

S/609/61/000/003/007/008
D039/D112

AUTHORS: Gurtovenko, E. A.; Semenova, N. N.

TITLE: An investigation of the evolution of brightness of certain chromospheric flares

SOURCE: Akademiya nauk Ukrayins'koyi RSR. Organizatsionnyy komitet po provedeniyu Mezhdunarodnogo geofizicheskogo goda. Mezhdunarodnyy geofizicheskiy god; informatsionnyybyulleten', no. 3, 1961, 47-54

TEXT: The paper presents photometric curves of the brightness of 17 flares observed by means of an ~~AFR~~-2 (AFR-2) chromospheric telescope of the Glavnaya astronomicheskaya observatoriya AN USSR (Main Astronomical Observatory of the AS UkrSSR) during the International Geophysical Year. The photographs of all 17 flares are given. All flares showed different intensity and were observed from the beginning to the end. The images were good, and the contrast of the obtained photographs high. The chromosphere was cinematographed onto panchromatic film used in serial photography and the film was developed by the Chibisov developer for 6 minutes at a temperature of 18°C. The material was processed on an ~~MF~~-2 (MF-2) microphotometer in which the

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rectangular gap had been replaced by a number of round diaphragms of different diameters [Abstracter's note: In the short summary at the head of the article the microphotometer is given as $M\phi-4$ (MF-4); in the article itself, however, as MF-2]. For large flares disintegrating into separate centers, measurements were made for each single center, during which it was found that in certain cases the fluctuations of brightness of the centers from point to point were synchronous. This was ascribed to atmospheric streaking of the images; as in a number of instances the fluctuation of brightness of the flare centers and the fluctuations of brightness of the faculae were also synchronous. Apart from the curves depicting the change in the brightness of flares, the authors also investigated the curves of the change in the area of the flare. These areas were found by drawing a projection of the flare onto 1 mm-square paper and were expressed in millionths of a hemisphere. The authors arrived at the following conclusions: (1) The synchronous fluctuations of the brightness of separate centers of the multicenter flares are in some cases evidently genuine indices of processes taking place in the flare; (2) The evolution of the areas lags behind that of the brightness. There are 7 figures. ✓

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ASSOCIATION: Glavnaya astronomicheskaya observatoriya AN USSR (Main
Astronomical Observatory of the AS UkrSSR)

✓

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GURTOVENKO, S.A.; DIDYCHENKO, Ye.I.

Diffraction spectroheliograph of the Main Astronomical Observatory of
the Academy of Sciences of the Ukrainian S.S.R. Izv. Glav. astron.
obser. AN URSR 3. no. 2:138-150 '61. (MIRA 14;5)
(Spectroheliograph) (Spectrograph)

S/617/61/004/001/001/001
D218/D301

AUTHORS: E.A. Gurtovenko, and N.N. Semenova

TITLE: Spectrophotometric study of prominences and filaments
in hydrogen lines

SOURCE: Akademiya nauk Ukrayins'koyi RSR. Holovna astronomich-
na observatoriya. Izvestiya. v. 4, no. 1, 1961, 31 - 54

TEXT: The horizontal solar telescope of the GAO AN USSR
(Main Astronomical Observatory of the AS UkrSSR) came into regular use
in 1959. In selecting research projects for the telescope the authors
had to bear in mind the limitations of the instrument, namely the rela-
tively small diameter of the image of the solar disc on the slit (75 mm)
and the fact that there is only one camera available with the telescope.
The observations were, therefore, limited to the study of filaments and
prominences, and the present paper is a preliminary account of the re-
sults obtained. The objects of interest were selected with the aid of
the $A\Phi P$ -2 (AFR-2) telescope. The H_{α} and H_{β} were recorded in the se-

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cond order (dispersion ~ 1.2 A/mm) on "Agfa rot rapid" or "Agfa ISS" plates. The H⁺ line was exposed with a red filter which cut off the violet radiation in the third order. The other members of the Balmer series and also the H, K Ca lines were photographed on "Agfa blau rapid" plates. The calibration of the various light filters employed was carried out with the aid of the Φ Ξ Υ -17 (FEU-17) photomultiplier. Neutral filters HC-8 and HC-9 (NS-8 and NS-9) were used. Twelve filaments and prominences which appeared between July 13, 1959 and October 28, 1959 were examined. The interpretation of the results was based on the following considerations. It was assumed that the source function P of a prominence is independent of the wavelength λ , and the intensity of emission of a prominence in a given line can be represented by

$$I_{\lambda\tau} = P (1 - e^{-\tau}). \quad (2)$$

In the case of a filament observed in emission, an extra term must be added to represent the emission of the photosphere transmitted through the filament. The result is

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$$I_{\lambda B} = P (1 - e^{-\tau}) + I_{\lambda \phi} e^{-\tau}. \quad (3)$$

Next, it was assumed that the hydrogen lines of prominences have purely Doppler profiles and this can be shown to define P unambiguously. General arguments indicate that P is the sum of two terms i.e.

$$I_B = \left(P_1 + P_2 \frac{I_{\lambda \phi}}{I_{\lambda_0 \phi}} \right) (1 - e^{-\tau}) + I_{\lambda \phi} e^{-\tau}$$

$$I_{\Pi} = \left(P_1 + P_2 \frac{I_{\lambda \phi}}{I_{\lambda_0 \phi}} \right) (1 - e^{-\tau}). \quad (9)$$

where the first term represents photospheric emission and the second the intrinsic emission which is due to the excitation by electron impact and by recombination. The fraction $I_{\lambda} / I_{\lambda_0}$ in Eq. (8) represents the relative distribution of intensity in a Fraunhofer line. Eqs. (2) (3) and (8)

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were then used in conjunction with standard optical-thickness calculations to determine the optical thickness τ_0 , the Doppler half-width $\Delta\lambda_D$, the quantities P_1 and P_2 , the population indices N_2 and N_k , the electron temperature T_e and the velocity v_t . The interpretation is largely based on the work of V.M. Sobolev (Ref. 4; Izvestiya GAO AN SSSR no. 158, 12, 1958). It was found that the electron temperatures lie within the range $4000 \pm 12000^\circ\text{C}$. The average temperature for prominences is 5800°C , while for the filaments it is 9000°C . It is stated that this is difficult to explain. Detailed numerical tables of results are reproduced, but it is stated that the results are only preliminary. They indicate that self-absorption must occasionally be taken into account in the case of the H_γ and H_δ lines. The self absorption in H_β is considerable and must be allowed for. Acknowledgements are expressed to Professor V.A. Krat for advice and to M.I. Solyanikova and T.V. Orlova for assistance in analyzing the experimental material. There are 5 figures, 5 tables and 11 Soviet-bloc references.

