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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

CA

1

Luminescent analysis in the plant laboratory and shop. E. M. Brumberg and Z. M. Sverdlov. *Bull. acad. sci. U. R. S. S., Sér. phys.* 4, 75-82(1940).—The app. was constructed (a spark fluorophosphoroscope) which permits rapid detn. of the sort of glass. The same app. can be used for the luminescent analysis of porcelain, blast-furnace slags, cements and various minerals. For emeries a special luminescence microscope was constructed with quartz lenses; corundum, diaspor, zircon and mica can be detd. in emery in 7-10 min.

Roksalana Oamow

State Optical Inst, Leningrad

COMMON ELEMENTS

MATERIALS INDEX

OPEN

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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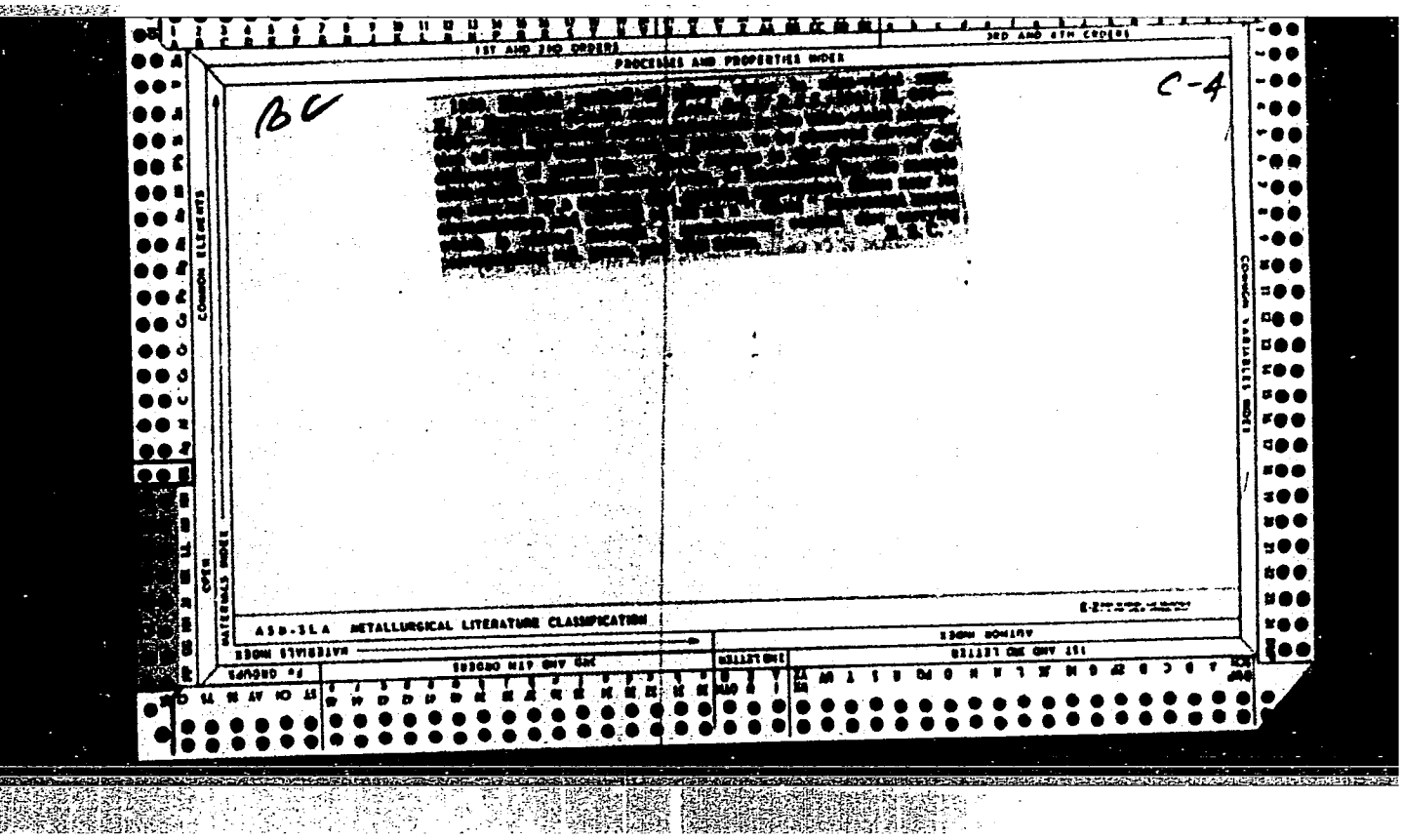

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

BC

2-4

[illegible] E. M. [illegible] and P. P. [illegible] (Compt. rend. Acad. Sci. U.R.S.S., 1941, [illegible], 192—198).—Interference [illegible] as well as the Haidinger brush are observed subjectively with a polariser and a Savar plate in front of the eye, and can be explained by radial polarisation in the fibres around the yellow spot. This can be indicated by a screen with strips of polaroid [illegible] and rotated rapidly with a polariser and Savar plate [illegible]. The spectral hues giving best Haidinger brushes were found to lie between 400 and 510 mμ., being best at 400; this phenomenon may be related to the absorption curve of the yellow macular pigment. K. J. W. C.

COMMON ELEMENTS

COMMON VARIABLES INDEX

OPEN

MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

AUTHOR INDEX

F. GROUPS

3RD AND 4TH ORDERS

2ND LETTER

1ST AND 3RD LETTER

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

MA

3

The Method of Colour Photomicrographs in the Ultra-Violet as Applied to Determination of Silver in Thin Sections. E. M. Brumberg and M. V. Shevchenko (*Compt. Rend. (Doklady) Acad. Sci. U.R.S.S.*, 1941, [N.S.], **32**, (7), 486-488).—(In English.) Polished opaque thin specimens of mineral argentite were examined in ultra-violet light from a mercury arc, using the mercury lines of wave-length 3130, 3600, and 5461 Å. in succession. The microscope was fitted with a reflecting objective consisting of two spherical aluminium mirrors, which, being free from chromatic aberration, permitted the specimen to be focused with visible light and subsequently examined with light of any wave-length without refocusing. Images were photographically recorded and the photographs examined with the help of a chromoscope (not described) which yielded a colour image. Micro-inclusions of silver in the argentite were clearly revealed, silver having a reflection minimum at 3200 Å. The application of the method to the examination of other minerals, metals, and products of chemical reaction at surfaces is discussed.—G. V. R.

1943

State Optical Inst., Leningrad

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye. M.

"Visual Measurements of Fluctuations of Quanta. I." Zhur. eksper. i teoret fiz., 12, Nos. 3-4, 1942

State Optical Insy., Leningrad

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye. M.

"Visual Measurements of Quantum Fluctuations. I. The Threshold of Vision as Compared with the Results of Fluctuation Measurements," Zhur. Fiz., 7, No.1, 1943

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, E. M.

PA 5T6

USSR/Microscopy
Radiation, ultraviolet
Microscopy, ultraviolet

Aug/Sep 1946

"Microscopy and Ultraviolet Rays," E. M. Brumberg, 5 pp

"Vestnik Akademii Nauk SSSR" Vol XVI, No 8,9

It is concluded that the method is still far from exhausted even as far as theory and apparatus is concerned, to say nothing of its various applications to concrete special investigations which are only in the initial stages. It will require cooperation of many workers in all fields fully to exploit the possibilities of microscopy.

5T6

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, E.M.

10

B

Microscope for Visual Colored Microscopy in Ultra-Violet Region. E. M. Brumberg. *Reports of the Academy of Sciences of U.S.S.R.*, v. 52, no. 6, 1946, p. 503-506.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

L-4

BCA

1210. **Microscope for visual colour microscopy in the ultra-violet.** E. M. Brumberg. (*Compt. rend. Acad. Sci. U.R.S.S.*, 1946, 52, 499—502; cf. C., 1948, 71).—A microscope for visual observation using the colour method with ultra-violet light is described. The image of the prep. is formed by ultra-violet rays and is projected by two objectives on to a thin fluorescent screen, where it is examined in fluorescent light by a second microscope. In the three-colour method a compound fluorescent screen is used with selective absorption in the ultra-violet. A two-layer fluorescent screen consisting of U glass and esculin is used for blue and green, whilst red is supplied by direct visible light. In the two-colour method a single one-colour fluorescent screen is used in conjunction with visible light passed through a filter. The two-colour method gives better resolving power than the three-colour method. The apparatus can easily be modified for the examination of the fluorescence of the specimen itself. A. J. M.

