"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

06294

25 (2)

AUTHORS: Ivanov, B. N., Engineer, Mayanskiy, I. I., Engineer SOV/119-59-11-8/13

TITLE: A Semiautomatic Device for the Winding of Flat Spiral Springs

PERIODICAL: Priborostroyeniye, 1959, Nr 11, pp 20-21 (USSR)

ABSTRACT: This semiautomatic device was produced at the Leningrad "Vibrator" Works according to a design by I. I. Mayanskiy. By means of this device it is possible to coil springs from an endless band, and all operations are mechanized. It is used for the production of springs for electric measuring devices producing the repelling moment. The semiautomatic device shown in figure 1 is discussed in detail with respect to all its parts and its mode of operation. Five to six bands are first united in a bunch, after which this bunch is arranged by means of a special appliance, and is then wound flat by means of a drum. By means of this semiautomatic device it is possible to coil springs of different cross sections and different numbers of turns. The quality of the springs manufactured in this manner is described as being considerably better than that of springs wound by hand. There is 1 figure.

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IVANOV, B.N.

Unit for heat treatment of small flat spiral springs. Priborostroenie no.8:18-19 Ag '60. (MIRA 13:9)
(Bronze--Heat treatment)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.N., kand.tekhn.nauk

Experimental investigation of V-belt speed-variators.
Konstr.i tekh.mash. no.1:36-53 '61. (MIRA 15:2)
(Belts and belting)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.N., kand.tekhn.nauk

Coefficient of friction of V-belt transmissions. Konstr.i tekh.mash. no.1:54-61 '61. (MIRA 15:2)
(Belts and belting)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.N., kand.tekhn.nauk

Calculating axial forces in V-belt speed variators with springs. Konstr.i tekh.mash. no.1:62-73 '61. (MIRA 15:2)
(Belts and belting)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.N.; MEL'NICHUK, V.A.

Measuring the cross-section diameter of cylindrical articles with a rolling micrometer. Izm. tekh. no.9:14-16 S '64. (MIRA 18:3)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

TKACHUK, V.G., doktor geol.-miner. nauk, otv. red.; YURK, Yu.Yu., doktor geol.-min. nauk, red.; IVANOV, B.N., kand. geogr. nauk, red.; GOLOVTSYN, V.N., doktor geol.-min. nauk, red.; VOINSTVENSKIY, M.A., doktor bio.. nauk, red.; SHUL'TS, P.N., kand. ist. nauk, red.; DUBLYANSKIY, V.N., kand.geol.min. nauk, red.; SERDYUK, O.P., red.izd-va; TURBANOVA, N.A., tekhn. red.

[Transactions of the Joint Karst Expedition] Trudy Kompleksnoi karstovoi ekspeditsii. No.1.[Studying karst in the Crimea] Issledovaniia karsta Kryma. 1963. 170 p. (MIRA 17:3)

1. Akademiya nauk URSR, Kiev. Kompleksnaya karstovaya ekspeditsiya.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

31832
S/194/61/000/010/052/082
D256/D301

9.4177 (also 1051,1114)
21.6000

AUTHOR: Ivanov, B.N.

TITLE: Temperature dependence of photo-conductivity in semiconducting crystals of CdS

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 28, abstract 10 G194 (Novosti med. tekhn., 1960, no. 6, 72-74)

TEXT: Temperature dependence of the photo-conductivity in crystals of CdS is considered as important for solid-state detectors of nuclear radiations. A new approach is presented to the kinematics of processes influencing the temperature behavior of CdS. The photoconductivity decreases with increasing the temperature, and at ~ 190°C (the energy of thermal motion ≈ 0.04 eV) the impurity-levels become ionized filling with electrons the surface and local defect levels. In these circumstances the photo-conductivity

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31832
S/194/61/000/010/052/082
D256/D301

Temperature dependence...

curve may step slightly upwards or the fall of the curve may stop. In the region of ~ 600°C (≈ 0.06 eV) the slightly excited excitons are transferred to higher levels, subsequently decaying with photon emission; this can cause a sharp drop of photo-conductivity.
[Abstracter's note: Complete translation]

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

SALL', Anatoliy Ottovich; IVANOV, B.N., inzh., red.; FOMICHEV, A.G., red. izd-va; GVIRTS, V.L., tekhn. red.

[Modern industrial infrared (optico-acoustical) gas analyzers] Sovremennye promyshlennye infrakrasnye (optiko-akusticheskie) gazoanalizatory. Leningrad, 1961. 16 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Pribory i elementy avtomatiki, no.17) (MIRA 15:3) (Eudiometer) (Infrared rays--Industrial applications)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

ANDREYEV, Sergey Vasil'yevich; MARTENS, Boris Konstantinovich; TRUSHINSKIY, Aleksandr Nikolayevich; IVANOV, B.N., inzh., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Multipositional electromechanical programmed controller; temperature, humidity, and lighting] Mnogopozitsionnyi elektromekhanicheskii programmnyi reguliator; temperatury, vlazhnosti i osveshchennosti. Leningrad, 1961. 18 p. (MIRA 14:8)
(Electric controllers)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

BULANOV, Ivan Filippovich; IVANOV, B.N., insh., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Semiautomatic winding machines] Namotochnye poluavtomaty. Leningrad, 1961. 20 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Pribory i elementy avtomatiki, no.7) (MIRA 14:7)

(Winding machines)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

SAKHOV, Vladimir Borisovich, kand. tekhn. nauk; IVANOV, B.N., inzh., red.; GRIGOR'YEVA, I.S., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Electronic-mechanical converter tubes and their use in measuring nonelectrical values] Elektronno-mekhanicheskie lampovye preobrazovateli iikh ispol'zovanie dlia izmereniia neelektricheskikh velichin; stenogramma lektsii. Leningrad, 1961. 34 p. (MIRA 15:5)

(Electron tubes) (Transducers)
(Automatic control)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

USHA, Anatoliy L'vovich; IVANOV, B.N., inzh., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Computing device with automatic halting of the process at a predetermined number of impulses] Schetnoe ustroistvo s avtomaticheskoi ostanovkoi protsessa po zaranee zadannomu kolichestvu impul'sov. Leningrad, 1961. 9 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Pribory i elementy avtomatiki, no.1) (MIRA 14:7)

(Counting devices)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

MERKUCHEV, Dmitriy Antonovich; IVANOV, B.N., insh., red.; FREGER, D.P., red. izd-va; GVIRTS, V.L., tekhn. red.

