"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', A.N.

Indices of business accounting should contribute to the increase of labor productivity. Put' i put.khoz. 8 no.12:22-23 '64. (MIRA 18:1)

1. Nachal'nik Darnitskov distantsii puti Yugo-Zapadnoy dorogi.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', A.N.

Expanding the use of reinforced concrete. Put' i put. khoz. 9 no.12: 16 '65. (MIRA 19:1)

1. Nachal'nik Darnitskoy distantsii puti Yugo-Zapadnoy dorogi.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

YESHCHENKO, A.A., gornyy inzh.; BONDAR', A.S., student; BONDAR',
V.Ya., student

Increasing the output of the Ingulets strip mine. Sbor. nauch.
trud. KGRI no.15:53-59 '63. (MIRA 17:8)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', A.N.; KIRDA, M.S.; BEZRODNYY, V.I.

Tie fastening with wooden screws. Put' i put. khoz. 9 no.11:15 '65. (MIRA 18:11)

1. Nachal'nik Darnitskoy distantsii Yugo-Zapadnoy dorogi (for Bondar'). 2. Starshiy inzh. Darnitskoy distantsii Yugo-Zapadnoy dorogi (for Kirda). 3. Nachal'nik mekhanizirovannogo uchastka Darnitskoy distantsii Yugo-Zapadnoy dorogi (for Bezrodnyy).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', A.P.; LOTOUS, V.K.; TERESHCHENKO, A.A.

Experience in using combined transportation in strip mines. Gor. zhur. no.6:74-75 Je '65. (MIRA 18:7)

1. Krivorozhskiy TSentral'nyy gornoobogatitel'nyy kombinat.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', A.V., inzh.; ZDORNOV, Yu.A., inzh.; ONOYEV, S.I., inzh.

Using electric cutouts as operational apparatus. Elek.sta. [illegible] (MIRA 14:10)
(Electric cutouts)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, B.

Research on the peripheral-blood reaction produced by induced hyperpyrexia; the role of suprarenal glands in the process of the action of hyperpyrexia on the leukogram.

p. 49 (Academia Republicii Popular Romine. Institutul de Fiziologie Normala si Patologica. Studii Si Certari De Fiziologie. Vol. 1, no. 1/2, Jan./June 1956. Bucuresti, Rumania)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, B., Dr.

Result of ACTH and cortisone therapy of a case of acquired hemolytic anemia. Med.int.,Bucur. 8 no.5:745-748 Sept 56.

1. Lucrare facuta in Clinica medicala I.M.F. a Spitalului Filantropia in Institutul d fiziologie normala si patologica Prof. dr. D. Danielopolu.

(ANEMIA, HEMOLYTIC, therapy
ACTH & cortisone, case report)
(ACTH, ther. use
anemia, hemolytic, acquired, with cortisone)
(CORTISONE, ther. use
anemia, hemolytic acquired, with ACTH)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BRUCKNER, I.; Prof.; BONDAR, B.

The influence of hyperpyrexia upon leucocytes; the role of the adrenal glands. Rumanian M. Rev. 2 no.1:5-14 Jan-Mar 58.

(FEVER, experimental
eff. of short wave hyperthermia on leukocytes in rabbits & rats, relation to adrenal gland funct., review)

(LEUKOCYTES
eff. of short wave hyperthermia in rabbits & rats, relation to adrenal gland funct., review)

(ADRENAL GLANDS, physiol.
relation to leukocyte response to short wave hyperthermia in rabbits & rats, review)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', B.,arkhitektor.

Using garrets of livestock buildings for storing feeds. Sel'. stroi. 13 no. 9:6-8 S '58. (MIRA 11:10)

(Dairy barns)
(Feeding and feeding stuffs--Storage)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, B., arkhitektor; VELIKA, Z., arkhitektor; MARCHENKO, Ye., inzh.

Using continuous-shift method in the loose housing of cows.
Sil'.bud. 10 no.8:14-17 Ag '60. (MIRA 13:8)
(Dairy barns)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', Boris Grigor'yevich [Bondar, B.H.]; SHKURATOV, O.I., kand. ekonom.nauk, glavnyy red.

[Role of the state monopoly of foreign trade in the creation of the economic and technical foundation of socialism in the U.S.S.R.] Rol' derzhavnoi monopolii zovnishn'oi torhivli u stvorenni material'no-vyrobnychoi bazy sotsializmu v SRSR. Kyiv, 1959. 37 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.2, no.5) (MIRA 12:9)
(Russia--Commercial policy)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

9.9130

S/169/60/000/007/014/016
A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 7, p. 204, # 8469

AUTHORS: Kashcheyev, B.L., Bondar', B.G.

TITLE: Investigation of the Ionosphere During the Solar Eclipse on June 30, 1954

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1958, Vol. 20, pp. 77-79

TEXT: On June 30, 1954, a vertical sounding of the ionosphere was carried out in Khar'kov (phase of eclipse-98%) for the investigation of the variation of the active altitudes at fixed frequencies. Essential variations of the active altitudes were detected during the eclipse, but the sporadic E_s layer prevented the continuous observation of reflections from the F layer.

Author's abstract.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

CHEPURA, V.F.; KASHCHEYEV, B.L.; BONDAR', B.G.

Study of the directional features of the scattering of microwave signals by meteor trails. Elektrosviaz' 16 no.11:3-10 N '62. (MIRA 15:11)

(Meteors) (Microwaves)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

KASHCHEYEV, B.L.; CHEPURA, V.F.; BONDAR', B.G.

Study of the dispersion of ultrashort radio wave signals by meteor trails. Elektrosviaz' 17 no.6:2-9 Je '63. (MIRA 16:7)

(Radio waves)
(Ionospheric radio wave propagation)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

ACC NR: AP6021497 SOURCE CODE: UR/0413/66/000/011/0148/0149

INVENTOR: Bondar', B. P.

ORG: None

TITLE: A unit for thermal protection of horizontally located tube sections in hypersonic shock tubes. Class 47, No. 182556

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 148-149

TOPIC TAGS: shock tube, thermal insulation

ABSTRACT: This Authors Certificate introduces: 1. A device for the thermal protection of tube sections in hypersonic shock tubes. The unit consists of an internal tube for flow of the hot gas, and an external tube. These tubes are concentric. The temperature field of the gas flow is kept uniform, while stresses in the material and deformation of the external tube are minimized by filling the upper section of the annulus between the internal and external tubes with a heat-insulating material and placing metal shields at the bottom. 2. A modification of this device for releasing the pressure in the internal tube by uniform perforation of its walls.

