"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANT, O.A.

USSR/ Chemistry - Glass mirrors

Card 1/1 Pub. 104 - 11/14

Authors : Dorokhov, A. K.; Mitskevich, Z. A.; and Brilliant, O. A.

Title : New method of silver coating glass

Periodical : Stek. i ker. 11/11, 25-27, Nov 1954

Abstract : Experiments are described which were conducted in order to discover methods of diminishing the amount of silver left in the solution when silver is being deposited on glass from complex ammonium compounds. It is found that the addition of iodine to the solution accomplishes this purpose and also fixes the coating of silver more firmly on the glass. Two USSR references (1938 and 1950). Graphs; table.

Institution: .....

Submitted: .....

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BRILLIANT, O.A.

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U.S.S.R. 103,709, Aug. 26, 1956. Addn. to U.S.S.R. 98,227. In order to obtain a dense coat of pptd. Ag free of pores, to the silvering bath is added a mixt. of 1 [illegible] a reducing agent. This mixt. is prepd. by adding 2-3 [illegible] a [illegible] soln. of 1 to 1 l. of reducing agent and bo[illegible] [illegible] the yellow color disappears.

M. [illegible]

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

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BRILLIANT, O.A., inzh.

Use of plastic films made from polyvinyl chloride in the lighting industry. Trudy NIIMesttoppproma no.17:42-47 '62. (MIRA 16:5)
(Vinyl polymers) (Lamp shades)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANT, S.G.

MATSKIN, L.A.; KOVALENKO, K.I.; BABUKOV, V.G.; KONSTANTINOV, N.N.; PONOMAREV, G.V.; PAL'CHIKOV, G.N.; PELENICHKO, L.G.; SHAMARDIN, V.M.; GLADKOV, A.A.; BRILLIANT, S.G.; SHEVCHUK, V.Ya.; SOSHCHENKO, Ye.M.; ALEKSANDROV, A.M.; BUNCHUK, V.A.; KRUPENIK, P.I.; MAYEVSKIY, V.Ya.; YELSHIN, K.V.; GAK, Kh.A.; POTAPOV, G.M.; KARDASH, I.M.; STEPURO, S.I.; KAPLAN, S.A.; SELIVANOV, T.I.; YEREMENKO, N.Ya.; ZHUZH, A.D.; USTINOV, A.A.; GIRKIN, G.M.; VOLOBUYEV, P.P.; CHERNYAK, I.L., nauchnyy red.; DESHALYT, M.G., vedushchiy red.; GENNAD'YEVA, I.M., tekhn.red.

[Combating losses of petroleum and petroleum products; materials of the All-Union Conference on Means of Combating Losses of Petroleum and Petroleum Products] Bor'ba s poteriami nefti i nefteproduktov; po materialam Vsesoiuznogo soveshchaniia po bor'be s poteriami nefti i nefteproduktov. Leningrad, Gos.nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 157 p. (MIRA 13:2)

1. Nauchno-tekhnicheskoye obshchestvo neftyanoy i gazovoy promyshlennosti.

(Petroleum industry)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANT, S. G

Prevent losses of petroleum.. NTO no.9:29-30 S '59.
(MIRA 13:1)

1. Zamestitel' predsedatelya oblastnogo pravleniya Nauchno-tekhnicheskogo obshchestva neftyanoy i gazovoy promyshlennosti, Kuybyshev.
(Kuybyshev--Petroleum industry--Safety measures)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANT, S.G.

Brigades of Communist labor of Kuybyshev petroleum workers.
Neft.khoz. 37 no.3:66-68 Mr '59. (MIRA 12:5)
(Kuybyshev Province--Petroleum industry)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, B.A.

CA

9

Arrangement for granulating blast furnace slags in water. B. A. Brilliantov. U.S.S.R. 64,277, July 31, 1945.

M. Hosch

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

SOV/133-59-3-4/32

AUTHORS: Oreshkin, G.G. and Brilliantov, B.A., Candidates of Technical Sciences

TITLE: Reconstruction of the Blast Furnace Hearth and Hearth Bottom at the Dzerzhinskiy Works (Rekonstruktsiya gorna i leshchadi domennoy pechi zavoda im. Dzerzhinskogo)

PERIODICAL: Stal', 1959, Nr 3, pp 206 - 209 (USSR)

ABSTRACT: It is pointed out that numerous investigations (Refs 1-4) indicated that isotherms in the centre of a conventional hearth bottom descend deep down while isotherms of a cooled hearth bottom approach its internal designed contour in shape. Therefore, it is possible to decrease the non-uniformity of stresses in the hearth bottom and thus the number and dimensions of cracks if the bottom is cooled and made from a heat-conducting material such as carbon blocks. Moreover, the thickness of the bottom must be co-ordinated with its heat conductivity so that the temperature of the iron in contact with any part of the hearth bottom did not exceed 1 050 - 1 100 °C. The latter can be achieved by designing the hearth bottom in the form approaching a volume limited by two spherical sectors with a distance between them of 1.2 - 1.6 m (thickness of the hearth layer). So-designed deepening

Card1/3

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Reconstruction of the Blast Furnace Hearth and Hearth Bottom at the Dzerzhinskiy Works SOV/133-59-3-4/32

of the bottom will not only remove its centre from the zone of maximum temperatures but will also decrease the mechanical degradation of the lining by convection current. It was decided to check on the durability of a spherical hearth during the reconstruction of a furnace at the works. The design of the project is described. The general lay-out and the design of the individual hearth sectors is shown in Figure 1-4. The bottom and sides of the hearth up to the level of slag notches will be lined with carbon blocks. The hearth bottom (1 600 mm thick) and walls (1 200 mm thick) will be water-cooled with coolers 300 mm thick with two rows of tubes, 38 mm in diameter (Figure 3). The casing of the hearth will consist of a round bottom plate, three conical and one cylindrical surfaces (Figure 2). Coolers are placed between the lining and the casing (Figure 3). The bottom cooler will have a round shape; the remaining coolers will form conical surfaces. The lining of the tuyere zone and the remaining part of the furnace will be made from chamotte bricks . A new casing is being made for the bosh and tuyere level 26 mm thick and for the rest

Card2/3

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

Reconstruction of the Blast Furnace Hearth and Hearth Bottom at the Dzerzhinskiy Works SOV/133-59-3-4/32

of the hearth 36 mm thick. The spherical hearth will be standing on a support from plates, 40 mm thick, resting on reinforced concrete. The lentil will be welded to the stack casing and supported by 6 columns, the length of which will increase from 7 500 mm to 12 893 mm as the lentil will be raised by 2 213 mm. It is planned that the whole hearth and bosh will be built near to an operating furnace (total weight 1 100 tons) and then pushed into position. There are 4 figures and 4 references, 2 of which are English, 1 Soviet and 1 German.

ASSOCIATION: Zavod im. Dzerzhinskogo (im. Dzerzhinskiy Works)

Card 3/3

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, D., inzh.

Japanese portable television receivers. Radio no.6:56-57,59 Je '65. (MIRA 18:10)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, D., inzh.

Vertical sweep of a transistorized television receiver. Radio no.10:24-26 O '65.