[Use of contactless relay components with semiconductor elements for the automatic control of pipe-cutting mills] Primenenie beskontaktnykh releinykh elementov na poluprovodnikakh dlia avtomaticheskogo upravleniia trubootreznym stankom. Leningrad, 1961. 13 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia; Pribory i elementy avtomatiki, no.6) (MIRA 14:7)
(Pipe cutting) (Automatic control)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.N.; VLADIMIROV, V.V.; MENDEL'SVAYG, Yu.B.

Semiconductor CdS crystal dosimeters. Nov.med. tekh. no.4: 52-67'61. (MIRA 16:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya.
(RADIOMETRY)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

ZVYAGIN, Solomon Davydovich; IVANOV, B.N., inzh., red.; VASIL'YEV, Yu.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Electric hy hygrometer for measuring the moisture content of liquid, loose and solid materials and new capacitor pickups] Elektricheskii vlagomer dlia izmereniia vlazhnosti zhidkikh, sypuchikh i tverdykh veshchestv i emkostnye datchiki novogo tipa. Leningrad, 1962. 28 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Pribory i elementy avtomatiki, no.3) (MIRA 15:8)
(Moisture--Measurement) (Electronic instruments)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

SAVUL'KIN, Aron Yevseyevich, inzh.; SATANOVSKIY, Rudol'f Leybovich, inzh.; IVANOV, B.N., red.; VASIL'YEV, Yu.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Automation of potentiometer and toroidal coil winding operations on transfer machines]Avtomatizatsiia protsessa namotki potentsiometrov i toroidov na stankakh rotornogo klassa. Leningrad, 1962. 17 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Pribory i elementy avtomatiki, no.4) (MIRA 15:10)

(Electric coils) (Potentiometer)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

GANELIN, Georgiy Zalmanovich; KULAYEVA, Inna Georgiyevna; IVANOV, B.N., red.

[Multiple connection switches] Perekliuchateli parallel'nykh soedinenii (PPS). Leningrad, 1965. 21 p. (MIRA 18:10)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

21467 IVANOV, B. N.

Primeneniye morfometricheskogo analiza k geomorfologicheskomu rayonirovaniyu Bukoviny.
Trudy Vtorogo Vsesoyuz. geogr. s"yezda., T. I.., 1948, s. 91 - 104
Bibliogr: 9 NAZV.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.N.

GOL'DIN, B.M.; IVANOV, B.N.

Formation of erosive floods in the Crimea. Trudy Ukr. NIGMI no.9: 74-78 '57. (MIRA 11:1)

(Crimea--Floods)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.N.

Experience in delineating natural history areas in the Crimean highlands. Nauk. zap. L'viv. un. 40:131-143 '57. (MIRA 11:6)

1.Krymskiy filial AN USSR, Simferopol'.
(Crimea--Mountains)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

GOL'DIN, B.M.; IVANOV, B.N.

Certain data on the mud flows in the Crimea. Izv. Krym. otd. Geog. ob-va no.5:105-127 '58. (MIRA 14:9)
(Crimea--Runoff)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

SOV/21-59-8-17/26

3 (4, 5)

AUTHOR: Ivanov, B. M., (Ivanov, B. N.)

TITLE: On the Hydrodynamic Zonality of the Ai-Petri Area Trough

PERIODICAL: Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 8, pp 885 - 889 (USSR)

ABSTRACT: The article deals with the results of a complex karstological investigation of the Ai-Petri area through conducted by the Otdeleniye gidrogeologii i karstologii instituta Mineral'nykh resursov AN USSR (Department of Hydrogeology and Karstology of the Institute of Mineral Resources of the AS UkrSSR) in 1955 - 1956. Thus, the character and the intensity of karsting of the water-collecting basins of the trough, the conditions of the appearance and development of the surface and deep karst forms and hollows have been established for the first time. The water collecting basins of the Ai-Petri karst trough are distinguished by a very slight erosiveness and high karsting indices (96 craters per square kilometer in the fifth water-collecting basin). The karsting of the trough evidently began with the

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SOV/21-59-8-17/26

On the Hydrodynamic Zonality of the Ai-Petri Area Trough

development of the primary structure of the relief by the surface flow. The formation of karst hollows occured along fissures developed along the stratification (inclined and horizontal circulation) with subsequent alteration of the run-off in connection with the development of tectonic fissility (vertical circulation). The principal feature of the hydrodynamic zonality of the region is its multiplan character or conjunction of the signs of the primary development of these zones with the later influences of young fault tectonics. The hydrodynamic zonality of the trough is distinguished by great deviation from the general schemes (Fig. 2 and table 2), especially due to the existance of a deep subzone of the upper zone, and to the apparent absence of a continuous occurance of syphonic and depth circulation zones (by the nature of the source conditions).
There are 2 tables, 2 diagrams and 5 Soviet references.

ASSOCIATION: Institut mineral'nykh resursov AN USSR (Institute of Mineral Resources of the AS of UkrSSR)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.M.; DUBLYANSKIY, V.M. [Dublians'kyi, V.M.]

Expedition for studying karst holes in the Crimean Mountains and its geological surveys in 1958. Visnyk AN URSR 30 no.7:54-56 Jl '59. (MIRA 12:10)

(Crimea--Karst) (Geological surveys)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

GOL'DIN, B.M.; IVANOV, B.N.

Conference on mudflows in the Crimea. Izv. Vses. geog. ob-va 91 no.1:104-105 Ja-F '59. (MIRA 12:3)
(Crimea--Landslides)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.N.

Study of karst in the Crimean Mountains by the Karst Expedit' of the Academy of Sciences of the Ukrainian S.S.R. Nov.kar.i spel. no.2:36-43 '61. (MIRA 15:9)
(Crimean Mountains--Karst)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

DOMBROVSKIY, Oleg Ivanovich; SHCHEPINSKIY, Askol'd Aleksandrovich; DUBLYANSKIY, Viktor Nikolayevich; GONCHAROV, Vladilen Petrovich; ~~IVANOV, Boris Nikolayevich, kand. geogr. nauk;~~ SOLOMONIK, E.I., kand. ist. nauk, obshchestvennyy red.; YARMYSH, Yu., red.; ISUPOVA, N., tekhn. red.