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S/035/62/000/010/033/128
A001/A101

AUTHORS: Gurtovenko, E. A., Didychenko, Ye. I., Semenova, N. N.

TITLE: On some results of observations of chromospheric flares

PERIODICAL: Referativnyy zhurnal, *Astronomiya i Geodeziya*, no. 10, 1962, 51, abstract 10A358 ("Izv. Gl. astron. observ. AN USSR", 1960, v. 3, no. 1, 67 - 73)

TEXT: A relation between area, brightness in maximum and duration of flares was investigated on the basis of observations with an AΦP-2 (AFR-2) telescope from July 1, 1957, to September 15, 1958. Altogether, 200 flares were analyzed. It has been discovered that the relation "area versus brightness in maximum" is approximately linear with some dispersion of points. Several peculiar flares constitute an exception; it is flares in which luminous matter is concentrated in narrow long filaments, and flares having several centers. The relation "area versus duration" reveals a monotonic variation: flare duration grows with increasing area. It has been found that relative duration of the pre-maximum period decreases with increasing class of a flare, VC

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whereas for subflares the pre-maximum and post-maximum periods are almost equal. It is concluded that statistical studies of flares should be conducted with a more extensive and homogeneous materials, and that first of all a detailed classification of flares is necessary, since, e.g., the "area versus brightness" relation may be completely different for flares of different types. ✓

R. Gulyayev

[Abstracter's note: Complete translation]

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41278

S/035/62/000/010/026/128
A001/A101

31750

AUTHORS: Gurtovenko, E. A., Didychenko, Ye. I.

TITLE: The solar diffraction spectrograph of GAO, AS UkrSSR

PERIODICAL: Referativnyy zhurnal, *Astronomiya i Geodeziya*, no. 10, 1962,
46, abstract 10A336 ("Izy. Gl. astron. observ. AN USSR", 1961,
v. 3, no. 2, 138 - 150)

TEXT: The authors describe in detail the horizontal solar telescope (spherical mirror $D=20$ cm, $F=8$ m) and the diffraction spectrograph of the Main Astronomical Observatory, AS UkrSSR, manufactured in Kiyev. Linear dispersion of the spectrograph in the 1, 2 and 3rd orders of the spectrum yellow regions is equal to 2.55; 1.21 and 0.74 A/mm respectively. The methods and results of checking the slit for wedge shape and checking the quality of the grating are described, as well as of investigating the instrumental profile and astigmatism of the spectrograph and scattered light in it. Examples of spectrograms taken with the described instrument are presented.

[Abstracter's note: Complete translation]

I. Zhulin

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41285

S/035/62/000/010/035/128
AC01/A101

AUTHORS: Gurtovenko, E. A., Semenova, N. N.

TITLE: Spectrophotometric study of prominences and filaments in hydrogen lines

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 51, abstract 10A361 ("Izv. Gl. astron. observ. AN USSR", 1961, v. 4, no. 1, 31 - 54, English summary)

TEXT: Spectra of several filaments and prominences, corresponding to them at extending to the limb, were taken by means of the horizontal solar telescope of the GAO, AS UkrSSR. It was assumed, while interpreting measurement results, that profiles of investigated hydrogen lines were of the Doppler nature. The function of sources P is considered as independent of the depth and the wavelength. Moreover, it is assumed that the glow of prominences (filaments) is composed of two components, one of which is due to scattering of photospheric radiation and the other to the proper emission of a prominence (filament) caused by recombinations and electronic impact excitation. On these

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assumptions, the intensity of prominence radiation I_p and intensity of filament radiation can be expressed by the formulae:

$$I_p = (P_1 + P_2 \frac{I_{\lambda_{ph}}}{I_{\lambda_{oph}}}) [1 - \exp(-\tau)],$$

$$I_f = (P_1 + P_2 \frac{I_{\lambda_{ph}}}{I_{\lambda_{oph}}}) [1 - \exp(-\tau)] + I_{\lambda_{ph}} \exp(-\tau),$$

where P_1 and P_2 are functions of sources for the processes of radiation proper and scattering respectively, $I_{\lambda_{ph}}/I_{\lambda_{oph}}$ is distribution of intensity in the same line of photospheric spectrum. Using the method of successive approximations, such parameters $\tau_0, \Delta\lambda_D, P_1, P_2, N_2$ (population of the second level of hydrogen atoms) and N_k (population of excited levels) were selected, for which measured

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line profiles coincide with those calculated by the above cited formulae. The main advantage of such a processing method of photometric data is complete on account of self-absorption for all the lines without exception. In particular it is proven that self-absorption plays a great role in origination of the H β lines. The magnitude of N_2 increases, in some cases, with the number of the line. This can be explained by drawbacks of the model adopted, namely by that P varies actually with depth. The proper emission of a prominence P_1 is usually less than the fraction P_2 due to glow excitation by photospheric radiation. Doppler half-widths $\Delta\lambda_D$ of filament and prominence lines differ systematically from each other in such a way, that electronic temperature in filaments is higher, on an average, by 3000°C than in prominences. In one of the filaments were observed phenomena of eruptive nature, accompanied by simultaneous changes of the P_1 quantity. There are 11 references.

R. Teplitskaya

[Abstracter's note: Complete translation]

Card 3/3

S/214/62/000/003/002/004
I046/I246

AUTHORS:

Gurtovenko, E.A. and Rakhubovsky, A.S.

TITLE:

Filament contrast variation between the center and the limb on the solar disc

SOURCE:

Solnechnyye dannyye, no.3, 1962, 56-61

TEXT:

Allowing for the limb darkening of the undisturbed chromosphere, the author obtains the following expression for the luminance of any solar formation as a function of the angular distance θ from the center:

$$I_f = 0.55 \cdot 10^6 (E_f/E_u) \gamma(\theta) \text{ erg.cm}^{-2} \cdot \text{sec}^{-1} \cdot \text{sterad}^{-1}$$

where E_f, E_u are luminance of the formation and the undisturbed

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Filament contrast variation....

chromosphere in arbitrary units, $y(\theta)$ is the ordinate of the experimental chromospheric limb darkening curve. The expression

$$\frac{dI_f}{d(\sin \theta)} = e^{-I_{eff}/\sin \theta} \left[\frac{dI_u}{d(\sin \theta)} + \frac{I_{eff}}{\sin \theta} \frac{I_0 - I}{1 - e^{-I_{eff}/\sin \theta}} \right] \quad (7) \quad \checkmark$$

obtained for an idealized homogeneous curtain-like formation, makes possible the calculation of the average optical thickness of the formation on the limb, $\tau_{0,eff}$, from purely experimental characteristics ($dI_f/d(\sin \theta)$, $dI_u/d(\sin \theta)$ are tangents to the $I_f = I_f(\sin \theta)$ and $I_u = I_u(\sin \theta)$ curves). In the concrete case of filaments, the luminance variation follows essentially the chromospheric limb darkening up to $\sin \theta = 0.85$, whereas near the limb

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the drop in filament luminance is somewhat more rapid. Since application of the idealized equation (7) gives $\tau_0 \text{ eff} = 0.8$ at variance with actual optical thickness of protuberance in the H_α line, the observed luminance drop near the limb is only partially, if at all, explained by the simplified curtain model; comprehensive interpretation of the $I_f(\sin \theta)$ curve should allow for the inhomogeneous structure of solar formations. There are 3 figures.