(MIRA 18:12)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, D., inzh.

Horizontal sweep of a transistorized television receiver.
Radio no.11:29-32 N '65. (MIRA 18:12)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BASKIN, I., inzh.; BRILLIANTOV, D., inzh.

Synchronizing stage of a transistorized television receiver. Radio no.9:25-27, 29 S '65. (MIRA 19:1)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

AUTHOR: Brilliantov, G.A. SOV/90-58-2-2/9

TITLE: On Using AC Operation Current in the Shielding Circuit When the Relay Is Switched to Difference of Currents in Two Phases (Primeneniye peremennogo operativnogo toka v skhemakh zashchit pri vklyuchenii rele na raznost' tokov v dvukh fazakh)

PERIODICAL: Energeticheskiy byulleten', 1958, Nr 2, pp 5-8 (USSR)

ABSTRACT: The author lists the drawbacks of the so-called "TKB" relays, i.e. intermediate self-saturating transformers (PNT) used as shielding circuits in short-circuit heavy-current networks. He especially stresses the deficiency that these transformers show a rather high impedance. Then he describes and advocates another system used first at the relay shield reconstruction in the "Neftegaz" at Moscow, consisting of a transformer circuit at which the deflecting coil is deshunted by IT-81 relay contacts, and an additional small-capacity resistor (0 to 0.6 ohm) inserted into the relay contacts. He then lists several advantages of this system, e.g. that it ensures the operation of the IT-81 relay at overloads with a proper time delay. The author then describes another shielding system. This has been constructed

Card 1/2

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SOV/90-58-2-2/9

On Using AC Operation Current in the Shielding Circuit When the Relay Is Switched to Difference of Currents in Two Phases

for electromotors driving secondary mechanisms with heavy starting currents. In this case the shielding system against starting overcurrents has an IT-82 relay with a limited dependent characteristic.
There are 5 circuit diagrams and 2 graphs.

1. Alternating currents--Performance 2. Electric relays --Effectiveness 3. Transformers--Circuits 4. Shielding--Circuits

Card 2/2

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8 (6), 9 (2)

SOV/91-59-11-16/27

AUTHOR: Brilliantov, G.A., Engineer

TITLE: The Checking of Breakdown Protectors

PERIODICAL: Energetik, 1959, Nr 11, pp 24-25 (USSR)

ABSTRACT: The author explains a method of checking breakdown protectors. The PP-A3 breakdown protectors, presently installed on transformers, work frequently when high voltage enters the low voltage winding because of network failures. The contacts of the breakdown protectors are baked together, whereby the network will then work with a grounded neutral if it worked normally with an insulated neutral. Presently, breakdown protectors are checked once a month according to existing regulations, consequently accidents are not excluded. The existing equipment for checking breakdown protectors on transformers is very expensive. One generally known "system of checking breakdown protectors" will produce adequate results only for relatively small networks, ie. with small leak currents. The method suggested by the author is ex-

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SOV/91-59-11-16/27

The Checking of Breakdown Protectors

plained in a circuit diagram, shown in Fig 3. This method may be combined with the generally known methods of insulation control. This system was used by the author for the first time at the Moscow "Neftegaz" plant and at the Lyubertsy NPZ. There are 3 circuit diagrams and 1 vector diagram.

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

L 45519-66 EWT(1) GD

ACC NR: AT6016820 (A) SOURCE CODE: UR/0000/65/000/000/0152/0161

AUTHOR: Glebov, I. A.; Brilliantov, L. B.; Vadaturskiy, V. M.; Kovalenko, V. B.

ORG: none

51
50
B+1

TITLE: Induction starting of contactless synchronous motors with rotating semiconductor rectifiers

29

SOURCE: AN SSSR. Institut elektromekhaniki. Teoriya, raschet i issledovaniye vysokoispol'zovannykh elektricheskikh mashin (Theory, design, and research of electrical machinery in constant use). Moscow, Izd-vo Nauka, 1965, 152-161

TOPIC TAGS: synchronous motor, contactless synchronous motor, electric motor, semiconductor rectifier, thyristor

ABSTRACT: As considerable overvoltages arise across rectifiers during induction starting (M. P. Barret, RGE, 1961, no. 9), two methods are suggested for limiting these overvoltages: (1) Permanent shunting of the rotor winding by a linear or nonlinear resistor; the values of an ohmic resistor and a "tervit" varistor and losses incurred by them are calculated for a Soviet-made SDN-1000-750 synchronous motor; (2) Permanent shunting by thyristors (G. M. Rosenberry,

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Card 1/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

L 45519-66

ACC NR: AT6016820

Applic. and Ind., 1960, no. 49); this method was experimentally tested on an exciter model driven by a 30-kw synchronous motor ("Engineer L. M. Vaysman took part in the tests"). It is found that the second method has substantial advantages. However, the thyristors suffer overloads as a result of short-circuit conditions during the pull-in period. This necessitates some measures for limiting the short-circuit currents (such as reducing the exciter magnetic flux, inserting resistors into thyristor circuits, etc.). If the synchronous motor is started with the exciter field-circuit closed, the motor starting torque will be lower in the first method or the pull-in torque will be lower in the second method. Orig. art. has: 4 figures and 6 formulas.

SUB CODE: 09 / SUBM DATE: 04Aug65 / ORIG REF: 004 / OTH REF: 002

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

SAID-KHODZHAYEV, Abdu Vakil Said Akilovich, kand. tekhn. nauk,; BRILLIANTOV, L.N., inzh., red.; GVIRTS, V.L., tekhn. red.

[Making and using cinder-lime bricks and blocks] Opyt izgotovleniia i primeneniia zolo-izvestkovykh kirpichei i blokov. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1957. 16 p. (Informatsionno-tekhnicheskii listok, no. 24. Stroitel'naia promyshlennost'). (MIRA 11:12)

(Cinder blocks)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, L.N.

MATVEYEV, Georgiy Vasil'yevich, inzh.; BRILLIANTOV, L.N., inzh., red.; GVIRTS, V.L., tekhn.red.

[Making large brick blocks in building yards; the practice of the Tolmachi Brick Factory] Izgotovlenie krupnykh blokov iz kirpicha na poligone; opyt Tolmachevskogo kirpichnogo zavoda. Leningrad, Leningr.dom nauchno-tekhn.propagandy, 1957. 27 p. (Informatsionno-tekhnicheskii listok, nos.13/14. Stroitel'naia promyshlennost') (MIRA 11:1)

(Brickmaking) (Building blocks)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

LITVINOV, Pavel Petrovich, inzh.; BRILLIANTOV, L.N., inzh., red.; KUBNEVA, M.M., tekhn.red.

[Making and using gray bricks and tiles in the Chinese People's Republic] Iz opyta proizvodstva i primeneniia serogo kirpicha i cherepitsy v Kitaiskoi Narodnoi Respublike. Leningrad, Leningr.dom nauchno-tekhn.propagandy, 1958. 7 p. (Informatsionno-tekhnicheskii listok, no.21. Stroitel'naia promyshlennost') (MIRA 12:8)

(China--Brickmaking) (China--Tiles, Roofing)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

POPOV, Boris Dmitriyevich, inzh.; BRILLIANTOV, L.N., inzh., red.; KUBNEVA, M.M., tekhn.red.

