no safeguard against errors in the recording of horizontal shifts of water power structures over longer periods of time. For this reason the association mentioned below developed a new method for the determination of the horizontal shift of water power structures by means of a stretched string. This method can be used with the majority of large water power developments now under construction. The entire equipment is mounted on the gallery immediately after the concrete pouring of the third floor has been completed. A thin stretched steel wire is used as a reference mark for determining the shifts of

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Determination of Horizontal Shift of Water Power  
Structures With Respect to a Stretched String

SOV/194-58-4-17/18

the individual sections of the building. In each section, the wire rests upon two floating supports and it is rigidly fixed in the two flanking sections of the building. Hence the relative shift of each section can be measured. In order to check this method an experimental device was built in the laboratory. The test runs with this device confirmed the hypothesis that it is possible to use this method for measurements of the horizontal shift of water power structures. Moreover, the requirements placed upon the performance of such work on the spot became clear. This method was tested in the Kuybyshev water power development and it stood its test very well. The work connected with this task lasted, with some interruptions, from November 1955 to March 1956. The information collected demonstrated that the sections without exception slip towards the tailrace at different rates. The accuracy of this method supersedes that of surveying methods almost by a factor of 10. There are 5 figures.

Card 2/3

Determination of Horizontal Shift of Water Power  
Structures With Respect to a Stretched String

SOV/154-58-4-17/18

ASSOCIATION: Nauchno-issledovatel'skiy sektor Gidroproyekta (Scientific  
Research Sector of the Gidroproyekt)

Card 3/3

BOMBCHINSKIY, V.P.; VTOROV, N.A.; DUNDUKOV, M.D.; YEGOROV, S.A., doktor tekhn.nauk, prof.; YERMOLOV, A.I.; ZAVORUYEV, V.P.; KALININ, V.V.; KACHEROVSKIY, N.V.; KUZNETSOVA, A.K.; KUZ'MIN, I.A., kand.tekhn.nauk; MEDVEDEV, V.M., kand.tekhn.nauk; MIKULOVICH, B.F.; MIKHAYLOV, V.V., kand.tekhn.nauk; PETRASHEN', R.N.; RYZIN, Ye.S.; SINYAVSKAYA, V.M.; KHALTURIN, A.D.; SHCHERBINA, I.N., kand.tekhn.nauk; SEVAST'YANOV, V.I., red.; KARAULOV, B.F., retsenzent; LOVETSKIY, Ye.S., retsenzent; MIKHAYLOV, A.V., doktor tekhn.nauk, retsenzent; NATANSON, A.V., retsenzent; SOKOL'SKIY, M.M.; retsenzent; SPANKEVICH, V.I., retsenzent; FREYGOFER, Ye.F., retsenzent; GOTMAN, T.P., red.; VORONIN, K.P., tekhn.red.

[Work of the All-Union Scientific Research Institute for the Study and Design of Hydraulic Structures] Nauchno-issledovatel'skie raboty Gidroproekta. Pod obshchei red. V.I.Sevast'ianova. Moskva, Gos.energ.izd-vo, 1961. 214 p. (MIRA 15:2)

1. Moscow. Vsesoyuznyy proyektno-izyskatel'skiy i nauchno-issledovatel'skiy institut Gidroproyekt imeni S.Ya.Zhuk. Nauchno-issledovatel'skiy sektor.

(Hydraulic engineering--Research)

FEL'DMAN, S.N.; BOMBEL', A.V.; ROZENBLAT, O., vrach-laborant;  
BULGAKOVA, Yu.A., vrach-laborant

Letter to the editor concerning G.P. Stepanov's article,  
"Sterilization of Francke's **needles** by heating for the purpose  
of preventing viral hepatitis." Zhur. mikrobiol., epid. i  
immun. 33 no.1:158-159 Ja '62. (MIRA 15:3)

1. Zaveduyushchaya laboratoriyey Sanatoriya imeni Ivanova,  
Odessa (for Fel'dman). 2. Zaveduyushchiy laboratoriyey  
Sanatoriya "Solnechnyy", Odessa (for Bombel'). 3. Sanatoriy  
"Yuzhnyy", Odessa (for Rozenblat, Bulgakova).

(STERILIZATION)  
(HEPATITIS, INFECTIOUS)

BOMBELO, I.A., mayor med.sluzhby

Role of objects in the external environment in the spreading of  
ascariasis. Voen.-med. zhur. no. 2:80 F '61. (MIRA 14:2)  
(ASCARIDS AND ASCARIASIS)



BOMBELO, I. A.

"The Epidemiology of Ascariasis on Sakhalin Island."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

(Yuzhno-Sakhalinsk)

MIKHALKEVICH, M.F., glav. red.; SAFONOV, A.V., red.; IGUMINSKIY, L.I., red.; BROUN, R.M., red.; BOMDELO, I.A., red.; ERNST, V.P., red.; BRIZNAK, B.Ye., red.; RYZHKOV, A.N., red.; MEMESHKINA, L.I., tekhn. rod.

[The nature of Sakhalin and man's health] Priroda Sakhalina i zdorov'e chelovska; sbornik statei. IUzhno-Sakhalinsk, Sakhalinskoe knizhnoe izd-vo, 1962. 181 p. (MIRA 15:11)

1. Geograficheskoye obshchestvo SSSR. Komissiya meditsinskoy geografii Sakhalinskogo otdela.  
(SAKHALIN—MEDICAL GEOGRAPHY)

BOMBELO, I. A., mayor meditsinskoy sluzhby

Correlation of helminth and protozoic invasions and pathogenic  
microflora in parasitic infestation of the intestine in healthy  
subjects and patients with acute intestinal diseases. Voen.-  
med. zhur. no.12:65 D '61. (MIRA 15:7)

(WORMS, INTESTINAL AND PARASITIC)  
(INTESTINES--DISEASES)

ACC NR: AP5027165

SOURCE CODE: PO/0056/65/016/005/0669/0680

AUTHOR: Bernat, Ryszard; Bombicki, Krzysztof (Bombitski, K.); Jendykiewicz, Zenon (Yendykevich, Z.)