ASSOCIATION: Glavnaya astronomicheskaya observatoriya Akademii nauk USSR (Main Astronomical Observatory AS UkrSSR)

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GURTOVENKO, E.A.; RAKHUBOVSKIY, A.S.

Emission edge of hydrogen filaments. Izv. Glav. astron. obser.
AN USSR 5 no.1:68-92 '63. (MIRA 16:6)
(Sun--Observation)

ASTAPOVICH, I. S. [Astapovich, I. S.], doktor fiz.-matem. nauk;
VSEKHSVYATSKIY, S. K. [Vsekhsviats'kiy, S. K.], doktor fiz.-
matem, nauk, prof.; GORDELADZE, Sh. G., kand. fiz.-matem.
nauk; GURTOVENKO, Ye. A. [Hurtovenko, E. A.], kand. fiz.-matem.
nauk; DROFA, V. K., kand. fiz.-matem. nauk; TORZHEVSKAYA,
G. P. [Torzhevs'ka, H. P.], zhurnalist

Telescope of "Nauka i zhyttia." Nauka i zhyttia 12 no.2:32
F '63. (MIRA 16:4)

(Astronomy—Observations)

GURTOVENKO, Ye.A. [Hurtovenko, E.A.], kand. fiz.-matem. nauk

Telescope of the periodical "Nauka i zhyttia." Nauka i zhyttia
13 no.10:54-55, 61 N '63. (MIRA 16:12)

GURTOVENKO, Ernest Andreyevich[Hurtovenko, E.A.]; SAKHAROVA, M.J.,
red.

[The quiet sun] Spokline sontse. Kyiv, Naukova dumka,
1965. 43 p. (MIRA 18:9)

ACC NR: AR6035544

SOURCE CODE: UR/0269/66/000/010/0050/0051

AUTHOR: Gurtovenko, E. A.; Skorik, K. Ye.

TITLE: H α -electrophotometer for studying the spectrum of limb flares and prominences

SOURCE: Ref. zh. Astronomiya, Abs. 10.51.373

REF SOURCE: Solnechnyye dannyye, no. 12, 1965 (1966), 56-62

TOPIC TAGS: solar spectrum, solar limb, limb flare, limb prominence, limb flare measurement, limb prominence measurement

ABSTRACT: The instrument is designed to measure ray velocities and the profile of the H α line in the spectrum of any formation on the solar limb during its evolution. The output of the spectrograph is rigidly fitted with a photomultiplier using a searching guide. The guide is fixed in such a way that the H γ line of the III order is in the field of the ocular micrometer, when the H α line of the II order reaches the photomultiplier. Following a rearrangement of the guide, the instrument may be used to register other lines. The output slot is 5" x 0.07 A, the dark current of the photomultiplier is 10⁻⁹ at a voltage of 1880 v. Use is made of

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UDC: 522.56

ACC NR: AR6035544

a three-stage d-c amplifier with an adjustable time constant. The zero drift is 0.1—0.2 μ v/hr at an output load of 100 ohm. Recording is done on an EEP-09 device. The scanning rate is 1/14 A/sec, but can be increased twofold. When determining ray velocity, the tying in to the wavelength system is carried out by means of two lines which are "written" in the spectrum at a fixed distance. One of the lines is directed on the $H\gamma$ line in the field of the guide. The article includes a bibliography of 12 titles. A. Sazanov. [Translation of abstract] [DW]

SUB CODE: 03, 09/

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ACC NR: AR6035296

SOURCE CODE: UR/0 69/66/000/009/0052/0052

AUTHOR: Gurtovenko, E. A. ; Rakhubovskiy, A. S.

TITLE: Change in solar prominence characteristics during the sunspot cycle,
Part 1. Balmer lines of hydrogen

SOURCE: Ref. zh. Astronomiya, Abs. 9.51.442

REF SOURCE: Solnechnyye dannyye, no. 9, 1965, 49-56

TOPIC TAGS: solar prominence, solar activity, sunspot cycle, astronomic
observatory, hydrogen line

ABSTRACT: An attempt has been made to investigate the behavior of the Balmer decrement in the solar-prominence spectrum during the sunspot cycle. Spectrograms are developed for a number of solar prominences observed in 1957—1964 at the Main Astronomical Observatory, Academy of Sciences, Ukrainian SSR, as well as at the Kiev University observatory. Use was also made of results of observations of other authors (1952—1959). It was found that the available data are not sufficient for reliable conclusions. The preliminary results indicated that

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UDC: 523:77

ACC NR: AR6035296

during maximum solar activity, the intensity of the $H\alpha-H\delta$ line is considerably higher than during the minimum, and that the change in the decrement is insignificant for the $H\beta-H\delta$ line. Bibliography contains 23 titles. [Translation of abstract] [NT]

SUB CODE: 03/

Card 2/2

DMITRENKO, P.A.; GURTOVENKO, O.G.

Effect of electrolytes on absorption of phosphoric acid by soil. *Dopovidi Akad. Nauk Ukr. R.S.R.* '50, No.5, 387-91 (Russian summary, 391-2).
(CA 47 no.21:11623 '53) (MLRA 6:4)

KHARKHAROV, A.A.; GURTOVENKO, S.I.; KALONTAROV, I.Ya.

Investigating the hydrolysis of dyes containing chlorine derivatives of heterocycles as a reactive system. Izv. vys. ucheb. zav.; tekhn. tekst. prom. no.4:99-102 '63.

(MIRA 16:11)

L. Leningradskiy tekstil'nyy institut imeni S.M. Kirova.

KHARKHAROV, A.A.; GURTOVENKO, S.I.

Studying the kinetics of the hydrolysis of chloropyrimidine
dyes in alkali and acid media. Izv. vys. ucheb. zav.; tekhn.
teks. prom. no.3:95-101 '64. (MIRA 17:10)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti
imeni Kirova.

1. DMITRIENKO, P. A.; GURTOVENKO, C. G.
2. USSR (600)
4. Soil Moisture - Analysis
7. Removing coloring matter from aqueous extracts of solonetz soils. Trudy UNDISOZ 6, 1951.

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

POLEKHAROV, A. A. (SHEP WINKA), . . .