Card 1/2 UDC: 662.998

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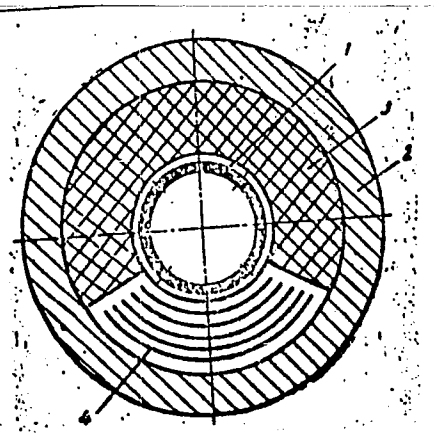
"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

ACC NR: AP6021497



1—inner tube; 2—outer tube; 3—heat-insulating layer; 4—metal shields

SUB CODE: 20/ SUBM DATE: 07Apr65

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

CHEKAYDA, S.G., kand. tekhn. nauk; TRACHUK, S.V., inzh.; BONDAR', B.P., inzh.; KRUKOVSKIY, L.N., inzh.

Photoelectric level regulators. Khim. mashinostr. no.1:136-139 '65. (MIRA 18:9)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, Constantin

Studies on the granulometry of the alluvial deposits in suspension at the mouth of the Sulina. Studii hidrol 3:97-126 '62.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

RONDAR, Constantin; EMANOIL, Gheorghe

Contributions to the study of the agitation of the Black Sea on the Rumanian littoral. Studii hidrol 4:89-160 '63.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, Constantin, ing.

The Rumanian-Soviet Oceanographic Expedition along the Danube Delta coast. Meteorologia hidrol gosp 6 no.1:69-70 '61.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, C.V.; FILIP, I.

Contributions to the study of the Black Sea levels. Studii hidrol 4:[illegible]70 '63.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

Name: BONDAR, E.

Dissertation: Synthesis and polymerization of esters of alphachloracrylic acid and investigation of the polymers obtained

Degree: Cand Tech Sci

Defended at ~~Affiliation~~: Min Higher Education USSR, Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendeleyev

Publication ~~Defense~~ Date, Place: 1956, Moscow

Source: Knizhnaya Letopis', No 51, 1956

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

TRACHUK, S. V., kand. tekhn. nauk; CHEKAYDA, S. G.[Chekaida, S. H.]; BONDAR, B. P.; ZAKHARCHENKO, M. Yu.

Automation of a two-stage spray evaporating-drying unit. Khim. prom.[Ukr.] no.1:74-75 Ja-Mr '62. (MIRA 15:10)

1. Institut avtomatiki Gosplana UkrSSR.

(Drying apparatus) (Automatic control).

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', E. P., SHNUTER, M. F., BIBIKOVA, V. A., BURDELOV, A. S., ZHURAVLEVA, V. I., KALUZHENOVA, Z. P., MARTINEVSKIY, I. L., MOROZOVA, I. V., PEYSAKHIS, L. A., ROSSINSKAYA, O. B., SVIRIDOV, G. G.

"Certain laws governing the plague epizootic in the south Balkhash area (Ili-Karatal interfluve)." p. 277

Desyatoye Soveshchaniye po parazitologicheskim problemam i prirodnoochagovym boleznyam. 22-29 Oktyabrya 1959 G. (Tenth Conference on Parasitological Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-Leningrad,, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

Central Asiatic Antiplague Inst./Alma Ata

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

NAZAROV, I.; BONDAR', F.

Water-pumping stations. Inform.biul. VDNKH no.4:20 Ap '65. (MIRA 18:5)

1. Glavnyy inzh. instituta Soyuzvodokanalproyekt (for Nazarov).
2. Nachal'nik gidrotekhnicheskogo otdela No.7 Soyuzvodokanalproyekta (for Bondar').

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

ABRAMOV, N.N., prof., doktor tekhn.nauk; GENIYEV, N.N., prof., doktor tekhn.nauk [deceased]; PAVLOV, V.I., dotsent, kand.tekhn.nauk [deceased]. Prinimali uchastiye: KLYACHKO, V.A.; KASTAL'SKIY, A.A.; POKROVSKIY, V.N., MOSHNIN, L.F., prof., retsenzent; MINTS, D.M., prof., retsenzent; ABRAMOV, S.K., dotsent, retsenzent; BONDAR', F.I., inzh., retsenzent; KROTOV, I.N., kand.tekhn.nauk, nauchnyy red.; SMIRNOVA, A.P., red.izd-va; MEDVEDEV, L.Ya., tekhn. red.; SOLNTSEVA, L.M., tekhn.red.

[Water-supply engineering] Vodosnabzhenie. Izd.3., perer. Moskva, Gos.izd-vo lit-ry po strcit., arkhit. i stroit.materialam, 1958. 578 p. (MIRA 12:5)

(Water-supply engineering)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

GRATSIANSKIY, Mikhail Nikolayevich, dots., kand. tekhn.nauk; ALEKSANDROVSKIY, Yuriy Vladimirovich, dots., kand. tekhn. nauk; IZOTOV, B.S., dots., retsenzent; SUROV, I.Ye., inzh., retsenzent; BONDAR', F.I., inzh., retsenzent; SAMSONOVA, M.T., red.; VORONINA, R.K., tekhn. red.

[Hydrology and hydraulic structures] Gidrologiia i gidrotekhnicheskie sooruzheniia. Moskva, Gos. izd-vo "Vysshaia shkola," 1961. 351 p. (MIRA 15:3)

1. Kafedra gorodskogo stroitel'stva i khozyaystva Leningradskogo inzhenerno-stroitel'nogo instituta (for Izotov).
(Hydraulic engineering)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', F.I.; YERESNOV, N.V.; SEMENOV, S.I.; SUROV, I.Ye.; KONYUSHKOV, A.M., kand. tekhn. nauk, nauchn. red.; SMIRNOVA, A.P., red.; GOL'BERG, T.M., tekhn. red.

[Special water-intake structures] Spetsial'nye vodozabornye sooruzheniia. [By] F.I.Bondar' i dr. Moskva, Gosstroizdat, 1963. 367 p. (MIRA 17:1)

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', G.

BONDAR', G. Sel'skoe khoziaistvo Belorussii na putiakh sotsialisticheskoi rekonstruktsii. Moskva, Sel'khozgiz, 1931. 61 p. DLC: Unclass.

So: LC, Soviet Geography, Part II, 1951/Unclassified

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', G., agronom

Accelerated method of determining soil acidity. Nauka i pered. op. v sel'khoz. 8 no.1:39-40 Ja '58. (MIRA 11:2)

1.Kitsmanskiy sel'skokhozyaystvennyy tekhnikum, Chernovitskoy oblasti.