[How secrets are revealed; sketches on Krasnopeshchernaya] Kak raskryvaiutsia tainy; ocherki o Krasnykh peshcherakh. Simferopol', Krymizdat, 1962. 108 p. (MIRA 15:11)
(Crimea—Caves)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

TITLE: The Conference on applied karstology

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, no. 1, 1963, 124 - 126 (authors: Gvozdetskiy, N. A., and Chikishev, A. G.)

TEXT: The Conference was held in Moscow on April 23 - 25, 1962, and was attended by 35 representatives from 16 scientifical and industrial organizations. The Conference was opened by N. A. Gvozdetskiy who reported on the activities of the Geographical section of the Moscow Society of Natural scientists. The following reports were delivered: A. G. Lykoshin on the investigation of karsts for hydro-engineering construction by geological engineers; V. S. Polevoy on the use of geophysical methods to study karsts in areas of hydrological engineering structures; I. A. Savarenskiy on problems considering karsts in industrial and urban construction in the Dzerzhinsk region; N. A. Gvozdetskiy on "Karst in the region of Caucasian Mineral Water Sources"; I. I. Ginzburg on mineral resources connected with karst processes; G. I. Bushinskiy on bauxite and phosphorite karst deposits; Ye. T. Bobrov on "Karst bauxites of the Yenisey ridge and the adjacent region of the Siberian platform"; N. A. Lisitsyna on "Karst bauxites in the Kazakh foldings and the Turgay depression"; B. N. Ivanov and V. N. Dublyanskiy on "The importance of the Crimea karst in national economy"; A. G. Chikishev on "The importance of the Central Ural karst in national economy"; I. K. Kudryashov on the influence of karst on agriculture in some Bashkirian regions; The reports delivered were discussed by D. S. Sokolova, V. A. Varsanof'yeva, N. A. Krasil'nikova, S. A. Sladkopevtseva, V. S. Polevoy and others. The Conference approved the methods of karst investigation, including geophysical means, electrical seismic and ultrasonic prospecting. It was decided to investigate in detail the development and expansions of karst; to study the origination of karst bauxites, to control the purity of mineral water sources and to continue research in the agricultural regions of Bashkiria.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

DUBLYANSKIY, V.N.; IVANOV, B.N.

Importance of Crimean karst for national economy. Biul. MOIP Otd. geol. 37 no.6:145 N-D '62. (MIRA 16:8)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

GOLOVTSYN, V.N.; IVANOV, B.N.; SMOL'NIKOV, B.M.

Some karstic and geophysical investigations of the runoff intake zones in the karsts of the Crimean Mountains. Geofiz. sbor. no.7: 142-146 '64. (MIRA 17:11)

1. Institut geofiziki AN UkrSSR.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.N.

Crimean karst and its importance in the national economy. Trudy MOIP 12:136-141 '64. (MIRA 18:1)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.N.

Experience and problems of comprehensive geophysical, karstological, and hydrological studies of the effect of karst on the surface runoff. Geofiz. i astron. no.8: 134-138 '65.

(MIRA 19:1)

1. Institut mineral'nykh resursov Gosudarstvennogo geologicheskogo komiteta SSSR.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

AYZENBERG, M.M.; GOL'DIN, B.M.; IVANOV, B.N.; OLIFEROV, A.N.

New maps and a classification of the mudflow basins in the mountain regions of the Ukraine. Geofiz. i astron. no.8; 142-146 '65. (MIRA 19:1)

1. Upravleniye gidrometeorologicheskoy sluzhby UkrSSR i Institut mineral'nykh resursov Gosudarstvennogo geologicheskogo komiteta SSSR.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

NAZAROV, G.N.; IVANOV, B.N.

Manifestation of karst in the Crimean steppes. Geofiz. sbor. no.8:114-124 '64. (MIRA 18:6)

1. Institut mineral'nykh resursov Gosudarstvennogo geologicheskogo komiteta SSSR.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.N.; IL'INA, S.N.

Open (denuded) karst in the Crimean Mountains. Trudy MOIP 15:42-46 '65. (MIRA 18:9)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

GEL'MAN, A.A.; MYAGKOV, V.V.; IVANOV, B.N.

Effect of technological factors on the structural strength of magnesium cast iron. Lit. proizv. no.1:23-25 Ja '65. (MIRA 18:3)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.P.

Cartography at Kharkov University. Uch.zap.KHGU 56:77-82 '55.
(MLRA 9:7)

(Kharkov University) (Cartography--Study and teaching)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.P.

Sighting error in reciprocal leveling. Uch.zap.KHGU 56:187-196 '55. (MLRA 9:7)
(Leveling)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

L 8543-66 EWT(1)/FCS(k)/T WR

ACC NR: AR5018771 SOURCE CODE: UR/0274/65/000/007/A053/A053

48
B

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz'. Svodnyy tom, Abs. 7A348

AUTHOR: Vorob'yev, Ye. A.; Ivanov, B. P. 44

TITLE: Experimental investigation of characteristics of the antennas whose aperture modulates in time

CITED SOURCE: Tr. Leningr. in-t aviats. priborostr., vyp. 43, 1964, 134-139

TOPIC TAGS: antenna, antenna directional pattern, horn antenna

25B, 44

TRANSLATION: The effect of time modulation of size or shape of the antenna aperture upon its directional pattern is considered. If the aperture length is ξ and its variation is $\Delta\xi$, the aperture modulation factor will be $m = \Delta\xi/\xi$. It is shown that the values ξ and $\xi - \Delta\xi$ can be so proportioned that the side lobes for the second dimension will coincide with the zeros of the first dimension. With a time modulation of dimension having a modulation factor m, the average value of the side lobes decreases. A multihorn $65\lambda \times 5\lambda$ antenna was experimentally investigated. The modulation was realized by a periodic shielding of a part of the aperture with a rotating punched disk, which carried an absorbent on its internal side for reducing the antenna mismatch. With m = 0.3, the side-lobe level was lower by 2.6 db, but also the antenna directive gain of 400 decreased by 20—25%. The aperture-shape modulation was carried out by means of a round paraboloid of 15λ diameter at whose edge a ring

UDC: 621.396.67.012.12

Card 1/2

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with rectangular projections was rotated. A lobe attenuation of 2--3 db was obtained. Figs 7.

SUB CODE: 09, 17

Card 2/2

jw

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L 58998-65

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

AUTHOR: Ivanov, B. P.

