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Semiconductors and Their Use (Cont.) Call Nr: None given

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Special features of the passage of an electric current through a semiconductor 9

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Semiconductors and Their Use (Cont.) Call Nr: None given

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.I.

MESYATSEV, P.P.; [redacted], doktor tekhnicheskikh nauk, professor, retsenzent; SARKISYAN, B.G., inzhener, retsenzent; ZYDAKIN, A.I., inzhener, redaktor; TUBYANSKAYA, F.G., izdatel'skiy redaktor; ZUDAKIN, I.M., tekhnicheskiy redaktor

[Control and adjustment of units of electronic apparatus] Regulirovka i nastroika blokov radiotekhnicheskikh ustroistv. Moskva, Gos. izd-vo obor. promyshl., 1957. 106 p. (MLRA 10:5)
(Electronic control)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.I.

PAVLOV, V.A., kandidat tekhnicheskikh nauk, dotsent; TUNIMANOV, A.Z., inzhener; ANTONOV, A.K., inzhener; GUSHCHINA, L.M., inzhener; RIVKIN, S.S., doktor tekhnicheskikh nauk; SAYDOV, P.L., kandidat tekhnicheskikh nauk dotsent; PEL'POR, D.S., doktor tekhnicheskikh nauk, professor; RYABOV, B.L., doktor tekhnicheskikh nauk, professor; TIKHMENEV, S.S., doktor tekhnicheskikh nauk, professor; FRIDLENDER, G.O., doktor tekhnicheskikh nauk, professor; CHISTYAKOV, N.I., doktor tekhnicheskikh nauk, professor.

Can V.A. Pavlov's book "Aircraft gyroscope instruments" be recommended for use as a textbook? Priborostroenie no.1:29-31 Ja '57. (MIRA 10:4)

1. Chlen pravleniya Leningradskogo otdeleniya nauchnogo inzhenerno-tekhnicheskogo obshchestva priborostroitel'noy promyshlennosti (for Tunimanov). 2. Chlen pravleniya Vsesoyuznogo nauchnogo inzhenerno-tekhnicheskogo obshchestva priborostroitel'noy promyshlennosti (for Gushchina) 3. Moskovskoye Vysshaye tekhnicheskoye uchilishche imeni Baumana (for Pel'por, Tikhmenev). 4. Moskovskiy aviatsionnyy institut imeni Serge Ordzhonikidze (for Ryabov). 5. Voyenno-vozdushnaya inzhenernaya akademiya imeni N.Ye. Zhukovskogo (for Chistykov)
(Gyroscope)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

KHLYTCHIYEV, S., kand.tekhn.nauk; CHISTYAKOV, N.I., prof., doktor tekhn. nauk, otv. za vypusk

[Cathode-ray spectrum analyzers and their technical application] Elektronno-luchevye analizatory spektra i ikh tekhnicheskoe primenenie. Moskva, Izd-vo VTsSPS Profizdat, 1958. 12 p. (MIRA 13:12)

1. Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti.
(Cathode-ray oscillograph)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

FRIDOLIN, G., inzh.; CHISTYAKOV, N.I., otv. za vypusk

[Operating cathode-ray oscillographs] Tekhnika raboty s elektronno-luchevymi ostsillografami. Moskva, Profizdat, 1958. 14 p. (MIRA 13:12)

1. Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti.
(Cathode ray oscillograph)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.I., prof., doktor tekhn. nauk, red.; MONASTYRSKAYA, A.M., inzh., red.
UVAROVA, A.F., tekhn. red.

[Using semiconductors in instrument manufacture; conference papers.] Primenenie poluprovodnikov v priborostroenii; trudy konferentsii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 256 p. (MIRA 11:10)

1. Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti. Moskovskoye pravleniye.
(Instruments)
(Semiconductors)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.I.

KRIZE, Sergey Nikolayevich; CHISTYAKOV, N.I., otvetstvennyy red.; NOVIKOVA, Ye.S., red.; VEYNTRAUB, A.B., tekhn.red.

[Amplifier apparatus] Usilitel'nye ustroistva. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1958. 314 p. (Amplifiers, Electron-tube) (MIRA 11:6)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

PHASE I BOOK EXPLOITATION 1088

Chistyakov, Nikolay Iosafovich, Sidorov, Viktor Matveyevich, and Mel'nikov, Viktor Semenovich

Radiopriyemnyye ustroystva (Radio Receivers) Moscow, Svyaz'izdat, 1958. 895 p. 25,000 copies printed.

Ed. (Title page): Chistyakov, N.I.; Ed. (Inside book): Galoyan, M.A.; Tech. Ed.: Shefer, G.I.

PURPOSE: This monograph is addressed to students and engineering and technical workers in radio.

COVERAGE: The book is based on the program for the course in radio receivers at communications institutes. The authors assume that the reader is familiar with the fundamentals of radio circuit theory (including transient processes), with general methods of amplifier circuit analysis, fluctuation noise in tubes and electric circuits, the operating characteristics of vacuum tubes at very high frequencies, and other related problems. Because of the broad scope of the book the authors have dealt only briefly with certain subjects, e.g., television receiver video tracts, radio relay lines (multichannel reception of very high frequencies), antennas, etc. Transistorized circuit theory has not been fully discussed because of its still early stage of development.

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N.I. Chistyakov wrote the Introduction through Chapter III, Chapter VI, Sections 12 and 13 of Chapter VII, Section 4 of Chapter IX, Sections 1 through 10 of Chapter X, Chapter XII, Section 8 of Chapter XIII, Section 5 of Chapter XV, Section 7 of Chapter XVI, and Chapters XVIII through XX. V.M. Sidorov wrote Chapter V, Sections 1 through 11 of Chapter VII, Chapter VIII through Section 3 of Chapter IX, Sections 5 through 8 of Chapter IX, Section 11 of Chapter X through Section 6 of Chapter XI, and Section 7 of Chapter XIII. V.S. Mel'nikov wrote Chapter VI, Sections 1 through 6 of Chapter XIII, Sections 1 through 4 and Section 6 of Chapter XV, and Section 1 through 14 of Chapter XVII. G.A. Aleksandrov wrote Section 7 of Chapter XI, Chapter XIV and Sections 1 through 6 of Chapter XVI. L.M. Mashbits wrote Section 15 of Chapter XVII and Chapter XXI. In preparing the book for publication, the authors took into consideration suggestions of the staff of the Leningradskiy elektrotekhnicheskiy institut svyazi im. M.A. Bonch-Bruyevich (Leningrad Communications Engineering Institute imeni Bonch-Bruyevich) and the Moskovskiy aviatsionnyy institut im. S. Ordzhonikidze (Moscow Aviation Institute imeni S. Ordzhonikidze). The authors thank Professor V.N. Mil'shteyn for his helpful suggestions concerning a number of chapters. There are no references.

~~Card 2/14~~

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, Nikolay I., Prof., Telecommunications Institute, Moscow

"Electronic instruments in Modern engineering" (Section I)
"Potentiometric data transmission" (Section VI)

report submitted for Measurement and Automation, Scientific Society for (Hungarian) Intl. Measurements Conference -Budapest, Hungary, 24-30 Nov 58

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV N.I.