ORG: Institute of Physiology AM, Poznan (Zaklad Fizjologii AM)

TITLE: Studies on transaminase activity and blood levels of amino nitrogen in low pressure and hypoxia

SOURCE: Acta physiologica polonica, v. 16, no. 5, 1965, 669-680

TOPIC TAGS: amino acid, nitrogen, low pressure, hypoxia, animal physiology, blood

ABSTRACT: An experiment was performed on adult male guinea pigs to study the effect of low pressure and hypoxia on the transaminase activity and blood levels of amino nitrogen. The six groups of animals were subjected to various treatment as follows: Group 1 was placed for 1 hr. in a low-pressure chamber with a pressure of 405 mm Hg and percentage of oxygen of 11.3; Group 2 with a pressure of 198 mm Hg and 5% oxygen; Group 3 with a pressure of 405 mm HG for 1 hr. and pure oxygen; Group 4 with a pressure of 198 mm Hg and pure oxygen; and Groups 5 and 6 at 750 mm Hg and a mixture of air containing 11.2% and 5.5% oxygen, respectively. The results showed an increase in blood amino nitrogen and an increase in the serum transaminase activity (SGPT and SGOT) in Groups 1 and 2. Breathing pure oxygen in low pressure at 405 and 198 mm Hg (Groups 3 and 4) caused an increase in blood amino nitrogen

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ACC NR: AP5027165

and an increased activity of serum transaminases. In hypoxia with 11.2 and 5.5% oxygen (Groups 5 and 6) a decrease in blood amino nitrogen and a slight change in transaminase activity was observed. Orig. art. has: 4 tables and 3 figures.

SUB CODE: LS / SUBM DATE: 21Dec64 / ORIG REF: 000 / OTH REF: 022

nw

Card 2/2

FEDOROV, V.V., kand. tekhn. nauk; BOMBIN, I.P., inzh.

Transportation of peat fertilizers and litter. Torf. prom. 40  
no.6:5-9 '63. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut torfyanoy  
promyshlennosti.

BOMBITA, G.

Paleontologic research in the cave of the Baia-de-Fier. p. 145.

OCROTIREA NATURII. (Academia Republicii Populare Romine. Comisia pentru Ocrotirea Monumentelor Naturii) Bucuresti.

No. 1, 1955

SOURCE: East European List (EEAL) Library of Congress, Vol. 6, No.1, January 1957

BOMBITA, <sup>Gh.</sup> ~~Sth.~~

Stratigraphic importance of certain species of Transylvanian nummulites. p. 895.

COMUNICARILE. Bucuresti, Rumania, Vol. 7, no. 10, October 1957.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959.

Uncl.



BOMBITA, Gh.

Revised biostratigraphic studies of the palaeogene Flysch  
of the Eastern Carpathians. I. Studii cerc geol 6 no.3:405-  
435 '61.

1. Comunicare prezentata de academician G, Murgeanu.

MIROSHNICHENKO, B.P.; BOMBLEVSKIY, Z. [Bomblewski, Z.], (Pol'skaya narodnaya Respublika); GZHIBOVSKIY, Z. [Grzybowski, Z.], (Pol'skaya narodnaya Respublika); SHCHEGEL'NYAK, V. [Shchehel'niak, V.], (Pol'skaya Narodnaya Respublika); TOMAN, I. (Chekhoslovatskaya SSR); ENGERT, M. (Germanskaya Demokraticheskaya Respublika); PIPLOV, M. (Germanskaya Demokraticheskaya Respublika); LOZE, E. (Germanskaya Demokraticheskaya Respublika); BOYTEL', B. [Boitel, B.], (Germanskaya Demokraticheskaya Respublika); LAZAR, D., (Vengerskaya Narodnaya Respublika); NIKIFOROV, V., (Narodnaya Respublika Bolgariy); GERTSOVICH, G.B., red.; STUPOVA, A.D., red.; NIKOLAYEV, D.N., red.; PAK, G.V., red.; GERASIMOVA, Ye.S., tekhn. red.

[Planning in European socialist countries] Planirovanie v evropeiskikh stranakh sotsializma. Moskva, Ekonomizdat, 1962. 279 p.  
(MIRA 15:6)

1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsialisticheskoy sistemy.

(Europe, Eastern--Economic policy)

BOMBOWNA, Maria, dr; KLIMCZYK, Maria, mgr; KRZECZKOWSKA, Lucja, mgr

Chemical factors, phyto- and zooplankton of differently fertilized growing ponds. Acta hydrobiol 4 no.3/4:345-384 '62.

1. Zaklad Biologii Wod, Polska Akademia Nauk, Krakow.

ACC NR: AP7005004

SOURCE CODE: UR/0048/66/030/009/1000/1000

AUTHOR: Tale, I.A.; Bogan, Ya.R.; Bonika, V.A.; Vitol, I.K.

ORG: none

TITLE: Concerning the mechanism of recombination processes in zinc sulfide /Report, Fourteenth All-Union Conference on Luminescence (Crystal Phosphors) held at Riga, 16-23 Sept. 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.30, no.9, 1966, 1560-1562

TOPIC TAGS: photoconductivity, zinc sulfide, irradiation, hole conduction, electron conduction

ABSTRACT: The authors have investigated the infrared-stimulated photoconductivity in different ZnS crystals, determining the sign of the carriers by means of Hall effect and photoelectric polarization measurements. The investigated specimens fell into two main groups: high-resistivity crystals, and low-resistivity ZnS crystals containing an excess of Zn, whose high equilibrium conductivity was due to the presence of a high concentration of lattice microdefects. None of the specimens exhibited thermal hysteresis of the electric conductivity, and their luminescence yields were very low. After excitation in the fundamental absorption band, photoconductivity could be stimulated in specimens of both types by irradiation in any of four bands peaking at 0.95, 1.6, 2.0, and 2.8 eV. In the low-resistivity specimens the photo-

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ACC NR: AP7005004

current was carried by electrons regardless of the wavelength of the stimulating photons; in the high-resistivity specimens the photocurrents stimulated in the 0.95 and 2.8 eV band were carried by electrons, and those stimulated in the 1.6 and 2.0 eV bands were carried by holes. Moreover, de-excitation of the high resistivity crystals in the 0.95 eV band reduced the photosensitivity in the 1.6 and 2.0 eV bands, de-excitation in the 1.6 or 2.0 eV bands reduced the photosensitivity in the 0.95 eV band, irradiation in the 2.8 eV band restored the photosensitivity in the other three bands. Cooling from room temperature to liquid nitrogen temperature destroyed the photosensitivity of the 1.6 and 2.0 eV bands; the photosensitivity could be restored only by further excitation in the fundamental absorption band. It is concluded that the 1.6 and 2.0 eV bands are not simple; stimulation in these bands excites trapping centers of several different kinds, of which some have excited states in the forbidden gap. Sensitivity in the 2.8 eV band appeared in specimens that exhibited a green luminescence; the authors accordingly associate this band with an activator. The photoconductivity stimulated in the 2.8 eV band at room temperature had both electron and hole components; the holes were not revealed by the Hall effect measurements because of their low mobility. Orig. art. has: 2 figures.