TITLE: Conditions for practical realization of a sharply peaked antenna

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

ACC NR: AP6033393 SOURCE CODE: UR/0293/66/004/005/0709/0712

AUTHOR: Ivanov, B. S.

ORG: none

TITLE: Determination of the rotation velocity and inclination of the axis of a planet from the radiation received by its satellite

SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 5, 1966, 709-712

TOPIC TAGS: venus planet, planetary astronomy, planetary satellite, thermal radiation

ABSTRACT: By observing the radiation reflected from an artificial satellite it is possible to measure the radiation emitted by a planet. In the interpretation of the measurements, the rotation period (angular velocity ω) of a planet and the inclination α of its axis with respect to the plane of its orbit must be known. Conversely, when ω and α are not known, as in the case of Venus, prolonged observations of the radiation reflected from the satellite may be used for the determination of ω and α. The author derives an expression for the heat flux from the sun reaching the planet. This expression depends on the solar constant for this particular planet, and on ω and Ω (angular velocity of the apparent solar motion). The expression is greatly simplified by the assumption that $\Omega \ll \omega$. In that case, the flux during one rotation of the planet does not depend on α, and if the satellite is fast ($\omega_{sat} \gg \omega_{pl}$).

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ACC NR: AP6033393

there will be many revolutions of the satellite per one rotation of the planet. The measured periodic change of the temperature will then determine the rotation period of the planet with an accuracy of about ω_{pl}/ω_{sat}. α is determined by Fourier analysis of the heat flux. Orig. art. has: 1 figure and 11 equations.

SUB CODE: 03/ SUBM DATE: 24Feb64/ ORIG REF: 002

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

AUTHOR: Ivanov, B.S. SOV/113-58-4-4/21

TITLE: A Method of Investigating the Deformation of Thin-Walled Sleeves Occurring During the Operation of an Engine (Metodika issledovaniya deformatsii tonkostennykh gil'z pri rabote dvigatelya)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 4, pp 12-16 (USSR)

ABSTRACT: In order to increase the life of parts of the cylinder-piston group of an automobile engine, the determination of the effect of the magnitude and character of the sleeve deformation on the contact of the piston rings with the sleeve is very important, although this matter has not yet been taken up in technical literature. Therefore, the author discusses existing mathematical calculations and geometrical aspects of the deformation of thin-walled wet sleeves (Figure 1) and concludes that they are incomplete and unsatisfactory. Therefore experimental investigations are preferable at present. Testing by a device for measuring the deformation of loaded mechanisms would not lead to the desired objective. Therefore calibrating oscillograms previously taken on a special stationary test stand are suggested instead. A special arrangement (Figure 4) permitted experimental deformation of the sleeves in the cylinder block. The measuring results indicated by the MPO-2 os-

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

A Method of Investigating the Deformation of Thin-Walled Sleeves Occurring During the Operation of an Engine

SOV/113-58-4-4/21

cillograph had a step-like character (Figure 5). The second investigation stage was conducted on an experimental one-cylinder four-stroke diesel engine, the characteristics of which are given. Graphs and oscillograms showing the influence of the deflection angle of the crankshaft of the V-54 engine (Figure 6), cranking of the crankshaft of an engine without compression (Figure 7), and the effect of the number of revolutions and the torsional moment on the deformation of the sleeve during operation of the engine (Figure 8) are discussed. The experimental results show that the upper part of the sleeve is deformed by an equal increase of the diameter, while the lower part is periodically extended to an oval with the long axis of the oval in a plane that is perpendicular to the crankshaft. This fact is to be considered in new designs and established individually by experiment in each new design. There are 4 diagrams, 4 graphs, and 1 table.

1. Internal combustion engines--Performance 2. Cylinder liners --Deformation 3. Cylinder liners--Testing equipment 4. Cylinder liners--Test results 5. Mathematics

Card 2/2

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

S/113/60/000/002/004/009
D207/D306

AUTHOR: Ivanov, B. S., Candidate of Technical Sciences

TITLE: Testing fine fuel filters with the help of marked atoms

PERIODICAL: Avtomobil'naya promyshlennost', no. 2, 1960, 24-26

TEXT: The article describes a method of testing fine motor fuel filters by the use of an activated polluting agent, in this case ferrous hydroxide. The test apparatus system can be seen in Fig. 1. Maximum specific activation of 0.1 microcurie per gram was achieved by irradiating the ferrous hydroxide for 30 days in a 10^{12} neutron stream. The activation of the polluting agent can be calculated by D. G. Tochil'nikov's method (Ref. 1: "Zavodskaya laboratoriya" no. 8, 1958). Ten standards containing 0.001-0.4 g of a polluting agent were prepared by dissolving various amounts of the activated agent in equal quantities of compression ignition engine fuel; these standards were later used for experimentally determining the content of polluting agent in test fuel samples. The maximum radiation dose from 6 hours of close work with the filters was only 0.03 r. The test method followed that laid down by the State stan-

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dard ГОСТ 7389-55 (GOST 7389-55) except that colorimetric analysis was replaced by dosimetric measurement of the activity of fuel samples taken before and after the filters. The mean quadratic error in determining the straining factor for the three filters varied from 6.06 to 6.86%. This could be reduced by using a higher content of activated polluting agent and by increasing the time taken to measure a sample. By plotting a calibration curve of the Fe^{59} activity the concentration of the agent in a given sample can easily be read off. The use of an activated polluting agent also makes it possible to do without sedimentometry in determining the fractional composition of the polluting agent. With the help of a radiation counter this task can be effected by observing the change in the activity of a column of fuel during sedimentation of the agent. The results are then plotted in graph form. The height of the fuel column must be chosen so that the radiation of the sediment is weakened sufficiently that it can be ignored. According to V. N. Spitsyn, this occurs when the sediment radiation is not more than 1% of the activity of the specimen fuel column. The correlation between that portion of the polluting agent in suspension and that

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Testing fine fuel filters...

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D207/D306

portion deposited as sediment can then be worked out from the radiation readings. The marked atom method simplifies fuel filter testing and reduces the amount of apparatus needed. It is in no way inferior in accuracy to the colorimetric or sedimentometric methods. There are 6 figures and 3 Soviet-bloc references.