AUTHORS: Gel'fond, A., Karandeyev, K., Chistyakov, N., Shumilovskiy, N., Levin, M., ~~Yermakov, V.,~~ Kobrinskiy, N., and others 105-58-4-35/37

TITLE: V. N. Mil'shteyn (Deceased)

PERIODICAL: Elektrichestvo, 1958, Nr 4, pp. 94-94 (USSR)

ABSTRACT: Obituary notice. On January 9, 1958 Professor Viktor Naumovich Mil'shteyn, Dr. of Technical Sciences died at the age of 44. After he finished the Moskau Institute for Power Engineering he worked in industry and as pedogogue. In 1938 he became Candidate and in 1945 Dr. of Technical Sciences. Since then he was Director of the Chair for Electric and Automatic Apparatus at the Moskau Institute for Aviation imeni Ordzhonikidze. In 1949 he changed over to the Scientific Research Institutes for Systems at the Committee for Standards, Measures and Measuring Apparatus. At the same time he worked as pedogogue at the Penza Institute for Industry and then at the Moskau Electrotechnical Institute for Telecommunications. He wrote many

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

V. N. Mil'shteyn (Deceased) 105-58-4-35/37

publications and many inventions were made by him. His scientific work included the field of theoretical electrical engineering and radio engineering as well as the problems on the theory and the calculation of measuring instruments, automation elements and electromagnetic mechanisms. Before his death he had his monography "The Energetic Relations in Electrical Measuring Instruments" printed. There are 1 figure.

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1. Obituary

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N., prof., doktor tekhn.nauk

Utilization of semiconductors in instrument manufacture. Radio no.12:3-5 D '58. (MIRA 11:12)

(Semiconductors)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.I., prof., dokt.tekhn.nauk, red.; KHAMETOVA, S.D., izd.red.; ROZHIN, V.P., tekhn.red.

[Transistor electronics in the instrument manufacture; conference papers] Tranzistornaia elektronika v priborostroenii; sbornik trudov konferentsii. Pod red. N.I. Chistiakova. Moskva, Gos. izd-vo obor.promyshl., 1959. 289 p. (MIRA 12:3)

1. Vsesoyuznoye nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti.
(Electronic instruments) (Transistors)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

GAYEVICH, Vadim Nikolayevich; KALASHNIKOV, Anatoliy Mikhaylovich; CHISTYAKOV, N.I., red.; PODGUZOV, M.I., inzhener-mayor, red.; STREL'NIKOVA, M.A., tekhn.red.

[Radio engineering; training aid for enlisted men] Radiotekhnika; uchebnoe posobie dlia soldat i serzhantov. Moskva, Voen.izd-vo M-va obor.SSSR, 1959. 367 p. (MIRA 13:1)
(Radio)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

VOYSHVILLO, Georgiy Valerianovich; CHISTYAKOV, N.I., retsenzent; TSYKIN, G.S., otv.red.; KOKUSHKIN, A.A., red.; KARABILOVA, F.S., tekhn.red.

[Low frequency amplifiers using electron tubes] Usiliteli nizkoi chastoty na elektronnykh lampakh. Moskva, Gos.izd-vo lit-ry po voprosam sviazi i radio, 1959. 754 p. (MIRA 13:3)
(Amplifiers, Electron-tube)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

MINTS, A.L., akademik, glavnyy red.; BURDUN, G.D., red.; VOL'PERT, A.R., red.; GORON, I.Ye., red.; GUTENMAKHER, L.I., prof., red.; GRODNEV, I.I., red.; DEVYATKOV, N.D., red.; ZHEKULIN, L.A., red.; KATAYEV, S.I., red.; NEYMAN, M.S., red.; SIFOROV, V.I., red.; CHISTYAKOV, N.I., red.; GESSEN, L.V., red.izd-va; MARKOVICH, S.G., tekhn.red.

[One hundredth anniversary of the birth of A.S.Popov; jubilee session] 100 let so dnia rozhdeniia A.S.Popova; iubileinaia sessiia. Moskva, Izd-vo Akad.nauk SSSR, 1960. 312 p. (MIRA 14:1)

1. Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi. (Information theory)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.I.

PHASE I BOOK EXPLOITATION SOV/4364

Bodner, Vasiliy Afanas'yevich, Gavriil Oskarovich Fridlender, and Nikolay Iosifovich Chistyakov

Aviatsionnyye pribory (Aircraft Instruments) Moscow, Oborongiz, 1960. 512 p. Errata slip inserted. 10,000 copies printed.

Reviewer: B.A. Ryabov, Doctor of Technical Sciences, Professor; Ed. (Title page): V.A. Bodner, Doctor of Technical Sciences, Professor; Ed. (Inside book): O.N. Burakova; Tech. Ed.: L.A. Garnukhina; Managing Ed.: S.D. Krasil'nikov, Engineer.

PURPOSE: This is a textbook for students of aviation institutions of higher education taking a course on aircraft instruments. It may also be useful to engineering and technical workers interested in instrument production.

COVERAGE: The book presents the theory, construction principles, special features, operating principles, and design elements of instruments controlling power plants and piloting and navigating instruments. Special attention is given to the theory of errors and methods of instrument compensation. The book also discusses measuring methods and diagrams of instruments which may be used in the future. The introduction and Chs. I, III, V, VI, VIII-XIV, sec. 1 and 2 of Ch. IV,

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CHISTYAKOV, N. I

Semiconductors in the technology of the seven-year plan. NTO 2 no.7:28 Jl '60. (MIRA 13:7)
(Semiconductors)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

ALEKSANDROV, G.A.; DORRER, I.A.; MALOCHINSKIY, O.M.; KHLYTCHIYEV, S.M.; CHISTYAKOV, N.I.; SHUL'GIN, K.A.; VENGRENYUK, L.I., red.; MARKOCH, K.G., tekhn. red.

[Radio communications and broadcasting] Radiosviaz' i veshchanie. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1961. 503 p. (MIRA 15:2)
(Radio—Receivers and reception)
(Radio—Transmitters and transmission)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.I.

Congress of the American Institute of Radio Engineers.
Radiotekhnika 17 no.10:79-80 O '62. (MIRA 15:9)
(United States--Radio--Congresses)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

NIKOLAYEVSKIY, Iosif Fedorovich; CHISTYAKOV, N.I., doktor tekhn. nauk, prof., otv. red.; VENGRENYUK, L.I., red.; TRISHINA, L.A., tekhn. red.

[Operating parameters and special features of the use of transistors] Ekspluatatsionnye parametry i osobennosti primeneniia tranzistorov. Moskva, Sviaz'izdat, 1963. 223 p. (MIRA 16:12)

(Transistors)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

AKULOV, I.I.; BARZHIN, V.Ya.; VALITOV, R.A.; GARMASH, Ye.N.; KUCHIN, L.F.; NAYDEROV, V.Z.; PUTSENKO, V.V.; SEMENOVSKIY, V.K.; SIMONOV, Yu.L.; TARASOV, V.L.; TEREKHOV, N.K.; SHEVYRTALOV, Yu.B.; YUNDENKO, I.N.; CHISTYAKOV, N.I., otv. red.; KOKOSOV, L.V., red.; TRISHINA, L.A., tekhn.red.

[Theory and design of principal radio circuits using transistors] Teoriia i raschet osnovnykh radiotekhnicheskikh skhem na tranzistorakh. [By] I.I.Akulov i dr. Moskva, Sviaz'izdat, 1963. 452 p. (MIRA 16:8)

(Transistor circuits) (Electronic circuits)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

BARKAN, Vitaliy Fedorovich; ZHDANOV, Vasiliy Konstantinovich; CHISTYAKOV, N.I., doktor tekhn. nauk, retsenzent; LEVITIN, Ye.A., inzh., retsenzent; SAMOYLOV, G.V., inzh., red.; STARIKOV, Ye.P., inzh., red.; SUVOROVA, I.A., red.izd-va; NOVIK, A.Ya., tekhn. red.

[Design of radio systems] Proektirovanie radiotekhnicheskikh ustroistv. Moskva, Oborongiz, 1963. 514 p. (MIRA 17:1)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

VOYSHVILLO, Georgiy Valerianovich; CHISTYAKOV, N.I., retsenzent; TSYKIN, G.S., otv. red.; [redacted] red.; ROMANOVA, S.F., tekhn. red.

[Electron-tube low frequency amplifiers] Usiliteli nizkoi chastoty na elektronnykh lampakh. Izd.2., dop. Moskva, Sviaz'izdat, 1963. 759 p. (MIRA 16:9)
(Amplifiers, Electron-tube)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.I.