[Constructing raft foundations and installing drains in building apartment houses] Opyt ustroistva preryvistykh fundamentov i soputstvuiushchikh drenazhei na stroitel'stve zhilykh domov. Leningrad, Leningr.dom nauchno-tekhn. propagandy, 1958. 13 p. (Informatsionno-tekhnicheskii listok, no.19. Stroitel'naia promyshlennost').

(MIRA 12:8)

(Foundations) (Drainage, House)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

LIPOVSKIY, Vladimir Mikhaylovich, inzh.; BRILLIANTOV, L.N., inzh., red.; KUBNEVA, M.M., tekhn.red.

[Selecting efficient designs and materials for large partitions] Vybor ratsional'nykh konstruktsii i materialov dlia krupnorazmernykh peregorodok. Leningrad, Leningr.dom nauchno-tekhn. propagandy, 1958. 23 p. (Informatsionno-tekhnicheskii listok, no.15. Stroitel'naia promyshlennost'). (MIRA 12:9)
(Gypsum) (Walls)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

RAKOV, Anatoliy Vasil'yevich; BRILLIANTOV, L.N., inzh., red.; KUBNEVA, M.M., tekhn.red.

[Apartment houses built of silicalcite blocks; practices of the Kirov Plant in Leningrad] Zhilye doma iz silikal'tsita; opyt Kirovskogo zavoda v g.Leningrade. Leningrad. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Stroitel'naia promyshlennost', vyp.4). Pt.2. 1959. 7 p. (MIRA 13:4)

(Leningrad--Apartment houses) (Building materials)

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

8 A.

A 547

2155. Annealing of Plastically-Deformed Rock-Salt Crystals. **N. A. Brilliantow and I. W. Obreimow.** *Phys. Zeits. d. Sowjetunion,* 3. 1. *pp.* 83-91, 1933. *In English.*—A continuation of previous work [see Abstract 1991 (1927)]. Two results now emerge: (1) As annealing proceeds, the planes of principal strain are parallel to (011); (2) proportionality exists between the entire strain and its initial value. F. I. G. R.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

2

CA

Plastic deformation of rock salt. III. N. A. Bil-
lyaulov and I. V. Obreimov. *Physik. Z. Sowjetunion* 6,
587-602(1934).—It is shown by several methods that
seemingly contradictory optical evidence on the one hand
and x-ray evidence on the other are harmonized by
postulating that during plastic deformation of rock salt
by compression normal to a cube face, small rotations of
the cryst. lattice (about [001] in the (110) glide plane) are
the primary effect, which extending over large domains
give the illusion of translation; but that translation is
subordinate if it takes place at all. C. DeL. West

COMMON ELEMENTS

OPEN

MATERIALS INDEX

COMMON VARIABLES INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

SA

A 548

1375. Plastic Deformation of Rock-Salt. N. A. Brilliantow and I. W. Obreimow. *Phys. Zeits. d. Sowjetunion*, 6. 6. pp. 587–602. 1935. *In English.*—It is shown by several methods that during the plastic deformation of rock-salt the crystal lattice is rotated, forming "twins." It is shown that gliding, if it exists at all, plays a smaller rôle than this "twinning."

AUTHORS.

COMMON ELEMENTS

MATERIALS INDEX

A36-5LA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Plastic deformation. IV. N. A. Bulkantov and I. V. Obreimov. *J. Expl. Theor. Phys.* (U. S. S. R.) 7, 878-87(1937); cf. *C. A.* 32, 4221. Large twins of NaCl crystals are produced by exerting pressure of 1 to 4 kg. sq. mm. on large flat pieces of NaCl at angles of a few degrees. Optical-goniometric and x-ray data on the angles between the faces gave good agreement. "Twin crystals" are attributed to plane-by-plane slip rather than to vol. deformation (cf. *Ibid.* 5, 330(1935); cf. *C. A.* 29, 2800[1]). F. H. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

B C

A 1

Plastic deformation of rock-salt. IV. N. A. BRILLIANTOV and I. V. OBREIMOV (Physikal. Z. Sovietunion, 1937, 12, 7—10; cf. A., 1935, 1311).—A method of obtaining large twins of NaCl by plastic deformation is described. Optical measurements of the angle between the facets are compared with X-ray measurements of the angles between the twinned crystals and show that pure translation does not occur. When NaCl is deformed a birefringent stripe appears as boundary between the twins, and this stripe is coloured more intensely by X-rays than the rest of the crystal. J. A. D.

INTERNATIONAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

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3

Luminescence of x rayed rock salt. N. A. Bulkantov and Z. L. Morgenshtern. *J. Exptl. Theoret. Phys. (U. S. S. R.)* 8, 401-3(1938). Luminescence data obtained by far-ultraviolet and x ray irradiation show that NaCl and KCl crystals contain many *F* centers the energies of activation and the stabilities of which depend on the heat treatment of the crystals. **Ultraviolet fluorescence in crystals of alkali halide salts with *F* and *U* centers.** N. N. Fedenev. *Ibid.* 404-9.—A new fluorescence band for NaCl, KCl, NaBr and KBr crystals irradiated by ultraviolet or x-rays is observed. Transitions take place from *F* to *U* levels via a zone II as well as from *F* to *U''* where *U''* − *U'* = 0.5 *v*. Nine figures and tables summarize the exptl. data. **Inner photoelectric effect in potassium iodide and sodium iodide during an irradiation by ultraviolet light.** V. P. Poddubnyi. *Ibid.* 410-11. Nonactivated crystals of KI and NaI show inner photoelectric effects due to transitions from low to conductivity energy levels on irradiation by ultraviolet light of their own absorption spectra. Two figures give the current as a function of wave length. **Spectral distribution of photoelectric current in crystals of alkali halide salts with *U* centers.** *Ibid.* 412-16.—The spectral distribution of direct and depolarized current arising from ultraviolet irradiation in NaCl, NaBr, KCl and KI crystals with *U* centers is shown by 12 graphs. The *U*-center electrons participate in the photoelec. current and are attracted by the *F*, *U'* and *U''* centers. F. H. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX

A 548

SA

50. Plastic deformation. N. Brilliantov and V. Startzev. *J. of Exp. and Theor. Phys. U.S.S.R.*, 9, 5, pp. 592–594, 1939. *In Russian.*—Using optical and X-ray methods the distribution of twins through the volume of deformed NaCl crystals was investigated. It was found that twins go right through the crystal in the direction of the (110) plane. Twins were also found finishing inside the specimen and with an orientation varying along the twin.

D. S.

METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

PA32/49T103

BRILLIANTOV, N. A.

USSR/Physics Sep 48
Temperature - Measurements
Low Temperature Research

"Measurement of the Joule-Thomson Effect of Air and Oxygen at Low Pressures," N. A. Brilliantov, Inst of Phys Problems, Acad Sci USSR, 10 pp

"Zhur Tekh Fiz" Vol XVIII, No 9

Treats under: (1) description of apparatus, (2) description of thermometers, (3) results of measuring Joule-Thomson effect for air, and (4) results of measuring Joule-Thomson effect for oxygen. Submitted 24 Mar 43.