SUB CODE: 20

SUBM DATE: none

ORIG. REF: 003

Card 2/2

BOCIRSKI, Andrzej

Melanoma in fishes of the Xiphophora genus. Przegl zoolog 6 no.3:214-218 '62.

1. Zaklad Biologii i Parazytologii, Akademia Medyczna, Gdansk i Stacja Biologiczna, Gorki Wschodnie.

31717

S/057/61/031/012/003/013  
B108/B138

24.6730  
AUTHORS:

Bolotin, L. I., Bomko, V. A., Revutskiy, Ye. I., and  
Sidorenko, I. S.

TITLE: H-mode accelerator

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 12, 1961, 1426-1430

TEXT: The Berkeley type linear accelerators working on the E<sub>010</sub> mode have several disadvantages. An H<sub>111</sub>-mode linear accelerator is suggested. A particular feature of such an accelerator is the much lower resonance frequency. 8-cm wide drift tubes are connected to opposite sides of the cylindrical copper resonator (75 cm wide, 120 cm long). The electrical field has a sinusoidal distribution along the resonator. The best way of preventing the maximum of the E<sub>z</sub> component in the loaded resonator from moving toward the smaller accelerating gaps is either to change the ratio  $\alpha = \frac{\delta}{L}$  ( $\delta$  = gap length, L = length of accelerating section or to change the inductance of the accelerating units. The increase in the length of the

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ACCESSION NR: AP4042002

S/0057/64/034/007/1259/1265

AUTHOR: Bomko, V. A.; Revutskiy, Ye. I.

TITLE: Investigation of accelerating system based on the  $H_{111}$  mode

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 34, no. 7, 1964, 1259-1265

TOPIC TAGS: heavy particle accelerator, particle accelerator, linear accelerator

ABSTRACT: An accelerating system is described in which the  $H_{111}$  mode is used for excitation and the drift tubes are attached separately and alternately to the opposite side of the lateral wall of the resonator cylinder, thus maintaining independent compartments. In the course of investigation the following high-frequency characteristics were determined: the absolute value of the proper resonator frequency which can be obtained with this system, the dependence of proper resonator frequencies on the length of acceleration periods and diameter of drift tubes, the dependence of proper frequencies of the resonator on its length and diameter at different acceleration periods, the character of field distribution in the resonator loaded by the accelerating system, the methods of adjustment of the resonator

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ACCESSION NR: AP4042002

sections and of obtaining the assigned distribution of fields along the accelerating system, the Q-factor and shunt resistance for different parameters of the accelerating system, and the simulation coefficient and the change in magnitude of parameters (investigated on models) when passing to operating systems. The experimental investigation shows that it is possible to reduce considerably the bulk of a heavy-particle linear accelerator in comparison to the  $E_{010}$ -type system at the same wavelength. The transition to long waves, without which the acceleration of very heavy ions is impossible, can be accomplished with the aid of this accelerating system at small cross dimensions of the resonator (a wavelength more than 10 m can be obtained at resonator diameter of 3 m, while on an  $E_{010}$  system the diameter must be more than 7 m). When the acceleration is 10 to 20 Mev per nucleon, the shunt resistance is higher than that for an  $E_{010}$  system. The investigations showed that a gradual alteration of the resonator diameter is the most convenient means for adjustment. Orig. art. has: 8 figures, 1 table, and 3 formulas.

ASSOCIATION: none |

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ACCESSION NR: AP4042003

S/0057/64/034/007/1266/1271

AUTHOR: Bomko, V. A.; Revutskiy, Ye. I.; Bolotin, L. I.

TITLE: The high-frequency characteristics of a linear accelerator for multicharged ions of energy up to 1 Mev per nucleon operating on an  $H_{111}$ -wave

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 34, no. 7, 1964, 1266-1271

TOPIC TAGS: multicharged ion linear accelerator, linear accelerator

ABSTRACT: A linear accelerator has been designed for multicharged ions accelerating up to 1 Mev per nucleon operating on an  $H_{111}$ -wave. The 6-m wavelength was selected. The diameter of the drift tubes was 8 m, which was constant along the whole accelerating system. The maximum voltage in the gap was 72 kv/cm. Experimental investigation of the high-frequency characteristics of the accelerating system showed that proper frequency of the resonator, corresponding to the excitation of  $H_{111}$ -oscillations in it, is 50.1 Mcps, almost the same as the calculated value. The Q-factor is 7363, and the shunt resistance is 228.2 Mohm. It is seen that this system, designed for a 6-m wavelength, has a rather high shunt resistance, approximately four times

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ACCESSION.NR: AP4042003

higher than that of the  $E_{010}$  system on the same wavelength. Thus, the accelerating system on  $H_{111}$ -wave appears to be much more effective than the  $E_{010}$  for the investigated energy range. The value of high-frequency power needed to establish the calculated value of the accelerating field at the shunt resistance value shown is 80 kw per pulse, in contrast to 400 kw needed in Berkeley, Yale, and England for the same energy at the output. Orig. art. has: 5 figures, 1 table, and 3 formulas.

ASSOCIATION: none

SUBMITTED: 23Aug63

ATD PRESS: 3063

ENCL: 00

SUB CODE: NP

NO REF SOV: 002

OTHER: 005

Card 2/2

20429

S/185/61/006/002/001/020  
D210/D304

24.6731

AUTHORS: Bolotin, L.Y., Bomko, V.O., and Revuts'kyy, Ye.I.

TITLE: High frequency characteristics of a "long" resonator for linearly accelerating heavy particles

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 2, 1961, 157 - 161

TEXT: The authors investigated the difference between the principal oscillation  $E_{010}$  wave, used for accelerating, and the neighboring  $E_{011}$  waves of a drift tube resonator. The work was done on a new, 10 MeV, ion accelerator built in one section, 18 m long, at the Technical Physics Institute of the AS UkrSSR. With a wavelength of 2 m it was necessary to insert 101 drift tubes into the resonator. When the resonator is empty its electrical length is  $N = 9(N = L/\lambda_0, L$  -- physical length of resonator;  $\lambda_0$  -- wavelength of  $E_{010}$ ). This can be compared with the electrical length

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High frequency characteristics ...

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D210/D304

of the Berkeley resonator of 8.3. The authors first determined the quality factor and the shunt impedance of their accelerator. The quality factor, given by

$$Q = \frac{W}{\omega_0 P} \quad (1)$$

where W - energy accumulated in the resonator, P - mean power losses, was determined by exciting the resonator with a special generator allowing wide frequency separation. Amplitude of the vibrations generated in the resonator was determined by measuring the current from a magnetic detector probe with a sensitive microammeter. From the experimental resonance curves (relative probe current against frequency difference) the quality factor was determined by dividing the frequency of the working vibration by the width of the resonance curve at the height of 0.71. The quality factors for the empty and the loaded resonators were found to be 122,000 and 69,000, and the half width 1.95 and 3.8 kc/s respectively. The quality factor for the empty resonator was also calculated theoretic-

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High frequency characteristics ...