Review of the periodical "Elektronika". Radiotekhnika 18 no.6: 76-77 Je '63. (MIRA 16:9)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.I.

Some new trends in the development of radio communication.
Elektrosviaz' 18 no.9:63-68 S '64. (MIRA 17:12)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N. I.

"Instruments for space communication."

report submitted for the 3rd Intl Measurement Conf & 6th Intl Instruments & Measurements Conf, Stockholm, 14-19 Sep 64.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N. I.

"Instruments for space communication."

report submitted for Intl Fed of Automatic Control & of Information Processing Conf, Stockholm, 21-23 Sep 64.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, Nikolay Iosifovich; KOKORIN, Yu.I., red.; TRISHINA, L.A., tekhn. red.

[Tuned transistor amplifiers] Tranzistornye rezonansnye usiliteli. Moskva, Izd-vo "Sviaz'," 1964. 31 p. (MIRA 17:3)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

PUL'YER, Yuliy Mironovich; CHISTYAKOV, N.I., doktor tekhn. nauk, prof., retsenzent; ANVEL'T, M.Yu., kand. tekhn. nauk, dots., red.; YERMILOVA, L.F., red.izd-va; SKOTNIKOVA, N.N., tekhn. red.

[Inductive electromechanical components of computing and distance-type servo systems] Induktsionnye elektromekhanicheskie elementy vychislitel'nykh i distantsionno-slediashchikh sistem. Moskva, Izd-vo "Mashinostroenie," 1964. 293 p. (MIRA 17:4)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, Nikolay Iosafovich; KASHITSIN, A.I., retsenzent; AMALITSKIY, M.V., retsenzent; FUFAYEVA, M.N., red.

[Principles of radio communication and radio relay lines] Osnovy radiosviazi i radioreleinye linii. Moskva, Sviaz', 1964. 325 p. (MIRA 18:2)

1. Alma-Atinskiy tekhnikum svyazi (for Amalitskiy).

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

AKULOV, I.I.; BARZHIN, V.Ya.; VALITOV, R.A.; GARMASH, Ye.N.; KUCHIN, L.F.; NAYDEROV, V.Z.; PUTSENKO, V.V.; SEMENOVSKIY, V.K.; SIMONOV, Yu.L.; TARASOV, V.L.; TEREKHOV, N.K.; SHEVYRTALOV, Yu.B.; YUNDENKO, I.N.; CHISTYAKOV, N.I., prof., otv. red.; KOKOSOV, L.V., red.

[Theory and design of basic radio circuits using transistors] Teoriia i raschet osnovnykh radiotekhnicheskikh skhem na tranzistorakh. Moskva, Sviaz', 1964. 454 p. (MIRA 18:8)

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L 11367-65 EEO-2/EWT(d)/EEC-4/EED-2 Pn-4/Po-4/Pp-4/Pq-4/Pg-4/Pk-4/Pl-4 BC

ACCESSION NR: AP4046971 S/0286/64/000/017/0101/0101

AUTHOR: Chistyakov, N. I.

TITLE: Method for determining airplane coordinates in polar regions. Class 36, No. 87031

SOURCE: Byul. izobr. i tovar. znakov, no. 17, 1964, 101

TOPIC TAGS: aircraft position coordinate, polar navigation, polar aircraft navigation

ABSTRACT: An Author Certificate has been issued for a method by which the position of an airplane operating in polar regions is determined in rectangular coordinates. The components of the plane's velocity, which are derived by resolving a signal into two mutually-perpendicular directions, are automatically integrated. A solar-type compass, fitted with a course-computing scale, is turned by a clock mechanism. One of the mutually-perpendicular coordinates selected, into which the plane velocity is resolved, is parallel to a prime meridian.

ASSOCIATION: none

Card 1/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 11367-65

ACCESSION NR: AP4046971

0

SUBMITTED: 18Dec47 ATD PRESS: 3114 ENCL: 00

SUB CODE: NR REF SOV: 000

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 10329-65 EEO-2/EWT(d)/EWT(2)/EWT(m)/EEO(k)-2/FA/EEC-4/T-2/EWP(h) Pg-4/Pz-4
Pl-4/Pn-4/Pc-4/Pq-4/Pq-4 ASD(d)/AFTC(a) BC

ACCESSION NR: AP4047077 S/0266/64/000

AUTHOR: Chistyakov, V. I.

TITLE: Device for measuring the true speed of aircraft. Class 42, No. 79203

SOURCE: Byul. izobr. i tovar. znakov, no. 18, 1964, 98

TOPIC TAGS: aircraft, aircraft instrument, aircraft speed, aircraft speed indicator

ABSTRACT: This Author Certificate introduces a device which makes it possible to correct the readings of a flying-speed [illegible] consisting of an accelerometer and an accelerat[illegible] with the speed indicator. It is also provided with [illegible] measuring the differences between the frequencies [illegible] emitted and those reflected from the [illegible] the sensor transmitting correction [illegible] the readings of the speed indicator [illegible] difference measuring device do not match.

ASSOCIATION: [illegible]
Cod[illegible]

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 10429-65

ACCESSION NR: AP4047077

SUBMITTED: 12Feb48 ATD PRESS: 3115 ENCL: 00

SUB CODE: AC NO REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 31829-65

ACCESSION NR: AP4047077

SUBMITTED: 12Feb48 ATD PRESS: 3115 ENCL: 00

SUB CODE: AC NO REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 10902-65 EEO-2/EWT(d)/EEC-4 Pn-4/Po-4/Pp-4/Pq-4/Pg-4/Pk-4/Pl-4 APWDC/ESD(dp)
BC

ACCESSION NR: AP4047081 S/0286/64/000/018/0100/0100

AUTHOR: Chistyakov, N. I.

B

TITLE: Device for reception of electric-correction signals for an automatic course unit. Class 62, No. 66795

SOURCE: Byul. izobr. i tovar. znakov, no. 18, 1964, 100

TOPIC TAGS: automatic course indication, course indication, course indication correction, servosystem

ABSTRACT: This Author Certificate introduces a device intended for the reception of electric-correction signals for an automatic course unit from a servosystem or synchronous transmission whose receiver is used to readjust the course indicator. A differential is used which mechanically links the axes of rotation of the receiver, the correction-signal sensor, and the electromagnetic brake. The correction-signal sensor thus remains stationary under normal conditions (brake switched off); when the brake is switched on by remote control, the sensor is turned (if the course has changed) by the servosystem receiver.

Card 1/2

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 10902-65

ACCESSION NR: AP4047081

ASSOCIATION: none

SUBMITTED: 15May64 ATD PRESS: 3118 ENCL: 00

SUB CODE: NG NO REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 15282-65 EWT(1)/EEC-4/EEC(t)/ESC(b)-2/FCS(k) Pac-4/Pae-2/Pi-4/Pj-4/Pl-4
AFWL/AED(a)-5/BSD/SSD/AFETR/AFTC(b)/ESD(gs)/ESD(t) WR

ACCESSION NR: AP4048924 S/0286/64/000/020/0028/0029

AUTHOR: Chistyakov, N. I.

TITLE: Traveling wave antenna. Class 21, No. 165784

SOURCE: Byulleten' izobreteniy i tovarny*kh znakov, no. 20, 1964, 28-29

TOPIC TAGS: traveling wave antenna, antenna

ABSTRACT: This Author Certificate was granted for a traveling wave antenna consisting of two asymmetrical exciter arrays. In order to improve noise immunity during reception, the exciters are inclined at an angle of 45° to the horizontal plane, such that the plane of the exciters of one array is at an angle of 90° relative to that of the other array. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 03May62 ENCL: 00 SUB CODE: EC

NO REF SOV: 000 OTHER: 000 ATD PRESS: 3139

Card 1/1

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

ZAYCHIK, Isay Yur'yevich, inzh.; USOV, Sergey Nikolayevich, inzh.; CHISTYAKOV N.I., dokt. tekhn. nauk, prof., retsenzent; BULANOV, Yu.A., prepodavatel', inzh., retsenzent; BRAMMER, Yu.A., kand. tekhn. nauk, nauchn. red.; BASAVINA, Ye.V., red.