Use of catalysts in the cycling of nylon fibers with antiseptic agent.
Dokl. Akad. Nauk SSSR, Ser. Khim. Nauk, 1968, No. 10, p. 198-199. (NIRA 18:8)

Leningradskiy Institut Khimicheskoy i Lagbovyye Problemy
Khim. i Novy.

GURTOVIY, M. ¹²

21
 Compensation of the electric field of the charge by
 the ions of a solid dielectric. *Sov. Phys. Dokl.* 1951, No. 11, p. 1111.
 Zh. tekh. fiz. 1951, No. 11, p. 1111. *Dokl. Akad. Nauk SSSR*, 1951, No. 11, p. 1111.
 The compensation possibilities are compared by using ions of
 Ca, Sr, or Ba, and under exptl. conditions, Ca ions did not
 compensate ions better than the ions of K or Na. This
 will always be the case if electrons and ions arise at the same
 surface. A theory is presented about the compensation
 mechanism under such conditions. *Werner Jacobson*

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SOV/141-1-5-6-11/28

AUTHOR: Gurtovnik, A.S.

TITLE: The Theory of the Molecular Oscillator

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, 1958, Vol 1, Nr 5-6, pp 83 - 87 (USSR)

ABSTRACT: The systems of Eqs (1) proposed by V.M. Fayn (Ref 1) are examined by the small parameter method. It is shown that when the number of active molecules N_0 is less than a particular value the oscillator is in stable equilibrium. When this latter value is exceeded the condition becomes unstable. At the critical value nearly sinusoidal oscillations are excited with a frequency close to the natural frequency of the resonator. The amplitude of these oscillations increases with N_0 . When N_0 is much larger the oscillations become unstable. More complicated doubly-periodic oscillations can arise but this topic is not pursued. The set of equations (1) can be much simplified if expressed in terms of the small parameter $1/Q$ as (7) and an approximate periodical solution is found

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The Theory of the Molecular Oscillator

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at the bottom of p 85. Satisfaction of the Routh-Hurwitz criterion leads to the expressions (1.1) for field strength, polarisation and number of active molecules. There are 3 Soviet references.

ASSOCIATION: Issledovatel'skiy fiziko-tehnicheskiy institut pri Gor'kovskom universitete (Physical Technical Research Institute of Gor'kiy University)

SUBMITTED: May 26, 1958

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s/123/60/000/04/02/003

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1960, No 4, p 23,
15706

AUTHOR: Gurtovnik, I.G.

TITLE: Combining Plastics When Manufacturing Machine Parts¹⁴

PERIODICAL: Za tekhn. progress (Sovnarkhoz Gor'kovsk. ekon. adm. r-na), 1958,
Nos 8 - 9, p 41

TEXT: For the manufacture of machine parts it is sometimes necessary to use press powder with a high fluidity, while separate components of these machine parts should possess a high stability. It is not always possible to meet both requirements if only one material is used. A description is given of the method suggested by the author of manufacturing machine parts of plastics with the combined application of two materials, one with a higher fluidity (K-21-22), the other of higher stability (П TK) (PTK).
3 figures.

S.N.K.

VB

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25(7)

SCV/117-59-4-26/36

AUTHOR: Gurtovnik, I.G., Engineer

TITLE: Plastic Slide Valves in Compressed Air Distributors

PERIODICAL: Mashinostroitel', 1959, Nr 4, p 38 (USSR)

ABSTRACT: The described plastic slide valves (shown in photograph), made of compressed "K-18-2" and "K-21-22" powder by conventional pressing in a 50-ton press, were tested in work conditions and proved fully suitable to replace the bronze slide valves used up to now. They can be pressed in 6-7 minutes in 160±5°C, and require only slight rubbing with "GOI" paste after pressing. There is 1 photograph.

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GURTOVOY, B.L., dotsent

Are there seasonal fluctuations in the weight of newborn infants.
Trudy Tadzh. med. inst. 50:29-34 '81.

Weight of newborn infants in geographical areas with a dry sub-
tropical climate. Ibid.:39-42

1. Zavednyushchiy 2-y kafedroy akuшерства i ginekologii Tadzhikskogo
gosudarstvennogo meditsinskogo instituta imeni Abuali Ibr-Sino.

СИНДРОМ, N. 1.

32414. Sinzstrol v terapii s biovolutsio uteri. Stenokh meshch. Trilov (Mirgii. gon. med. inst), T. IV, 1949, s. 148-52

10: Leto is' Zhurnal' nykh Staley, Vol. 24, Moskva, 1949

1. GURTOVOY, B. I.
2. USSR (600)
4. Fistula, Vesicovaginal
7. Prolapse of the urinary bladder through vesicovaginal fistula. Akush. i gin. no. 6 1952.

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

GURTOVOY, B.L., kandidat meditsinskikh nauk

Surgical obstetrics in the "Canon" of Ibn-Sina (Avicenna). Akush.
i gin. no.4:81-04 J1-Ag '55. (MLRA 8:11)

1. Iz kafedry akusherstva i ginekologii (zav.prof. L. Ye. Gurtovoy)
Stalinabadskogo meditsinskogo instituta imeni Avitsenny.

(OBSTETRICS, Abu Ali
contribution of Ibn-Sina)

(BIOGRAPHIES
Ibn-Sina, Abu Ali)

GURTOVOY, B.L., kandidat meditsinskikh nauk (Stalinabad)

Certain characteristics of vaginal cytology and its relation to fetal sex. Probl.endok. i gorm. 2 no.6:99-102 M-D '56. (MLRA 10:2)

1. Iz kafedry skusherstva i ginekologii Stalinabedskogo meditsinskogo instituta (dir. - chlen-korrespondent Akademii nauk Tadzhikskoy SSR Ya.A.Bakhimov)

(VAGINAL SMEAR, in pregnancy,
relation to fetal sex (Rus))

(SEX CHARACTERISTICS
relation of maternal vaginal cytol. to fetal sex (Rus))

(FETUS,
sex, relation to maternal vaginal cytol. (Rus))

GURTOVOY, B.L. dotsent

Removing a leech which remained for 8 days in the vagina of a
5-year old girl. Akush. i gin. 33 no.2:114-115 Mr-Ap '57.
(MLRA 10:6)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. L.Ye.
Gurtovoy) Stalinabadskogo meditsinskogo instituta imeni Avitsenny.
(VAGINA--FOREIGN BODIES) (LEECHES)

GURTOVOY, B.L., dots.; AKHMEROV, V.Z., ordinator

~~Bohlen's test in gynecological diseases.~~ Akush.i gin. 33 no.4:
74-79 J1-Ag '57. (MIRA 10:11)

1. Iz kafedry akusherstva i ginekologii (zav. - zasluzhennyy
deyatel' nauki Tadzhikskoy SSR prof. L.Ye.Gurtovoy) Stalinabadskogo
meditsinskogo instituta.