[redacted] 32/49T103

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, N. A.; STRELKOV, V. P.; LIN'KOV, V. P.

"The Production of Platinum Resistance Thermometers," Zhurnal Tekh Fiz, 20, 3, 1950.

U-1763, 17 Mar 52

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, N.A.

AUTHORS: Brilliantov, N. A., and Fradkov, A. B. 57-10-29/33

TITLE: The Degree of Purification of Hydrogen and Helium by Chromatographic Process on Activated Charcoal (Stepen' ochistki vodoroda i geliya khromatograficheskim protsessom na aktivirovannom ugle).

PERIODICAL: Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr 10, pp. 2404-2409 (USSR).

ABSTRACT: According to the isotherm for the adsorption of N_2 and O_2 the degree of the purification of hydrogen and helium of nitrogen and oxygen is classified according to the method of chromatographic separation with activated charcoal. The authors show that by means of the adsorption with activated charcoal at T = 80°K the technical hydrogen of (N_2+O_2) -admixtures can be purified to a concentration below 2.10^{-10}-part, this, however, under the condition of a charcoal regeneration by means of pumping-off. The magnitude of the 2.10^{-10} - part is the limit of sensitivity of the analyser used for the experiments. In the case of a charcoal regeneration by means of blowing the purified gas contains admixtures of below 5.10^{-9} - parts.
There are 1 table, 3 illustrations and 4 Slavic references.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

The Degree of Purification of Hydrogen and Helium by Chromatographic Process on Activated Charcoal. 57-10-29/33

ASSOCIATION: Institute for Physical Problems AN USSR, Moscow (Institut fiziches= kikh problem AN SSSR, Moskva).

SUBMITTED: March 4, 1957.

AVAILABLE: Library of Congress.

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

AUTHORS: Grum-Grzhimaylo, S.V., ~~Brilliantov, N.A.~~ and Sviridova, R.K.

SOV/51-6-2-20/39

TITLE: The Absorption Spectra of Vanadium-Coloured Corundum at Low Temperatures (Down to 1.7°K). ((Spektry pogloshcheniya korunda, okrashennogo vanadiyem, pri nizkikh temperaturakh (do 1.7°K)))

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 2, pp 238-239 (USSR)

ABSTRACT: The authors obtained the absorption spectra of plane-parallel plates, cut parallel to the optical axis, of vanadium-coloured corundum crystals. The plates were of 28 mm thickness. Measurements were made at low temperatures down to 1.7°K. The records obtained (e.g. Fig a on p 239) show clearly that the absorption spectrum consists of a series of vibrational bands, separated by approximately equal distances from one another. The observed structure agrees fully with Krivoglaz and Pekar's theory (Ref 2). The vibrational structure becomes clearer at 1.7°K, compared with the structure obtained by Grum-Grzhimaylo et al. (Ref 1) at 100°K. The number of bands, in the direction of short wavelengths starting from the narrowest vibrational band, increases from 5-6 to 8-9 on the lowering of the temperature from 100° to 1.7°K. Figs 6 and 8 show bands at 293°K in the blue region, obtained using the

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ordinary and the extraordinary waves respectively. Fig 2 shows the bands at the violet end obtained at 1.7°K. Fig 3 shows the ordinary (I) and the extraordinary (II) bands at 1.7, 4.2, 77 and 290° (the temperature increases going down in this figure). Fig 4 is a record of the 4756 and 4757 Å band profiles. In all figures III represents the iron spectraum used for calibration. Acknowledgments are made to A.I. Shal'nikov for his advice. There are 6 figures and 3 Soviet references.

SUBMITTED: June 14, 1958

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

AUTHORS: Grum-Grzhimaylo, S.V., Brilliantov, N.A., Sviridova, R.K. and Dzhamalova, A.S.

SOV/51-6-2-21/39

TITLE: The Absorption Spectra of Rubies at Low Temperatures (Down to 1.7°K) (O Spektrakh pogloshcheniya rubinov pri nizkikh temperaturakh [do 1.7°K])

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 2, pp 240-242 (USSR)

ABSTRACT: The authors used an ISP-51 glass spectrograph to study the absorption spectra of rubies at the temperatures of liquid nitrogen, hydrogen and helium. Measurements were made in polarized light: the spectra were obtained both for the ordinary and extraordinary waves. Samples were in the form of plane-parallel plates of 0.4-2.3 mm thickness, cut parallel to the optical axis of rubies. Colour of rubies is due to two absorption bands (Figs a and b on p 241): one in the visible region and the other at the boundary between the visible and the ultraviolet regions. Figs a and b represent the spectra obtained using the ordinary and the extraordinary waves respectively. For a sample number 88 with 1.24% of Cr_2O_3 a narrow vibrational band in the ordinary light was observed at 5967 Å, and at 5960 Å in the extraordinary light (Figs a, b and g, obtained at 1.7°K). In the violet region two intense, strongly

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The Absorption Spectra of Rubies at Low Temperatures (Down to 1.7°K) SOV/51-6-2-21/39

polarized absorption lines were observed at 4761 and 4746 Å (Figs a, b and v obtained at 1.7°K). The results obtained agree well with Krivoglaz and Pekar's theory (Ref 6). The authors used rubies containing various amounts of chromium. They found that on increase of the amount of Cr the positions of the absorption bands remained the same but the number of observed bands decreased. Acknowledgments are made to A.I. Shal'nikov for his advice. There are 4 figures and 8 references, 6 of which are Soviet, 1 German and 1 Indian.

SUBMITTED: June 14, 1958

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

GRUM-GRZHIMAYLO, S.V.; BRILLIANTOV, N.A.; SVIRIDOVA, R.K.; SUKHANOVA, O.N.

Changes in the absorption spectrum arising when the temperature of some nickel-colored synthetic crystals is lowered. Kristallografiia 5 no.2:288-294 Mr-Ap '60. (MIRA 13:9)

1. Institut kristallografii AN SSSR i Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Nickel sulfate--Spectra)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, N.A.; STAROSTINA, L.S.; FEDOROV, O.P.

Production of molybdenum and tungsten single crystals in the process of crucibleless zone melting. Kristallografiia 6 no.2: 261-264 Mr-Ap '61. (MIRA 14:9)

1. Institut kristallografii AN SSSR.
(Molybdenum crystals--Growth) (Tungsten crystals--Growth) (Melting)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

GRUM-GRZHIMAYLO, S.V.; BRILLIANTOV, N.A.; VOLKOVA, N.V.; DOBRZHANSKIY, G.F.; SVIRIDOV, D.T.

Light absorption spectra of nickel ammonium sulfate monocrystals at temperature from 290° to 1.7°K. Kristallografiia 7 no.1: 84-88 Ja-F '62. (MIRA 15:2)

1. Institut kristallografii AN SSSR i Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Nickel-ammonium sulfate crystals--Spectra)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

24.3300

39692
S/051/62/013/001/014/019
E039/E420

AUTHORS: Grum-Grzhimaylo, S.V., Brilliantov, N.A., Sviridova, R.K., Sukhanova, O.N., Kapitonova, M.M.