State optical Inst.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, YE. M. PA 9T57

USSR/Stains, Bacterial May 1947
Microscopes, Ultraviolet

"Concerning the Use of Fixators of Biological Objects as Stains for Ultraviolet Microscopes," Ye. M. Brumberg, Ye. A. Moiseyevand, A. A. Ferkhmin, 3 pp

"Doklady Akademii Nauk SSSR" Vol LVI, No 5

General discussion of problem.

9T57

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, YE. M.

USSR/Physics
Microphotography
Infrared Photography

Sep/Oct 48

"Microphotography With Infrared Rays," Z. N. Balmasova, Ye. M. Brumberg, V. Ye. Kozlov, Chair of Anat and Histol, Leningrad State U, 3 pp

"Iz Ak Nauk SSSR, Ser Biol" No 5

Infrared microscopy has previously been little used. Discusses methods of Blair and Davies (1933-34) and Bertrand at Becancon (1929). Describes a new method in detail. It can be used for various biological preparations, and staining the specimen is a simple, process. Included four photographs obtained by subject method.

Submitted 2 Feb 48

PA 49/49T107

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

PA 8/49T106

USSR/Physics
Phosphors
Crystals

Jul 48

"New Method of Studying the Absorption Spectra of Crystal Phosphors," Ye. M. Brumberg, F. M. Pekerman, 4 pp

"Dok Ak Nauk SSSR" Vol LXI, No 1, 43-6

At present there is no reliable data on the absorption spectra of crystallophosphors. This is due to the considerable difficulty experienced in studying the absorption spectra of fine crystalline powders. Authors describe procedure for taking absorption spectra of a single crystal, and give some preliminary

8/49T106

USSR/Physics (Contd)

Jul 48

data on the absorption spectra of crystal phosphors. Submitted 3 May 1948.

8/49T106

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, YE. M.

PA 42/49T83

USSR/Physics Mar/Apr 49
Phosphors
Spectra, Absorption

"New Method of Investigating the Absorption Spectra of Crystallophosphors," Ye. M. Brumberg, F. M. Pokerman, State Opt Inst, 6 pp

"Iz Ak Nauk SSSR, Ser Fiz" Vol XIII, No 2, 218-23

Developed method for recording absorption spectra of single crystals for small crystallic powdery phosphors. This method obviates effects of diffusive dispersion (inherent in powders) on measurements and permits study of absorption in the ultraviolet region close to the visible band by using very

[redacted] 42/49T83

USSR/Physics (Contd) Mar/Apr 49

thin crystals. Recorded absorption spectra of ZnS-, ZnS-Cu-, ZnS.CdS- and ZnS-Mn-phosphors at wave lengths of 405 to 254 millimicrons.

[redacted] 42/49T83

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

19

CA

Luminescence analysis of optical glasses. E. M. Brumberg, Z. M. Sverdlov, and T. V. Timofeeva. *Izvest. Akad. Nauk. S.S.S.R., Ser. Fiz.* 13, 243-7(1949).—A 254-mμ radiation gives in glasses higher intensity of luminescence than 366-mμ radiation. A spark fluoroscope was developed which permitted the observation of both phosphorescence (~ 10^{-3} sec.) and fluorescence (< 10^{-8} sec.). The light source for fluorescence was a high-voltage condensed spark between Fe electrodes. A simple monochromator consisting of a quartz lens and prism sepd. the ultraviolet. This radiation fell on the object and the fluorescence could be observed in a double mirror. To excite phosphorescence a spark was produced between a fixed electrode and one of 4 electrodes mounted on the rotating shaft of a motor. This carried a disk which covered the object during the spark. This instrument required a 10,000-v. 0.2-025 kv.-amp. transformer. A new instrument consists of a Hg-quartz lamp PRK 4, a Ni Co phosphate glass filter (cutoff 400–450 mμ) or (for weak rays) a liquid filter contg. a 1-cm. layer of 15% soln. of $NiSO_4$; it operates on 110 v. and 4 amp. Fluorescence was observed directly, phosphorescence with the help of a disk with 4 openings rotating at 2000 r.p.m., without filter. The phosphorescence was compared with that of a sample by means of an optical system. All glasses could be classified by the color of fluorescence and phosphorescence in 23 groups. Some groups comprised several different glass types (a classification table of 8 basic types of optical glasses is given). This instrument is used in production and makes it possible to investigate 1000 samples in 8 hrs. Foreign glasses of similar optical consts. give results comparable to Russian glasses. S. Pakswer

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye. M. PA 173T101

USSR/Physics - Ultraviolet Radiation 21 Dec 49
Chemistry - Chemical Analysis

"Observations by Ultraviolet Rays and Their Application to Adsorptional Chemical Analysis," Ye. M. Brumberg, S. A. Gershgorin

"Dok Ak Nauk SSSR" Vol LXIX, No 6, pp 801-804

Variant of the Russian botanist M. S. Tsvet's "chromatography" method (M. S. Tsvet, "Chromatographic Adsorptional Analysis" (Khromatograficheskiy Adsorbtsionnyy Analiz) 1946). Description of photographic and visual methods involving filter-paper technique. Submitted 29 Oct 49 by Acad S. I. Vavilov.

[redacted] 173T101

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, E. M.

Chemical Abstracts
Vol. 48 No. 5
Mar. 10, 1954
Electronic Phenomena and Spectra

Chem 2 3

Use of ultraviolet light in chromatography. (E. M. Brumberg. *Issledovaniya v Oblasti Khromatog., Trudy Vsesoyuz. Soveshchaniya Khromatog., Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1950, 127–36 (Pub. 1952); cf. *C.A.* 45, 8391i.—The use of fluorescence in chromatographic seprns. is discussed. Visual, photographic, and photoelec. methods are explained. Possibilities of infrared are briefly cited.

G. M. Kosolapoff

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

B, Ab.

C-4 - Gen. Technology
(Gen - miscellaneous)

4141. **Use of ultra-violet rays in analytical chemistry. I. Volumetric analysis in ultra-violet rays.** E. M. Brumberg, I. A. Pavel, and K. P. Stolyarov (*J. anal. Chem., USSR*, 1950, 5, 198—199).—In many types of titration the addition of an indicator may be obviated with advantage by operating in filtered ultra-violet light and observing the transmitted light on a fluorescent screen. A suitable source of illumination is a low-pressure Hg lamp and a generally serviceable screen is one excited by rays of λ 360 mμ. The solution is titrated in a cell with quartz ends placed between the lamp and the screen. The end-point is indicated by the appearance or disappearance of colour on the screen. Examples of application of the method are: (1) titration of $Ce(SO_4)_2$ with H_2O_2 and inversely; (2) titration of $Ce(SO_4)_2$ with ascorbic acid; (3) titration of ascorbic acid with $FeCl_3$; (4) titration of $FeCl_3$ with KI and back-titration of the I liberated with thiosulphate.

G. S. Smith.

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PROCESSES AND PROPERTIES INDEX

8

6650. **An Instrument for Chromatography and Chemical Analysis in Ultraviolet Rays (Ultrachemiscope).**

E. M. Brumberg. Doklady Akad. Nauk S.S.S.R. 72, 885-8(1950) June 11. (In Russian)

In previous papers (Doklady Akad. Nauk S.S.S.R. 25, No. 6 (1939); 69, No. 6(1949)) the author has described several methods of microchemical analysis and chromatography in ultraviolet light, in which visible color shadows, reflecting the character of absorptions in the ultraviolet, were obtained with the aid of fluorescent screens. A description is given here of a simple instrument serving similar purposes. In front of a Hg lamp, emitting light of 253 mμ wavelength and longer, are placed (1) a dark-purple glass plate absorbing the visible and transmitting in the range 410 to 240 mμ, (2) the filter paper bearing the chromatographic diagram or the spot left by the chemical drop analysis, and (3) a fluorescent screen. The screen is a glass plate with three thin layers of substances differing in fluorescence and absorption spectra in such a way that, as a result of mutual absorption, only rays of 400 to 330, 330 to 270, and <270 mμ traverse, respectively, the three layers, and the outcoming fluorescence is a mixture of the three fundamental colors, viz., red, green, and blue. As a consequence, the absorption in the chromatographic spots produces shadows upon the screen whose colors can be used as characteristic signs of the separated substances. The author is working at present on a procedure that will permit the use of shorter (<250 mμ) wavelengths; the chromatographic diagram (or the initial mixture) is "developed" with the aid of reagents transforming the original substances into others that absorb the ultraviolet (e.g., amido-acids are transformed into benzoyl derivatives).