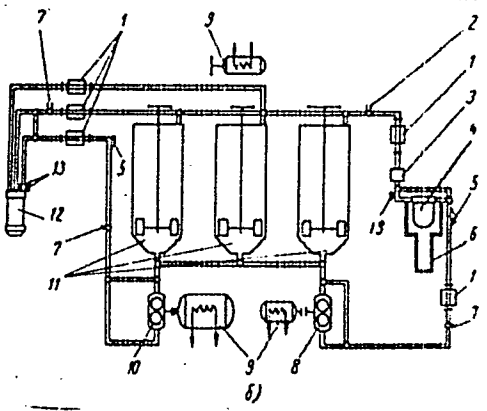

Рис. 1. Общий вид (а) и схема (б) стенда для испытания фильтров:

1 — блоки счетчиков; 2 — кран отбора проб; 3 — расходомер; 4 — топливный фильтр; 5 — датчик температуры; 6 — пьезометр; 7 — кран отбора проб; 8 — топливный насос; 9 — электродвигатели; 10 — масляный насос; 11 — баки с мешалками; 12 — масляный фильтр; 13 — датчик давления.

Fig. 1. Schematic diagram of the filter test stand: 1 - meter units; 2 - tap for sample taking; 3 - consumption meter 4 - fuel filter; 5 - temperature recorder; 6 - piezometer; 7 - tap for sample taking; 8 - fuel pump; 9 - electric motors; 10 - oil pump; 11 - fuel tanks with agitators; 12 - oil filter; 13 - pressure recorder.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.S., tekhnik (Kiyev)

Improve methods for controlling the quality of construction.
Stroi. truboprov. 5 no.5:10-11 My '60. (MIRA 13:9)
(Gas, Natural--Pipelines)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.S., tekhnik

Prevent the appearance of hollows and fissures in pipes. Stroi. truboprov. 6 no.9:29 S '61. (MIRA 14:9)

1. Trest Ukrgazneftestroy, g. Kiyev.
(Pipelines)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.S.; ARKHAROVA, L.Ya., otv.red.; SOKOLOVA, Ye.V., tekhn.red.

[Heterodyne resonance indicator] Geterodinnyi indikator rezonansa. Moskva, Izd-vo "Detskii mir," 1962. 1 fold. l. (Prilozhenie k zhurnalu "IUnyi tekhnik," no.6(120)). (MIRA 15:2)

1. TSentral'naya stantsiya yunykh tekhnikov, Moscow.
(Radio measurements)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

S/057/63/033/004/020/021
B117/B236

AUTHORS: Ivanov, B. S., and Troitskiy, V. S.

TITLE: Problem of the shaping of the directional characteristic of molecular beams

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 33, no. 4, 1963, 494-499.

TEXT: Directional characteristics were calculated on the basis of the theory of beam formation (ZhTF, 32, no. 4, 1962). Clausing's equation for the distribution density of the molecules at the walls of short tubes was extended by studying a tube connected to a gas container such that the free path λ_0 in the tube is considerably greater than the linear dimensions of the source ($\lambda_0 \gg L$). The following expression was derived for the normalized density $\bar{\nu}(s) \approx \nu(s)/\nu_0$ of collisions between the molecules and the wall:

$$\bar{\nu}(s) = \int_0^{l_0} \bar{\nu}(t)\left[1 - \frac{|t-s|}{\sqrt{1+|t-s|^2}} - \frac{|t-s|}{2\sqrt{(1+|t-s|^2)^3}}\right] dt + \frac{0.5+s^2}{\sqrt{1+s^2}} - s. \qquad (4)$$

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where $t = z/2r_0$ and $t_0 = L/2r_0 = L/d$. Since a strictly analytical solution of this equation met with mathematical difficulties, it was carried out on an electronic computor for a series of parameters. The solution was non-trivial, since the function $\bar{\nu}(s)$ proved to be linear for all parameters t_0, which in no way satisfies the equation analytically. Furthermore, the directional characteristic of a round tube was calculated for the more real case $\lambda_0 \gg L$, the relation $\nu(x) = (n\bar{v}/4)$ being taken into account. It was assumed here that the effect of the mutual collisions of the particles cannot be neglected, but is nevertheless to small to change the density distribution $\nu(x)$ very much in comparison to the limiting case $\lambda_0 \gg L$. The calculations carried out on an electronic computer afforded a satisfactory agreement with the experimental results. This shows that the calculations carried out reflect the conditions for the formation of a molecular beam. The equations derived can be used in conjunction with the linear relationship $n(x)$ to calculate the directional characteristics in terms of given parameters of source and gas pressure. There are 5 figures.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

Problem of the shaping of the ... S/057/63/033/004/020/021
B117/B238

ASSOCIATION: Gor'kovskiy gosudarstvennyy universitet im. N. I. Lobachevskogo
(Gor'kiy State University imeni N. I. Lobachevskiy)

SUBMITTED: January 22, 1962 (initially)
May 15, 1962 (after revision)

Card 3/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.S., veterinarnyy vrach

Elimination of pasteurellosis of chickens. Veterinariia 41 no.7:47 Jl '64. (MIRA 18:11)

1. Kolkhoz "Rassvet", Rostovskoy oblasti.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, Bushko St.

From my experiences. Tekstilna prom 11 no.1:31-32 '62.

1. Sektsionen maistor pri tukachniia tsekh na Durzhavnoto industrialno predpriiatie "8-mi mart," Sofia.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

L 23617-66 EWT(1)

ACC NR: AP6009518 (A) SOURCE CODE: UR/0413/66/000/005/0039/0039

AUTHOR: Ivanov, B. S.; Svecharnik, D. V.

ORG: none

TITLE: A controlled two-phase asynchronous micromotor. Class 21, No. 179374

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 39

TOPIC TAGS: electric motor, positive feedback

ABSTRACT: This Author's Certificate introduces: 1. A controlled two-phase asynchronous micromotor based on Author's Certificate No 117302 with split poles in the controlled phase. There are openings in sections of the split poles with crosspieces which support the control winding. The control power is reduced and the amplification factor of the control signal is held constant by making the control windings from two branches connected in antiparallel through diodes. These branches each contain two coils which are located on alternate sections of the poles for the controlled phase. 2. A modification of this micromotor in which two positive feedback windings are used. Each of these windings consists of two coils which are located on the crosspieces of alternate sections of the poles.