TITLE: Absorption spectra of iron-coloured beryls at temperatures from 290 to 1.7°K

PERIODICAL: Optika i spektroskopiya, v.13, no.1, 1962, 133-134

TEXT: Results obtained by the authors are compared with the earlier work of M. Dvir and W. Low (Phys. Rev., 119, 1960, 1587) who investigated one sample of blue aquamarine beryl at temperatures of 290 and 20°K. Measurements were made on the polarization of light in the absorption spectra of six samples of iron beryls with different colours: yellow, green-yellow and blue at temperatures of 1.7, 4.2, 77 and 290°K. The wide absorption band observed at 270°K in the near infrared is accounted for by the presence of Fe^{2+} ions and the absorption band in the ultraviolet with a maximum at about 26780 cm^{-1} by the presence of Fe^{3+} ions. These latter bands in the ultraviolet for

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the iron beryls are not observed in the blue aquamarine. At 77°K very weak narrow absorption bands are observed which become more distinct at 4.2°K. In all samples the extraordinary waves are polarized in the 17190 and 18620 cm^{-1} bands, particularly in the green-yellow beryl no.209 having a maximum thickness of 6.83 mm. There is also a weak unpolarized band at 21520 cm^{-1}. The 18620 and 21520 bands are not given in the work of Dvir and Low. In all samples the extraordinary waves are completely polarized in the 26780 cm^{-1} band. Dvir and Low observed bands at 26500 and 17590 cm^{-1} which are sufficiently near to the authors' at 26780 and 17190 cm^{-1}. No further change in the absorption spectra were discovered on reducing the temperature to 1.7°K. The five absorption bands presented by Dvir and Low in their paper were interpreted as due to transitions between levels in Fe^{3+} ions, separated in the octahedral crystal field. The bands observed near to these of Dvir and Low are interpreted as band 26780 cm^{-1} transition in Fe^{3+} $^6A_0(d\gamma^3 d\gamma^2) \rightarrow {}^4T_2(d\gamma^3 d\gamma^2)$ and the band 17190 cm^{-1} as the $^6A_0(d\gamma^3 d\gamma^2) \rightarrow {}^4T_2(d\gamma^4 d\gamma)$ transition.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

Absorption spectra. ...

S/051/62/013/001/014/019
E039/E420

It is assumed that the narrow bands 18620 and 21520 cm^{-1} not observed by Dvir and Low depend on the presence of Fe^{2+} ions. There is 1 figure.

SUBMITTED: August 9, 1961

[Abstracter's note: Abridged translation.]

Card 3/3

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

S/051/63/014/002/007/026
E039/E120

AUTHORS: Grum-Grzhimaylo, S.V., Brilliantov, N.A., Sviridov, D.T., Sviridova, R.K., and Sukhanova, O.N.

TITLE: Absorption spectra of crystals containing Fe^{3+} for temperatures down to 1.7 °K

PERIODICAL: Optika i spektroskopiya, v.14, no.2, 1963, 228-233

TEXT: The absorption spectra of demantoid-garnet ($Ca_3Fe_2Si_3O_{12}$), vesuvianite ($H_2Ca_{10}(MgFe)Al_4Si_6O_{18}$) and epidote ($Ca_2(AlFe)O(Si\ O_4)[Si_2O_7]OH$) are obtained at temperatures of 290, 77, 4.2 and 1.7 °K. The spectra were obtained in polarized light using a СФ-4 (SF-4) spectrograph for observations at 290 °K, and quartz ИСП-22 (ISP-22) and glass ISP-51 spectrographs at the lower temperatures. In these crystals the color is produced by the isomorphous substitution of Fe^{3+} ions for Al^{3+}. At room temperature the absorption spectra of these crystals show wide bands characteristic of material containing Fe^{3+} ions. At low temperatures these bands are narrower. The position of these bands for demantoid and epidote is shown in the table.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

Absorption spectra of crystals ... S/051/63/014/002/007/026
E039/E120

In the case of vesuvianite three plane parallel plates cut along optical axes were investigated. At room temperature absorption bands with maxima at 23, 520 and 16 100 cm^{-1} were observed and also a very weak unpolarized band at 21 640 cm^{-1}. At 4.2 °K the band is slightly displaced. At 1.7 °K the band maximum is at 21 690 cm^{-1}. These results are compared with the literature and interpreted on the basis of transitions between the ion level and the intracrystalline field.
There are 3 figures and 1 table.

SUBMITTED: August 9, 1962

Card 2/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

Absorption spectra of crystals ... S/051/63/014/002/007/026
E039/E120

Position of narrow absorption bands, cm^{-1}

Демантоид (Demantoid)

I	1.7°	22760 (c)*	22970 (cp)	23060 (cp)	23300 (сл)	23550 (о. сл)	23720 (сл)	23970 (сл)	24450 (cp)
	4.2	(c)	(cp)	(cp)	(сл)	(о. сл)	(сл)	(сл)	(cp)
	77	(c)	(cp)	(cp)	(сл)	(о. сл)	(о. сл)	(сл)	(сл)
II	1.7	25930 (c)	26090 (о. сл)	26270 (cp)	26490 (сл)	26730 (cp)	26980 (о. сл)	27300 (cp)	
	4.2	(c)	(о. сл)	(cp)	(сл)	(cp)	(о. сл)	(cp)	
	77	(c)	(о. сл)	(сл)	(о, сл)	(cp)	—	—	

Эпидот (Epidot)

	band I полоса	band II полоса	band III полоса	band IV полоса (поляризованная **) (polarized)
1.7°	21500 (c)	22100 (c)	22620 (о. сл)	23040 (сл)
4.2	21500 (c)	22100 (c)	22620 (о. сл)	23040 (сл)
77	21300 (cp)	22030 (c)	22620 (о. сл)	—
290	21080 (сл) (p)	21950 (cp) (p)	—	—

c - strong, cp - medium, сл - weak, о. сл - very weak, p - diffuse.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

Brilliantov, N.A.

N.A. Brilliantov, V.N. Kachinskiy, L.S. Starostina. The growing of molybdenum and tungsten single crystals by zone melting and determination of the Hall effect.

Title: Seminar on refractory metals, compounds, and alloys (Kiev, April 1963).

Source: Atomnaya energiya, v. 15, no. 3, 1963, 266-267

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

ACCESSION NR: AP4004153 S/0294/63/001/002/0310/0312

AUTHORS: Starostina, L. S.; Kachinskiy, V. N.; Brilliantov, N. A.