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CA

Etching of metals and minerals for ultraviolet microscopy

B. M. Brumberg, G. A. Zaitsev, and T. G. Porokhova. *Doklady Akad. Nauk S.S.S.R.* 73, 1165-8(1950).—Exptl. studies were made relating to ultraviolet metallography of metals and minerals with metallic luster. A Beckman spectrophotometer, fitted for measuring the coeff. of specular reflection, detd. percentage of reflectivity in the range 220-500 μμ for pieces of pure metals given a metallographic polish. In some cases, such as Bi and Al, pronounced differences in reflectivity appeared below about 400 μμ. In other cases, e.g. Sb and Sn, no large difference appeared. It was then possible to make use of an etching effect in which strong, selective absorption of ultraviolet light is caused by a thin film of a metal salt or oxide, invisible in ordinary light. From 0.2 to 0.8 μμ films of various oxides and salts were prepd. by vacuum evapn. on quartz plates and their reflectivity curves were detd. *in situ*. These curves showed a sharp drop, generally in the range 280 to 400 μμ. Gases such as O_2 and H_2S were used as etchants. A method of color photography in the ultraviolet involves taking two or more pictures of a given area of the specimen, the second (and each successive) picture being taken after (a different) etching. Each picture is then projected in the Chromoscope with a different color of filter. This procedure allows distinguishing among many phases in an alloy. The structure of Silumin was shown in 2 exposures, and the 4 phases present appeared in different colors. This method can be combined with that involving the use of different wave lengths.

A. G. Guy

1951

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

B

26

557* **Application of Ultraviolet Rays in Chromatographic Analysis in Adsorption Columns.** (In Russian.) F. M. Brumberg, I. N. Berezhnaya, V. P. Dutkinskii, and S. E. Manoilov. *Doklady Akademii Nauk SSSR* (Reports of the Academy of Sciences of the USSR), new ser., v. 74, Oct. 1, 1950, p. 747-750. Describes technique for the above using specially developed apparatus.

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BTR
BRUNBERG, YE.M.

1486* Application of Ultraviolet Rays in Chromatography.
(In Russian.) E. M. Brunberg. *Uspekhi Fizicheskikh Nauk*, v.
14, Apr. 1951, p. 000-000.
Reviews the above. Includes diagrams and graphs. 24 ref.

Name of chromatography was applied in 1903 by M. S. Tsvet, Russian botanist, to his phys method of sepn of closely related, chem substances. B.Ya. Svechnikov had to write review on subject (cf "Priroda" 6, 14, 1941) In 1949 Vavilov, Dir. Leningrad Lab. applied this method in ultraviolet light region.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, YE. M.; BUKHMAN, M. P.; KOZLOV, V. YE.

Microscope and microscopy

Histochemical reactions for the ultraviolet microscopy. Dokl. AN SSSR 86, no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. UNCLASSIFIED.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.; KRYLOVA, T.N.

Use of interference light filters in fluorescent light microscopy. Zhur.ob.biol. 14 no.6:461-464 N-D '53. (MLRA 6:11)
(Fluorescence) (Microscope and microscopy)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.; LARIONOV, L.F.; KONDRAT'YEVA, T.M.; KOROLEV, N.V.

Visual ultraviolet microscopy as a new method of study of live cell. Doklady Akad. nauk SSSR 88 no. 6:1055-1057 21 Feb 1953. (CLML 24:1)

1. Presented by Academician A. I. Abrikosov 6 January 1953. 2. Central Roentgenological, Radiological, and Cancer Institute.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

Fluorescent microscope. E. M. Brumberg. Zhur. Obshchei Biol. 16, 222-37(1955). Construction and details are described of operation of a fluorescent microscope [illegible] opaque illuminator, used on living materials.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, E. M.

Distr: 4E4j/4E3d/

Application of ultraviolet rays in chromatography. E. M. Brumberg and E. A. Materova. *Khromatografiya, Leningrad, Gosudarst. Univ. im. A. A. Zhdanova, Sbornik Statei 1950, 87-96.*—A series of inorg. salts and org. acids were sepd. by chromatography on Al_2O_3, ultraviolet photography being used. Even negligible amts. (10^{-1} or 10^{-2} mg.) can be detected if the column is photographed in the light of a suitable wave length. A. Libacky

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.

Ultraviolet fluorescence microscopy [with English summary in insert]. Zhur.ob.biol. 17 no.6:401-412 N-D '56. (MLRA 10:9)

1. Gosudarstvennyy opticheskiy institut im. S.I.Vavilova.
(FLUORESCENCE MICROSCOPY)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.; MEYSEL',M.N.; BARSKIY, I.Ya.; BUKHMAN, M.P.

Experiment in ultraviolet fluorescence microscopy of biological objects [with summary in English]. Zhur.ob.biol. 19 no.2:99-107 Mr-Ap '58. (MIRA 11:3)

1. Gosudarstvennyy opticheskiy institut im. S.I.Vavilova, Institut biofiziki AN SSSR i Botanicheskiy institut im. V.L.Komarova AN SSSR.
(FLUORESCENCE MICROSCOPY) (ULTRAVIOLET RAYS)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BARSKIY, I.Ya., BRUMBERG, Ye.M.

Ultraviolet fluorescence of aromatic amino acid crystals [with summary in English]. Biokhimiia 23 no.5:791-792 S-O '58 (MIRA 11:11)

1. Botanicheskiy institut imeni Komarova i Gosudarstvennyy opticheskiy institut imeni S.I. Vavilova, Leningrad.
(AMINO ACIDS, determ.
ultraviolet fluorescence of aromatic acids crystals (Rus))

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.

Fluorescence microscopy of biological objects with incident illumination. Biofizika 4 no. 4:471-475 '59. (MIRA 14:4)
(FLUORESCENCE MICROSCOPY)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.; BARSKIY, I.Ya.; MOROZ, P.E.

Ultraviolet microscopy of biological objects with incident illumination. Biofizika 4 no.5:595-599 '59. (MIRA 14:6)
(MICROSCOPY) (ULTRAVIOLET RAYS)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BARSKIY, I.Ya.; BRUMBERG, Ye.M.; BUKHMAN, Ye.M.; VASILEVSKAYA, V.K.; PLUZHNIKOVA, G.V.

Use of ultraviolet fluorescence microscopy in the study of botanical objects. Bot.zhur. 44 no.5:639-642 My '59. (MIRA 12:11)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR i Leningradskiy gosuniversitet.
(Botanical research) (Fluorescence microscopy) (Photomicrography)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

Brumberg, Ye. M.

USSR

reports to be submitted to the 1st Intl Congress of Histochemistry and Cytochemistry, Paris, France, 28 Aug-3 Sep '60.