[Textbook on amplifying and radio receiving devices] Zadachnik po usilitel'nym i radiopriemnym ustroistvam. Moskva, Vysshaia shkola, 1965. 315 p. (MIRA 18:11)

1. Moskovskiy elektrotekhnicheskiy institut svyazi (for Chistyakov). 2. Moskovskiy tekhnikum avtomatiki i telemekhaniki (for Bulanov).

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

ACCESSION NR: [illegible]

AUTHOR: Chistyakov, N. I.

TITLE: A gyroscopic course indicator. Class 42, No. [illegible]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 2, 1965, 117

TOPIC TAGS: compass, gyrocompass, course indicator, gyroscope

ABSTRACT: [illegible] Author Certificate presents a gyroscopic course [illegible] the [illegible] automatic correction of the course gyroscope [illegible] of selsyn transmission. A solar compass mounted [illegible] a correcting device.

ASSOCIATION: none

SUBMITTED: 18Dec47 ENCL: 00 SUB CODE: NG

NO REF SOV: 000 OTHER: 000

Card 1/1

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.I.

One hundredth anniversary of the International Union of Electrical Communication. Radiotekhnika 20 no.5:76-77 My '65.

(MIRA 18:10)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.I.

Small-sized equipment for the magnetic recording of video signals. Radiotekhnika 20 no.10:75-76 O '65.

(MIRA 18:11)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.M.

Chistyakov, N.M. - "Physical-chemical investigations of mud and water of the Varzi-Yatchi spa (UASSR)", Trudy Medinstituta (Izhev. gos. med. in-t), Vol. VI, 1948, p. 141-51.

SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N. M.

Chistyakov, N. M., Vakhrusheva, V. A. and Moiseyeva, O. F. - "On the problem of regeneration of medicinal muds of the Varzi-Yatchi Health Resort," Trudy Medinstituta (Izhev. gos. med. in-t), Vol. Vii, 1949, p. 85-87

SO: U-3950, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N. M.

Chistyakov, N. M. and Chechulina, M. N. - "Research on the change in composition of organic substances in therapeutic muds of the Varzi-Yatchi Heal th Resort in the process of utilization and regeneration," Trudy Medinstituta (Izhev. gos. med. in-t), Vol. VII, 1949, p. 88-90

SO: U-3950, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5, 1949).

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N. M.

Chistyakov, N. M. - "The change in the amount of hydrogen sulfide in the therapeutic mud of the Varzi-Hatchi Health Resort under various conditions of storage," Trudy Medinstituta (Izhev. gos. med. in-t), Vol. VII, 1949, p. 91-93

SO: U-3950, 16 June 53, (Letopis 'Zhurnal'nykh Statey, No. 5, 1949).

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.M.

Polarographic investigation of the surface active properties of therapeutic muds from the Varzi-Yatchi health resort. Trudy Izhev. gos.med.inst. 13:542-547 '51. (MIRA 13:2)

1. Kafedra neorganicheskoy i analiticheskoy khimii Izhevskogo meditsinskogo instituta.
(VARZI-YATCHI--BATHS, MOOR AND MUD)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.M.; VAKHRUSHEVA, V.A.; BEDRINSKAYA, Ye.P.

Analysis of the manganese and ascorbic acid content of wild plants of the Udmurt A.S.S.R. Trudy Izhev.gos.med.inst. 13:531-536 '51. (MIRA 13:2)

1. Iz kafedry neorganicheskoy i analiticheskoy khimii. Zaveduyushchiy kafedroy - dotsent N.M. Chistyakov.

(ASCORBIC ACID) (MANGANESE)
(UDMURT A.S.S.R.--PLANTS--CHEMICAL ANALYSYS)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.M.; BLAGOVESHCHENSKAYA, Z.I.

Amount of some microelements in bee honey in connection with the theory of biogeochemical provinces. K pozn.fauny i flory Ivan.obl. no.1:76-79 '61. (MIRA 15:7)
(Honey—Analysis) (Trace elements)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

USSR/Miscellaneous - Timber Industry

Card 1/1

Authors : Chulkov, V. D., Chistyakov, N. N., and Mel'kikyan, N. V.

Title : A Cyclic Organization of Tree-Felling in the Maksatikhinsk Forest.

Periodical : Mekh. Trud. Rab. Ed. 3, 44 - 47, Apr - May 1954

Abstract : Methods for planning efficient tree-felling operations, charts indicating the productivity of individual working cadres and their earnings, and the machinery used in the above operation. Tables; graphs.

Institution : ....

Submitted : ....

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

ALEKSEYEV, D.G.; VEYNOV, K.A.; GORCHENKOV, S.G.; GUREVICH, S.B.; DITKOVSKIY, A.S.; KAMKOV, G.I.; MORGEN, D.I.; PROKHORCHUK, I.S.; RUMYANTSEV, N.M.; UCHASTKINA, Z.V.; SHISHOV, I.A.; MOLOZHAVYY, M.M., red.; NIKOLAYEV, N.N., red.; CHISTYAKOV, N.N., red.; KHUDYAKOVA, A.V., red.; MOROZOV, Yu.V., red.izd-va; BACHURINA, A.M., tekhn.red.

[Soviet paper industry, 1917-1957] Bumazhnaia promyshlennost' SSSR, 1917-1957 gg. Pod obshchei red. K.A.Veinova. Moskva, Goslesbumizdat, 1958. 147 p. (MIRA 12:3)

1. Nauchno-tekhnicheskoye obshchestvo bumazhnoy i derevoobrabatyvayushchey promyshlennosti. 2. Chlen Nauchno-tekhnicheskogo obshchestva bumazhnoy i derevoobrabatyvayushchey promyshlennosti (for all except Morozov, Bachurina).
(Paper industry)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.N.

Production of alcohol may be reduced. Bum.prom. 36 no.2:9 F '61. (MIRA 14:2)

1. Nachal'nik Otdela lesnoy, bumazhnoy i derevoobrabtyvayushchey promyshlennosti Gosplana RSFSR.
(Alcohol)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.N., inzh.

Repairing the impellers of centrifugal pumps. Vod. i san. tekh. no.1:35-36 Ja '64 (MIRA 18:2)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

SHASHKIN, G.F., inzh.; CHISTYAKOV, N.N., inzh.

Assembly of a heating system with glue. Vod.i san.tekh. no.5: 35-36 My '62. (MIRA 15:7)
(Gluing) (Hot-water heating)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

DUBROVKIN, S.D., inzh.; CHISTYAKOV, N.N., inzh.

Semiautomatic welding of the pipes of sanitary-engineering systems. Vod. i san. tekh. no.8:12-15 Ag '62. (MIRA 15:9)
(Pipe, Steel—Welding)
(Sanitary engineering)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.N.; TULYAKOV, B.V.

Speed up the organization of a large-scale hydrolysis yeast industry. Gidrolis. i lesokhim. prom. 16 no.2:1-3 '63. (MIRA 16:6)

1. Gosudarstvennyy komitet po lesnoy, tsellyulozno-bumazhnoy, derevoobrabatyvayushchey promyshlennosti i lesnomu khozyaystvu pri Gosplane SSSR.
(Hydrolysis) (Yeast)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 6575-66 EWT(1)/EWA(h)/ETC(m) WW

ACC NR: AP5025052 SOURCE CODE: UR/0286/65/000/016/0092/0092

AUTHORS: Viktorov, V. A.; Petrov, B. N.; Koridan, O. S.; Korzunshin, P. M.; Rabskiy, V. N.; Chistyakov, N. N.