SUB CODE: 09/ SUBM DATE: 21Aug64/ ORIG REF: 000/ OTH REF: 000

UDC: 621.313.333.2 .025.2-181.4

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

L 00579-67 EWT(k)/EWT(d)/EWT(1)/EWT(h)/EWT(1)/EWT(v) FDR/WW

ACC NR: AP6033509 SOURCE CODE: UR/0413/66/000/018/0140/0140

INVENTOR: Murashov, Yu. A.; Ivanov, B. S.

ORG: none

TITLE: Bellows safety valve. Class 47, No. 186237

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 140

TOPIC TAGS: aircraft fuel system, aircraft fuel tank, fuel tank safety valve, safety valve, high pressure valve

ABSTRACT: The proposed safety bellows valve, such as one used in aircraft fuel tank pressurization systems, is provided with an auxiliary valve with a vent from the cavity under the bellows of the main valve to the atmosphere which is activated when the maximum pressure gradient is reached (see Fig. 1). In order to increase the sensitivity of the safety valve to the regulated pressure gradient, the auxiliary valve is built into the bellows valve and is controlled by a membrane, activated by the regulating pressure gradient. Orig. art. has: 1 figure.

[WA No. 76]

Card 1/2 UDC: 621.646.88

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

L 08579-67

ACC NR: AP6033509

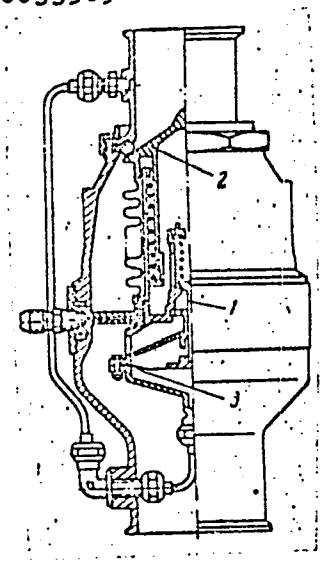

Fig. 1. Safety bellows valve

1 - Auxilliary valve; 2 - bellows valve; 3 - membrane.

SUB CODE: 21/ SUBM DATE: 24Aug64

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B. T.

Lens separation in motion picture stereoscopy.
Moskva, Goskinoizdat, 1945, 171 p.

Cyr.4 TR32

1. Photography, Stereoscopic.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.T.

Light-power stereoscopic motion-picture screen. Trudy NIKFI no.7: 260-264 '47. (MIRA 11:6)

1. Laboratoriya stereokino Nauchno-issledovatel'skogo kino-foto-instituta, Moskva.

(Motion-picture screens)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.T., inzhener.

Soviet raster method of stereoscopic motion-picture projection. Nauka i zhizn' no.8:11-18 Ag '47. (MLRA 9:5)
(Motion pictures, Three-dimensional)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, S. I.

Steroeskopicheskoe Kino (Stereoscopic Motion Pictures), 55 p., Moscow, 1951.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.T.

Moving-picture Projection

News about three-dimensional movies. Kinomekhanik no. 1, 1953

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

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.T.

Moving Pictures

New developments in stereoscopic movies. Kinomekhanik No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.T.

K-9

Category : USSR/Optics - Physiological Optics

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 5313

Author : Ivanov, B.T., Semenovskaya, Ye.N., Gol'tsman, N.I.
Inst : NIKFI, USSR
Title : Investigations in the Sphere of Perception of Stereoscopic Images

Orig Pub : Probl. fiziol. optiki, 1955, 11, 70-83

Abstract : An investigation of the perception of stereoscopic images was carried out in a specially-constructed stereoscope, where it was possible to change both the degree of illumination of the right and left images, as well as the degree of their separation, and also using a reticulated screen for spectacle-less stereoscopic projection of motion picture frames and test patterns. In the perception of stereoscopic pictures the observer should assume a definite position of the body and of the head, so as not to leave the optimum observation zone and so as not to lose the spatial placement of the object. This causes a strain in the muscles and considerable fatigue of vision. The fatigue was investigated with the following methods: by measuring the electric sensitivity and stability of the optical analyzer in their comparisons, the

Card : 1/2

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

Category : USSR/Optics - Physiological Optics K-9

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 5313

instability of clear vision, and the muscle balance of the eye. Comparison of the directions in the change in the instability and excitability made it possible to judge the phase changes in the state of the central nervous system even before the occurrence of fatigue. The most important factor in the fatigue, in addition to the one mentioned above, is the insufficient degree of separation of the right and left images. Depth perception turned out to be a very stable quantity and was disturbed only when one of the eyes is quite heavily darkened and when the quality of the separation was poor. The following recommendations are made: the unevenness in the illumination of the two eyes must not exceed 30%, the purity of separation must not be lower than 92 -- 95%. Bibliography, 12 titles.

Card : 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, Boris Timofeyevich; YAKOBSON, A.Kh., redaktor; CHICHERIN, A.N., tekhnicheskiy redaktor

[Stereocinematography] Stereokinotekhnika. Moskva, Gos. izd-vo "Iskusstvo," 1956. 215 p. (MIRA 9:7)
(Motion pictures, Three-dimensional)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B. T.
All-Union Scientific Research Institute of Cinematography.

"Optical Microstructure Pattern for High-Speed Photography."

Papers
~~Abstracts~~ presented ~~to~~ of Fourth International Congress of High-Speed Photography,
~~[illegible]~~ in Cologne.
22-27 Sept 1958.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.T.; LEVINGTON, A.L.; IOFIS, Ye.A., kand.tekhn.nauk, red.; TKLESHEV, A.N., red.; MALEK, Z.N., tekhn.red.

[Stereoscopic photography] Stereoskopicheskaia fotografiia. Pod red. E.A.Iofisa. Moskva, Gos.izd-vo "Iskusstvo," 1959. 94 p. (Biblioteka fotoliubitelia, no.18). (MIRA 13:6)

(Photography, Steroscopic)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.T. (All-Union Scientific-Research Institute of Cinematography, Moscow)

Properties and Principles of Application of Small Lens Rasters in High-Speed Photography.

report submitted for: The 5th International High Speed Photography Congress, Washington, D.C. 16-22 Oct. 1960.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.T.

Developments in stereoscopic motion pictures. Tekh.kino i telev. 4 no.7:1-9 Jl '60. (MIRA 13:7)
(Motion pictures, Three-dimensional)

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OVSYANNIKOVA, N.A.; IVANOV, B.T.