BRODSKIY, V. Ya. - "The nucleic acids of the nerve cell's nucleus and cytoplasm"
DOMSKICH, N. V., VINOGRADOV, V. V. and SUBBOTIN, M. Ya. - "Histochemistry of extraembryonic connective tissue in pathological conditions"
FRIDENSHTEYN, A. Ya. - "Some aspects of carbohydrate metabolism of the transitional epithelium"
GEORGIYEV, G. B. - "The studies on the cell. nucleoproteins with the aid of phenol fractionation procedure"
GRIGOR'YEVA, T. A., MEYSEL', M. N., BRUMBERG, Ye. M., BARSKIY, I. Ya. and GUTKINA, A. V. - "Ultraviolet fluorescence microscopy as a new field of histochemistry"
KHVATEVA, G. N. - "Histochemical characteristics of diphtheric polyneuritis"
KRASNOV, I. B. - "The determination of sulfhydryl groups of proteins by means of the inhibitory-indicator (bromoacetylnitrobenzoic acid) method"
MAKAROV, P. V. - "Cytochemical and autoradiographic analysis of the role of nucleic acids in the synthesis of cellular proteins"
ORLOVSKAYA, G. V. - "The evolution of the protein-polysaccharide composition of cardiac connective tissue in the development of rheumatic process"
POLEKHOV, A. L. - "Histochemical contribution to the study of di-encephalo-hypophyseal secretion"
PORTUGALOV, V. V. - "Some mechanisms controling the chemical activity of the neuron mitochondria" (A summary of this report has been received by the organizers of the Congress and is included in Group I)
Aspects of histochemistry and the nervous system (This is a proposed report of which the exact title is not yet known. It is listed by general subject matter under Group III)
PRESNOV, M. A. - "Histochemistry in experimental cancer chemotherapy"
ROSKIN, G. I. - "Comparative histochemistry of neurons differing in their function"
SHABADASH, A. L. - "Presence of ribonucleoproteins in mitochondria of different animal cells and their functional importance" and "Cytochemical and cytophysical peculiarities of nerve tissues biological organization"
STRUKOV, A. I. - "Histochemical examinations of connecting tissues in the light of recent pathological studies"
TUSTANOVSKIY, A. A. - "A comparative physical and chemical characteristic of precollagen and collastromine"
VASIL'YEV, Yu. M. - "Histochemical studies of the connective tissue, changes observed in the source of development of induced sarcoma in rats"
ZBARSKIY, I. B. - "Proteinic and nucleic composition of nuclear structures"
ZBARSKIY, I. B. and PEREVOSHCHIKOVA, K. A. - "On the role of cell nucleus and its fractions in protein biosynthesis measured by the incorporation of labeled amino acids"

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Soveshchaniye po lyuminestsentsii, 8th, 1959

Metody lyuminestsentnogo analiza; materialy soveshchaniya (Methods for Luminescence Analysis; Materials of the 8th Conference) Minsk, Izd-vo AN BSSR, 1960. 147 p. 1,000 copies printed.

Sponsoring Agency: Akademiya nauk Belorusskoy SSR. Institut fiziki.

General Ed.: N. A. Borisevich; Ed.: L. Timofeyev; Tech. Ed.: N. Siderko.

PURPOSE: This collection of articles is intended for chemists and physicists interested in molecular luminescence, and for scientific personnel concerned with applications of this and related phenomena in research in the life sciences.

COVERAGE: The collection contains 28 papers read at the Eighth Conference on Luminescence, which took place 19-24 October, 1959 [place of conference not given]. These studies are concerned principally with the development of new luminescence methods for quantitative and qualitative chemical analysis, and with the applications of luminescence in medical and biological research. They discuss luminescence methods for the determination of uranium, mercury, magnesium, aluminum, boron, and other elements, as well as luminescence methods for the diagnosis of skin cancer and the detection of grippe virus, pathogenic microorganisms, etc. The structural design of new instruments for luminescence analysis is described. The conference was not concerned with studies on the phosphorescence of crystal phosphores. There is a discussion of the contributions of Soviet specialists in molecular luminescence in the course of the year and a half preceding the conference. The articles of V. K. Matveyev (p. 75) and of V. V. Patrikeyev (p. 79) have been annotated because of their importance. No personalities are mentioned. References accompany most of the articles.

Tudilevich, M. M. Luminescence Method and Device for the Analysis of Water-Oil Emulsions 87

Faydysh, A. N., L. Ye. Chechik, A. D. Chugay, and M. I. Prabebyl'skiy [TsZL Kiyevskogo zavoda "Krasnyy Rezinshchik," Kiyevskiy universitet (TsZL of the Kiyev Plant "Krasnyy Rezinshchik," Kiyev University)]. Luminescence Analysis of Rubbers 90

Berman, M. L. [Tashkentskiy nauchno-issledovatel'skiy institut kabel'noy promyshlennosti (Tashkent Scientific Research Institute of the Cable Industry)]. Investigation by the Luminescence Method of the Diffusion of Liquids in Rubbers 94

Provorov, V. N., and V. D. Zaytseva [Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy (Scientific Research Institute of Rubber and Latex Products)]. Luminescence Properties of Ingredients and Rubbers Made From Natural Rubber 98

Brumberg, Ye. M., M. N. Meysel', and A. V. Gutkina [Institut biologicheskoy fiziki AN SSSR (Institute of Biological Physics AS USSR)]. Luminescent Microscopy of Living Organs 103

Anestiadi, V. Kh. [Kishinevskiy gosudarstvennyy meditsinskiy institut (Kishinev State Medical Institute)]. Luminescence Microscopic Analysis of Skin Cancer 107

Kononenko, A. P., and K. M. Ischenko-Lincik. Study by the Luminescence Microscopy Method of the Morphology of Certain Sporogenous and Asporogenous Bacteria 111

Rubinshteyn, Yu. I. [Institut pitaniya AMN SSSR (Institute of Nutrition of the Academy of Medical Sciences of the USSR)]. Experimental Use of Luminescence Microscopy in Mycology 118

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BRUMBERG, YE. M.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BHUMBERG, Ye.m. (Leningrad); BARSKIY, I.Ya. (Leningrad)

Use of ultraviolet fluorescent microscopy with cytological objects. TSitologiia 2 no.3:318-324 My-Je '60. (MIRA 13:7)

(FLUORESCENCE MICROSCOPY) (CELLS)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.; BARSKIY, I.Ya.; KONDRAT'YEVA, T.M.; CHERNOGRYADSKAYA, N.A.; SHUDEL', M.S.

Ultraviolet fluorescence microscopy of formed elements of the marrow and peripheral blood. Dokl. AN SSSR 135 no.6:1521-1524 D '60. (MIRA 13:12)

1. Institut tsitologii Akademii nauk SSSR. Predstavleno akademikom A.N. Tereninym.
(MARROW) (BLOOD CELLS) (FLUORESCENCE MICROSCOPY)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, YE. M. (USSR)

"Ultraviolet Fluorescence Microscopy."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, YE. M., CHERNOGRYADSKAYA, N. A., and BARSKIY, I. YA. (USSR)

"Ultraviolet Fluorescence Microscopy of Bone Marrow and Peripheral Blood Cells."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.; BARSKIY, I.Ya.; VARGINA, N.M.; KONDRAT'YEVA, T.M.

Use of ultraviolet microcinematography in observations on the behavior of nucleic acids in living cells. TSitologiia 3 no. 1:85-88 Ja-F '61. (MIRA 14:2)

1. Gosudarstvenny opticheskiy institut i TSentral'nyy institut meditsinskoy radiologii Ministerstva zdravookhraneniya SSSR, Leningrad.
(NUCLEIC ACIDS) (MICROCINEMATOGRAPHY) (ULTRAVIOLET RAYS)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.; BARSKIY, I.Ya.; KONDRAT'YEVA, T.M.; CHERNOGRAYDSKAYA, N.A.

Ultraviolet fluorescence of formed elements in the marrow and peripheral blood of animals and man under normal and pathological conditions. Report No. 1: Ultraviolet fluorescence of formed elements in the marrow and peripheral. Biofizika 6 no. 1:114-118 '61. (MIRA 14:2)

1. Institut tsitologii AN SSSR, Leningrad.
(NARROW) (BLOOD CELLS) (FLUORESCENCE MICROSCOPY)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BARSKIY, I.Ya.; BRUMBERG, Ye.M.; KONDRAT'YEVA, T.M.