TITLE: Method of growing perfect single crystals of refractory metals

SOURCE: Teplofizika vy*sokikh temperatur, v. 1, no. 2, 1963, 310-312

TOPIC TAGS: single crystal, single crystal growing, perfect single crystal, refractory metal single crystal, crucibleless vacuum zone melting, electron beam zone melting, crystal growing, zone melting, zone refining, refractory metal, crystal growth, single crystal growth

ABSTRACT: Apparatus is described for growing single crystals of refractory metals by zone melting in deep vacuum without a crucible, using a focused electron beam for heating. Multiple zone recrystallization is possible in the equipment. Single crystals of tungsten, rhenium, tantalum, niobium, molybdenum, vanadium, and zirconium were grown. The purity and perfection of the crystals was monitored by measuring the ratio of the specific resistivities at room

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ACCESSION NR: AP4004153

temperature and at liquid helium temperature. Single crystals grown from initial material 99.9% pure had a ratio of 10,000 for tungsten and 3,000 for molybdenum, thus refuting the assumption that transition metals cannot give a large resistance ratio because of the small electron-electron interaction at low temperatures. Measurement of the Hall effect in the very pure specimen of tungsten makes it possible to obtain some information on the Fermi surface of tungsten. Orig. art. has: 2 figures.

ASSOCIATION: Institut kristallografii AN SSSR (Crystallography Institute AN SSSR)

SUBMITTED: 11Jun63 DATE ACQ: 26Dec63 ENCL: 01

SUB CODE: PH, ML NO REF SOV: 003 OTHER: 001

Card 2/3

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

TUMANOV, I.L.; BRILLIANTOV, V.V., redaktor; RYKOV, N.A., redaktor; NADEINSKAYA, A.A., tekhnicheskiy redaktor

[Water supply and air in coal preparation and briquetting factories] Vodo-vozdushnoe khoziaistvo ugleobogatitel'nykh i briketnykh fabrik. Moskva, Ugletekhizdat, 1954. 173 p. (MLRA 8:4)
(Coal handling) (Water-supply engineering) (Ventilation)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, V. V.

Dissertation: "A Hydrodynamic Analysis of the Motion of Liquids in a Pistonless (Pneumatic Slide Valve) Jigging Machine With Increased Frequency of Pulsation." Cand Tech Sci, Moscow Mining Inst imeni I. V. Stalin, 17 Jun 54. (Vechernyaya Moskva, Moscow, 8 Jun 54)

SO: SUM 318, 23 Dec 1954

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

ROZHNOV, Valentin Yermilovich; ROZHNOVA, Yevgeniya Yermilovna; BRILLIANTOV, V.V., redaktor; ROMANOVA, L.A., redaktor; ALADOVA, Ye.I., tekhn.red.

[Gravitational methods of prepairing coal] Gravitatsionnye metody obogashcheniia uglia. Moskva, Ugletekhizdat, 1955. 178 p. (MLRA 9:4)
(Coal preparation)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, V.V.

MITCHELL, David R., editor; DUDAVSKIY, V.I., inzhener [translator]; MARGOLIN, I.Z., kandidat tekhnicheskikh nauk [translator]; BRILLIANTOV, V.V., kandidat tekhnicheskikh nauk, redaktor; GARBER, T.N., redaktor izdatel'stva; ALADOVA, Ye.I., tekhnicheskiy redaktor

[Coal preparation. Translated from the English] Obogashchenie uglia. Perevod s angliiskogo V.I.Dudavskogo i I.Z.Margolina, pod red. I.Z. Margolina i V.V.Brilliantova. [Moskva] Ugletekhizdat, 1956. 705 p. (Coal preparation) (MLRA 10:1)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, V.V.

BRILLIANTOV, V.V., kand.tekhn.nauk

Analyzing agitated water circulation in a high-frequency pulsation jig without piston. Nauch.trudy MGI no.17:193-205 '56. (MIRA 10:11)
(Coal preparation)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, V.V.

ZEMSKOV, V.D., kandidat tekhnicheskikh nauk; BRILLIANTOV, V.V., kandidat tekhnicheskikh nauk; VINOGRADOV, N.N., kandidat tekhnicheskikh nauk.

A misconception constantly appearing in books on ore dressing. Ugol' 32 no.4:47-48 Ap '57. (MLRA 10:5)

1. Moskovskiy gornyy institut.
(Ore dressing)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, V.V., kand.tekhn.nauk

Three-dimensional can mechanisms. Nauch.trudy MGI no.29:205-217 '59. (MIRA 14:4)

(Cams)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, V.V., kand.tekhn.nauk

Angles of pressure in three-dimensional cam mechanisms. Nauch. trudy MGI no.29:219-224 '59. (MIRA 14:4)

(Cams)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

GONCHAREVICH, Igor' Fomich; KRESKOV, Vasiliy Dmitriyevich; KORESHKOV, Viktor Ivanovich; BRILLIANTOV, V.V., otv.red.; GARBOR, P.N., red.izd-va; BOLDYREVA, Z.A., tekhn.red.

[Shaker screens and conveyers] Vibratsionnye grokhoty i konveiery. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 214 p. (MIRA 14:3)

(Screens (Mining)) (Conveying machinery)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, V.V.

Design of the valve system on air-driven pulsating jigs with a high pulsation frequency. Nauch. trudy MGI no. 32:79-87 '60. (MIRA 14:2)
(Ore dressing--Equipment and supplies) (Valves)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

VERKHOVSKIY, I.M.; BRILLIANTOV, V.V.

Calculating the performance parameters of an air-driven pulsating jig. Nauch. trudy MGI no. 32:72-78 '60. (MIRA 14:2)
(Ore dressing--Equipment and supplies)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, V.V.

Power consumption by jigs depending on the design of the drive. Nauch. trudy MGI no. 32:88-92 '60. (MIRA 14:2)
(Ore dressing—Equipment and supplies)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

ZEMSKOV, V.D.; BRILLIANTOV, V.V.; VINOGRADOV, N.N.; SHOKHIN, V.N.
VLAD, P.

Electric measurement methods in investigating wet gravity ore dressing processes. Nauch. trudy MGI no. 32:5-14 '60.
(MIRA 14:2)

(Ore dressing) (Electric measurements)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, V.V., kand.tekhn.nauk

Automation of coal preparation plants. Obog.i brik. ugl. no.21: 132-140 '61. (MIRA 16:5)

(Coal preparation plants--Automation)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

ZHGULEV, Al'bert Sergeyevich; ZEMSKOV, V.D., kand. tekhn. nauk, retsenzent; BRILLIANTOV, V.V., kand. tekhn. nauk, otv. red.; GARBER, T.N., red.izd-va; LAVRENT'YEVA, L.G., tekhn. red.

[Electrovibrating machine operator] Mashinist elektrovibratsionnoi mashiny. Moskva, Gosgortekhizdat, 1963. 91 p. (MIRA 16:12)

(Ore dressing--Equipment and supplies) (Vibrators)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

SKLOVSKAYA, A.A., otv. red.; DREMAYLO, P.G., inzh., zam. otv. red.; KAMINSKIY, V.S., kand. tekhn. nauk, zam. otv. red.; AVETISYAN, A.N., red.; BRILLIANTOV, V.V., kand. tekhn. nauk, red.; GALIGUZOV, N.S., kand. tekhn. nauk, red.; GORLOV, I.P., red.; GREBENSHCHIKOV, V.P., red.; DAVYDKOV, N.I., red.; ZVENIGORODSKIY, G.Z., red.; KARPOVA, N.N., red.; KOZKO, A.I., red.; MARUSEV, P.A., red.; PONOMAREV, I.V., red.; POPUTNIKOV, F.A., red.; SOKOLOVA, M.S., kand. tekhn. nauk, red.; TURCHENKO, V.K., red.; FILIPPOV, V.A., red.; YUSIPOV, A.A., red.; YAGODKINA, T.K., red.; MIRONOVA, T.A., red. izd-va; LOMILINA, L.N., tekhn. red.; MAKSIMOVA, V.V., tekhn.red.