(Soil acidity)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

"Aluminum supporting structures to open-air switchboards."
Reviewed by Gyorgy Bodnar. Villamossag 8 no.1:27-28 Ja '60.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

"A new type cable insulated with mineral substances." Reviewed by Gyorgy Bodnar. Villamossag 8 no.1:28-29 Ja '60.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

"Ultrasonic soldering of aluminum" by Thomas I. Scarpa. Reviewed by Gyorgy Bodnar. Villamossag 8 no.1:29 Ja '60.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy; GREGOR, Aladar

News. Villamossag 8 no.1:31-32 Ja '60.

1. "Villamossag" foszerkesztoje (for Gregor).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

"Use of radar in highway transportation." Reviewed by Gyorgy Bodnar. Villamossag 8 no.5/6:184-185 My-Je '60.

1. "Villamossag" szerkeszto bizottsagi tagja.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

"A 500 meter high television tower in Moscow." Reviewed by Gyorgy Bodnar. Villamossag 8 no.5/6:185 My-Je '60.

1. "Villamossag" szerkeszto bizottsagi tagja.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

"Dampproof electric flashlight apparatus." Reviewed by Gyorgy Bodnar. Villamossag 8 no.5/6:186 My-Je '60.

1. "Villamossag" szerkeszto bizottsagi tagja.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

News. Villamossag 8 no.5/6:187-189 My-Je '60.

1. "Villamossag" szerkeszto bizottsagi tagja.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

"Electric household appliances in the United States" by W.Strahringer. Reviewed by Gyorgy Bodnar. Villamossag" 8 no.8/9:280-282 Ag-S '60.

1. "Villamossag" szerkeszto bizottsagi tagja.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

"Electric ear for detecting methane bursts." Reviewed by Gyorgy Bodnar. Villamossag" 8 no.8/9:282 Ag-S '60.

1. "Villamossag" szerkeszto bizottsagi tagja.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

Projector combined with a magnetophone. "Villamossag" 8 no.10: 317 O '60.

1. "Villamossag" szerkeszto bizottsagi tagja.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

"Duplicates within 2 minutes." Reviewed by Gyorgy Bodnar.
"Villamossag" 8 no.10:317 O '60.

1. "Villamossag" szerkeszto bizottsagi tagja.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

"Manual electric engraving device." Reviewed by Gyorgy Bodnar. "Villamossag" 8 no.10:317 O '60.

1. "Villamossag" szerkeszto bizottsagi tagja.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy; TURAN, Gyorgy

News. "Villamossag" 8 no.10:320 O '60.

1. "Villamossag" szerkeszto bizottsagi taja (for Bodnar).
2. "Villamossag" szerkesztoje (for Turan).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

Electrohydraulic hoisting device. Villamossag 8 no.11:347-348 N '60.

1. "Villamossag" szerkeszto bizottsagi tagja.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

"Exchange of experineces with the Soviet Union in the field of supplying electric power for agriculture" by Dipl.Ing. J.H. Friedrich and Dipl.Ing. G. Schwenker. Reviewed by Gyorgy Bodnar. Villamossag 10 no.9:280-281 S '62.

1. "Villamossag" szerkeszto bizottsagi tagja.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BODNAR, Gyorgy

Technical novelties. Villamossag 10 no.10:315-318 O '62.

1. "Villamossag" szerkeszto bizottsagi tagja.

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L 10003-63 EWT(1)/EWG(k)/FCC(w)/BDS/EEC-2/ES(t)-2/ES(v)—
AFFTC/ASD/ESD-3/APGC/SSD—Pz-4/Pg-4/Pi-4/Pl-4/Pe-4—GW
ACCESSION NR: AP3001132 S/0106/63/000/006/0002/0009

87

AUTHOR: Kashcheyev, B. L.; Chepura, V. F.; Bondar', B. G.

TITLE: An investigation of UHF radio signal scattering by meteor trails

SOURCE: Elektrosvyaz', no. 6, 1963, 2-9

TOPIC TAGS: radio signal scattering, meteor trails, UHF oblique scattering, duration distributions, transmission speed

ABSTRACT: An experimental study of the oblique scattering of ultrashort waves by meteor trails was carried out over a 900-km path. Both 31.2- and 48-Mc transmitters were used in the measurements. The 31.2-Mc transmitter was modulated by a code consisting of two pulses with durations of 20 + 10 microsec and having a peak power of 30 kw at 50 cps prf. The 48-Mc transmitter was modulated by 100-cps square waves with peak power of 1 kw. The bandwidths of the 31.2- and 48-Mc receivers at the 3-db level were 225 kc and 600 cps, respectively. Both transmission and reception were carried out with the aid of Yagi antennas placed at a height of 1.5 wavelengths above the ground. The

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L 10003-63
ACCESSION NR: AP3001132

total duration of meteor signals for 31.75 hours of observations was 3026 sec, while the total duration of "repeated" signals, i.e., signals shifted in time which are caused by scattering and which accompany the main signal, was 280 sec for the same period of time. The maximum observed time shift of repeated signals was 770 microsec. Since the degree of allowable distortion due to repeated signals determines telegraphic transmission speeds, the 770-microsec time shift would limit this speed to 650 band. Certain statistical regularities which characterize the duration and amplitude distribution of signals, time intervals between signals, and the dependence of the signal on the time of day and season were also studied. Orig. art. has: 12 figures and 3 formulas.

ASSOCIATION: none

SUBMITTED: 26Dec61 DATE ACQ: 01Jul63 ENCL: 00

SUB CODE: 00 NO REF SOV: 000 OTHER: 004

Card 2/2

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', G.D.

Introduction of new techniques to the Korystovo Alcohol Plant.
Spirt.prom. 26 no.8:35-36 '60. (MIRA 13:11)
(Korystovo--Alcohol)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, G. G.

Technology

Experience in increasing the efficiency of locomotives. Moskva, Transzheldorizdat, 1945.

9. Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

24 (

SOV/21-59-6-7/27

AUTHOR: Bondar', G. G.