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cally from the formula

$$Q = 10^5 \sqrt{1 + R/L} \quad (3)$$

where R - radius of the resonator, L - length of the resonator. The calculated value was 138,000, the discrepancy being explained by possible differences in the quality of copper and its surface, and also by the fact that the resonator is not round but sixteen-sided. The shunt impedance was determined on a model resonator 1 m long and of the same diameter as the working one. The shunt impedance was found to be 20 Mohm/m. Of all the oscillations  $E_{mnl}$  and  $H_{mnl}$  which can occur in the space of the resonator  $E_{01l}$  are of the greatest importance as these are close to the principal oscillation  $E_{010}$  used for accelerating the particles. The authors investigated the behavior of  $E_{01l}$  using the general equation for the wave frequencies in an unloaded resonator

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High frequency characteristics ...

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D210/D304

$$f_{mnl} = c \sqrt{\left(\frac{\gamma_{mn}}{2\pi R}\right)^2 + \left(\frac{l}{2L}\right)^2} \quad (5)$$

where  $\gamma_{mn}$  - roots of the derived Bessel functions; R - radius of the resonator; L - length of the resonator; m, n, l - integers specifying the number of half waves along the semi-perimeter, the radius, and the length of the resonator. The effect of the electrical length of the resonator, N, on the relative frequency displacement,  $\Delta f_e/f_0 = (f_1 - f_0)/f_0$  was obtained theoretically by modifying expression (5) to

$$(f_1 - f_0)/f_0 = 1^2/8N^2 \quad (6)$$

[Abstractor's note: In the original  $\Delta f_1$  was wrongly defined as  $\Delta f_1 = (f_1 - f_0)/f_0$ ]. Results of these calculations show that the

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High frequency characteristics ...

separation between the frequencies decreases sharply as the electrical length increases. For a 2 m wave in a 18 m resonator the difference between the principal and the nearest frequencies is only 230 kc/s. The experimental results for the resonator loaded with drift tubes are given in tabulated form, and show that the difference between the frequencies of  $E_{010}$  and  $E_{011}$  amounts to only 93.8 kc/s as compared to the calculated difference of 230 kc/s. The authors state that the insertion of the drift tubes into the resonator is equivalent to extending its electrical length, at least as far as the difference between the principal and the nearest neighbor field intensities is concerned. Thus, for the loaded resonator  $N = 13.8$  which corresponds to an unloaded length of 27 m for  $\lambda_0 = 2$  m. The authors finally point out that the appearance of possible vibration modes close to the principal ones may seriously impede the input of high frequency energy when the energy source is an autogenerator. There is always danger of a drift or even a jump to the neighboring frequency. This is aggravated by the fact that

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High frequency characteristics ...

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at the ends of the resonator the amplitude of the neighboring frequencies is nearly 1.5 times greater than that of the principal one, and it is at the ends of the resonator that the generators drift towards the neighboring frequency  $f_1$ . There are 5 figures, 1 table, and 4 references: 1 Soviet-bloc and 3 non-Soviet-bloc. The 2 references to the English-language publications read as follows: E.A. Day, R.P. Featherstone, L.H. Jonston, E.E. Lampi, E.B. Tucker, and J.H. Williams, Rev. of Sc. Instr. 29, N 6, 1958, p. 457; L.W. Alvarez, H. Bradner, J.V. Frack, H. Gordon, J.D. Gow, L. C. Marshall, Openheimer, W. Panowsky, C. Richman and J.R. Woodyard Rev. of Sc. Instr., 26, N 2, 1955. A

ASSOCIATION: Fizyko-tekhnichnyy instytut, AN URSSR, m. Kharkiv  
(Technical Physics Institute, AS UkrSSR, Khar'kov)

SUBMITTED: July 18, 1960

Card 6/6

28430

S/185/61/006/002/002/020  
D210/D304

24.6731  
AUTHORS:

Bolotin, L.Y., Bomko, V.O., and Revuts'kyy, Ye.I.

TITLE:

Smoothing of the accelerating field in a "long" resonator for linearly accelerating heavy particles

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 2, 1961, 163 - 166

TEXT: The author described methods of accurately levelling a field of large electrical length. The levelling was done on a resonator 18 m long loaded with 101 drift tubes and having an electrical length of  $N = 13.8$ . This problem had to be studied specially because of the difficulty of aligning fields in resonators containing many drift tubes. For making field measurements the resonator was excited with a highly stable generator. The electric field strength at the axis of the resonator was determined by measuring the magnetic field at its surface, using a magnetic probe. The measurements were carried out on a compensating bridge and were

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Smoothing of the accelerating ...

accurate to about 0.1 %. The levelling of the field along the accelerating path can be achieved either by varying the drift tube diameter along the resonator, or by tuning discs attached to the drift tubes. Although the latter method reduces the high frequency energy ( $\sim 20\%$ ) it was adopted because of its convenience for field levelling. The diameter of the tuning discs was chosen at 20 cm. This allowed satisfactory tuning for each segment of the resonator. The first step in the alignment was to determine the frequency characteristics for the drift tubes, 8 cm diameter, and discs, 20 cm diameter. This was done on an experimental resonator with a diameter of 1.5 m and 1 m long, and the results are shown in Fig. 2. Using these curves the resonator field was adjusted at a frequency of 142.5 Mc/s to within  $\pm 10\%$  of the average. The second step of the alignment was to use the method of harmonic analysis which is based on the expansion of waves  $E_{01}$  into Fourier series. Using this method the authors levelled the electric field in the resonator to within  $\pm 1\%$ , although the electrical length of the resonator is 1.5 times greater than that of the longest

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35770  
S/185/62/007/002/002/01  
D299/D302

24 6731  
AUTHORS:

Bolotin, L.Y., Suprunenko, V.O., Revuts'kyi, Ye.I.,  
and Romko, V.O.