(GYNECOLOGICAL DISEASES, diag.

Bohen's test in cancer & in non-neoplastic dis.)

GURTOVOY, B. [Hirtovoy, B.], kand.med.nauk

Problem of sterility in the "Medical canon" of Ibn Sina (Avicenna).
Ped., akush. i gin. 20 no.1:63-64 '58. (MIRA 13:1)

1. Kafedra akusherstva i ginekologii Stalinabadskogo meditsinskogo
instituta im. Avitsenni (direktor - chlen-korrespondent AN Tadzhikskoy
SSR Ya. A. Rakhimov).
(STERILITY) (AVICENNA, 980? - 1037?)

GURTOVOY, B.L., dotsent

Some problems in the care of gynecologic patients. Zdrav. Tadzh.
8 no.4:13-15 JI-Ag '61. (MIRA 14:10)
(GYNECOLOGY)

GURTOVOY, B.L.

Trace elements in parturients' milk under the climatic and geographical conditions of the dry subtropics. Zdrav.Tadzh. 9 no.5:58-60 '62. (MIRA 15:12)

1. Iz 11-y kafedry akusherstva i ginekologii (zav. - dotsent B.L.Gurtovoy) Tadzhikslogo meditsinskogo instituta imeni Abuali ibni Sino.
(TRACE ELEMENTS IN THE BODY) (DUSHANBE--MILK, HUMAN)

GURTOVOY, B.L.

Content of some trace elements in the milk of puerperants
under the climatogeographical conditions of arid subtropical
areas of the Tajik S.S.R. Vop. pit. 22 no.5:70-73 S-0 '63.

(MIRA 17:1)

1. Iz 2-y kafedry akusherstva i ginekologii (zav. - dotsent
B.L. Gurtovoy) Tadjhikskogo meditsinskogo instituta, Dushanbe.

GURTOVY, B.L.; IMSHENETSKAYA, K.I.

Calcium and phosphorus in the milk of parturients under the climatic and geographical conditions of dry subtropics. Zdrav. Turk. 8 no.1:16-19 Ja '64. (MIRA 17:5)

1. Iz kafedry akusherstva i ginekologii (zaveduyushchiy - dotsent B.L. Gurtovoy) Tadjhikskogo gosudarstvennogo meditsinskogo instituta imeni Abuali Ibn-Sino.

PA 14714

GURTCVOY, G. K.

USSR/Medicine - Light, Perception Jul 1947
Medicine - Irritation

"The Problem of the Direction of Changes of the
Absolute Light Sensitivity of Twilight Sight
During the Action of the Acoustic Irritation,"
G. K. Gurtovoi, 4 pp
"Byul Eksp Biol i Med" Vol XXIV, No 7

Describes methods of conducting experiments.
Results by Kravkov, Semencvskaya and Vishnevskiy
showed a lowering of sensitivity.

14714

1947, 1...

Libr., Psychology Division, Philosophy Institute, Acad. Sci. (-1947-)

"A New Method of Studying the Localization of Low Threshold Phosphene (Bio-Electrolocation) and the Distribution of the Current Density Flowing Through the Human Body," Dok. AN, 58, no. 2, 1947

"Achromates' Adaptation to Darkness," Dok. AN, 58, no. 6, 1947

24244

GURTOVCE, G. K. K analizu roli kolbochkovogo pribora na osnovanii opytov s
akkomatami. Problemy fiziol. optiki, T. VII, 1949, S. 94-110.
Bibliogr: 22 nazv.

SO: Letopis, No. 32, 1949.

GURTOVOY, G.K.

[Visual qualities in achromatosis] Svoistva zrenia akhromatov. Moskva, 1950.
22 p. (MLRA 6:9)

(Albinos and albinism) (Sight)

GURTOVOY, G. K.

G. K. Gurtovoy and S. V. Kravkov

"Spectral Adaptometer with Range Adjuster," which appeared in the Journal, Problems of Physiological Optics, Vol. 10, 1950.

U-1401, 25 July 51.

"Reactions to Colors in the Color-Blind (Achromates)" and "Spherical Aberration and Diffraction in the Eye," Ibid.

GURTOVOY, G.K.; KRAVKOV, S.V.

Effect of the color of illumination of one eye on the reaction of the other. Doklady Akad. nauk SSSR 78 no.2:391-392 11 May 1951. (CML 20:9)

1. Corresponding Member of the Academy of Sciences USSR S.V. Kravkov, deceased. 2. Sector of Psychology, Institute of Philosophy of the Academy of Sciences USSR.

GURTOVOY, G.K.

Considerations on photography of the pupil in darkness. Probl.
fiziol. opt. no.10:106-111 '52. (MLRA 7:11)

1. Laboratoriya biofiziki, izotopov i izlucheniya pri Otdelenii
Biologicheskikh nauk AN SSSR. Sektor psikhologii In-ta filosofii
AN SSSR. Zav. laboratoriyey prof. A.M.Kuzin. Rukovoditel' gruppy
chlen-korr. AN i AMN SSSR prof. S.V.Kravkov [deceased]
(PHOTOGRAPHY,
of pupil in darkness)
(PUPILS,
photography in darkness)

GURTOVOY, G.K.

Effect of color adaptation on color balance. Probl. fiziol. opt.
no.10:39-51 '52. (MLRA 7:11)

1. Laboratoriya biofiziki, izotopov i izlucheniya pri Otdelenii
biologicheskikh nauk AN SSSR. Sektor psikhologii In-ta filosofii
AN SSSR. Rukovoditel' gruppy Chlen-korr. AN i AMN SSSR S.V.Kravkov.
[deceased]

(COLOR VISION,

eff. of color adaptation on color balance)

(ADAPTATION, OCULAR,

eff. of color adaptation on color balance)

USSR/Optics - Physiological Optics

K-9

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 13180

Author : Gurtovoy, G.K., Gurevich, L.V., Murzayeva, L.B.,
Seletskaya, L.I., Yampol'skaya, T.G.

Inst : -

Title : Investigation of the Laws of Color and Three Dimensional
Visions and Their Use for Increasing the Effectiveness of
Road Signals.

Orig Pub : Tr. In-ta biol. fiz. AN SSSR, 1955, 1, 136-157

Abstract : Starting with the premise that the problems of visibility
of road signals are insufficiently well developed, the
authors have undertaken an extensive investigation of the
influence of such factors, as the shape of the signs, the
combination of colors of the image on the sign and of the
background, the dimension of the sign, and its illumina-
tion. As a total the following recommendations were made:
(1) With respect to the shape -- rectangle (1:4 to 1:10),

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USSR/Optics - Physiological Optics

K-9

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 13180

triangle, and circle.