[Technological trends in coal preparation] Tekhnicheskie napravleniia obogashcheniia uglei. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1963. 120 p. (MIRA 16:10)

1. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut po obogashcheniyu i briketirovaniyu ugley. 2. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut po obogashcheniyu i briketirovaniyu ugley (for Yagodkina, Brilliantov).
(Coal preparation)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, Vasiliy Vyacheslavovich, kand. tekhn. nauk; RYKOV, N.A., red. izd-va; SHKLYAR, S.Ya., tekhn. red.; LOMILINA, L.N., tekhn. red.

[Pneumatic drive for pistonless settlers] Pnevmaticheskii privod besporshnevykh otsadochnykh mashin. Moskva, Gosgortekhizdat, 1963. 150 p. (MIRA 16:7)
(Separators (Machines)—Pneumatic driving)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOV, V.V., kand.tekhn.nauk

Automation of the air deive of a jigging machine without a piston. Obog. i brik.ugl. no.28:3-14 '62. (MIRA 17:4)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

MEDVEDEV, A.V.; BRILLIANTOV, V.V.; SEMENOV, I.A.

Preparation of a flotation concentrate prior to dewatering at the coal preparation plant in the Magnitogorsk Metallurgical Combine. Ugol' 40 no.11:63-66 '65. (MIRA 18:11)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOVA, A.N.

BRILLIANTOVA, A.N., assistent

Anatomy of superficial lymph vessels of the upper extremity. Trudy LSGMI 9:111-114 '51. (MIRA 11:1)

1. Kafedra normal'noy anatomii Gorëkovskogo meditsinskogo instituta im. S.M.Kirova (zav. kafedroy - chl-korr. AMN SSSR prof. Zhdanov, D.A.)

(LYMPHATICS) (EXTREMITIES, UPPER)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOVA, M.S.

Some peculiarities in the structure of the incidence of disease, patient visits, and hospitalization of workers and employees of the textile industry. Zdrav. Ros. Feder. 5 no. 3:17-22 Mr '60. (MIRA 14:2)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny imeni N.A. Semashko.

(TEXTILE WORKERS--DISEASES AND HYGIENE)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

ALEKSANDROV, O.A.; BRILLIANTOVA, M.S.

Organizing the polyclinical attendance of industrial workers according to workshops. Zdrav. Ros. Feder. 5 no.10:19-23 O '61. (MIRA 14:10)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny imeni N.A.Semashko (dir. P.I.Kal'yu).
(CLINICS) (INDUSTRIAL HYGIENE)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOVA, Nina Pavlovna; VOLKOV, Genrikh Mikhaylovich; SAMSONOVA, M.T., red.; GOROKHOVA, S.S., tekhn. red.

[Powerful single-bucket excavators in coal mining] Moshchnye odnokovshovye ekskavatory v ugol'noi promyshlennosti. Moskva, Gos. izd-vo "Vysshaia shkola," 1961. 41 p. (MIRA 14:6)
(Excavating machinery)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOVA, N.P.

Relationship between the thickness of coal sections and the labor consumption of operations. Gor. i ekon. vop. razrab. ugol'. i rud. mest. no.1:338-345 '62. (MIRA 16:7)
(Coal mines and mining--Labor productivity)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOVA, L.A.

Blood coagulation in the human fetus. Akush. i gin. no.2:40-45 '65. (MIRA 18:10)

1. Institut akusherstva i ginekologii (direktor - prof. O.V. Makeyeva; nauchnyy rukovoditel' - prof. V.I.Bodyazhina) Ministerstva zdravookhraneniya SSSR i Institut vozrastnoy fiziologii (direktor - chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR prof. A.A.Markosyan) Akademii pedagogicheskikh.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLIANTOVA, Varvara Nikolayevna; SURZHANENKO, A.Ye., nauchnyy redaktor; SIDEL'NIKOVA, E.I., redaktor; KHYNOCHKINA, K.V., tekhnicheskiy redaktor

[Spraying-gun method for decorative painting] Aerograficheskii metod proizvodstva otdelochnykh rabot. Moskva, Vses. uchebno-pedagog. izd-vo Trudrezervizdat, 1955. 67 p. (MLRA 8:7)
(Spray painting)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

YERMILOV, S.S., kand.tekhn.nauk; ANDREYEV, A.S.; BRILLING, A.N.; MAKAROVSKIY, O.D.

Investigating traction properties of an operating tractor train with a booster drive of the semitrailer axle. Avt.prom. 28 no.8: 21-26 Ag '62. (MIRA 16:3)

(Tractor trains--Testing)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

STECHKIN, B.S., akademik, glavnyy red.; SVIRIDOV, Yu.B., zam.otv.red.; APASHEV, M.D., red.; BRILING, N.R., red.; VASIL'YEV, B.N., red.; VOINOV, A.N., red.; ZAGRYAZKIN, N.N., red.; GORSHKOV, G.B., red.izd-va; MAKAGONOVA, I.A., tekhn.red.

[Combustion and carburetion in diesel engines; proceedings of the scientific and technical conference organized by the Engines Laboratory in June 1958] Sgoranie i smesseobrazovanie v dizeliakh; trudy nauchno-tekhnicheskoi konferentsii, provedennoi v iiune 1958 g. Laboratoriei dvigatelei. Moskva, 1960. 238 p. (MIRA 14:2)

1. Akademiya nauk SSSR. Laboratoriya dvigateley. 2. Chlen-korrespondent AN SSSR (for Briling). 3. Laboratoriya dvigateley Akademii nauk SSSR (for all, except Gorshkov, Makagonova).
(Diesel engines)

Deceased 1961

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILING, N.R.

Development of experimental studies for designing a short-stroke high-speed diesel engine. Trudy MADI no.25:5-20 '60. (MIRA 13:10)

1. Chlen-korrespondent AN SSSR.
(Diesel engines--Design)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLING, R. S., Engineer

"Oblique-Angled-System of Projection Surfaces." Sub 27 Jun 51, Moscow Machine Tool and Tool Inst imeni I. V. Stalin

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILLOVA, Dorota

Effect of warm temperature and of relative humidity of the air on the germination of Conidia of the species Cercospora beticola Sacc. Biologia (Bratisl.) 20 no.10:749-762 '65.

1. Ustav experimentalnej fytopatologie a entomologie Slovenskej akademie vied v Ivanke pri Dunaji.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRIL'MAN, Ya. Ye.

"Simplified Method of Determining the Grain Content of Chopped Meat Products" - p. 63

Voyenno Meditsinskiy Zhurnal, No. 10, 1962

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILOV, A.