TITLE:

Design and construction of an accelerating system for  
linear strong-focusing accelerator

PERIODICAL:

Ukrayins'kyi fizychnyy zhurnal, v. 7, no. 2, 1962,  
132 - 136

TEXT: A semi-empirical method is proposed for designing the accelerating system of a linear accelerator. This problem amounts to studying the distribution of the longitudinal electric field in the gap along the resonator axis and to determining the efficiency factors of the accelerating gaps. These factors are empirically found; they depend on the distribution of the field along the axis. It is assumed that the drift tubes are symmetrical. A comparison of the values of the period  $T_n$ , calculated by the approximate and the accurate method, showed that the approximate method is satisfactory. It is assumed that the length of the drift tubes is considerably

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D299/D302

Design and construction of an ...

smaller than the wavelength; hence the field can be considered as electrostatic. The problem reduces to the solution of Laplace's equation with given boundary conditions. Thereby one obtains a formula for the efficiency factor:

$$G_n(r) = \frac{I_0\left(\frac{2\pi r}{L_n}\right)}{I_0\left(\frac{2\pi a}{L_n}\right)} Y_1(\pi\alpha). \tag{8}$$

The quantity  $Y_1$  depends only on the ratio  $\alpha = \delta_n/L_n$ , ( $\delta$  denoting the gap between the drift tubes); it is constant for a given accelerating system;  $I_0$  denotes a modified Bessel function. The quantity  $\Psi$  is estimated for 2 types of actual boundary conditions: 1) the field at the periphery of the drift tubes is constant, and 2) the field is infinite. It was found that the values of  $G_n$ , corresponding to these 2 cases, differed by 6% only, which is entirely satisfactory for practical purposes. It is noted that the weak dependence of  $G_n$  on the boundary conditions, applies only in the case of

Card 2/3

BOMPE, A.F.

"On the visual formation of some thiocarbocyanines with substitutes in heterogeneous residues," report 58, Authors I.I. Levkoyev, N.N. Sveshnikov, I.N. Gorbacheva, and A.F. Bompe, Trudy NIKFI (Nauch.-issled, kino-foto-in-t), Issue 7, 1947 (column title: 1944), p. 25-33  
- Bibliog; 21 items

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

Bompiani, Enrico. Sur les directions inflexionnelles d'une transformation de De-Jonquières. Acad. Roum. Bull. Sect. Sci. 26, 1-3 (1946).

On sait que si  $O, O'$  sont deux points homologues dans une transformation ponctuelle entre deux plans  $\pi, \pi'$ , il existe trois droites  $a, b, c$  passant par  $O$  et trois droites correspondantes  $a', b', c'$  passant par  $O'$  telles que à chaque courbe ayant en  $O$  un point d'inflexion et ayant pour tangente d'inflexion une des droites  $a, b, c$  correspond une courbe ayant en  $O'$  un point d'inflexion et ayant pour tangente d'inflexion la droite  $a',$  ou  $b',$  ou  $c'$  correspondante. Ce sont les directions principales de la transformation pour le couple  $O, O'$  de points correspondants. L'auteur donne ici une simple construction géométrique des directions principales pour une transformation de De Jonquières d'ordre  $n$  entre  $\pi, \pi'$ . Si  $O_2$  est le point base multiple d'ordre  $n-1$  et  $A_1, \dots, A_{2(n-1)}$  sont les points bases simples dans le plan  $\pi$ , une des directions principales partant de  $O$  est  $OO_2$ ; les deux autres sont données par les tangentes en  $O$  de la courbe  $C$  qui a en  $O$  un point double, qui passe par  $A_1, \dots, A_{2(n-1)}$  et qui a en  $O_2$  les mêmes tangentes de la courbe d'ordre  $n-1$  passant par  $A_1, \dots, A_{2(n-1)}$  et ayant en  $O_2$  la multiplicité  $n-2$ . La construction dépend seulement des points bases de la transformation.

E. G. Togliatti (Gênes).

Source: Mathematical Reviews,

Vol 9 No, 10 1

BOMSHTEYN, A.I.; LEYKIN, I.L.

Main trends in the construction of aniline industry enterprises.  
Prom.stroi. 37 no.3:19-21 Mr '59. (MIRA 12:4)  
(Coal-tar colors) (Chemical plants)



BOMSHEYN, K.G.; POL'SHIN, D.Ye.; YAKOBSON, L.S.

Results of the automatic design of foundations. Osn., fund. 1  
mekh.grun. 5 no.6:12-14 '63. (MIRA 16:12)

134 16.  
Barium sulfate

Precipitation of uranium with hydrogen sulphide in presence of hexamethylammonium. E. A. Ostrowsky and R. I. Roschtein (Zool. Lab., 1939, 8, 350-361).—H.S. at 60° pptn. from a solution of  $UO_2Cl_2$  and  $(CH_3)_6N_4$  a "U-red."  $(NH_4)_2UO_2(OH)_2 \cdot 5NH_3$ . (I) has X-ray spacings of 7-66, 3-74, 3-33, 3-19, 2-63, 2-04, 1-88, 1-70, and 1-66 Å. The pptn. of (I) is quant. and one pptn. separates U from Ca, Mg, K, and Na. For analytical purposes (I) is heated, giving  $U_3O_8$ . J. J. B.

*By Mr. ...*  
*Donnelly, H. K.*  
*HL-12, Indigo*

**Separation of the metals of the third group from calcium, magnesium, and alkalis by means of hydrogen sulphide in presence of hexamethylenetetramine. E. A. Ostrowsky and R. J. Roschitzky (Zavod. Lab., 1949, 8, 129-133).—If  $\text{Mn}^{2+}$ ,  $\text{Fe}^{2+}$ ,  $\text{Al}^{3+}$ ,  $\text{Cr}^{3+}$ , and  $\text{Zn}^{2+}$  are pptd. by  $\text{H}_2\text{S}$  in presence of  $(\text{CH}_2)_6\text{N}_4$  at 60-65°, the pH of the solution increases gradually and every sulphide is pptd. more or less separately, forming crystals which do not adsorb Ca, Mg, or alkali metals. To a solution containing 0.3 g. of the metals 30-35 g. of  $\text{NH}_4\text{Cl}$  are added; after heating to 60° 7 g. of  $(\text{CH}_2)_6\text{N}_4$  are added and  $\text{H}_2\text{S}$  is passed through at a slowly rising temp. for ~1 hr. If  $\text{Ni}^{2+}$  or  $\text{Co}^{2+}$  is also present, a little  $\text{C}_6\text{H}_5\text{N}_2\text{HCl}$  is added before the  $(\text{CH}_2)_6\text{N}_4$ .**

J. J. B.



BOMSHTEYN, T. B.

"Obtaining Acid Solutions for the Hydrometallurgy of Copper." Sub 24  
Apr 47, Moscow Inst of Chemical Machine Building

*Chem. Technol. Sci.*  
Dissertations presented for degrees in science and engineering in Moscow  
in 1947

SO: Sum No. 457, 18 Apr 55

BOMSHTYIN, T. B.