(2) With respect to color -- yellow sign against a red background and black on yellow.

(3) With respect to the image on the signs -- make them solid and of different configurations, increasing the dimensions to 1 meter on roads of class I -- III and illuminating them with a 25 -- 60 watt bulb. The recommendations have been incorporated in the present standard.

Card 2/2

GURTOVOY, G.K.; TELEGINA, O.F.

Formation of a conditioned reflex connection between visual and motor analysors with respect to the color and weight of objects.
Trudy Inst.biol.fiz. no.1:200-204 '55. (MLRA 9:9)
(CONDITIONED RESPONSE) (HEARING) (SIGHT)

Gurtovoy, G. K.
USSR/Optics - Physiological Optics, K-9

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35931

Author: Gurtovoy, G. K., Seletskaya, L. I.

Institution: Institute of Biological Physics, Academy of Sciences USSR

Title: Concerning the Problem of the Connection Between the Sight and Hearing Analyzers

Original

Periodical: Probl. fiziol. optiki, 1955, 11, 14-18

Abstract: It is shown that just as a sound stimulus increases the threshold of the light sensitivity of the eye during the process of dark adaptation, so does the conditional stimulus act in exactly the same manner. Such stimuli were the putting on earmuffs, bearing against the shoulder of the subject, and the rhythm of stimulation itself. The latter indicates that a reflex with respect to time took place.

Card 1/1

GURTOVOY, G.K.

Evolution of the eye. Nauka i zhizn' 23 no.9:32-33 8 '56.
(MLRA 9:10)

1. Starshiy nauchnyy sotrudnik Instituta biofiziki AN SSSR.
(EYS) (EVOLUTION)

GURTOVOY, G.K.; BURDYANSKAYA, Ye.O.

Visual sensations induced by X irradiation of the eye using doses in the milliroentgen range. Biofizika 4 no. 6:708-713 '59.

(MIRA 14:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva i Gosudarstvennyy nauchno-issledovatel'skiy institut glaznykh bolezney imeni Gel'mgol'tsa, Moskva.

(X RAYS--PHYSIOLOGICAL EFFECT) (VISION)

GURTOVOY, Georgiy Konstantinovich; SEMENOVSKAYA, Ye.N., otv.red.;
VIAZEMTSEVA, V.N., red.izd-va; BRUZGUL', V.V., tekhn.red.

[Eyes and vision] Glas i zrenie. Moskva, Izd-vo Akad.nauk
SSSR, 1959. 93 p. (MIRA 13:6)
(Eye)

GURTOVOY, G.K.; NOL'DE, Ye.V.

Curves of color summation in trichromat obtained by direct determination of radiation power. Biofizika, 4 no.3:336-344 '59. (MIRA 12:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

(COLOR VISION, physiol.

color summation curves in trichromates by direct power
determ. (Rus))

GURTOVOY, G.K.

Discussion of Hill's article on biophysics. Biofizika, 4 no.3:
380-384 '59. (MIRA 12:7)
(BIOPHYSICS)

GURTOVOY, G.K.; BURDYANSKAYA, Ye.O.

Dosed X-irradiation of various regions of the head and visual perceptions. Biofizika 5 no.3:354-361 '60. (MIRA 13:7)

1. Institut biologicheskoy fiziki Akademii nauk SSSR, Moskva i Gosudarstvennyy nauchno-issledovatel'skiy institut glaznykh bolezney im. Gel'mgol'tsa, Moskva.

(VISION)

(X RAYS---PHYSIOLOGICAL EFFECT)

(RADIATION---DOSAGE)

GURTOVOY, G.K.; BURDYANSKAYA, Ye.O.

Threshold of reactivity to X irradiation in different regions of the human retina. Biofizika 5 no. 4:474-478 '60. (MIRA 13:12)

1. Institut biologicheskoy fiziki AN SSSR, Moskva i Institut glaznykh bolezney imeni Gel'mgol'tsa, Moskva.
(RETINA) (X RAYS—PHYSIOLOGICAL EFFECT)

GURTOVOY, G.K.; ITSIKSON, L.Ya.; BYVSHEVA, O.N.

Radiophosphorus diagnosis of ocular tumors and the ways for its
improvement. Vest.oft. no.3:9-15 My-Je '62. (MIRA 15 3)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut glaznykh
bolezney imeni Gel'mgol'tsa (direktor A.V. Roslavitsev).
(PHOSPHORUS--ISOTOPES) (EYE--TUMORS)

GURIOVOY, G.K.

Intravital study of the characteristics of the penetration
of labeled substances into eye tissue. Biofizika 8 no.1:62-
68 '63. (MIRA 17:8)

1. Institut glaznykh bolshey imeni Gel'ngol'tsa, Moskva.

GURTOVOY, G.K.

Method for a more effective radioisotope diagnosis of small tumors
(particularly ocular). Biofizika 8 no.4:518-522 1963.

(MIRA 17:10)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut glaznykh
bolezney imeni Gell'ngol'tsa, Moskva.

GURTOVOY, G.K.

Radioisotope diagnosis of eye tumors. Med. rad. 8 no.8;
17-22 Ag '63. (MIRA 17:10)

1. Iz Instituta glaznykh kolezney imeni Gell'ngol'tsa.

KULIZHNIKOV, G.A., polkovnik meditsinskoy sluzhby; GURTOVOY, I.M., mayor meditsinskoy sluzhby; KOSHTOYANTS, K.Kh.; KOVALEVA, Z.N.

Some clinical characteristics in the course of influenza during the 1959 epidemic. Voen. med. zhur. no.11:72 N '61. (MIRA 15:6)
(INFLUENZA)

GURTOVA, I. I.; KURCHIK, E. I.

General information about the experimental work. Vol. 1.
no. 5:102-110 198. (MIRA 13:1)

1. Iz Moskenskogo jadrologičeskogo i biologičeskogo departamenta (glavnyy
vrach - E. Ia. Kurčik, vedushchij vrach - I. I. Gurtova).

DECEASED

GURTOVOY, L.Ye., prof.[deceased]; IVANITSKAYA, Ya.P., doktor med. nauk; MAZHBITS, A.M., prof.; PREYSMAN, A.B., prof.; STARTSEVA, L.N., kand. med. nauk; TRUYEVTSEVA, G.V., kand. med.nauk; SHUB, R.L., zasl. deyatel' nauki Latvyskoy SSR prof.; YAGUNOV, S.A., prof.[deceased]; PERSIANOV, L.S., prof., otv. red.; ZHMAKIN, K.N., prof., zasl. deyatel' nauki RSFSR, red.; RYABOV, G.Z., red.; ROMANOVA, Z.A., tekhn. red.