TITLE: Determination of Bending Moments with Free Vibrations of Gently-Sloping Parabolic Arches on Elastic Supports

PERIODICAL: Dopovidi Akademii Nauk Ukrains'koi RSR, 1959, Nr 6 pp 600 - 604 (USSR)

ABSTRACT: The author presents a new method for determining bending moments with free vibrations of flatly-sloping parabolic arches on elastic supports. The calculation is based on solving the differential equation of dynamic moments. Equations of frequencies, fundamental functions and general expressions for bending moments are obtained for the case of symmetrical and asymmetrical forms of vibrations. For the beginning, the author considers steady vibrations of symmetric, parabolic, gently sloping ($\frac{f}{l}$ up to 0.15) arches, in which the inertia moments in crosscuts change in accordance with the law $J_3 = J_x \cos \varphi_x$, where J_3 is crosscut inertia moment in lock, J_x is crosscut inertia

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moment at a distance x from the lock, φ is an angle between the tangent of arch axis and the horizontal line at intersection with abscissa x. The arch ends (see drawing on page 600) are elastically resting and fixed on supports, so that between the forces of cross section thrust and displacement of cross sections there exist the following dependences:

$$\varphi(-\ell/2) = -C^{\varphi}M(-\ell/2),\ V^{x}(-\ell/2) = -C^{x}N(-\ell/2),\ V^{y}(-\ell/2) =$$

$$C^{y}Q(-\ell/2),\ \varphi(+\ell/2) = C^{\varphi}M(\ell/2),\ V^{x}(\ell/2) = C^{x}N(\ell/2),$$

$$V^{y}(\ell/2) = -C^{y}Q(\ell/2),$$

where C^{φ}, C^{y}, C^{x} are true coefficients of pliability of supports to twisting and displacement forces in vertical and

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horizontal directions, characterizing the supports' rigidity; V^y and V^x are vertical and horizontal displacements; $d\varphi$, d_y and d_x are reduced pliability coefficients. Having made a static calculation of the arch, the author obtains the equation (2), where

$$n = 1 + \frac{45 i^2}{4f^2}, \quad i = \sqrt{\frac{J_3}{F}}, \quad u = \frac{x}{l}$$

A steadily vibrating arch experiences the influence of vertically-distributed inertia forces, the intensity of which is $q(x,t) = m\ddot{V}^y(x,t)$. Horizontal inertia forces are neglected as being too small. The arch inertia load thrust is expressed as (3), where $\eta(s)$ (linear form of thrust influence) =

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$$\eta(s) = A\left(\frac{s}{l}\right)^4 - B\left(\frac{s}{l}\right)^2 + D.$$

Bending moments arising in the process of free vibrations can be expressed as $M(x,t) = M_\sigma(x,t) - H(t) \cdot y_1(x)$ (4) where $M_\sigma(x,t)$ is the bending moment, $y_1(x)$ is the height of arch axis over the level of supports,

$$y_1(x) = f - \frac{4f}{l^2}x^2. \qquad (5)$$

Having introduced in expression (4) the dependencies (3) and (5), and having twice differentiated the new expression by x, the author obtained the expression (6), writes it, on the basis of Zhuravskiy dependency: $M''_\sigma(x,t) = m\ddot{V}y(x,t)$ in the form of (7) and then, applying Fourrier's (Furye) method,

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formulates the bending moments and caving-in in the form of (8). Hence, the author by a series of calculations, differentiations, substitutions of expressions one for another, etc., proceeds to formulating the fundamental function of oblique-symmetrical vibration forms as

$$\Phi_M = \sin kx\,(\mathrm{ch}\,\gamma + \psi\,\mathrm{sh}\,\gamma) + \mathrm{sh}kx \cdot$$

$$\cdot(\cos\gamma - \psi\sin\gamma) \qquad (24)$$

where γ represents the root equation (23). By way of putting into (8) the values of Φ_M з (22) or (24), or (11), the author formulates the final expressions of bending moments:

for symmetric vibrations $M(x,t) = [(\mathrm{sh}\,\gamma + \psi\,\mathrm{ch}\,\gamma)\cdot$

$\cdot \cos kx - (\sin\gamma + \cos\gamma)\,\mathrm{ch}kx] \times [A_1 \sin\theta t + A_2 \cos\theta t]$;

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SOV/21-59-6-7/27

Determination of Bending Moments with Free Vibrations of Gently-Sloping Parabolic Arches on Elastic Supports

for oblique-symmetric ones $M(x,t) = [(\mathrm{ch}\,\gamma + \psi\,\mathrm{sh}\,\gamma)\sin kx + (\cos\gamma - \psi\sin\gamma)\mathrm{sh}\,kx] \times [A_1 \sin\theta t + A_2 \cos\theta t]$, wherein coefficients A_1 and A_2 are ascertained from the initial conditions. Assuming that $d_x = d_y = 0$; $d\varphi = \infty$, or $d = 0$ (in equations (21) and (23)), it is possible to form frequency equations for a double-hinged or a hingeless arch in which the expressions (25) and (26) are transformed into expressions applicable to calculation of bending moments in double-hinge and hingeless arches. There is 1 diagram.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Institute of Metallurgy)

PRESENTED: By G. N. Savin, Member, AS UkrSSR

SUBMITTED: January 21, 1959

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18.5100,25.5000

77466
SOV/133-60-1-27/30

AUTHORS: Bondar', G. G., Zdornov, I. V. (Engineers)

TITLE: Calculations of Metal Saving in Introducing New Standards for Rolled Structural Steel

PERIODICAL: Stal', 1960, Nr 1, pp 82-84 (USSR)

ABSTRACT: Much attention has been given to metal saving in determining the economic expediency of new-type rolled shapes. Therefore, the authors propose a method of calculating the saving of metal which results from the substitution of enlightened beams according to State Standards (GOST 8239-56) for standard I-beams (OST 10016-39) using the following equation:

$$\Delta = \frac{G - G_1}{G} \times 100,$$

where G and G_1 = weight of 1 running meter of the old and new profile respectively, in kg. Since old profiles

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may be replaced by several new profiles of different sizes (indicated by numbers), $G_{1_{mean}}$ (mean value of the weight of 1 running meter of the new profiles) should be substituted in the above equation. Calculating the mean saving of metal in replacing profile Nr 16 by enlightened profiles Nrs 16 and 18 (see Fig. 2) the authors assume that distribution of section modulus W is uniform within the entire range of replacement. This assumption may not be absolutely precise, but deviations from uniformity of W in different profiles would increase or decrease saving very slightly. $G_{1_{mean}}$ is determined from (see Fig. 2):

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Calculations of Metal Saving in Introducing New Standards for Rolled Structural Steel

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SOV/133-60-1-27/30

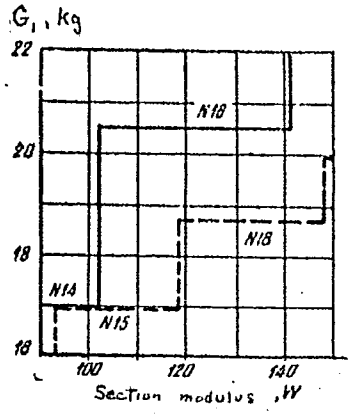

Fig. 2. Diagrammatic representation of replacement of standard I-beam profile Nr 16 (continuous line) by enlightened profile (dotted line) according to the section modulus.