183T32

USSR/Chemistry - Copper Refining

May 51

"Kinetics of the Reaction Between SO<sub>2</sub> and Ferric Sulfate in Aqueous Solution," I. N. Kuz'minykh, T. B. Bomshteyn

"Zhur Prik Khim" Vol XXIV, No 5, pp 453-459

In case of reaction of SO<sub>2</sub> with Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>, used for reduction of Fe<sup>+++</sup> to Fe<sup>++</sup> in Cu metallurgy, in aq soln, found 1.2-1.7 moles SO<sub>2</sub> used for 1 mole reacting Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>. Products are weak H<sub>2</sub>SO<sub>4</sub>, FeSO<sub>4</sub>, FeS<sub>2</sub>O<sub>6</sub> (dithionate). Found proportionality between reaction rate and concns of H<sub>2</sub>SO<sub>4</sub>, SO<sub>2</sub>, Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>.

183T32

RUZ'KIN'KH, I. N.; BOMSHTEYN, T. B.

Sulfur Dioxide

Effect of copper on the reaction between  $SO_2$  and ferric sulfate in aqueous solution.  
Zhur. prikl. khim. 26, No. 1, 1953.

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

MISHCHENKO, K.P., prof.; BOMSHTEYN, T.B., dotsent

[Problems of higher chemical and technical education; symposium papers presented at the Eighth Mendeleev Congress on General and Applied Chemistry] Problemy vysshego khimicheskogo i tekhnologicheskogo obrazovaniia; doklady na simpoziume na VIII Mendeleevskom s"ezde po obshchei i prikladnoi khimii. Moskva, 1959. 54 p. (MIRA 12:10)

1. Leningradskiy tekhnologicheskii institut tsellyulozno-bumazhnoy promyshlennosti (for Mishchenko). 2. Moskovskiy institut khimicheskogo mashinostroyeniya (for Bomshteyn). (Chemistry--Congresses)



Chemistry

see ILC

Engineers

Chief Machinist, Moscow Tool Plant (-1945-)

"The Problem of the Proper Organization of Operation and Repair of Metal-Cutting Machine Tools," Stanki i Instrument, 16, Nos. 7-8, 1945

BR-52059019

Chief Machinist, First State Bearings Plant (1945)

Chief Machinist, Krasnyy Proletariy Plant (1945)

MOROZOV, Boris Nikolayevich; BOMSHTEYN, Z.D., inzh., retsenzent; MORZOVA, M.N., inzh., red.; EL'KIND, V.D., tekhn. red.; SMIRNOVA, G.V., tekhn. red.

[Modern means of conveying and reprocessing metal shavings] Sovremennye sredstva transportirovaniia i pererabotki metallicheskoj struzhki. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 92 p. (MIRA 14:11)  
(Metal cutting) (Conveying machinery)

BOMSHTEYN, Z.D.

Mechanization and automation of auxiliary operations at the  
"Krasnyi Proletarii" Plant. Stan.i instr. 32 no.9:7-14 S '61.  
(MIRA 14:8)  
(Moscow--Machine-tool industry--Technological innovations)  
(Automation)

BOMSKA, Halina; FIDELSKI, Ryszard; MACIOL, Karol; ZUBRZYCKI, Zdzislaw

Observations on blood components and on the course of certain biochemical processes during preservation of the blood. *Polskie arch. med. wewnetrz.* 23 no.4:433-454 1953.

1. Ze stacji Krwiodawstwa w Poznaniu. Dyrektor: dr med. R. Fidelski.

(BLOOD TRANSFUSION,

\*preserved blood, biochem. aspects)

BOMSKI, Henryk; BOMSKA, Halina; SZYDLOWSKA, Grazyna

Clinical value of Addis test. Polski tygod.lek. 15 no.14:503-505  
4 Ap '60.

1. Z Oddzialu Chorob Wewnetrznych Szpitala Miejskiego w Zgiersu;  
Dyrektor Szpitala: dr med. St. Fijałkowski. Ordynator Oddzialu:  
dr H..Bowski.  
(URINE)

BOMSKI, Henryk; BOMSKA, Halina; GLEBOWSKI, Jozef; GIER, Maria

Iron deficiency in workers exposed to aromatic nitro- and amino-  
compounds. Polski tygod. lek. 16 no.1:26-27 2 Ja '61.

1. Z Zakladu Leczniczo-Zapobiegawczego przy ZPB "Boruta" w Zgierzu;  
kierownik: dr J. Glebowski, konsultant; dr H. Bomski.

(IRON defic)

(POISONING)

(OCCUPATIONAL DISEASES)

*Bomska, Halina*

70

~~BOMSKI, Henryk~~  
~~SURNICKI (in. cap.); Given name~~

Country: Poland

Academic Degrees: Dr. med.

Affiliation: Ordynator of Division of Internal Diseases, Municipal Hospital  
(Oddzial Chorob Wewnętrznych Szpitala Miejskiego), Zgierz

Source: Warsaw, Przegląd Lekarski, No 5, 1961, pp 195-196.

Date: "Disturbances in the Iron Balance in Internal Diseases and in Chemical  
Factory Workers."

Co-authors:

BOMSKA, Halina, Division of Internal Diseases, Municipal Hospital, Zgierz;  
Ordynator: Henryk BOMSKI, Dr. med.

GLEBOŃSKI, Josef, Division of Internal Diseases, Municipal Hospital, Zgierz;  
Ordynator: Henryk BOMSKI, Dr. med.

BYDLAŃSKA, Grażyna, Division of Internal Diseases, Municipal Hospital,  
Zgierz; Ordynator: Henryk BOMSKI, Dr. med.

GIER, Maria, Division of Internal Diseases, Municipal Hospital, Zgierz;  
Ordynator: Henryk BOMSKI, Dr. med.

OTAWSKI, Jan, Division of Internal Diseases, Municipal Hospital, Zgierz;  
Ordynator: Henryk BOMSKI, Dr. med.



BORSKI, Henryk  
Doktor (in. med.) Given Name

6

Country: Poland

Academic Degree: Dr. med.

Affiliation: Ordynator of Division for Internal Diseases, Municipal Hospital  
(Oddzial Chorob Wewnętrznych Szpitala Miejskiego), Zgierz

Source: Warsaw, Przegląd Lekarski, No 5, 1961, p 196.

Data: "Pseudoneurosis Sideropenica." (Preliminary Report)

Co-authors:

BORSKA, Halina, Division of Internal Diseases, Municipal Hospital, Zgierz;

Ordynator: Henryk BORSKI, Dr. med.

FRUSINSKI, A., Clinic of Nervous Diseases, School of Medicine (Klinika  
Chorob Nerwowych Akademii Medycyny, Lódź); Director: E. KOPAN,  
Prof. dr. medical sciences.