[Multivolume manual on obstetrics and gynecology] Mnogotomnoe rukovodstvo po akusherstvu i ginekologii. Moskva, Medgiz. Vol.4. Book 1. [General gynecology] Obshchaya ginekologiya. 1963. 674 p. (MIRA 16:9)

1. Chlen-korrespondent Akademii meditsinskikh nauk (for Yagunov, Persianinov).

(GYNECOLOGY)

to file to '61

GURTOVOY, M., ROMENSKIY, V.

Machines for the meat industry. Mias.ind.SSSR 32 no.6:8-9
'61. (MIRA 15:2)

1. Poltavskiy zavod "Prodmash".
(Meat industry--Equipment and supplies)

PROCESSES AND PROPERTIES INDEX

3

CA

Secondary electron emission from thorium-tungsten is an ion-atom impact in a mercury-vapor discharge. M. H. Gurnord. *J. Exptl. Theoret. Phys. (U. S. S. R.)* 11, 488-492 (1941).—A method is described for distinguishing secondary electrons ejected by metastable and by positive ions. The "potential emission" from Th-W rapidly increases with decreasing work of removal. F. H. R.

A 18-51A METALLURGICAL LITERATURE CLASSIFICATION

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

IVERONOVA, V.I., prof.; GOLUBKOV, P.V., prof., red.; KONDILENKO, I.I., dots., red.; GURTOVOY, M.Ye., dots., red.; MARIANASHVILI, M.M., dots. red.

[Program in general physics for physics and physicomathematics faculties of state universities] Programma po boshchei fizike dlia fizicheskikh i fiziko-matematicheskikh fakul'tetov gosudarstvennykh universitetov. [Kiev] Izd-vo Kievskogo gos. univ. Pt.1. [Mechanics. Molecular physics. Electricity and magnetism. Optics] Mekhanika. Molekuliarnaia fizika. Elektrichestvo i magnetizm. Optika. 1956. 8 p. (MIRA 11:3)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya. (Physics--Study and teaching)

Gurtovoy, M.Ye.

USSR/Electronics - Electronic and Ionic Emission

H-2

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 12298

Author : Gurtovoy, M.Ye., Sosenko, P.P.

Inst : -

Title : On the Depth of the Ion-Electron Emission

Orig Pub : Nauk. povidomlennya Kiivs'k. un-tu, 1956, vyp. 1, 11

Abstract : Brief report on the work of the authors, in which they obtained results that show that the ion-electron emission upon bombardment by fast hydrogen ions is a phenomenon that takes place within the volume of the emitter, and is not localized on its surface.

Card 1/1

- SOV/112-57-6-13026

Translation from: Referativnyy zhurnal. Elektrotehnika, 1957, Nr 6, p.195 (USSR)

AUTHOR: Gurtovoy, M. Ye.

TITLE: Fluctuations of Electron Space-Charge Compensation
(Kolebaniya kompensatsii elektronnoy ob'yemnoy zaryada)

PERIODICAL: Nauk. zap. Kiyevsk. un-t, 1955, Vol 14, Nr 8, pp 189-193

ABSTRACT: The author of the article discovered fluctuations in the anode current of an electron tube that operated with a compensation of electron space charge (Gurtovoy, M. Ye., Kovalenko, G. I., Fiz. zap. AN Ukr SSR, 1941, Vol 9, p 249). Specially-manufactured diodes of 3 types, filled with Cs, K, Na, were investigated. Ions of alkali metals are formed because of the contact ionization of their atoms that takes place on the surface of an incandescent cathode. These ions are continuously delivered to the next-to-cathode range of the negative space charge and cause its compensation. Thanks to this fact, anode currents equal to the saturation currents were obtained with various and even with zero anode voltages. It was discovered that under certain conditions, the

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SOV/112-57-6-13026

Fluctuations of Electron Space-Charge Compensation

voltage-current characteristics of the investigated tubes showed dips. Appearance of the dips was always accompanied by anode-current fluctuations. These fluctuations are caused by fluctuations in space-charge compensation, which in turn are due to fluctuations of the positive-ion concentration near the cathode. Effects of the tube-filament temperature (filament current) and the vapor pressure of the alkali-metal tube filling on the amplitude and frequency of the fluctuations were investigated. It was found that fluctuation amplitude increases with increase in vapor pressure. The strongest fluctuations were observed in the tubes filled with Na vapor. The fluctuations have a frequency of about 300 kc and their shape is fairly close to sinusoidal. In case of Na-filled tubes, the fluctuation frequency is about 180 kc.

L. I. A.

Card 2/2

HURTOVYY, M. Ye.

S/194/62/000/005/122/157
D230/D308

AUTHORS: Hurtovyy, M. Ye., and Krulykivs'kyy, B. K.

TITLE: The influence of an overall state of the substance on the ion-electron emission

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1962, 45, abstract 5zh304 (Visnyk Kyyivs'k. un-tu, 1960 (1961), no. 3, ser. astron., fiz. ta khimiy, no. 2, 33-35)

TEXT: Using a mass spectrometer the secondary electron emission of Pb was investigated whilst bombarding it with ions of Hg, Pb and Bi isotopes, with energies of 2 and 4 keV. It was established that (a) as Pb target is purified, the difference between the secondary emission coefficient (s.e.c.) of the solid and molten Pb decreases and finally becomes negligible; (b) s.e.c. rises substantially with ion energy; (c) s.e.c. is independent of the kind of ions (with specified limits). [Abstractor's note: Complete translation]. ✓

Card 1/1

ZHMUDSKIY, O.Z. [Zhmuds'kyi, O.Z.], kand.fiz.-mat.nauk, dots.; GURTOVYY, M.Ye.
[Gurtovyi, M.IE.]; KRIVOSHEYA, A.S. [Kryvosheia, A.S.], red.;
VOLKOVA, N.K., tekhn.red.

[Achievements of modern physics] Dosiahnennia suchasnoi fizyky.
Pid red. O.Z.Zhmuds'koho. Kyiv, Derzh.uchbovo-pedagog. vyd-vo
"Radians'ka shkola," No.5. 1957. 310 p. (MIRA 11:6)
(Physics)

45768

S/194/62/000/012/072/101
D295/D308

26.1640

24.6761

AUTHORS:

Gurtoviy, M. Ye., Ostroukhov, A. A. and Pekar, S. I.

TITLE:

Theory of space-charge compensation in electric vacuum devices

PERIODICAL:

Referativnyy zhurnal, Avtomatika i radioelektronika, no. 12, 1962, 55, abstract 12 Zh 344 (Nauk. zap. Kyyivs'k. un-t, v. 18, no. 3, 1959, 173-183 (Ukr.; summary in Rus.))