Selecting the optimum parameters for stereoscopic motion-picture photography. Zhur.nauch.i prikl. fot. i kin. 6 no.2:144-146 Mr-Ap '61. (MIRA 14:4)

(Motion pictures, Three-dimensional)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.V. [deceased]

Statistics of shipbuilding costs and their use for economic studies. Trudy NTO sud.prom. 8 no.2:45-67 '59. (MIRA 13:5)
(Shipbuilding--Accounting)

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IVANOV, B. V.

IVANOV, B.V.; KOZLOV, A.G., vedushchiy redaktor; SHULEYMOVICH, M.A., inzhener, retsenzent.

[Tool makers' creative work] Tvorcheskii trud instrumental'shchikov. Sverdlovsk, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry [Uralo-Sibirskoe otd-nie] 1953. 35 p. (MIRA 7:8)
(Machine tools)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.V.; SEMENOV, K.V.

Strength of die-stamping hammer rods. Kuz.-shtam. proizv. 2 no.5:41-44 My '60. (MIRA 14:3)
(Sheet-metal work) (Metalworking machinery)

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S/007/61/000/001/001/002
B107/B216

AUTHORS: Ivanov, B. V., Rozbianskaya, A. A.

TITLE: Geochemistry of indium in cassiterite-silicate-sulfide ores

PERIODICAL: Geokhimiya, no. 1, 1961, 60-71

TEXT: The indium content of the individual minerals of the Deputatskoye deposit was studied. Quantities of indium between $5 \cdot 10^{-3}$ and $5 \cdot 10^{-5}$% were determined colorimetrically with Rhodamine C, larger quantities polarographically against a background of 3 N hydrochloric acid. After the addition of iron, indium was precipitated together with the other sesquioxides by means of ammonia and then ether-extracted from 5 N HBr. To separate it from remaining gallium, indium was backextracted from the ether extract with 6 N HCl in presence of H_2O_2. The results of the determinations are summarized in Table 1.

Table 1

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Geochemistry of indium ...

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Stage of mineralization	minerals	content in %
I. Greisen: veins of minor size consisting of cassiterite, topaz, quartz, fluorite, muscovite	cassiterite I	(0.001)
II. Tourmaline: tourmalinization and silicification of surrounding rock, formation of metasomatic tourmaline bodies with fine-grained cassiterite interspersions	tourmaline I	(0-0.0005)
	cassiterite II	?
III. Quartz, tourmaline, fluorite, cassiterite	tourmaline III	0.0003-0.0008
	cassiterite III crystalline	0.001-0.0032
	cassiterite III radiating	0.0027
	chlorite I	0.0004
	arsenopyrite III	(0.0005-0.001)
	wolframite II	0.0003-0.0013

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B107/B216

Geochemistry of indium ...

Stage of mineralization

IV. Sulfidic: mainly pyrrhotite with minor quantities of sphalerite and chalcopyrite, and slight quantities of stannine, arsenopyrite and bismuth minerals

V. Carbonatic-sulfidic siderite, galena, sphalerite, chalcopyrite, stannine; slight quantities of antimony, fahlore, bismuth minerals, silver, partly collomorphous structures.

VI. Sulfoantimonitic: Only slightly developed in the deposit. The role of colloids during mineralization is still more marked

minerals	content in %
sphalerite I	0.210-0.310
chalcopyrite I	0.057-0.150
pyrrhotite II	0.0001-0.005
arsenopyrite III	0.0001
sphalerite III	0.019-0.040
stannine II	0.08-0.09
chalcopyrite II	(0.05)
pyrrhotite III	(0.0005-0.001)
galena I	(0.0005-0.001)
siderite IV	0.0004-(0.002)
manganosiderite III	(0.001)-0.006
galena II	0.0005-0.001
sphalerite IV	0.0037-0.031
sphalerite IV radiating	0.0055
stannine III	(0.01-0.1)
boulangerite	0.0003-(0.001)
frankeite	0.0005

Card 3/6

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Stage of mineralization	minerals	content in %
VII. Carbonatic: last mineralization, composed of calcite and pyrite	pyrite III	0.0002

(the spectroscopic indium values which were not checked by chemical analysis are bracketed)

Thus indium is accumulated not only in sphalerite, but also in chalcopyrite and stannine; however, pyrrhotite, tourmaline, arsenopyrite, wolframite, chlorite, and siderite must also be regarded as indium reservoirs. From this it follows that indium is geochemically related to Fe^{2+}, especially to tetra-coordinated Fe^{2+}. In the lead minerals, In^{3+} is assumed to be camouflaged by Pb^{2+}. The following persons are mentioned: I. Ya. Nekrasov, A. P. Vinogradov, Ye. S. Vachnadze, and Ye. M. Nanabashvili, N. M. Prokopenko, G. B. Bokiy, and T. S. Khodasheva, V. I. Vernadskiy, A. Ye. Fersman, V. V. Shcherbina, N. A. Rudnev, L. N. Khetchikov, and V. N. Dubrovskiy. There are 1 figure, 2 tables, and 34 references: 30 Soviet-bloc.

ASSOCIATION: Institut mineralogii, geokhimii i kristallokhimii redkikh elementov AN SSSR, Moskva (Institute of Mineralogy, Geochemistry and Crystal Chemistry of Rare Elements of the Academy of Sciences USSR)

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DVORETSKIY, A.I., inzh.; GORBANENKO, A.D., inzh.; SAMOYLYUK, A.V., inzh.; IVANOV, B.V., inzh.

Use of a liquid admixture VNIINP-102 in fuel oil with high sulfur content. Elek. sta. 33 no.8:16-20 Ag '62. (MIRA 15:8)
(Boilers) (Petroleum as fuel)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.V.

Obligations are to be fulfilled ahead of schedule. Veterinariia 40 no.6:15-20 Je '63. (MIRA 17:1)

1. Glavnyy veterinarnyy vrach Ust'-Labinskogo proizvodstvennogo upravleniya, Krasnodarskogo kraya.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B. V. Eng.

Cranes, Derricks, etc.

Operating ten-ton traveling gantry cranes. Mekh. trud. rab.6, no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, ~~October,~~ 1953, 2Uncl.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.V., inzhener

Experience with mechanized excavation of the basin of the Kuybyshev Hydroelectric Power Station. Mekh.stroi.12 no.9:14-18 S'55. (MIRA 8:11)

(Kuybyshev Hydroelectric Power Station) (Earthwork)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.V., inzhener.