POLAND

BOMBSKI, Henryk; BOMBSKA, Halina and OTAWSKI, Jan; Division of Internal Diseases (Oddzial Chorob Wewnetrznych), Municipal Hospital (Szpital Miejski) in Zgierz, Chief Physician: Dr H. BOMBSKI.

"Studies on the Occurrence of Diabetes"

Warsaw, Polski Tygodnik Lekarski, Vol XVIII, No 5, 28 Jan 1953, pp 154-158

Abstract: [Authors' English summary modified] Among the 23,394 inhabitants of Zgierz over 20 years of age, all persons suffering from diabetes were registered. In 1950 persons (3.25 percent of the population over 20) a glyceamic curve was performed after glucose administration.

The occurrence of diabetes in people over 20 was found to be 21.1 percent. The occurrence of diagnosed diabetes is 6.6 percent (3.2 percent among women and 4.7 percent among men) and of undiagnosed 15.5 percent (14.1 and 15.2 percent among women and men respectively). The prediabetic state . . .  
1/2

BOMSKI, Henryk, Zgierz, ul. Niedzialkowskiego 24 m.3

Age, sex and occupation of patients with Addison-Biermer's anemia.  
Polskie arch. med. wewn. 24 no.6:981-991 1954.

1. Z III kliniki Chorob wnetrznych Akademii Medycznej w Poznaniu  
Kierownik: prof. dr. Med. F.Labendzinski  
(ANEMIA, PERNICIOUS, statistics  
in Poland, age, sex & occup. distribution)

BOMSKI, Henryk

Protein reactions during preservation of the blood. Acta physiol.  
polon. 5 no.3:327-333 1954.

1. Z III Kliniki Chorob Wewnętrznych Akademii Medycznej w Poznaniu.  
Kierownik: prof. dr F.Labendzinski.

(BLOOD BANKS,

preserv. of blood, protein reactions)

(BLOOD PROTEINS,

in preserv. blood, reactions)

BOMSKI, Henryk (Zgierz, ul. Niedzialkowskiego 24, m.3)

Normal blood picture and physiological lymphocytosis. I. Normal blood picture with special reference to lymphocyte count. Polski tygod. lek. 9 no.18:559-564 1 May 54.

1. Z III Kliniki Chorob Wewnętrznych Akademii Medycznej w Poznaniu, dyrektor prof. dr med. Franciszek Labendzinski.

(LYMPHOCYTOSIS,  
physiol.)

**BOMSKI, Henryk**

Results of parallel determination of hemoglobin in 20 various laboratories in Poznan. Polski tygod. lek. 9 no.27:836-840 5 July 54.

1. Z III Kliniki Chorob Wewn. A.M. w Poznaniu, kierownik: prof. dr F.Labendsinski.

(HEMOGLOBIN, determination,  
result of parallel determ. in various laboratories)

BOMSKI, Henryk

Incidence of Addison-Biermer's anemia. Polski tygod.lek. 10  
no.21:691-694 23 My '55.

1. Z III Klin.Chor. Wewn. A.M. w Poznaniu; kierownik: prof. dr.  
F. Labudzinski) Zgierz, ul. Niedzialkowskiego 24 m 3.  
(ANEMIA, PERNICIOUS, epidemiology)

BOMSKI, Henryk

Water test in internal diseases clinic. Polskie arch. med. wewn. 25  
no.1:1-16 1955.

1. Z III klin. chor. wewn. A.M. w Poznaniu; kier. prof. dr med.  
Fr.Labendzinski. Z kliniki interny polowej A.M. w Lodzi, kier.  
prof. med. A.Himmel.

(BLOOD PROTEINS

water test in internal dis., modified method)

(WATER

test on blood proteins in internal diseases, modified  
method)



BOJSKI, Henryk

Comparison of certain protein tests. Polski tygod. lek.  
11 no.8:357-360 20 Feb 56.

1. Z Kliniki Interny Polowej A M w Lodzi; kier. prof. dr. med.  
A. Himmel Zgierz, Dzierzynskiego 24 m. 3.  
(BLOOD PROTEINS, determination,  
comparison of various tests. (Pol))

3940. BOMSKI H. Klin. Interny Polowej A. M., Łódź. \* Czynniki krzepnięcia w białkach moczu. Coagulation factors in urinary protein POL. ARCH. MED. WEWNĘT. 1956, 26/8 (1273-1275) Tables 3

Urine containing protein was submitted to dialysis. The protein thus obtained was dissolved in saline and examined for the coagulation factors. Prothrombin, accelerators (factors V and VII), fibrinolytic factors, and coagulation-inhibiting bodies (anticoagulants) were found. Individual variations were considerable. No specific composition of the coagulation factors in the urinary protein was found in various kidney diseases. (VI, 2)

Z Kliniki Interny Polowej A. M. w Łodzi, Kier. prof. dr. med. A Himmel, Zgierz, ul. Dzierzynskiego 24 m. 3.

HIMMEL, A.; RUSZKOWSKI, M.; PANUSZ, H.; BOMSKI, H.

Acute plasma cell leukemia with atypical course. Polskie arch.  
med. wewn. 26 no.10:1557-1576 1956.

1. Z Kliniki Interny Polowej A.M. w Lodzi. Lodz, ul. Piotrkowska  
249 m. 31.

(MYELOMA, PLASMA CELL, case reports,  
atypical case (Pol))

BOMSKI, H.

Fate of leukocytes in transfusion. Polski tygod. lek. 8 no.27:937-940  
6 July 1953. (CMLL 25:1)

1. Of the Third Internal Clinic (Head--Prof. F. Labendzinski, M.D.) of  
Poznan Medical Academy.

BOMSKI, Henryk

Iodine reaction in internal diseases. Polskie arch. med.  
wewn. 27 no.1:15-28 1957.

1. Z Kliniki Interny Polowej A.M. w Łodzi Kierownik: prof.  
dr. med. A. Himmel. Adres autora: Zgierz, ul. Działyńskiego  
24 m. 3.

(BLOOD PROTEINS, determ.  
iodine reaction test (Pol))

(IODINE  
reaction test, in determ. of blood proteins (Pol))

BOMSKI H.

6001. BOMSKI H. and MARKIEWICZ K. Klin. Interny Polowej A. M., Łódź.

\*Krzywa glikozy we krwi w czasie próby Hinesa-Browna. The blood sugar curve during the Hines-Brown test POL. TYG. LEK. 1957, 12/10 (356-358) Graphs 6 Tables 2

Blood sugar determinations were made several times during the Hines-Brown test in 65 persons (38 vascular hypertensives, 11 neurotics, 9 with various diseases accompanied by a rise of blood pressure and 7 healthy subjects). The object was to explain the rise of arterial pressure occurring during the test. The blood sugar fell in 61.5% of subjects, rose in 34.5% and remained unchanged in 3.1%. Of the 38 patients with hypertensive vascular disease, 25 reacted with a fall of blood sugar; some others showed biphasic curves (increase followed by decrease or vice versa). Of the 7 healthy subjects, 4 showed a fall of blood sugar, 2 a rise and one no change. It is concluded that the mechanism of the rise of blood pressure in the Hines-Brown test is complex and probably does not depend on the participation of adrenaline.