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$$G_{1_{mean}} = \frac{G_1^{16}(W_1^{16} - W^{14}) + G_1^{18}(W^{16} - W_1^{16})}{W^{16} - W^{14}} =$$

$$= \frac{16,9(118 - 102) + 18,7(141 - 118)}{141 - 102} \approx 17,9 \text{ kg}. \quad (2)$$

Subscripts indicate the size numbers of the profiles. With reference to the use of enlightened I-beams the authors arrive at the following conclusions: (1) The 14% saving calculated by L. L. Zusman (see "Saving of Ferrous Metals," Metallurgizdat, 1958 (Ref 4) and Stal', 1956, Nr 12 (Ref 5)) approximates actual possible economy. (2) A saving of metal amounting to 10-13% for the entire Soviet Union is feasible. (3) Mean metal saving is somewhat higher by including lettered profiles (11.8%), indicating that the selection of lettered profiles in the variety of shapes according to the new standard has become more rational. In a footnote, the editor estimates a saving in excess

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Calculations of Metal Saving in Introducing New Standards for Rolled Structural Steel

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of 11.8%, since the authors fail to consider the additional widening of the flanges of enlightened profiles. There are 2 figures; 3 tables; and 5 Soviet references.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', G. G., CAND TECH SCI, "OSCILLATIONS OF PARABOLIC ARCS ON ELASTIC BEARINGS." DNEPROPETROVSK, 1960. (MIN OF RAILWAYS. DNEPROPETROVSK INST OF ENGIN TECHS OF RAILROAD TRANSP). (KL, 2-61, 207).

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

KANDELIS, V.A.; POPKOVA, T.F.; BONDAR', G.V.

Case of hemangioendothelioma of the spleen. Klin. khir. no.1:60-61 '65. (MIRA 18:8)

1. Propedevticheskaya khirurgicheskaya klinika No.1 (zav. - dotsent A.M.Ganichkin) Donetskogo meditsinskogo instituta na baze Oblastnoy klinicheskoy bol'nitsy imeni Kalinina.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, I.

Using sea shells in making lime. Sil'.bud. 8 no.2:14-15 F '58. (MIRA 13:7)

1. Starshiy inzh.-tekhnolog Zaporozhskogo oblastnogo upravleniya po stroitel'stvu v kolkhozakh.

(Lime) (Shells)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, I.

Use only local materials in building. Sil'.bud. 10 no.5:6-7 My '60. (MIRA 13:7)

1. Nachal'nik upravleniya stroitel'stva Zaporozhskogo oblastnogo upravleniya sel'skogo khozyaystva.
(Zaporozh'ye Province--Building materials)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, I.

The production of clay tile and reinforced concrete is increasing. Sil'. bud. 12 no.1:13-14 Ja '62. (MIRA 16:12)

1. Nachal'nik upravleniya stroitel'stva Zaporozhskogo oblastnogo ob"yedineniya "Sil'gosptekniki."

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BONDAR, I.

We are building town-like villages. Sil' bud. 11 no.3:5-6 Mr '61. (MIRA 14:2)

1. Nachal'nik Upravleniya stroitel'stva Zaporozhskogo oblsel'khozupravleniya.

(Zaporozh'ye Province--City planning)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

1. BONDAR', I.

2. USSR (600)

4. Coal-Mining Machinery

7. Valuable suggestions of the Kuzbass innovators. Mast. ugl. 1, no. 2, 1952.

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

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, I.

Collective farms build large poultry houses. Sil'. bud. 12 no.5:3-4 My '62. (MIRA 16:4)

1. Nachal'nik upravleniya stroitel'stva Zaporozhskogo oblastnogo ob"yedineniya "Sil'gosptekhnika".
(Poultry houses and equipment)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, I.

Sawdust-cement slabs for built-up roofs. Sil'. bud. 13 no.2:18 F '63. (MIRA 16:2)

1. Nachal'nik otdela stroitel'stva Zaporozhskogo oblastnogo upravleniya proizvodstva i zagotovok sel'skokhozyaystvennykh produktov.

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JAVORKA, Ede; BONDAR, Istvan

Which one is the most suitable television antenna designed by the Telecommunication Engineering Enterprise? Pt.3. Radiotechnika 15 no.6:222-223 Je '65.

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23507

H/009/61/000/004/003/005
D018/D105

9,1911

AUTHOR: Bondár, István, Member of the Society (see Association)

TITLE: Determining the size of Yagi television and UHF receiving antennas

PERIODICAL: Magyar Hiradástechnika, no. 4, 1961, 150-157

TEXT: The article gives a comprehensive review of the Yagi antenna designs in general and summarizes the experience in antenna design gained by the Hiradótechnikai Vállalat (Communication Engineering Enterprise) in Budapest during recent years. Due to complexity of formulas for calculating the feeding point impedance and radiation impedance of Yagi antennas, experimental results are preferred as a basis for antenna designs. During the last 3 years, the HTV developed 7 types of television and UHF receiving antennas, a total of 130 in all. Low-frequency antennas are produced with T-feed active elements and high-frequency antennas with half-wave folded dipoles; the total length of T-arms of 2-element low-frequency antennas is half the length of active elements, while that of 4-element

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23507
H/009/61/000/004/003/005
Determining the size of Yagi television D018/D105

antennas is about 43% the total length of active elements. The reflector of 2-element antennas is about 11%, and of 4-element antennas, 4% longer than the active elements; the first director of 4-element antennas is 15% shorter, and the second, 22% shorter, than the active elements. The bandwidth of these antennas is 8 mc/sec at the standing wave ratio of $\rho \leqq 2.2$, with an antenna gain of 3.6 and 5.3 db, respectively. The reflector of broadband antennas produced by the HTV is 30% longer and the first director 15% shorter than the active elements. These antennas have a bandwidth of 56 mc/sec at a standing wave ratio of $\rho \leqq 2$ and an average gain of 8 db. The reflector of 10-element antennas for 2-channel television reception is 17% longer and the first director 8% shorter than the active elements; the bandwidth is 16 mc/sec at a standing wave ratio of $\rho \leqq 2$ and the antenna gain, 10.5 db. The reflector of the 2-channel, 15-element "Domino" antenna is 50% longer and the first director 13% shorter than the active elements; the bandwidth is 16 mc/sec at a standing wave ratio of $\rho \leqq 2$ and the average antenna gain 11.5 db. The relative