ORG: none

27
B

TITLE: Resonance level detector. Class 42, No. 173973

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 92

TOPIC TAGS: liquid level indicator, resonator

25

ABSTRACT: This Author Certificate presents a resonance level detector containing a section of double conductor high frequency line connected to a secondary measuring device. To increase the accuracy of measuring the level at arbitrarily selected points, the detector is provided with conducting elements, e.g., rings, disks, loops, etc, fastened along the length of the detector at the mentioned points parallel to the surface of the measured level (see Fig. 1).

Card 1/2 UDC: 681.12

2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 6575-66

ACC NR: AP5025052

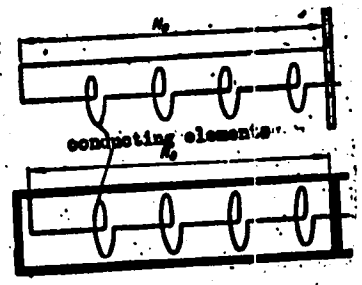

Fig. 1.

Orig. art. has: 1 diagram.

SUB CODE: EC/ SUBM DATE: 19Nov63

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 3559-66 EWT(1)/EWA(h)/ETC(m) WW

ACCESSION NR: AP5024413 UR/0286/65/000/015/0093/0093

17
B

AUTHORS: Viktorov, V. A.; Petrov, B. N.; Chistyakov, N. N.

TITLE: Level detector for discrete resonance level gauges. Class 42, No. 173447

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 93

TOPIC TAGS: liquid level indicator

ABSTRACT: This Author Certificate presents a level detector for discrete resonance level gauges, containing two high frequency channels similarly made in the form of rods with conducting elements (rings, spirals, etc) equally spaced along the length of the rod (see Fig. 1 on the Enclosure). To increase the accuracy of measurement with changes in the electromagnetic properties of the medium, the rods with the conducting elements are shifted in height so that their output step characteristics are shifted relative to each other by half a step. Orig. art. has: 1 diagram.

ASSOCIATION: none

SUBMITTED: 28Jul64 ENCL: 01 SUB CODE: IE

NO REF SOV: 000 OTHER: 000

Card 1/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 3559-66

ACCESSION NR: AP5024413

ENCLOSURE: 01

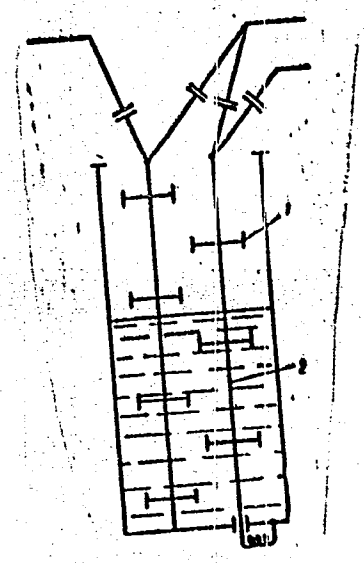

Fig. 1.
1- conducting elements; 2- rods

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

1C

L 35563-65 EWP(k)/EWT(d)/EWP(h)/EWA(d)/EWP(1)/EWP(v) PF-4

ACCESSION NR: AP5008218 S/0286/65/000/005/0080/0080

30

B

AUTHORS: Viktorov, V. A.; Petrov, B. N.; Koridze, O. S.; Kornyushin, P. M.; Rabskiy, V. N.; Chistyakov, N. N.

TITLE: A method for measuring the level of a liquid. Class 42, No. 168911

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 80

TOPIC TAGS: liquid level, frequency, resonance, liquid level gage

ABSTRACT: This Author Certificate introduces a method for measuring the level of a liquid by determining the dependence of the resonance frequency on the level of the measured liquid. To increase the accuracy of measurements, a stepwise relation between the resonance frequency and the measured level is established. The levels at the midpoints of the frequency dependence steps are then determined.

ASSOCIATION: none

SUBMITTED: 19Nov63 ENCL: 00 SUB CODE: IE

NO REF SOV: 000 OTHER: 000

Card 1/1

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

39755
S/126/62/014/001/011/018
E194/E435

24.2200

AUTHORS: Ignatchenko, V.A., Chistyakov, N.S., Tarasenko, V.I.

TITLE: Power absorption at super-high frequency during remagnetization of a thin ferromagnetic film

PERIODICAL: Fizika metallov i metallovedeniye, Levedeniye, v.14, no.1, 1962, 125-126

TEXT: Power absorption was observed when a thin ferromagnetic film located in a weak super-high-frequency (3.2 cm) field produced by a klystron generator is remagnetized by a low frequency sinusoidal field excited by a coil supplied from an audio frequency generator. The tests were made on permalloy discs 1000 Å thick, 16 mm diameter, prepared by evaporation in vacuo. Increase of the remagnetizing field applied along the axis of easy magnetization of the film did not affect the absorption peak except to reduce its base width. This indicated that high-frequency power is absorbed only during remagnetization of the film; the absorption intensity increased at the beginning of

Card 1/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

S/126/62/014/001/011/018
E194/E435

Power absorption at ...

remagnetization, reached a maximum and then tailed off to its initial value when remagnetization was completed. When the angle between the direction of remagnetization and the axis of easy magnetization coincided, strong absorption was observed; it was less near the direction of difficult magnetization. The absorption did not depend on frequency. The shape of hysteresis loop as function of the angle between the axis of easy magnetization and the direction of the remagnetizing field showed that remagnetization of the film occurred over a field range of 25 to 30 Oe. The observed phenomena are attributed to the formation of and changes in the domain structure during the remagnetization process. There are 2 figures.

ASSOCIATION: Institut fiziki SO AN SSSR (Institute of Physics SO AS USSR)

SUBMITTED: November 17, 1961 (initially)
February 10, 1962 (after revision)

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 7940-66 EWT(1)/EWT(m)/EWP(i)/EWA(d)/EWP(t)/EWP(z)/EWP(b)/EWA(h) IJP

ACC NR: AP5027839 SOURCE CODE: UR/0020/65/165/001/0081/0084

AUTHOR: Kirenskiy, L.V. (Corresponding member AN SSSR); Chistyakov, N.S.

ORG: Physics Institute of the Siberian Department of the Academy of Sciences, SSSR, Krasnoyarsk (Institut fiziki Sibirskogo otdeleniya Akademii nauk SSSR)

TITLE: Some possible practical uses of ferromagnetic films at ultrahigh frequencies

SOURCE: AN SSSR. Doklady, v. 165, no. 1, 1965, 81-84

TOPIC TAGS: ferromagnetic film, magnetic thin film, thin film circuit, UHF oscillator

ABSTRACT: The use of ferrite elements in UHF devices is often inconvenient because of their considerable size, large control power requirement, and slow response, resulting in increased interest in the possible utilization of ferromagnetic film. The authors investigated the UHF properties (f = 9,000 Mc) of thin ferromagnetic films in weak magnetic fields at a large distance from the ferromagnetic resonance. The 17Fe80Ni3Mo permalloy films with uniaxial magnetic anisotropy were produced by vacuum evaporation at $\sim 10^{-5}$ mm Hg on a glass support heated up to 200C. The tests included studies of 1) the influence of weak perpendicular magnetic fields on the variations in UHF susceptibility during remagnetization of the film at a certain angle to the easy magnetization axis (Fig. 1) and 2) the shift in eigenfrequency of resonators as a function of the thickness of single and multilayer films (Fig. 2). The films were separated by insulating silicon monoxide layers. Results show that the UHF multilayer film systems in weak magnetic fields are superior to single-layer film units in that the multilayer systems have a greater effect on the UHF fields. It is expected that after the development of an