(Z Kliniki Interny Polowej A. M. w Łodzi). adres: Łódź, Wojskowy Centralny Szpital Kliniczny, ul. Zeromskiego 113.

BOMSKI, Henryk; ROZGOWA, Daniela

A new rapid method for the determination of ABO and Rh blood groups.  
Polski tygod lek 15 no. 11388-392 14 Mr '60.

1. Z Oddzialu Choreb Wewnetrznych Szpitala Miejskiego w Zgiersu;  
dyrektor Szpitala: dr med. St. Fijalkowski, ordynator Oddzialu:  
dr H. Bernski.

(BLOOD GROUPS)

BOMSKI, Henryk; BOMSKA, Halina; SZYDLOWSKA, Grazyna

Clinical value of Addis test. Polski tygod.lek. 15 no.14:503-505  
4 Ap '60.

1. Z Oddziału Chorob Wewnętrznych Szpitala Miejskiego w Zgierzu;  
Dyrektor Szpitala: dr med. St. Fijałkowski. Ordynator Oddziału:  
dr H. Bowski.  
(URINE)



BOMSKI, Henryk; BOMSKA, Halina; GLEBOWSKI, Jozef; GIER, Maria

Iron deficiency in workers exposed to aromatic nitro- and amino-  
compounds. Polski tygod.lek. 16 no.1:26-27 2 Ja '61.

1. Z Zakladu Leczniczo-Zapobiegawczego przy ZPB "Boruta" w Zgierzu;  
kierownik: dr J.Glebowski, konsultant; dr H.Bomski.

(IRON defic)

(POISONING)

(OCCUPATIONAL DISEASES)

BORSKI, HENRYK  
SURNAME (in caps); Given Names

Country: Poland

Academic Degrees: Dr. med.

Ordynator of Division for Internal Diseases, Municipal Hospital  
Affiliation: (Oddzial Chorob Wewnetrznych Szpitala Miejskiego), Zgierz

Source: Warsaw, Przegląd Lekarski, No 5, 1961, pp 194-195

Data: "Methods of Discovering Iron Insufficiency." (Abstract)

Country: Poland

Academic Degrees: Dr. med.

Affiliation: Ordynator of Division of Internal Diseases, Municipal Hospital  
(Oddział Chorob Wewnętrznych Szpitala Miejskiego), Zgierz

Source: Warsaw, Przegląd Lekarski, No 5, 1961, pp 195-196.

Data: "Disturbances in the Iron Balance in Internal Diseases and in Chemical  
Factory Workers."

Co-authors:

BOMSKA, Halina, Division of Internal Diseases, Municipal Hospital, Zgierz;

Ordynator: Henryk BOMSKI, Dr. med.

GLEBOWSKI, Jozef, Division of Internal Diseases, Municipal Hospital, Zgierz;

Ordynator: Henryk BOMSKI, Dr. med.

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Zgierz; Ordynator: Henryk BOMSKI, Dr. med.

GIER, Maria, Division of Internal Diseases, Municipal Hospital, Zgierz;

Ordynator: Henryk BOMSKI, Dr. med.

OTAWSKI, Jan, Division of Internal Diseases, Municipal Hospital, Zgierz;

Ordynator: Henryk BOMSKI, Dr. med.

Reference (in caps); Given Name

Country: Poland

Academic Degree: Dr. med.

Affiliation: Ordynator of Division for Internal Diseases, Municipal Hospital  
(Oddzial Chorob Wewnetrznych Szpitala Miejskiego), Zgierz

Source: Warsaw, Przegląd Lekarski, No 5, 1961, p 198.

Data: "Pseudoneurosis Sideropenica.!" (Preliminary Report)

Co-authors:

BOMSKA, Halina, Division of Internal Diseases, Municipal Hospital, Zgierz;  
Ordynator: Henryk BOMSKI, Dr. med.  
PRUSINSKI, A., Clinic of Nervous Diseases, School of Medicine (Klinika  
Chorob Nerwowych Akademii Medycznej Lodz), Lodz; Director: E. HERMAN,  
Prof. dr. medical sciences.

POLAND

BOMBERSKI, Henryk; BOMBESKA, Halina and OTAWSKI, Jan; Division of Internal Disease (Oddzial Chorob Wewnetrznych), Municipal Hospital (Szpital Miejski) in Zgierz, Chief Physician: Dr H. BOMBERSKI.

"Studies on the Occurrence of Diabetes"

Warsaw, Polski Tygodnik Lekarski, Vol XVIII, No 5, 28 Jan 1963, pp 164-168

Abstract: [Authors' English summary modified] Among the 23,394 inhabitants of Zgierz over 20 years of age, all persons suffering from diabetes were registered. In 1930 persons (3.25 percent of the population over 20) a glycemic curve was performed after glucose administration.

The occurrence of diabetes in people over 20 was found to be 21.1 percent. The occurrence of diagnosed diabetes is 6.6 percent (8.2 percent among women and 4.7 percent among men) and of undiagnosed 15.5 percent (14.1 and 15.2 percent among women and men respectively). The prediabetic state |  
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*Bois, M.D.*

*CA*

**The structure determination of  $C_4H_6$  hydrocarbons.**  
 M. D. Bois. *Uchenye Zapiski Leningrad. Gosudarst. Univ. Ser. Khim. Nauk.* 3, 3-37(1938).—The oxidation mechanisms of allene hydrocarbons by a 1% aq. soln. of  $MnO_4^-$  and by  $O_3$  are detd. The  $MnO_4^-$  oxidation reaction cannot be used for structure detn. either of allene hydrocarbons, or of the disubstituted acetylenes. Ozonization is the only certain method to distinguish the disubstituted acetylenes from the allene hydrocarbons. A new combination method (by ozonizing and by oxidation with  $MnO_4^-$ ) was developed whereby the structure of  $C_4H_6$  hydrocarbons can be detd., and the disubstituted acetylenes can be distinguished from the allene hydrocarbons. A summary and 71 references are given. W. R. H.

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CA Sent M.D.

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(PROTEIN METABOLISM DISORDERS) (GLYCOPROTEINS)  
(METABOLIC DISEASES)

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