Multichamber carburetors. Za rul. 21 no.7:16-17 Jl '63. (MIRA 16:8)

1. Vedushchiy konstruktor TSentral'nogo nauchno-issledovatel'skogo instituta toplivnoy apparatury.
(Motor vehicles--Engines--Carburetors)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILOV, V. (Moskva); TETERIN, N.; VERESHCHAK, P., shofer (Kiyevskaya obl.); ~~RAK, D.~~, shofer (Kiyevskaya obl.)

Readers' letters. Pozh.delo 7 no.11:32 N '61. (MIRA 14:11)
(Fire prevention)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRILOV, V.

Mortar preparation stations. Pozh.delo 7 no.12:14 D '61.
(MIRA 14:11)

1. Nachal'nik ob"yedinennoy okhrany tresta "Mosstroy" No.6.
(Construction industry--Fires and fire prevention)

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BRILOV, V.

At Moscow construction sites. Pozh.delo 8 no.8:13-14 Ag '62. (MIRA 15:8)

1. Nachal'nik ob"yedinennoy okhrany Moskovskogo gosudarstvennogo stroitel'nogo tresta 2-go Obshchestroitel'nogo territorial'nogo upravleniya Glavnogo upravleniya po zhilishchnomu i grazhdanskomu stroitel'stvu v gorode Moskve Moskovskogo gorodskogo soveta deputatov trudyashchikhsya.
(Moscow--Building--Fires and fire prevention)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRIL'OVA, N.I. [Bryl'ova, N.I.]

Organization of a leasing center. Farmatsev. zhur. 17 no.1:73-74 '62. (MIRA 15:6)

1. Khar'kovskiy farmatsevticheskiy institut.
(PHARMACY)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRIL'OVA, O.G. [Bryl'ova, O.H.]

Stall and field shelter system for cows. Mekh. sil'. hos. 9 no.4:22-23 Ap '58. (MIRA 11:5)

1.Stalins'ke oblasne upravlinnya sil'skogo gospodarstva.
(Stalino Province--Dairy barns)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRIL'YEVA, N.I. [Bryl'ova, N.I.]; LITVINENKO, M.M. [Lytvnenko, M.M.]

Restoration and development of the drugstore network in Stalino and Lugansk Provinces during the decade 1943-1953. Farmatsev. zhur. 15 no.1:56-61 '60. (MIRA 14:5)

1. Kafedra organizatsii farmatsevtichnoi spravi Kharkivs'kogo farmatsevtichnogo institutu.
(STALINO PROVINCE--DRUGSTORES)
(LUGANSK PROVINCE--DRUGSTORES)

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BRIMAK, I., insh.

Using the "term of four" in laying rubblestone walls. Sel'. stroi. 9 no.4:11 Jl '54. (MIRA 13:2)
(Walls) (Masonry)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRIMAN, I. YA.

AID P - 528

Subject : USSR/Engineering

Card 1/1 Pub. 93 - 3/9

Author : Kashirin, S. G. and Briman, I. Ya., Engineers

Title : Execution of plastering work by a continuous - by stages operation method

Periodical : Sbor. mat. o nov. tekh. v stroi., 7, 9-12, 1954

Abstract : A speedy and efficient method of plastering large areas of wall space is suggested by which special spray-guns for spraying plaster are used and the work of finishing is accomplished by stages by successively following crews. 5 diagrams.

Institution : None

Submitted : No date

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

L 12368-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWA(c)/EWP(z)/EWP(b) IJP(c) MJW/JD/JG/DJ

ACC NR: AP6000578 SOURCE CODE: UR/0236/65/000/002/0249/0254

43
41 B

AUTHOR: Pavaras, A. E. (Pavaras, A.); Brimene, V. P. (Brimiene, V.)

ORG: Institute of Power Engineering and Electrical Engineering, Academy of Sciences Lithuanian SSR (Institut energetiki i elektrotekhniki Akademii nauk Litovskoy SSR)

TITLE: High chromium tool steels. 2. Decreasing of distortion upon quenching

SOURCE: AN LitSSR. Trudy. Seriya B. Fiziko-matematicheskiye, khimicheskiye, geologicheskiye i tekhnicheskiye nauki, no. 2, 1965, 249-254

TOPIC TAGS: tool steel, chromium steel, hardness, tempering

ABSTRACT: Distortion in high-Cr tool steels upon quenching was studied using Kh12M, Kh12F1 (both 12% Cr) and Kh6BF (6% Cr) steels. Data are given for changes in hardness after quenching in oil and in air, as a function of quenching temperature. With increase in quench temperature, the hardness rose, reached a maximum and then fell; the maximum for all steels was 63-65 R_c. The temperature ranges in which the maximum was reached were 1030-1070°C for Kh12F1, 1010-1070°C for Kh12M, and 960-1050°C for Kh6BF. The lowering in hardness for temperatures above the 'maximum' range were the result of the increase in retained austenite. Volume changes after quenching and tempering were determined on cylindrical specimens of 100 mm length and 10 mm diameter. These specimens were heated to the optimum temperature and quenched in air, oil and oil

Card 1/2

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ACC NR: AP6000678

heated to 160°C. Data were given for the change in length as a function of tempering temperature and it was found that air cooling resulted in the smallest dimensional changes: in the case of Kh6BF the length change was 30-35% lower after air cooling while for Kh12F1 steel the change was 2 times lower when compared to oil quenching, with or without heating the oil. This was explained on the basis of decreased tetragonality of the martensite after the slower quench in air. With regard to the warpage of parts made from high-Cr steels, it was estimated that the stress levels reached by oil quenching were up to 6 times greater than by air quenching. To study the influence of crack formation during quenching, specially designed samples were used, in which four holes were drilled about a center hole; each hole was separated a different distance from the perimeter of the center hole. These samples were quenched from 1050°C into water, oil and air respectively. The samples quenched into air did not have cracks. The oil quenched sample had cracks across two of the hole boundaries, separated 0.5 and 1.0 mm from the center hole perimeter. The water quenched sample exhibited cracks across all hole boundaries (up to 4 mm from center hole perimeter). There was even a crack through the sample itself. All samples were quenched to a high hardness (more than 60 R_c). Bend tests showed that air cooling resulted in higher strength than oil cooling even upon tempering. It was recommended that air cooling be used for the heat treatment of high-Cr tool steels. Orig. art. has: 3 figures, 1 table.

SUB CODE: 11/ SUBM DATE: 27Oct64/ ORIG REF: 003/ OTH REF: 001

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRIMERBERG, V.P., inzh.

Use of the structure of a hydroelectric power station as a grounding system. Elek. sta. 33 no.6:44-45 Je '62. (MIRA 15:7)

(Electric currents—Grounding) (Hydroelectric power stations)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRIMBERG, V.P., inzh.

Choice of the power rating of step-up transformers in peak-load hydroelectric power stations. Elek. sta. 34 no.11:58-60 N '63.
(MIRA 17:2)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRIMERBERG, V.P., inzh.

Reply of the author to N.A. Korzhu's article. Elek. sta. 35 no.11:84 N '64. (MIRA 18:1)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000306920011-9

BRIMERBERG, V.P., inzh.

Enclosed 154 kv. power distribution system of the Kakhovka Hydroelectric Power Station. Elek. sta 36 no.4:79-80 Ap '65. (MIRA 18:6)

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