Ultraviolet fluorescence of bone marrow and peripheral blood elements in normal and pathological conditions in men and animals. Report No.2: Ultraviolet fluorescence of bone marrow and peripheral blood cells in animals in radiation injury. Biofizika 6 no.5:605-609 '61. (MIRA 15:3)

1. Institut tsitologii AN SSSR, Leningrad i TSentral'nyy nauchno-issledovatel'skiy institut meditsinskoy radiologii Ministerstva zdravookhraneniya SSSR, Leningrad.
(RADIATION SICKNESS)
(MARROW) (BLOOD CELLS)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.; BARSKIY, I.Ya.

Microscope for ultraviolet fluorescence microscopy. Zhur. ob. biol. 22 no.6:459-466 N-D '61. (MIRA 14:11)

1. Gosudarstvennyy opticheskiy institut imeni S.I.Vavilova.
(FLUORESCENCE MICROSCOPY)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

S/020/61/141/003/016/021
B103/B110

AUTHORS: Brumberg, Ye. M., Meysel', M. N., Corresponding Member AS USSR, Barskiy, I. Ya., Zelenin, A. V., and Lyapunova, Ye. A.

TITLE: Ultraviolet luminescence of cells in mitotic division

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 3, 1961, 723 - 725

TEXT: Cells and tissues grown outside the organism were studied: (a) human: an inoculated descent of amnion cells; (b) cultures of embryonic epithelium; (c) of fibroblasts; (d) animal: primary cultures of the kidneys of guinea pigs and monkeys. Single tissue cultures were grown on quartz glass and examined by ultraviolet-luminescence microscopy either living (in physiological salt solution) or after fixing by methanol. The methods had been described previously (Ye. M. Brumberg et al., Biofizika, 6, No. 1, 114 (1961); Ye. M. Brumberg et al. Tsitologiya, 2, 589 (1960); Ye. M. Brumberg, Zhurn. obshch. biol. 27, No. 6,

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401 (1956)). Microphotographs showed that the cells undergoing mitosis differed from cells at rest in the following facts: The cells at rest weakly fluoresce; fluorescence increases already during the early prophase and reaches maximum intensity in the middle of the metaphase. Then, it slowly decreases; however, until complete separation of the daughter cells, it exceeds the fluorescence of the cells at rest undergoing interkinesis. The cell nucleus, unlike the total cytoplasm, does not fluoresce. Dark, not fluorescing chromosomes can be seen on the background of the cytoplasm. The absorption of shortwave ultraviolet rays (250-270 mμ) by the cells increases with rising intensity of fluorescence. Absorption and fluorescence patterns interrelated like a negative and a positive; in both images, however, the chromosomes remain dark. The fluorescence of cells at rest is not so constant as that of dividing cells. There are always individual groups of brightly fluorescing cells at rest. In most cases these are degenerating, perishing cells whose increasing fluorescence is not accompanied by increased ultraviolet absorption. Chromoscopic examination (Ye. M. Brumberg. DAN, 25, 473 (1939)) showed degenerating cells at rest and dividing cells are

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differently colored. Selective extraction of nucleotides, nucleic acids, and lipoids with perchloric acid in the cold and at 90°C, and with ribonuclease showed that the ultraviolet fluorescence of dividing cells is not due to the action of these extracted substances, except the bone marrow, the fluorescence of which rapidly decreases after extraction of nucleotides. The character of fluorescence cannot be changed by strong oxidizers and reducing agents (rongalite, potassium permanganate). 2% of urea somewhat increases the fluorescence of cells at rest. It is concluded that the intensity of fluorescence of cells undergoing mitosis is increased by high-molecular substances (most probably proteins containing cyclic amino acids) which are difficult to extract from the cell. This increase is possibly related to a reversible denaturation of protein in various physiological processes (muscular work). This might not be an absolutely formal analogy, since the occurrence of contractile proteins in the cell during mitosis had previously been proved. These proteins effect the mechanical work of chromosome separation and cell division. The muscles differ from other tissues in their particularly strong ultraviolet fluorescence. It is less probable that cell fluorescence during division should be increased by low-molecular substances

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which are produced in metabolic shifts or accumulated. This means that these shifts occur only in certain stages of mitosis (Refs. 8 and 9, see below), whereas an increase of fluorescence could be observed during all stages of division. Experiments will be continued. Ye. S. Zalmanzon is thanked for supplying the tissue cultures. There are 11 references: 7 Soviet and 4 non-Soviet. The three most recent references to English-language publications read as follows: Ref. 8: H. A. Went, Ann. N.Y. Acad. Sci., 90, Art. 2, 422 (1960); Ref. 9: D. Mazia, Sulfur in Proteins, R. Bensch et al. edit., N.Y., 1959; Ref. 10: J. Brachet, The Biochemistry of Development, London, 1960.

ASSOCIATION: Institut radiatsionnoy i fiziko-khimicheskoy biologii Akademii nauk SSSR (Institute of Radiation and Physico-chemical Biology of the Academy of Sciences USSR)
Institut tsitologii Akademii nauk SSSR (Institute of Cytology of the Academy of Sciences USSR)

SUBMITTED: August 28, 1961

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BARENBOYM, G.M.; BARSKIY, I.Ya.; BRUMBERG, Ye.M.; PINTO, R.I.

Apparatus for measuring the fluorescence intensity of microstructures of biological objects. Biofizika 7 no.3:351-356 '62. (MIRA 15:8)

1. Institut tsitologii AN SSSR, Leningrad.
(BIOLOGICAL APPARATUS AND SUPPLIES)
(FLUORESCENE--MEASUREMENT)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, E.M. [Brumberg, Ye.M.]; BARSKI, I.I. [Barskiy, I.I.]

Microscope for the ultraviolet fluorescent microscopy. Analele biol 16 no.4:141-149 Jl-Ag '62.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye. M.

"Ultraviolet Fluorescence Microscopy." pp. 13

~~Institute~~ of ~~Cytology AS USSR~~ State Optical Institute imeni S. I. Vavilov

II Nauchnaya Konferentsiya Instituta Tsitologii AN SSSR. Tezisy Dokladov (Second Scientific Conference of the Institute of Cytology of the Academy of Sciences USSR, Abstracts of Reports), Leningrad, 1962 88 pp.

JPRS 20,634

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.; BARSKIY, I.Ya.; CHERNOGRYADSKAYA, N.A.; SHUDEL', M.S.

Ultraviolet fluorescence microscopy. Izv. AN SSSR. Ser. biol. 28, no.1:87-90 Ja-F'63. (MIRA 16:8)

1. Institute of Cytology, Academy of Sciences of the U.S.S.R., Leningrad.

(FLUORESCENCE MICROSCOPY)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

ROZANOVA, L.M.; BARSKIY, I.Ya.; BRUMBERG, Ye.M.

Ultraviolet fluorescence of the blood cells in people with leukemia. Dokl. AN SSSR 150 no.4:907-908 Je '63. (MIRA 16:6)

1. Leningradskiy nauchno-issledovatel'skiy institut perelivaniya krovi. Predstavleno akademikom A.I. Oparinym.
(LEUKEMIA) (BLOOD CELLS) (MARROW)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.; BARSKIY, I.Ya.; CHERNOGRYADSKAYA, N.A.; SHUDEL', M.S.

Nature of the ultraviolet fluorescence of cells. Dokl. AN SSSR 150 no.6:1356-1358 Je '63. (MIRA 16:8)

1. Institut tsitologii AN SSSR. Predstavleno akademikom A.I. Oparinym.

(BIOLUMINESCENCE) (CELLS)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.; BARSKIY, I.Ya. (Leningrad)

Contact fluorescence microscope for medical examinations.
Arkh. pat. no.7:59-62 '64. (MIRA 18:7)

1. Opticheskiy institut imeni S.I.Vavilova).

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L 13989-65 EEO-2/EWT(1)/EED-2 Pn-4/Pae-2/P1-4 IJP(c)/ASD(a)-5/SSD/ESD(c)/ESD(dp)/ESD(gs)/ESD(t) CC

ACCESSION NR: AP4048977 S/0286/64/000/020/0091/0092

AUTHOR: Brumberg, Ye. M.