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H/009/61/000/004/003/005
D018/D105

Determining the size of Yagi television ....

electric length of this antenna is about 2.5. The 4-element "Domino" antennas with a gain of 5 db can also be used for building 7, 9, 12 and 15-element antennas without altering the bandwidth and the feeding point impedance. The 7-element antenna which can be built by adding 3 directors to the 4-element antenna, has a gain of 8.5, the 9-element antenna built by the same principle a gain of 9.5 and the 12-element antenna a gain of 10.5 db. The forward -to-backward ratio of 2-element antennas produced by the HTV is 10.5, of 4-element antennas, 15.5 of broadband antennas 23.4 and of 10-element antennas 24 db. Fig. 11 shows the directional characteristics of the 10-element TETA C 810/101 antenna produced by the HTV. During the last 3 years the HTV carried out around 1,000 measurements which proved that (1) the working range of an antenna is determined by the active element; (2) the gain is in proportion to the relative electric length and the number of elements; (3) the bandwidth depends primarily on the length of director and its distance from the active element; (4) the forward-to-backward ratio can be adjusted through the length

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

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H/009/61/000/004/003/005
D018/D105

Determining the size of Yagi television ....

of the reflector and its distance from the active element and (5) the feeding point impedance is affected by the active element, the first director and the reflector. There are 11 figures and 8 references: 1 Soviet-bloc and 7 non-Soviet-bloc. The four most recent references to English-language publications read as follows: R.G. Medhurst: Dipole Aerials in Close Proximity. Wireless Engineer, Dec. 1951, p 356-358; L. Lewin: Mutual Impedance of Wire Aerials. Wireless Engineer, Dec. 1951, p. 352-355; G. Barzilai: Mutual Impedance of Parallel Aerials. Wireless Engineer, Nov. 1948, p. 343-352; S.A. Schelkunoff and H.T. Friis: Antenna, Theory and Practice. John Wiley and Sons, Inc. 1952.

ASSOCIATION: Hiradástechnikai Tudományos Egyesület (Communication Scientific Society) and Hiradótechnikai Vállalat (Communication Engineering Enterprise).

Card 4/5

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, Istvan.

Dimensioning of Yagi system television and ultrashort wave receiving antennas. Magy hir techn 12 no.4:150-157 Ag '61.

1. Hiradastechnikai Tudomanyos Egyesulet tagja; Hiradastechnikai Vallalat.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

JAVORKA, Ede; BONDAR, Istvan

Which is the best television antenna available at the Telecommunication Engineering Enterprise? Radiotechnika 15 no.4:130-131 Ap '65.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', I. A. Cand Chem Sci

Dissertation: "Transformations in the Iron-Chromium-Nickel System at Solid State." 18/10/50

Inst of General and Inorganic Chemistry imeni N. S. Kurnakov.

SO Vecheryaya Moskva
Sum 71

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, I. A.

Chemical Abstracts
May 25, 1954
Metallurgy and Metallography

The chemical nature of the σ-phase in the system iron-chromium. A. T. Grigor'ev, N. M. Gruzdeva, and I. A. Bondar (N. S. Kurnakov Inst. Gen. Inorg. Chem., Acad. Sci. U.S.S.R., Moscow). *Izvest. Sektora Fiz.-Khim. Anal., Inst. Obshchei Neorg. Khim., Akad. Nauk S.S.S.R.* 21, 132–43(1952).—The investigated binary system Fe-Cr was part of a ternary Co-Cr-Fe system and of a Fe-Cr system contg. 2% Ni. The alloys studied were homogenized at 1200° for several hrs. They were then annealed at constantly decreasing temps. for constantly longer periods starting with 1000° for 6 days and extending to 12 days at 500°. Addnl. anneal was given the alloys at temps. below the α and α + σ boundary down to room temp. at 100° intervals. In this range the duration was 20–30 days for each step. Thus prepd. specimens were subjected to thermal, dilatometric, microscopic, hardness, and magnetic transformation analyses. A homogenous σ-phase extended from 46–47 to 50–51% Cr. In the presence of 2% Ni the σ-phase extended between 44 and 53% Cr. The boundary between the areas of α and α + σ on the Fe side is along approx. 30.5 at. % Cr. The highest hardness was observed in alloys contg. 49.98 at. % Cr. This is within the area of homogenous σ-phase. The absence of a singular point on the hardness curve for the Fe:Cr at. ratio 1:1 indicates that the σ-phase is berthollitic rather than a daltonide. The α ⇄ σ transformation was at 910°. This is higher than the 810° given by Cook and Jones (*Metallurgia* 225(1943); *C.A.* 37, 6232[9]). The difference is explained by the difference in procedure: the rapid heating employed in thermal and dilatometric analyses in this investigation and the prolonged thermal treatment used by Cook and Jones.

M. Hosch

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Bondar, I. A.

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Transformations in solid state in the system iron-chromium-nickel. I. Distribution of phase domains at room temperature. A. T. Grigor'ev and I. A. Bondar (Sektsiya Fiz.-Khim. Anal., Akad. Nauk [illegible]). —The purpose of this investigation was [illegible] of state of the system Fe–Cr–Ni with up to 35% [illegible] Ni. Alloy specimens were [illegible] as the temp. decreased. The total [illegible] was 600 hrs. Phase boundaries were ascertained by microscopic examns. and detn. of microhardness. On the [illegible] diagram of this system are found 3 monophase areas [illegible] and four 2-phase areas $\alpha + \gamma$, $\gamma + \sigma$, [illegible] and two 3-phase $\alpha + \gamma + \sigma$ areas. M. Hosch

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BONDAR, I. A.

(3)

1493. Phase diagram of the ternary system $BaO-Al_2O_3-SiO_2$.—N. A. Toropov, E. Ya. Galakhov, and I. A. Bondar (*C.R. Acad. Sci. U.R.S.S.*, 89, 89, 1953).

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Dondok, I. A.

Diagram of state for the ternary system BaO-Al_2O_3-SiO_2. N. A. Toropov, F. Ya. Galakhov, and I. A. Bondar. *Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci.* 1954, 647-55(Engl. translation).—See *C.A.* 49, 6711*h*. B. M. R.

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BONDAR, I. A.

USSR.