Card 1/3 UDC: 538.221:621.37/39

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 7940-66

ACC NR: AP5027839

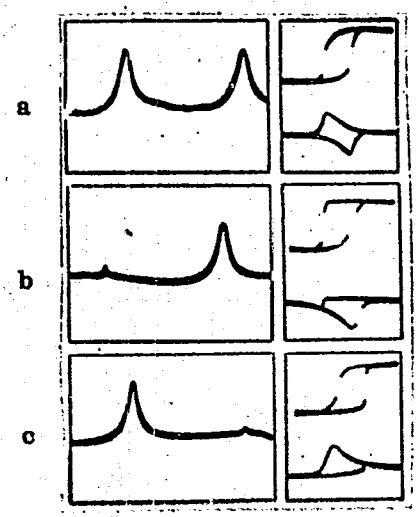

Fig. 1. Influence of the weak perpendicular field $H_{\perp}$ on the changes of UHF permeability during film remagnetization at an angle of $\varphi = 40°$ with respect to the axis of easy magnetization; a - $H_{\perp} = 0$, b - $H_{\perp} = 2$ Oe; c - $H_{\perp} = -2$ Oe

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L 7940-66

ACC NR: AP5027839

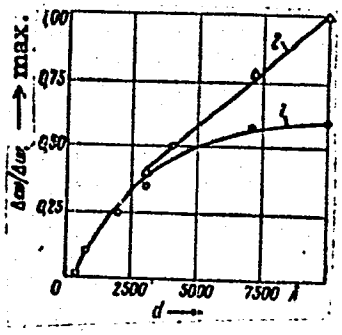

Fig. 2. Relative resonator eigenfrequency shift as function of the single-layer film thickness (1) and the overall thickness of the metal within a multilayer system (2)

appropriate technological production process, they will find widespread application in UHF engineering. Orig. art. has: 3 formulas and 2 figures. [08]

SUB CODE: 20 09/ SUBM DATE: 23Jun65/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS: 4147

Card 3/3

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

ACC NR: AP6033897 SOURCE CODE: GE/0030/66/017/002/0489/0499

AUTHOR: Kirenskii, L. V.; Salanskii, N. M.; Chistyakov, N. S.; Isotova, T. P.

ORG: none

TITLE: Magnetic multilayers

SOURCE: Physica status solidi, v. 17, no. 2, 1966, 489-499

TOPIC TAGS: solid state physics, magnetic coercive force, magnetic film, electrodynamics, thin magnetic film, multilayer film, transmission coefficient, reflection coefficient, ultra high frequency

ABSTRACT: A study is made of 1) the nature of the interaction between two magnetic films FeNi and FeNiCo separated by a layer SiO_2; and 2) the characteristics of the passage of an electromagnetic UHF-field through thin magnetic multilayered films divided by a layer of SiO_2. The study showed a decrease in the coercive force of the films in the multilayer system. This is explained by local magnetic interaction between the magnetic layers. The decrease in coerciveness depends on the thickness of the film and is explained by a change in the character

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ACC NR: AP6033897

of local interaction. Measurements were made of the coefficients of transmission and reflection as a function of the thickness of single-layered films and the total thickness of ferromagnetic metal layers in a multilayer system. It was found that the coefficients of transmission of multilayered systems is substantially greater than that of single-layered film. The characteristics of the transmission of UHF-energy through multilayered films are explained with in the framework of ordinary electrodynamics. [Translation of abstract]

[SP]

SUB CODE: 20/ SUBM DATE: 31May66/ ORIG REF: 005/ OTH REF: 015/

Card 2/2

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 24788-66 EWT(1)/EWT(m)/T/EWP(t) IJP(c) JD/GG

ACC NR: AP6014256 SOURCE CODE: UR/0109/66/011/005/0950/0951

AUTHOR: Chistyakov, N. S.; Ignatchenko, V. A.; Bayukov, O. A.; Rubova, G. O.

ORG: none

TITLE: Certain UHF properties of multilayer films

SOURCE: Radiotekhnika i elektronika, v. 11, no. 5, 1966, 950-951

TOPIC TAGS: magnetic thin film

ABSTRACT: Transmission and reflection factors of single-layer and multilayer magnetic films were measured in a waveguide system operating at $\lambda = 3$ cm. Individual films were made by sputtering 17Fe80Ni3Mo alloy on a glass substrate heated to 200C in a vacuum of 10^{-5} mm Hg and in a magnetic field of ~ 100 oe. Multilayer films were made by insulating each film layer by a layer of SiO 1000 Å thick. Experimental data (see Fig. 1) shows that the transmission factors for multilayer films (point 1—10 layers, 1000 Å each; point 2—40 layers, 500 Å each) substantially exceeds the same factor for a single layer 10^4 Å film (solid line). By breaking the film into layers, but keeping the same total thickness, skin depth is increased. This fact was substantiated by switching the films in a cavity resonator and

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ACC NR: AP6014256

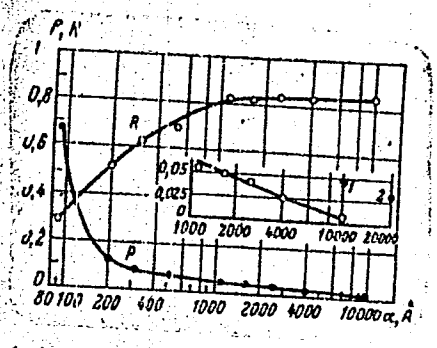

Fig. 1. Transmission (P) and reflection (R) factors as functions of film thickness d.

noting the resonator frequency shift. The shift for multilayer films is greater than that for equivalent single-layer film and shift linearity is preserved up to total film thickness of 3×10^4 Å (30 layers 1000 Å each). Orig. art. has: 2 figures. [BD]

SUB CODE: 09/ SUBM DATE: 17Apr65/ ORIG REF: 005/ ATD PRESS: 4250

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 15606-66 EWT(d)/EWT(1)/EWT(m)/EWP(e)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) IJP(c)
ACC NR: AP6004468 JD/GG SOURCE CODE: UR/0048/66/030/001/0059/0063

AUTHOR: Chistyakov, N.S.; Ignatchenko, V.A.

ORG: Institute of Physics, Siberian Section of the Academy of Sciences, SSSR (Institut fiziki Sibirskogo otdeleniya Akademii nauk SSSR)

61
60
B

TITLE: Microwave frequency susceptibility of thin ferromagnetic films in weak magnetic fields [Transactions of the Second All-Union Symposium on the Physics of Thin Ferromagnetic Films held at Irkutsk 10 July to 15 July, 1964]

21,44,55 16,44,55,

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.30, no. 1, 1966, 59-63

TOPIC TAGS: ferromagnetic film, magnetic thin film, superhigh frequency, magnetization, magnetic susceptibility, magnetic domain boundary

ABSTRACT: A technique is described by which, with the use of microwaves, one can distinguish between different switching mechanisms in thin ferromagnetic films. In the authors' equipment 3.2 cm microwaves were fed to a T bridge carrying a resonant cavity in one arm and a detector in the other. The resonator consisted of a section of rectangular waveguide and was excited in the H_{102} mode. The end wall of the resonator had an 8 mm diameter opening over which the film under investigation was mounted. When the film was magnetized parallel to the magnetic field of the resonator it had no influence on the resonator characteristics; when, however, the magnetization of the film was perpendicular to the resonator field, the magnetization would oscillate about

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L 15506-66

ACC NR: AP6004468

its equilibrium direction at the microwave frequency and would thus influence the resonant frequency and the Q of the cavity and alter the reflected wave. This change in the reflected wave was detected and displayed on an oscilloscope. Switching coils were excited with an audio oscillator, which was also coupled to the horizontal sweep of the oscilloscope. When switching occurs entirely by 180° domain wall motion, the magnetization is always parallel to the resonator field and no signal is produced. When magnetization rotation takes place, however, the magnetization is perpendicular to the resonator field at one stage of the process and a signal is observed on the oscilloscope screen. It is also possible to detect and distinguish between uniform magnetization rotation and switching in which the magnetization rotates in one direction in part of the film and in the opposite direction in other parts of the film. Experiments with a number of iron and Permalloy films confirmed the expected behavior, and oscillograms are presented that illustrate the signals produced by different switching mechanisms. Orig. art. has: 2 formulas and 4 figures.