TITLE: Device for obtaining chromatic images of objects observed in the invisible region of the spectrum. Class 21, No. 79799

SOURCE: Byulleten' izobreteniy i tovarny*kh znakov, no. 20, 1964, 91-92

TOPIC TAGS: light filter, image converter, chromatic image, optic system

ABSTRACT: This Author Certificate introduces a device for obtaining color images of objects in the invisible region of the spectrum. An optical system splits the light into beams which correspond to "colors" in the image. In the path of each beam is placed a filter corresponding to a "color" in the invisible region of the spectrum, a fluorescent screen, and a filter corresponding to a color in the visible region. Existing optical techniques are used to converge the individual images into the visual field of an eyepiece.

ASSOCIATION: none

Card 1/2

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NO REF SOV: 000 OTHER: 000 ATD PRESS: 3133

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, I.Ye.; BRUMBERG, Ye.M.

Ultraviolet fluorescence of cells in phagocytosis. Biofizika 9 no.2: 237-238 '64. (MIRA 17:12)

1. Institut biologicheskoy fiziki AN SSSR, Moskva, i Leningradskiy institut perelivaniya krovi.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, I.Ye.; BRUMBERG, Ye.M.

Use of ultraviolet fluorescence microscopy for the study of the action of mouse blood plasma on LIO-1 tumor cells. (MIRA 18:3)
Biofizika 9 no.4:502-505 '64.

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.; BRUMBERG, I.Ye.

Effect of glycolytic toxins on ultraviolet cell fluorescence. (MIRA 18:7)
Biofizika 9 no.6:748-750 '64.

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

CHERNOGRYADSKAYA, N. A.; BRUMBERG, Ye. M.; BRESLER, V. M.; PILSHCHIK, Ye. M.; SHUDEL', M.D.
KUDRYAVTSEVA, M. V.; ASTASHINA, T. P.

"Some data on the inherent ultra-violet fluorescence of mitochondria of living cells."

report submitted for 2nd Intl Cong, Histochemistry & Cytochemistry, Frankfurt, 16-21 Aug 64.

Lab Microscopy, Inst of Cytology, AS USSR, Prospekt Makslina, Leningrad F-121.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

SHUDEL', M.S.; CHERNOGRAYDSKAYA, N.A.; BRUMBERG, V.A.; ROZANOV, Yu.M.; BRUMBERG, Ye.M.

Effect of some metabolic poisons of the respiratory chain on the ultraviolet fluorescence of cells. Dokl. AN SSSR 157 no. 2:447-450 Jl '64. (MIRA 17:7)

1. Institut tsitologii AN SSSR. Predstavleno akademikom A.I. Oparinym.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

ALEKSANDROV, V.Ya., prof.; BRODSKIY, V.Ya.; BRONSHTEYN, A.A.; BRUMBERG, Ye.M.; VAKHTIN, Yu.B.; VINNIKOV, Ya.A.; GAYTSKHOKI, V.S.; GOROSHCHENKO, Yu.L.; GULYAYEV, V.A.; ZHINKIN, L.N.; ZAVARZIN, A.A.; ZALKIND, S.Ya.; ZBARSKIY, I.B.; KATSNEL'SON, Z.S.; KOMISSARCHIK, Ya.Yu.; LEVIN, S.V.; MARAKHOVA, I.I.; MASHANSKIY, V.F.; MOSEVICH, T.N.; NIKOL'SKIY, N.N.; PESHKOV, M.A.; POLENOV, A.A.; POLYANSKIY, Yu.I.; ROZENTAL', D.L.; RUMYANTSEV, P.P.; TITOVA, L.K.; FEDIN, L.A.; KHEYSIN, Ye.M.; CHERNOGRYADSKAYA, N.A.; TROSHIN, A.S., otv. red.; MEYSEL', M.N., red.; MIKHAYLOV, V.P., red.; NEYFAKH, S.A., red.; PARIBOK, V.P., red.; POLYANSKIY, Yu.I., red.; RAYKOV, I.B., red.

[Manual on cytology in two volumes] Rukovodstvo po tsitologii v dvukh tomakh. Moskva, Nauka. Vol.1. 1965. 571 p. (MIRA 18:2)

1. Akademiya nauk SSSR. Institut tsitologii.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRESLER, V.M.; BRUMBERG, Ye.M.; KUDRYAVTSEVA, M.V.; PIL'SHCHIK, Ye.M.; CHERNOGRYADSKAYA, N.A.; SHUDEL', M.S.

Effect of carcinogenic and nonsarcinogenic aminoazo compounds on the ultraviolet and blue fluorescence of tadpole liver cells. Biul.eksp.biol. i med. 59 no.5:89-92 '65. (MIRA 18:11)

1. Laboratoriya novykh metodov mikroskopii (zav. - prof. Ye.M.Kheysin) Instituta tsitologii (direktor - chlen-korrespondent AN SSSR prof. A.S.Troshin) AN SSSR, Leningrad. Submitted January 18, 1964.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Ye.M.; BRUMBERG, I.Ye.

Some possible regulators of the cell growth in the organism. Dokl. AN SSSR 165 no.5:1171-1174 D '65. (MIRA 19:1)

1. Institut biologicheskoy fiziki AN SSSR. Submitted June 25, 1965.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMBERG, Z., Brumberg, V.

Moving-Picture Cartoons

"Night Before Christmas"
Kinomekhanik no.3, 1952

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMEL', VALERIY, zasluzhennyy master sporta SSSR.

Main factors in sports. Zdorov'e 9 no.5:25-26 My'63. (MIRA 16:9)

(JUMPING)

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13

Ljubljana, Zdravstveni Vestnik, Vol 30, No 7-8; 1961

1. "Problem of the Gastroduodenal Ulceration" Mirko [illegible] (Department of Internal Diseases, General Hospital, Maribor /Head/Primarius Dr Mirko NOVAK/); pp 139-143.
2. "Ambulatory Treatment of Severe Hypertension with Insulin" Franjo [illegible] (Affiliation as in #1); pp 144-146.
3. "Insulin and Tolbutamid Tolerance Tests in Pituitary and Adrenal Insufficiency" Milan CERNIČ (same affil.); pp 147-149.
4. "Hepatic Cirrhosis After Gastric Resection" Mirko [illegible] (same affil.); pp 149-151.
5. "Intoxications with Dinitrocresol and Parathion" Jože NOVA (same affil.); pp 150-151.
6. "Our Therapeutic Experiences with Air Insufflation in Osteoarthritis of the Knee Joints" Ivan [illegible] (same affil.); pp 152-153.
7. "Case of Diabetes Mellitus Due to Brain Injury?" Ivo MIREV (same affil.); pp 153-157.
8. "Our Cases of Spontaneous Pneumothorax" Kurt [illegible] (Maribor General Hospital, Dr Dušan Kravljak's Lung Department[2]/Head: Dr Zdenko [illegible]); pp 158-162.
9. "Ten Years Experience with Roentgen Treatment of Inflammatory Diseases in Our Hospital" Mila KOVAČ (Head of Radiology Department[3], General Hospital Maribor); pp 162-164.

1-Internal oddelek Splošne bolnišnice. 2-Pljučni oddelek Dr Dušana Kravljaka. 3-Rentgenski zavod.

BRUMEN FRANJO

— 1/1 —

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BRUMER, L; PAISANU, I.

A fast method of determining maximum strains given by partial mobile loads, uniformly distributed.

P. 510 (REVISTA TRANSPORTURILOR) (Bucuresti, Rumania) Vol. 4, no. 11, Nov. 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5, 1958

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMER, L.; PILDER, A.

In regard to the metallic-railway bridge project, considering the collaboration of constructive elements and the rigidity of nodes. p. 139. (Standardizarea, Vol. 9, No. 3, Mar. 1957, Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol.6, No. 8, Aug 1957. Uncl.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMOVSKY, Ivan, inz.; PETRIKOVIC, Vladimir, inz.

Mud fluid losses and their elimination. Geol pruzkum 6 no.8: 231-233 Ag '64

1. Ceskoslovenske naftove doly National Enterprise, Hodonin; Research Institute of the Ceskoslovenske naftove doly, Brno.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, I., inzh.; BESSARABENKO, A.