TEXT: Experimental and theoretical papers that consider the compensation of volume charge in the interelectrode space by charges of opposite sign are briefly reviewed. A theory of a vacuum diode filled with gas vapor ionized at the surface of the hot cathode is developed. A system of two Boltzmann equations for the distribution functions of electrons and ions and of Poisson equation with suitable boundary conditions is solved. The thermionic current and the surface ionization of atoms of gas are taken into account at the cathode, and the absorption and reflection of electrons and

Card 1/2

Theory of space- ...

S/194/62/000/012/072/101
D295/D308

the neutralization of atoms are taken into account at the anode. The equations are solved for small concentrations of the gas when the collision integrals may be neglected in Boltzmann's equations; the case is also considered of a single potential minimum in the vacuum. An equation is obtained that connects the depth of the potential minimum with the electron and ion currents, the anode voltage and other parameters of the gas and of the diode; this equation makes it possible to determine the appearance of full compensation of the electron charge by the ion charge, for which the potential minimum in the vacuum vanishes. Expressions for the through electron and ion currents are shown. An analysis of the results obtained shows that the case considered of low gas pressures includes the range of operating conditions of a vacuum diode which is of interest in practice. The results of the investigation can be applied to the theory of thermoelectron converters of thermal energy at low pressure. 10 references. / Abstracter's note: Complete translation. /

X

Card. 2/2

GURTOVOY, N.N.; IL'ICHEV, V.D.; KRISHKIN, V.I.

Adaptive characteristics of the skin of the external part
of the acoustic analyzer in birds. Zool. zhur. 44 no.2:
304-306 '65. (MIRA 18:5)

1. Moskovskiy gosudarstvennyy universitet.

GURTOVOY, V.L., dotsent; PULATOVA, M.T., dotsent

Second Asiatic Congress of Obstetricians and Gynecologists.
Akush. i gin. 38 no.5:122-124 S-0 '62.

(MIRA 17:11)

FAYDYSH, Aleksandr Nikolayevich [Faidysh, O.M.], kand. fiziko-mat. nauk;
GURTOVYY, M.Yu. [Hurtovyi, M.IU.], kand. fiz.-mat. nauk, otv.
red.; STAROSTENKO, T.M., red.; MATVIICHUK, O.A., tekhn. red.

[Thermonuclear reactions; on the natural and artificial suns]
Termoiaderni reaktsii; pro pryrodne i shtuchne sontse. Kyiv,
1961. 37 p. (Tovarystvo dlia poshyrennia politychnykh i nauko-
vykh znan' Ukrain's'koi RSR. Ser. 6, no.20) (MIRA 15:2)
(Thermonuclear reactions)

17(4)
AUTHORS: Vorontsov, N. N., Gurtovoy, N. N. SOV/20-125-3-59/63
TITLE: The Structure of the Abdominal Gland in Cricetini - Cricetinae-
Rodentia - Mammalia (Stroyeniye srednebryushnoy zhelezy
nastoyashchikh khomyakov (Cricetini - Cricetinae - Rodentia -
Mammalia)
PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 3, pp 673-676
(USSR)
ABSTRACT: Cricetini - Cricetinae - Rodentia - Mammalia has in the middle
of its abdomen a special gland (as mentioned in the title)
which has hitherto not been described (apart from the mention
in references 4, 9). Many rodents have special skin glands, the
occurrence of which in the individual groups and their function
have been little investigated (Refs 5-7). In the axial line of
the body the glandula abdominalis is located before the
genitals (Fig 1). Externally it looks like a small slit-shaped
depression surrounded by a horseshoe-like wall. The open part
of the horseshoe is directed to the front. A thick, fat-like
excretion fills the slit completely. The medial sides of the
wall and the bottom of the slit are covered by especially short
hair, whereas the hair of the lateral parts (of the wall) does

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The Structure of the Abdominal Gland in
Cricetini - Cricetinae - Rodentia - Mammalia

SOV/20-125-3-59/63

not differ from the rest of the hair. Figure 2 shows a sagittal section through the gland of the *Cricetulus eversmanni* Brandt. With respect to the way of excreting the gland can be divided into two parts: a. Simple glands in the central part at the bottom of the slit excrete directly into the hair follicle (Fig 3) in which connection each gland opens into the upper part of the hair follicle through a wide excretory duct. b. The peripheral part of the gland, forming the mentioned wall is clearly built up by little lobes (Fig 4). The lobes excrete the secretion into a common duct. It may be assumed that the mentioned gland originates from an intensive development of the sebaceous glands of the part of the body concerned. Apparently, it seems to function only during the reproductive period. In *Phodopus sungorus* Pall. the gland becomes noticeable during the fourth week of life. It develops more rapidly in hamsters born in spring which are capable of reproduction already in the same year. In animals born in fall the gland does not develop before spring. After the end of the reproductive period the gland has one half or one quarter of its original size and it is possible to overlook it when examining it from outside. When they first

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The Structure of the Abdominal Gland in
Cricetini - Cricetinae - Rodentia - Mammalia

SOV/20-125-3-59/63

meet hamsters sniff at one another just in the region of the abdominal gland. Their excretion may be of importance for marking off the individual housing places. The gland is equally developed in males and females and was determined by the authors in 12 different types of hamsters (mentioned with their names) which they unite to (Ref 3) Subtribus Cricetini. The Palearctic genus *Calomyscus* Thom. has no such gland just as the related *Reithrodontomys* Giglioli, and four further genera of Cricetinae. They were found by other zoologists in *Sigmodon* and *Peromyscus*. This point contributes to a closer relationship between *Peromyscus* and Cricetini. In the South African *Mystromys albicaudatus* Smith this gland is not developed. Apart from other characteristics the existence of the abdominal gland facilitates a rather clear demarcation between the Palearctic Tribus Cricetini and 4 other genera.

Card 3/4

The Structure of the Abdominal Gland in
Cricetini - Cricetinae - Rodentia - Mammalia

SOV/20-125-3-59/63

Thus, it is impossible to include *Calomyscus* (Refs 1-3) in the group of Tribus Cricetini Simpson (Ref 8). The histological part of the paper was worked out by the second author. There are 4 figures and 9 references, 4 of which are Soviet.

ASSOCIATION: Zoologicheskii institut Akademii nauk SSSR
(Zoological Institute of the Academy of Sciences, USSR)
Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova
(Moscow State University imeni M. V. Lomonosov)

PRESENTED: December 10, 1958, by Ye. N. Pavlovskiy, Academician

SUBMITTED: December 7, 1958

Card 4/4

GURTOVOY, Nikolay Nikolayevich; MATVEYEV, S.S., prof., red.;
DANIL'CHENKO, O.P., red.; CHISTYAKOVA, K.S., tekhn.red.

[Comprehensive laboratory manual on zoology of the
vertebrates; anatomy section] Bol'shoi praktikum po zo-
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