Diagram of state for the ternary system $BaO-Al_2O_3-SiO_2$. N. A. Toropov, F. Ya. Galakhov, and I. A. Bondar. *Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1954, 753-64.—The system consisted of 13 fields of stability for the various phases. A ternary solid soln. is formed with $2BaO.3SiO_2$, $BaO.2SiO_2$, and $BaO.Al_2O_3.2SiO_2$. A new aluminosilicate was found, having the compn. $3BaO.3Al_2O_3.2SiO_2$ which, upon fusion, decomp. J. Roytar Leach.

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USSR

13228 The Chemical Nature of the Sigma Phase in the Iron-Chromium System. A. T. Grigor'ev, N. M. Grundeva, and I. A. Bondar. *Henry Brutcher Translation No. 3454*, 13 p. (Condensed from *Izvestiya Sektora Fiziko-Khimicheskogo Analiza*, v. 21, 1954, p. 132-143.) Henry Brutcher, Altadena, Calif.

Discussion of nature of σ phase in the light of hardness measurements. Correlation of results of present research with literature (chiefly Russian). Tables, diagrams, micrographs. 7 ref.

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APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

GRIGOR'YEV, A.T.; BONDAR', I.A.

Solid-state conversions in the system: iron — chromium -- nickel. Report no.2. Structural diagram. Izv.Sekt.fiz.-khim.anal. no.25: 94-116 '54. (MIRA 8:5)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova Akademii nauk SSSR.
(Iron-chromium-nickel alloys)

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', I. A.

USSR/ Chemistry - Silicates

Card 1/1 Pub. 40 - 1/27

Authors : Toropov, N. A.; Galakhov, F. Ya.; and Bondar', I. A.

Title : Solid solutions formed by celsian, dibarium trisilicate and barium disilicate (Sanbornite)

Periodical : Izv. AN SSSR. Otd. khim. nauk 1, 3-8, Jan-Feb 1955

Abstract : Experiments were conducted to establish the zone, boundaries and liquidus of a ternary solid solution formed by barium disilicate, dibarium trisilicate and celsian. It was found that the refraction index for this zone depends largely upon the barium disilicate and aluminum oxide contents of the solution. The refraction index decreases with the increase of barium disilicate and Al_2O_3. The equilibrium ratio of the investigated solution was established on the basis of several polythermal samples with constant Al_2O_3 contents. Two USA references (1922 and 1950). Graphs; table; illustrations.

Institution : Acad. of Sc., USSR, Institute of Chem. of Silicates

Submitted : January 28, 1954

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

AID P - 1371

Subject : USSR/Chemistry

Card 1/1 Pub. 119 - 4/6

Authors : Toropov, N. A. and Bondar', I. A., (Leningrad)

Title : Fluoberyllates and other crystallochemical analogs of silicates and like substances

Periodical : Usp. khim., 23, no. 1, 52-68, 1955

Abstract : A survey of the literature on fluoberyllates is given; most of the references are to non-Russian sources. A high degree of analogy is found between BeF_2 and SiO_2. Many binary systems are reviewed. Twenty diagrams, 2 tables, 37 references (7 Russian: 1939-53).

Institution : None

Submitted : No date

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

"The Effect of Calcium Fluoride on the Crystallization Process in the Trivalent System $CaO-Al_2O_3-SiO_2$" a paper read at the International Metallurgists' Conference, Moscow 26-30 June 56

SO: CS-3,302,240, 11 Jan 57.

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4"

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR, I. A.

15-57-7-9444

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7, pp 103-104 (USSR)

AUTHORS: Toropov, N. A., Bondar', I. A.

TITLE: Synthesis of a Fluoberyllate Type of the Double Calcium and Barium Metasilicate (Sintez ftoroberillatnoy modeli dvoynogo metasilikata kal'tsiya i bariya)

PERIODICAL: Sb. nauch. rabot po khimi i tekhnol. silikatov, Moscow, Promstroyizdat, 1956, pp 20-23.

ABSTRACT: The compound $2NaF \cdot KF \cdot 3BeF_2$, the fluoberyllate analogue of the double calcium and barium metasilicate $2CaO \cdot BaO \cdot 3SiO_2$, has been synthesized. The following were used in the synthesis: 1) sodium fluoride (98 percent NaF), 2) potassium fluoride in the form of $KF \cdot H_2O$ (77 percent KF), and 3) beryllium fluoride, obtained by treating beryllium oxide with hydrofluoric acid (97.5 percent BeF). The fusion was made in a covered platinum crucible in a crucible furnace and then quenched (the melt poured out into a pan). To compare the compound

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15-57-7-9444

Synthesis of a Fluoberyllate Type (Cont.)

$2NaF \cdot KF \cdot 3BeF_2$ with $2CaO \cdot BaO \cdot 3SiO_2$ the latter was synthesized by the method described earlier by N. A. Toropov, F. Ya. Galakhov, I. A. Bondar', Izv. AN SSSR (OKhN), 1954, Nr 5, p 753. The samples were studied microscopically, by X-ray methods (CoKα radiation in a cylindrical chamber), by thermal analysis (fluoberyllate), and by specific gravity determination (with kerosene in a pycnometer at 20°). The study of the system $NaF-KF-BeF_2$ has established the fact that the compound $2NaF \cdot KF \cdot 3BeF_2$ occurs as a type of $2CaO \cdot BaO \cdot 3SiO_2$ in the system $CaO-BaO-SiO_2$. Synthetic $2NaF \cdot KF \cdot 3BeF_2$ forms elongated tabular crystals. Ng is 1.366 + (sic) 0.003; Np is 1.352 +(sic) 0.003; and Ng - Np = 0.014. The specific gravity is 2.98. For crystals of $2CaO \cdot BaO \cdot 3SiO_2$, Ng is 1.681, Np 1.668, and Ng - Np 0.013. The specific gravity is 4.69. The crystals form as small aggregates. The results of X-ray analyses for the investigated samples are given (see Table).

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Synthesis of a Fluoberyllate Type (Cont.)

I/I_0	[1] N_2KB_3	[e] $N_2KB_3^*$	[d] N_2KB_3	[1] C_2BS_3	[e] $C_2BS_3^{**}$	[d] C_2BS_3	Remarks
5	20.27	17.84	2.93	17.66	17.66	2.95	Thickness of sample
1	21.78	19.17	2.72	19.16	19.16	2.73	N_2KB_3 = 0.5 mm
1	22.58	19.87	2.63	19.86	19.86	2.64	
1	23.38	20.57	2.55	20.36	20.36	2.57	$R_{eff} = \frac{65}{2}$
1	27.19	23.93	2.21	23.47	23.47	2.24	
1	27.89	24.54	2.16	24.37	24.37	2.17	
2	30.20	26.58	2.00	26.37	26.37	2.02	
1	34.21	30.10	1.78	29.58	29.58	1.80	Thickness of sample
1	36.12	31.79	1.70	31.08	31.08	1.73	C_2BS_3 = 0.3 mm

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15-57-7-9444

Synthesis of a Fluoberyllate Type (Cont.)