Lightweight designs of reinforced-concrete arches. Sel'.stroi. 15 no. 2:26 F '61. (MIRA 14:5)

1. Rukovoditel' sektora unifikatsii konstruktsiy nauchno-issledovatel'skogo instituta sel'skikh zdaniy i sooruzheniy.
(Reinforced concrete construction)(Arches)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, M. S.

BRUMSHTEYN, M. S. -- "Data on the Pathological Anatomy of Electric Trauma." Sub 20 Oct 52, Second Moscow State Medical Inst imeni I. V. Stalin. (Dissertation for the Degree of Doctorate in Medical Sciences).

SO: Vechernaya Moskva January-December 1952

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USSR/Human and Animal Morphology (Normal and Pathological) S-3
Peripheral Nervous System

Abs Jour : Ref Zhur - Biol., No 12, 1958, No 55118

Author : Brumshteyn, M.S.
Inst : Not Given
Title : Changes of Intervertebral Nodules in Myocardial Infarcts.

Orig Pub : Arkhiv patologii, 1956, 18, No 7, 132-133

Abstract : Studies of intervertebral nodules were made of people who have died of myocardial infarcts (I-III thoracic). Microscopic examination revealed changes in the ganglion cells, in nerve fibers and in the stroma, which in the author's opinion are connected with pathologic impulses stemming from the myocardial focus. The thus obtained data prove that I-III nodules participate when the symptom complex of myocardial infrcts appears.

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BRUMSHTEYN, M.S., prof. (Astrakhan')

Review of F. Becker's "Study of pancreatic secretion" [in German]. Arkh.pat. 21 no.2:83-87 '59. (MIRA 12:12)
(PANCREAS--SECRETIONS) (BECKER, F.)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, M.S., prof.; KOLEGANOVA, Yu.K.

Work of the Astrakhan Society of Pathoanatomist in 1954-1956. Arkh. pat. 21 no.2:88-89 '59. (MIRA 12:12)

1. Predsedatel' Astrakhanskogo obshchestva patologoanatomov (for Brumshteyn). 2. Sekretar' Astrakhanskogo obshchestva patologoanatomov (for Koleganova).
(ASTRAKHAN--PATHOANATOMICAL SOCIETIES)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, M.S., prof.

Work of the Astrakhan Society of Pathoanatomists and Experts in Forensic Medicine in 1957. Arkh.pat. 21 no.2:89 '59. (MIRA 12:12)

1. Predsedatel' Astrakhanskogo obshchestva patologoanatomov.
(ASTRAKHAN--PATHOANATOMICAL SOCIETIES)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, M.S., prof.

Activities of the Astrakhan Society of Pathoanatomists and Forensic Medical Experts in 1958. Arkh.pat. 21 no.3:94-95 '59. (MIRA 12:12)

1. Predsedatel' Astrakhanskogo obshchestva patologoanatomov.
(ASTRAKHAN--PATHOANATOMICAL SOCIETIES)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, M. S. Professor (Reviewer)

About the book "Pathological Histology"*, Veterinariya, Vol. 37, No. 11, p. 93, 1960.

*Pallaske, G. "Patologicheskaia Gistologiia". Fundamentals of Histology for Students of veterinary institutes and for veterinary surgeons. Second edition. 1960. (Georg Pallaske -- Pathologische Histologie. G. Fischer. Iena).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, M.S.; VISHNEVETSKIY, F.Ye.; KRINITSKIY, V.V.

Problem of morphological changes in diseases of fish. Arkh.pat. 22 no.9:50-56 '60. (MIRA 13:12)
(FISHES--DISEASES AND PESTS)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, M.S.; VISHNEVETSKIY, F.Ye.; GORBUNOV, K.V.; KOBLITSKAYA, A.F.; KRINITSKIY, V.V.; KUROCHKIN, Yu.V.; MOSKALENKO, A.V.

Causes of mass disease of the common carp in the Volga Delta; preliminary report. Vop.ikht. no.14:175-181 '60. (MIRA 13:8)

1. Astrakhanskiy gosudarstvennyy zapovednik i kafedra patologicheskoy anatomii Astrakhanskogo meditsinskogo instituta.
(Volga Delta--Carp--Diseases and pests)
(Water--Pollution)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, M.S., prof.

"Physiology and experimental pathology of the liver" by A.Fischer. Reviewed by M.S.Brumshtein. Pat. fiziol. i eksp. terap. 5 no.6: 85 N-D '61. (MIRA 15:4)

(LIVER) (FISCHER, A.)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, M.S., prof.

"Pathological histology by Georg Pallaske. Reviewed by M.S. Brumshtein. Veterinariia 37 no.11:93 N '60. (MIRA 16:2)
(Histology, Pathological)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, M.S., prof.; LIPSON, E.D.

Work of the Astrakhan Society of Pathoanatomists for 1959-1962.
Arkh. pat. 25 no.8:94-95 '63 (MIRA 17:4)

1. Predsedatel' Astrakhanskogo obshchestva patologoanatomov (for Brumshteyn). 2. Sekretar' Astrakhanskogo obshchestva patologoanatomov (for Lipson).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, V.D.

Chemical composition of different varieties of cabbage, onion, and green vegetables. Kons.i ov.prom. 15 no.2: 31-35 F '60. (MIRA 13:5)

1. Gribovskaya ovoshchnaya optyno-selektsionnaya stantsiya.
(Vegetables--Varieties)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, V.D.

Chemical composition of little-known vegetable crops. Biokhim.pl.i ovoshch. no.6:137-145 '61. (MIRA 14:6)

1. Gribovskaya ovoshchnaya selektsionnaya stantsiya.
(Vegetables) (Plants—Chemical analysis)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, V.D.

Biochemical method for selecting varieties of cabbage for long storage. Biokhim.pl.i ovoshch. no.7:148-159 '62. MIRA 16:1)

1. Gribovskaya opytno-selektsionnaya stantsiya.
(Cabbage--Varieties)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

YERSHOV, I.I.; BRUMSHTEYN, V.D.

Changes in the chemical composition of perennial Egyptian onion during its growth. Biokhim.pl.i ovoshch. no.7:230-239 '62. (MIRA 16:1)

1. Gribovskaya opytno-selektsionnaya stantsiya.
(Onions) (Plants--Chemical analysis)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, V.D.; METLITSKIY, L.V.

Biochemical method for selecting plants in order to increase their resistance to microorganisms. Dokl. AN SSSR 149 no.5:1197-1199 Ap '63. (MIRA 16:5)

1. Gribovskaya ovoshchnaya selektsionnaya opytanaya stantsiya i Institut biokhimii im. A.N.Bakha AN SSSR. Predstavleno akademikom A.I.Oparinym.
(Plants—Disease and pest resistance) (Peroxidases)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSTEYN V. I.

BRUMSTEYN V. I. Hygiene evaluation of protective clothing for workers in hot shops
Gigyena i Sanitariya, Moscow 1949, 7 (27-34) Graphs 3 Illus. 1

The author describes the results of experiments with different types of protective clothing made at the Institute of Hygiene of labour and professional diseases (Academy of Medical Science, U.S.S.R.). There exist at present two fundamental types of protective clothing for hot shops. The first is based on the protection of a layer of interposed air, the second on reflection of caloric radiation by a metallic surface. A third, intermediate, type is consittuted by metallic nets presenting a combination of characteristics of both the above-mentioned types. The first type of clothing has a lining of light woolen material called "Karusa' between the exterior fabric of the clothing and its lining Experiments effected by the author showed that interposed sheets of wool or cotton have the same protective power. The essential feature is the interposition of air; it is possible in such cases, when there is no danger of fire, to replace the wool by a cotton fabric with wide meshes. This type of fabric was adopted in 1940. Protective clothing of the second type has a continuous metallic surface. The part of the clothing exposed to radiation is covered by small plates of a metal of high coefficient of reflection (for example tin, whose coefficient of reflection is 94 %. In order to leave aeration unhampered, the upper edge only of the metallic plates is fastened. The intermediate type of clothing contains a bronze net. Two subjects, aged 20 to 23, were exposed to thermal radiation and protected successively by: (a) Canvas, then moleskin clothing, the first including an interposed sheet of wool and a cotton net, the second a net only. The lining was made of a light cotton fabric. (b) A metal coating consisting of an apron with 5 cm. tin plates (weight 2 kg.) or aluminium plates (1 kg.) The experiment included periods of adaptation (35 minutes), irradiation (35 minutes), and return to normal