Fifteen ton cable cranes used in constructing the building of the Kuybyshev Hydroelectric Power Station. Mekh.stroi. 12 no.10:10-13 O '55. (MLRA 9:1)
(Kuybyshev hydroelectric power station) (Cranes, derricks, etc.)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.V., inzhener

The TU-0284 and TU-0603 gantry cranes in construction work at the Kuybyshev Hydroelectric Power Station. Mekh.stroi.12 no.11:7-10 N'55. (MLRA 9:1)
(Cranes, derricks, etc.) (Kuybyshev Hydroelectric Power Station)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.V., inzhener.

Experience with running a continuous operation concrete plant.
Mekh.trud.rab.13 no.7:15-20 Jl '56. (MIRA 9:9)
(Concrete plants)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.V., inzhener.

Experience with introducing mechanized unloading of cement. Mekh.trud.rab.13 no.7:24-28 Jl '56. (MIRA 9:9)
(Loading and unloading) (Cement--Transportation)

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.V., inzh.; SILAYEV, Ye.A., red.; MAKRIDOV, Ye.V., red.; MODLIN, G.D., tekhn.red.

[Gantry cranes in the construction of the Kuybyshev Hydroelectric Power Station] Portal'nye krany na stroitel'stve Kuibyshevskogo gidrouzla. Kuibyshev, Orgenergostroi, 1957. 43 p. (MIRA 11:6)
(Kuybyshev Hydroelectric Power Station)
(Cranes, derricks, etc.)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.V., inzhener.

Improving the loading equipment of concrete mixers used in automatic concrete plants with periodic operation. Stroi.i dor.mashinostr. 2 no.7:11-14 Jl '57. (MIRA 10:7)
(Mixing machinery) (Automatic control)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1"

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

AUTHOR: Ivanov, B.V., Engineer.

TITLE: Experience in introducing automatic production lines for reinforcement of concrete facing slabs. (Opyt vnedreniya avtomaticheskikh linii dlya izgotovleniya armofermochek zhelezobetonnykh plit-obolochek.)

PERIODICAL: "Mekhanizatsiya Stroitel'stva" (Mechanisation of Construction) 1957, Vol. 14, No. 1, pp. 17 - 20 (U.S.S.R.)

ABSTRACT: The above slabs have found wide application recently in hydro-building techniques, not only as shuttering but also as facing elements. These slabs simplify and accelerate the concreting process and ensure greater durability and more pleasing appearance. These slabs were used during the erection of the Kuibyshev Hydro-electric Power Station and were manufactured in 2 specially erected plants (of 72 000 m^3 capacity/annum). The reinforcement presented particular difficulties which were solved by the introduction of automation. The factory was equipped with a plant MTMF 2 x 150, a welding machine ASF - 25.6 tensioning drums, an assembly table, 3 drum stands, a stand for assembled reinforcement and a cutting machine GN-3. Reinforcing rods are placed in coils on the drums, the ends of the rods pass through the assembly stand into the welding machine MTMF 2 x 150 and then into the cutting machine. Finally, the reinforcement, cut to the required lengths, is transported automatically on to the storing shelves.

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Experience in introducing automation for production lines for reinforcement of concrete facing slabs. (Cont.)

The plant MTMF 2 x 150 is specified in detail. It can carry out the following operations: assembling the top and bottom rods with the zig-zag distancing reinforcement, spot-welding, cutting. The cutting process is synchronised by a system of relays ShU - 19 and, more recently, ShU - 24. Various modifications were carried out based on operational reports from various factories as, for instance, the hydraulically-operated cutter (working under a pressure of 60 atm.), the diameter of the welding electrodes had to be increased to 25-35 mm, the electro-magnetic valves EPK(SA - 15 300) of 380 volts were changed to valves of 12 Volts. New cutters weighing 300 kg were incorporated instead of the previous cutters which weighed 2 500 kg. These lighter cutters can operate without being supervised by technicians.

There are 11 diagrams and photographs.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

100-4-5/16

AUTHOR: Ivanov, B.V. (Engineer)

TITLE: Mechanisation of processes of concreting facing slabs in the Kuibyshevgidrostroi. (Mekhanizatsiya protsessov betonirovaniya plitobolochek na kuybyshevgidrostroye).

PERIODICAL: "Mekhanizatsiya Stroitel'stva" (Mechanisation of Construction), 1957, Vol.14, No.4, pp.16-19 (USSR).

ABSTRACT: These slabs are formed from high-quality concrete of high frost-resistance and low water permeability. Methods of vibration and steam curing are applied. Two factories for the manufacture of facing slabs were erected during the construction of the Kuibyshev GES Hydroelectric Power Station. These factories had an output of 72 000 m^3/ annum. Each factory has a concrete mixing plant (capacity = 425 l.) The transportation of the concrete mix was solved in different ways in each factory. In the first factory the formwork with the reinforcement was transported on a lorry under the concrete silo where it was filled and the concrete consolidated by vibration. In the second factory the formwork was stationary and the silo with the concrete mix travelled overhead, filling the formwork with concrete. The initially used travelling silo (1.2 m^3 capacity) with pneumatically closing and opening devices proved unsatisfactory. New

1/2

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Mechanisation of processes of concreting facing slabs in the Kuibyshevgidrostroi. (Cont.)

100-4-5/16

improved silos with a 1.8 m^3 capacity were constructed under the supervision of Trifonov, E.V. and Nikishkin, A.S., (Fig.4). Two vibrators И-7 were attached to the construction. The silo propelled by a 4.5 kW electromotor with 1440 rot./min. A new improved vibrating platform was constructed by the engineers of the Kuibyshevgidrostroi (Trifonov, E.V., Alekhin, M.G., Evgrafov, N.G. and Shchukin, V.I.) It comprises a supporting frame, top-platform, shelf with vibrators, intake and suspension. The size of the platform is 5140 x 2530 x 540 mm. Constructional details are described and illustrated in detail. The time of vibration is 15 min.

2/2

There are 3 diagrams, 3 details and 1 photograph.

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"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619020011-1

IVANOV, B.V.

IVANOV, B.V., inzh.

Using cable cranes in building the Kuybyshev hydroelectric project. Gidr.stroi. 26 no.9:7-12 S '57. (MIRA 10:10)
(Kuybyshev Hydroelectric Power Station)
(Cranes, derricks, etc.)

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