SUB CODE: 20 SUBM DATE: 00 ORIG. REF: 006 OTH REF: 000

Card 2/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, N.S.; RUSOV, G.I.; BAYUKOV, O.A.; RUSOVA, S.G.

Ferromagnetic resonance in multilayer film systems. Izv. AN SSSR. Ser.fiz. 30 no.1:64-67 Ja '66. (MIRA 19:1)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

L 39610-66 EWP(e)/EWT(m)/EWP(t) IJP(c) JD/HW/GS-2/WH

ACC NR: AP6004470 SOURCE CODE: UR/0048/66/030/001/0068/0070

AUTHOR: Kirenskiy, L.V.; Chistyakov, N.S.

ORG: Physics Institute, Siberian Section, Academy of Sciences, SSSR (Institut fiziki Sibirskogo otdeleniya Akademii nauk SSSR)

TITLE: Superhigh frequency properties of multilayer film systems (Transactions of the Second All-Union Symposium on the Physics of Ferromagnetic Thin Films, held at Irkutsk, 10 July to 15 July 1964)

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 1, 1966, 68-70

TOPIC TAGS: ferromagnetic film, magnetic thin film, iron, nickel, molybdenum, quartz, laminated material, superhigh frequency, magnetization, microwave, ferromagnetic material, metal film, waveguide

ABSTRACT: The interaction of multilayer ferromagnetic film systems with microwave frequency fields has been investigated in order to determine whether the limitation imposed by the skin effect on the use of conducting ferromagnetic materials in microwave frequency applications can be obviated by depositing the material in layers that are thinner than the skin depth and are insulated from each other. The films were vacuum evaporated (10^{-5} mm Hg) in a 100-oe magnetic field onto 9-mm diameter circular or 23 x 10 mm rectangular glass plates heated to 200C. The metal (18Fe-79-Ni-3Mo) films were 1000 Å thick and were separated by 1500-2000-Å quartz films. Each metal film and its covering quartz film were deposited without breaking the vacuum. The vacuum was then broken and the crucibles recharged for deposition of the successive

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ACC NR: AP6004470

metal and quartz layers. Systems containing up to ten metal layers were investigated. The absorption of 3.2 cm microwaves by the film systems was investigated. The films were mounted so as to cover the entire area of a waveguide but with no electrical connection between the metal films and the waveguide wall, and the attenuation in the waveguide was measured. The attenuation was practically the same for a ten-layer film system as for a single film. The magnetization switching of the film system in a weak sinusoidal microwave frequency field was investigated by the technique described at the present symposium by N.S.Chistyakov and V.A.Ignatchenko (Izv. AN SSSR, Ser.fiz., 30, 61 (1966)). The signal obtained by this technique, which depends on the reaction exerted by the ferromagnetic film system on the superhigh frequency magnetic field in a resonator, increased rapidly with increasing number of layers. The observed behavior is ascribed to breakup of the eddy currents by the insulating quartz films, and it is concluded that further study will reveal possibilities for the practical application of multilayer ferromagnetic thin film systems. Orig. art. has: 1 figure.

[15]

SUB CODE: 20/ SUBM DATE: none/ ORIG. REF: 001/

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APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

RUNDKVIST, D.V., CHISTYAKOV, N.Ye.

Beryl-fluorite-muscovite type of mineralization. Geol. rud. mestorozh. no.2:44-52 Mr-Ap '60. (MIRA 13:8)
(Mineralogy)

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24735
S/078/61/006/007/013/014
B121/B207

X

21.2500

AUTHORS: Savitskiy, Ye. M., Terekhova, V. F., Burov, I. V., and Chistyakov, O. D.

TITLE: Phase diagram of the alloys of the system gadolinium-iron

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 7, 1961, 1732 - 1734

TEXT: The phase diagram of the alloys of the system gadolinium-iron was drawn up in all ranges of concentrations on the basis of physico-chemical analyses (thermal-, microstructural analysis, determination of hardness and microhardness, phase analysis, X-ray analysis and dilatometric studies). The alloys were prepared from distilled iron (99.9 %) and metallic gadolinium (99.0 %). The solubility of gadolinium in iron and of iron in gadolinium at room temperature does not exceed 0.2 - 0.3 % by weight. Alloys with 1 % by weight Gd already contain the phase of the $Fe_{17}Gd_2$ compound (24.8 % by weight Gd). The alloys with 25 % by weight and 58 % by weight Gd are completely one-phase in accordance with the compounds $Fe_{17}Gd_2$ (24.8 % by weight Gd) and Fe_2Gd (58.41 % by weight Gd). The alloys

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Phase diagram of...

with 12 % by weight Fe form a eutectic, $Gd_{solid\ solution}$ + Fe_2Gd, which melts at 830 ± 7°C. An addition of Gd to the iron alloys, solidifies α-iron in the region of the solid solution. The alloys containing 15 - 60 % by weight Gd are brittle. Thermal analysis was carried out in an experimental plant for high temperatures in vacuum and inert atmosphere. On the basis of the thermal analysis, the compounds Fe_2Gd and $Fe_{17}Gd_2$ were found to form by peritectic reactions at 1080 °C and 1335 ± 10°C. The structure of $Fe_{17}Gd_2$ which has a triclinic syngony (structu type Th_2Zn_{17}) was determined by X-ray analysis and the lattice parameters were found to be a = 8.519 ± 0.003 kX, c = 12.404 ± 0.005 kX and c/a = 1.456. The compound Fe_2Gd has cubic syngony with the lattice parameter a = 7.43 kX. Admixtures of Gd (up to 3 % by weight) slightly increase the temperature of the polymorphous transformation of α into γ. The solubility limit line of Fe and Gd was not determined. A study of the magnetic properties of the alloys up to 58 % by weight Gd shows that by a Gd addition of up to 0.2 % by weight a slight increase of magnetic

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Phase diagram of...

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saturation ($4\pi Is$) is favored. Fig. 2 shows the phase diagram of the system iron-gadolinium. P. I. Kripyakevich determined the crystal structure of the $Fe_{17}Gd_2$ compound. There are 2 figures and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc. The references to English-language publications read as follows: M. Hansen, Constitution of binary alloys, New York - London, 1958. Jr. K. A. Gschneider, J. T. Waber. Principles of alloying behavior of rare earth metals. Presented of American Society for Metals Atomic Energy Commission Symposium of the Rare Earths and Related Metals, Chicago Illinois, November, 3, 1959.

ASSOCIATION: Institut metallurgii im. A. A. Baykova Akademii nauk SSR (Institute of Metallurgy imeni A. A. Baykov of the Academy of Sciences USSR)

SUBMITTED: January 28, 1961

Card 3/4

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

S/194/62/000/005/011/157
D256/D308

AUTHOR: Chistyakov, O.S.

TITLE: Diode damper for thermoregulators

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1962, abstract 5-2-12 zh (Mashinostr. i energ. Kazakhstana, Nauchno-tekhn. sb., 1961, no. 6(16), 36-38)

TEXT: Bi-metal - and dilatometer thermo-relays are used in the industry as 2 position thermo-regulators. In order to prevent the burning or disintegration of the contacts, a delay arrangement, i.e. the diode damper, was introduced, which secures faultless operation at the time of making and breaking the circuit. The advantage of the diode damper circuit described is a faultless operation at 6.3V; the damper is installed in the thermo-regulators or pressing machines and drying ovens. [Abstractor's note: Complete translation].

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L 32667-66 EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) JD/JG/GD

ACC NR: AT6016409 (A) SOURCE CODE: UR/0000/65/000/000/0051/0053

AUTHORS: Naumkin, O. P.; Terekhova, V. F.; Chistyakov, O. D.; Savitskiy, Ye. M.