1	37.88	33.33	1.63	32.39	32.89	1.67	$R_{eff} = \frac{57.20}{2}$
1	40.34	35.50	1.54	34.89	34.39	1.57	
1	43.85	38.59	1.44	37.90	37.90	1.46	
1	46.66	41.06	1.36	40.21	40.21	1.38	
1	49.87	43.89	1.29	42.51	42.51	1.32	
1	52.58	46.27	1.24	44.82	44.82	1.27	
1	--	--	--	48.93	48.93	1.19	

*N_2KB_3 = $2NaF \cdot KF \cdot 3BeF_2$

**C_2BS_3 = $2CaO \cdot BaO \cdot 3SiO_2$

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N. I. Kulayeva

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

24(8) PHASE I BOOK EXPLOITATION SOV/2117

Soveshchaniye po eksperimental'noy tekhnike i metodam vysokotemperaturnykh issledovaniy, 1956

Eksperimental'naya tekhnika i metody issledovaniy pri vysokikh temperaturakh; trudy soveshchaniya (Experimental Techniques and Methods of Investigation at High Temperatures; Transactions of the Conference on Experimental Techniques and Methods of Investigation at High Temperatures) Moscow, AN SSSR, 1959. 789 p. (Series: Akademiya nauk SSSR. Institut metallurgii. Komissiya po fiziko-khimicheskim osnovam proizvodstva stali) 2,200 copies printed.

Resp. Ed.: A.M. Samarin, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: A.L. Bankvitser.

PURPOSE: This book is intended for metallurgists and metallurgical engineers.

COVERAGE: This collection of scientific papers is divided into six parts: 1) thermodynamic activity and kinetics of high-temperature processes 2) constitution diagram studies 3) physical properties of liquid metals and slags 4) new analytical methods and production of pure metals 5) pyrometry, and 6) general questions. For more specific coverage, see Table of Contents.

Toporov, N.A., and I.A. Bondar'. Effect of Calcium Fluoride on the Crystallization Process in the Ternary System $CaO-Al_2O_3-SiO_2$ 205

It was shown that the addition of 5 percent of CaF_2 decreases the viscosity of the melt and lowers the temperature of crystallization by 50-70 percent. CaF_2 can be used as an activator of the binding properties of blast-furnace slags. The addition of 5 percent of CaF_2 lowers the refractive index of glasses by 5-6 figures in the third decimal place. A section with a constant CaF_2 content of 5 percent was drawn in the investigated portion of the $CaO-Al_2O_3-SiO_2-CaF_2$ quaternary system, adjacent to the $CaO-SiO_2$ side and extending from 20 to 65 percent SiO_2 and 80 percent Al_2O_3.

Nikheyev, V.S. Contact Method of Measuring the Melting Point of Metals and Certain Metallic Alloys 213

The method is based on direct measurement of the thermoelectromotive force in the contacting of a hot thermocouple junction with a drop of liquid metal upon fusion of the specimen under the action of the electric current. The contact method is recommended for the determination of the initial fusion temperature of simple and complex alloy systems in the temperature range of the crystallization of solid solutions.

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I. A. Bondar

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Phase diagram of the triple system CaO [illegible] SiO[illegible]

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

BONDAR', I. A.

Category: USSR / Physical Chemistry
Thermodynamics. Thermochemistry. Equilibrium. Physico-chemical analysis. Phase transitions. B-8

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29943

Author : Toropov N. A., Galakhov F. Ya., Bondar' I. A.
Inst : Academy of Sciences USSR
Title : Diagram of State of the Ternary System CaO - BaO - SiO_2.

Orig Pub: Izv. AN SSSR, Otd. khim. n., 1956, No 6, 641-648

Abstract: A study of the liquidus diagram of the system CaO (I) - BaO (II) - SiO_2 (III). Synthesis of initial specimens and the furnaces utilized have been described previously (RZhKhim, 1955, 37847). As starting materials were used 99.90% SiO_2, 98.80% $BaCO_3$, 99.88% $CaCO_3$. Phase equilibria were investigated by the methods of hardening, crystal growing, microscopically and by x-ray phase analysis. Liquidus of the system is represented by 12 fields of crystallization of different phases; composition and temperatures of invariant points are given. It was found that stratification region,

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

Category: USSR / Physical Chemistry
Thermodynamics. Thermochemistry. Equilibrium. Physico-chemical analysis. Phase transitions. B-8

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29943

of the I-III system, which encompasses concentrations from 72 to 99.5% III, as was shown before (Ol'shanskiy Ya. I., Dokl. AN SSSR, 1951, 76, No 1, 93), in the ternary system extends up to 11% II. Boundaries of stratification region have been determined as well as the temperatures of co-existence of crystalline phase III and two liquid layers. Coordinates of critical point of ternary system: 5% I, 11% II and 1690°.

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206210015-4

USSR/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions. B-8

Abs Jour: Referat. Zhurnal Khimiya, No 3, 1958, 7163.

Author : I.A. Bondar'.
Inst :
Title : Liquation Phenomenon in Ternary System CaO - BaO - SiO_2.

Orig Pub: Zh. neorgan. khimii, 1956, 1, No 7, 1539-1542.

Abstract: The system CaO - BaO - SiO_2 was studied in the range of SiO_2 contents from 60 to 100% by the method of hardening with following microscopy and by x-ray analysis. A demixing region narrowing with the temperature rise was found in the diagram portion adjoining the CaO - SiO_2 side near the SiO_2 angle. A spatial model of the liquation region, having the shape of a dome, was constructed. The demixing region comprises the compounds with 72 to 99.5% of SiO_2 in the binary system CaO - SiO_2 and

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USSR/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions. B-8

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Abs Jour: Referat. Zhurnal Khimiya, No 3, 1958, 7163.

extends into the ternary system up to 11% of BaO. The refraction indices of individual glasses were determined.

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BONDAR, I.A., TOROPOV, N.A.

"About Crystallisation of Dicalcium and Tricalcium Silicate in the System: $CaO-Al_2O_3-SiO_2$ in the Presence of Iron Oxides," lecture given at the Fourth Conference on Steelmaking, A.A. Baikov Institute of Metallurgy, Moscow, July 1-6, 1957

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