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(40 minutes) at a temperature of 18 to 20° C. and at a humidity degree of 40 to 60 %

The temperature of the skin and of the interposed air was measured on the chest by thermocouples, also that of the interior and exterior surfaces of the clothing: the hygroscopic state beneath the clothing and the loss of weight of the subject were also noted. Moreover, the thermal impressions of the subject were noted on a scale of seven di different degrees (1-very cold, 2-cold, 3-cold, 3-cool, 4-temperate, 5-warm, 6-hot, 7-very hot). With clothing including interposed sheet and net: (1) The temperature of the skin, of the adjacent air and of the interior surface of the clothing was notably inferior to that in non-protected subjects. On the other hand, the temperature on the exterior surface was superior. This is a proof that the interposed sheet stops the thermal influx and that the warmth accumulates on the other side. (2) Whatever the fabric used, th the result was the same. (3) As regards the sensations of the subject, the canvas clothing gave better results than the moleskin clothing. (4) When the irradiation became more intensive, the protective power of interposed air diminished. The clothing with interposed air could not therefore be considered as fully satisfactory. (5) The clothing slowed down the return to thermal and hydroscopic normal figures, which is an advantage in winter but renders work in hot shops still harder. Clothing with a reflecting metal surface gave very satisfactory results, both subjectively (temperate of comfortably warm) and objectively. However, the relatively high increase of cutaneous humidity (notable in the case of any protective clothing) showed the value of applying douches beneath the clothing, as proposed by Marhasseff and Stromberg. The chief defect of metal clothing, namely its weight and bulk, led the author to try metallized fabrics (aprons weighing no more than 300 g.). The result was satisfactory. It is to be noted, however, that their action varied according to their distance from the body (role of the interposed air, which, however, in this case is only accessory).

So: Medical Microbiology and Hygiene, Section IV, Vol 3, No 1-6

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BRUMSHTEYN, V I

BRUMSTEYN, V. I.

Use of aluminum foil for protective clothing in metallurgic industry. Gig. sanit., Moskva no.8:28-31 Aug. 1950. (CIML 20:1)

1. Of the Institute of Labor Hygiene and Occupational Diseases of the Academy of Medical Sciences USSR.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUMSHTEYN, V. I.

20973. BRUMSHTEĬN, V. I. Poteri vlagi chelovekom v pokoe pri razlichnoĭ temperature vozdukha. (Gigiena i sanitariia, Dec. 1950, no. 12, p. 12–18, 2 fig., 5 tables) ***Title tr.:*** Loss of moisture at different temperatures in persons at rest.

Contains a study on two men and two women exposed to temperatures of 5.3° to 30.6° C., and a varying relative humidity. The loss of moisture was lower in the women than in the men under similar conditions; a gradual decrease of evaporation up to a temperature of 15°–18° C. was noticed, followed by an increase at a further rise of the air temperature (up to 32° C.); the more layers of clothing worn, the higher was the loss of moisture. ***Copy seen:*** DLC.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUN, A.A.

COUNTRY : USSR V
CATEGORY : Pharmacology and Toxicology. Cardiovascular Agents
ABS. JOUR. : RZhBiol., No. 5 1959, No. 23201

AUTHOR : Brun, A. A.
INST. : Kharkov Medical Institute
TITLE : Treatment of Hypertensive Patients with Omelan

ORIG. PUB. : Tr. Khar'kovsk. med. in-ta, 1958, vyp.37, 180-184

ABSTRACT : On the basis of observation of 47 patients, omelan (O; preparation from Viscum album) is recommended for the treatment of hypertension. Under the influence of O, the arterial pressure decreases and the improvement of the coronary circulation, decrease in the frequency of pulse, increase of deflections in the EKG, acceleration of blood flow, and decrease of venous pressure take place. The content of cholesterol in the blood decreases. O is well tolerated by the patients.

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ACC NR: AP5021516 SOURCE CODE: UR/0113/65/000/008/0008/0010

32

B

AUTHOR: Chernomashentsev, A. I.; Brun, A. M.

ORG: Gor'kiy Automobile Factory (Gork'kovskiy avtozavod)

TITLE: Tests of new start-up GAZ engine heaters at low temperatures

SOURCE: Avtomobil'naya promyshlennost', no. 8, 1965, 8-10

TOPIC TAGS: motor vehicle, vehicle engine, vehicle engine auxiliary system, vehicle engineering, low temperature effect, temperature test

ABSTRACT: This article reports on a design and testing (winters 1962-1964) of engine heaters intended for the initial warming up of GAZ-53A and TAZ-66 automobile engines. The device, consisting of a gasoline burner, heats the cooling water directly, and the crankcase oil by means of hot gases from the gasoline combustion. The unit has a 10,000 — 11,000 kcal/h productivity using 1.8 — 2 kg of fuel per hour. The heater was developed by NAMI jointly with the Gor'kiy Automobile Plant (Gor'kovskiy avtozavod) and it will be produced at the Utensk Factory of Laboratory Electrical Furnaces (Utenskiy zavod laboratornykh elektropechey) in the Lithuanian SSR. Results show the change in temperature of various parts of different engines as a function of temperature. The Gor'kiy plant will begin to equip the engines with these heaters sometime in 1965. Orig. art. has: 2 figures.

SUB CODE: IE, TD / SUBM DATE: none / ORIG REF: 001

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VLOKH, N.P.; MOSHINSKIY, L.G.; BRUN, B.S.; ZOLOTAREV, M.A.; PEPELYAYEV, B.I.; TAMGIN, V.S.

Eliminating cavities at the Pokrovskiy mine. Gor. zhur. no. 12:73-74 D '65. (MIRA 18:12)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

ULMER, K.; BRUN, E.; TRIETSCH, F.K.; NEGRETTI, W.; HESS, W.

Adhesion of metals. Technika 7 no.6:2 Je '63.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUN, K.

Brun, K.; Kacjan, M.; Kriznar, M. "Arandjelovac clays as a material for the production of electro-porcelain." p. 451. (Priroda. Vol. 18, no. 6/7, 1953. Zagreb)

SO: Monthly List of East European Accessions, Vol. 3, no. 3, Library of Congress, March 1954.
Uncl.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

2

Insect repellents (benzamides). M. I. Brun and S. V. Zhuravlev. *Trudy Tsentral. Nauch.-Issledovatel. Desinfektsion. Inst.* 1954, No. 8, 123-5; *Referat. Zhur., Khim.* 1955, No. 9608.—Eight substituted amides of benzoic acid of the general formula $C_6H_5CONR_2$, where R is an alkyl or aryl group, were synthesized. Of these, diethylbenzamide, dipropylbenzamide, dibutylbenzamide, diisoamylbenzamide, and dibenzylamine acted as insecticides and repellents for [illegible] and ants. M. Hosch

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

USSR/Zooparasitology. Ticks and Insects - Vectors of The Causal Organisms. General Works. G

Abs Jour: Ref. Zhur. - Biol., No 23, 1958, 104069

Author : Brun, M. I.

Inst : Central Scientific Research Institute of Disinfection

Title : Synthesis of Substances which Repel Mosquitoes, Ticks and Fleas.

Orig Pub: Tr. Tsentr. n.-i. dezinfekts. in-ta, 1957, No 10, 240-246

Abstract: A number of phthalic acid esters were synthesized for purposes of finding effective repellents against mosquitoes, ticks and fleas as well as for purposes of studying the relationship of the repellent effect to the structure and physicochemical properties of the organic

Card 1/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUN, M. L., ZAKLOLDKINA, V. I., FEDDER, M. L.

"New preparations for repelling mosquitoes, fleas, and ticks."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307110016-2

BRUN, M.P.; KOSTYRKO, O.S.

Reply to IU.E. Bondarev's remarks. Zav.lab. 28 no.6:762 '62. (MIRA 15:5)

1. Institut liteynogo proizvodstva AN USSR.
(Steel--Brittleness)

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