ORG: none

43
B+1

TITLE: Purification of metallic scandium by distillation 18

SOURCE: AN SSSR. Institut metallurgii. Metallovedeniye legkikh splavov (Metallography of light alloys). Moscow, Izd-vo Nauka, 1965, 51-53

TOPIC TAGS: scandium, metal purification, high purity metal

ABSTRACT: Preparation of metallic scandium of 99.4--99.6% purity by distillation of the technical 96--97% material is described as a continuation of the study of the physical and chemical properties of this metal by Ye. M. Savitskiy, V. F. Terekhova, O. P. Naumkin, and I. V. Burov (Tsvetnyye metally, 1963, No. 5, 51). The distillation was performed at 1650C and 10^{-4} mm Hg in an apparatus presented schematically in Fig. 1. Microscopic study of the obtained product shows improvement in its structure. The hardness and electrical resistance are lowered while ductility of the purer material is increased. Detailed chemical analysis of the product is reported. The authors express their gratitude to A. N. Shteynberg (IMYeT im. A. A. Baykov) for spectral analysis and to R. M. Liberman (Giredmet) for collaboration.

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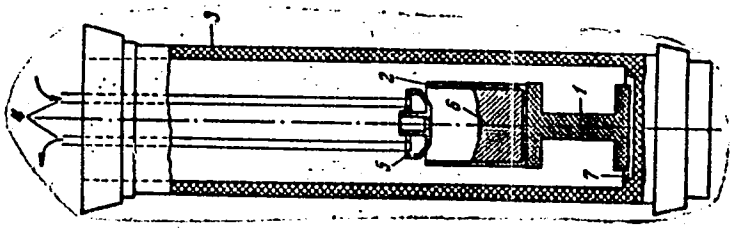

Fig. 1. Diagram of the equipment for distillation of metallic scandium: 1 - graphite base; 2 - tantalum crucible; 3 - graphite heater; 4 - water; 5 - copper condenser; 6 - metallic scandium; 7 - beryllium oxide packing.

Orig. art. has: 2 figures and 1 table.

SUB CODE: 11,07/ SUBM DATE: 16Sep65/ ORIG REF: 005/ OTH REF: 002

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APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, P.A.

Stratigraphy of lower Cretaceous red beds in the southwestern spurs of the Gissar Range. Trudy Inst.geol. AN Uz.SSR no.9:182-195 '53. (MIRA 12:1)

(Gissar Range--Geology, Stratigraphic)
(Rocks, Sedimentary)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

15-57-4-4506

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4, p 72 (USSR)

AUTHOR: Chistyakov, P. A.

TITLE: Classification of the Clastic-Carbonate and Carbonate Rocks (Klassifikatsiya oblomochno-karbonatnykh i karbonatnykh porod)

PERIODICAL: Zap. Uzbekist. otd. Vses. mineralog. o-va, 1956, Nr 9, pp 17-32

ABSTRACT: The author proposes a new classification of clastic-carbonate and carbonate rocks based on the quantitative relations of calcium carbonate, dolomite, and clastic material. In addition to chemical composition, it is proposed to consider the composition of the fragmental part (pelite, silt, and sand) and the structural features of the dolomite and calcite.

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, P.A.

Method for plotting cumulative curves when calculating granulometric coefficients. Izv. AN Uz. SSR. Ser. geol. no.3:57-61 '57.
(MIRA 11:9)

(Petrology)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, P.A.

AKRAMKHODZHAYEV, A.M.; PETROV, N.P.; CHISTYAKOV, P.A., kand.geol.-min.nauk, otvetstvennyy red.; GRIDNEV, N.I., kand.geol.-min.nauk, otvetstvennyy red.; CHERNYAVSKAYA, A.B., red.izd-va; ITSKOVSKIY, M.B., red. izd-va; GOR'KOVAYA, Z.P., tekhn.red.

[Lithology of Mesozoic deposits in Uzbekistan] K litologii mezozoiskikh otlozhenii Uzbekistana. Tashkent, Izd-vo Akad.nauk Uzbekskoi SSR. 1958. 184 p. (MIRA 11:7)
(Uzbekistan--Petrology)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

PETROV, Nikolay Petrovich; RUBANOV, Ivan Vasil'yevich; CHISTYAKOV, P.A., kand.geol.-min.nauk, otv.red.; CHAYKA, G.V., red.; SHEPEL'KOV, A., tekhn.red.

[Composition, formation, and means of utilizing Angren kaolins] Kaoliny Angrena, ikh veshchestvennyi sostav, usloviia obrazovaniia i puti ispol'zovaniia. Tashkent, Izd-vo Akad.nauk Uzbekskoi SSR, 1960. 148 p. (MIRA 14:4)
(Angren Valley—Kaolin)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, P.A.

Mineralogical composition of the clay portion of the Lower Cretaceous red bed in the southwestern spurs of the Gissar Range. Zap. Uz. otd. Vses. min. ob-va no.14:97-102 '62. (MIRA 16:7)

(Gissar Range region—Clay)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

PETROV, N.P.; CHISTYAKOV, P.A.

Development of studies in the field of lithology and sedimentary minerals. Uzb. geol. zhur. 6 no.6:45-51 '62. (MIRA 16:2)
(Uzbekistan--Geology, Economic)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

PETROV, N.P.; CHISTYAKOV, P.A.; BABAYEV, A.G., doktor geol-miner. nauk, otv. red.; KANASH, O.A., red.

[Lithology of salt and red-bed sediments in the south-western spurs of the Gissar Range] Litologiia solevykh i krasnotsvetnykh otlozhenii iugo-zapadnykh otrogov Gissara. Tashkent, Izd-vo "Nauka," 1964. 220 p. (MIRA 17:5)

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, P.A.

Nature of the color of Lower Cretaceous red beds in the southwestern spurs of the Gissar Range. Uzb.geol.zhur. 7 no.5:18-25 '63. (MIRA 17:3)

1. Institut geologii im. Kh.M.Abdullayeva AN UzSSR.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1"

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000308910009-1

CHISTYAKOV, P.A.

Onyx marble in the Kugitangtau. Uzb.geol.zhur. 7 no.5:79 '63.
(MIRA 17:3)

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L 17558-65 EWT(d)/EPF(n)-2/EWP(k)/EWP(h)/EWP(1)/EWP(v) Po-4/Pq-4/Pf-4/Pg-4/Pl-4/Pae-2/Pu-4/Pk-4 IJP(c)/ASD(a)-5/ASD/AEDC(a)/AFETR/AFTC(p)/RAEM(d)/RAEM(a)/ESD(dp) WW/BC

ACCESSION NR: AP5000155 S/0103/64/025/011/1630/1632

B

AUTHOR: Chistyakov, P. G. (Moscow)

TITLE: Approximate finding of periodic solutions for an automatic-control system containing two nonlinear feedbacks

SOURCE: Avtomatika i telemekhanika, v. 25, no. 11, 1964, 1630-1632

TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory

ABSTRACT: A case when the feedbacks have symmetrical nonlinearities is considered. The periodic solutions are found by the harmonic-balance method without plotting the family of characteristics which is necessary for the more general case. Phase and amplitude balances are jointly considered. Periodic solutions of the form A sin ωt are found for this case

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$$x_1 = W_{13}(p)x_3 + W_{14}(p)x_4,$$
$$x_2 = W_{23}(p)x_3 + W_{24}(p)x_4,$$
$$x_3 = R_1(A_1)x_1,$$
$$x_4 = R_2(A_2)x_2.$$

where $W_{13}(p)$, $W_{14}(p)$, $W_{23}(p)$ and $W_{24}(p)$ are the transfer functions of the linear part of the system, while $R_1(A_1)$ and $R_2(A_2)$ are the equivalent complex gains of the non-linear elements. Orig. art. has: 3 figures and 16 formulas.

ASSOCIATION: none

SUBMITTED: 04Apr63 ENCL: 00

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

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CHISTYAKOV, P.I. DECEASED

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CHISTYAKOV, P. M.

"The Bicentennial of the Kiyev Military Hospital," Voyenno-Med. Zhur., No. 11, p. 10, 1955.

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