LOGUNOV, P. I.

ANDON'YEV, V.L.; BAUM, V.A.; BAUMGARTEN, N.K.; BEREZIN, V.D.; BIRYUKOV, I.K.; BIRYUKOV, S.M.; BLOKHIN, S.I.; BOROVOY, G.A.: BULEV, M.Z.; BURAKOV, N.A.; VERTSAYZER, B.A.; VOVK, G.M.; VORMAN, B.A.; VOSHCHININ, A.P.; GALAKTIONOV, V.D., kand. tekhn. nauk; GENKIN, Ye.M.; GIL'DENBLAT, Ya.D., kand. tekhn. nauk; GINZBURG, M.M.; GLEBOV, P.S.; GODES, E.G.; GORBACHEV, V.N.; GRZHIB, B.V.; GREKULOV, L.F., kand. s.-kh. nauk; GRODZENSKAYA, I.Ya.; DANILOV, A.G.; DMITRIYEV, I.G.; DMITRIYENKO, Yu.D.; DOBROKHOTOV, D.D.; DUBININ, L.G.; DUNDUKOV, M.D.; ZHOLIK, A.P.; ZENKEVICH, D.K.; ZIMAREV, Ye.V.; ZIMASKOV, S.V.; ZUBRIK, K.M.; KARANOV, I.F.; KNYAZEV, S.N.; KOLEGAYEV, N.M.; KOMAREVSKIY, V.T.; KOSENKO, V.P.; KORENISTOV, D.V.; KOSTROV, I.N.; KOTLYARSKIY, D.M.; KRIVSKIY, M.N.; KUZNETSOV, A.Ya.; LAGAR'KOV, N.I.; LGALOV, V.G.; LIKHACHEV, V.P.; LOGUNOV, P.I.; MATSKEVICH, K.F.; MEL'NICHENKO, K.I.; MENDELEVICH, I.R.; MIKHAYLOV, A.V., kand. tekhn. nauk; MUSIYEVA, R.N.; NATANSON, A.V.; NIKITIN, M.V.; OVES, I.S.; OGUL'NIK, G.R.; OSIPOV, A.D.; OSMER, N.A.; PETROV, V.I.; PEHYSHKIN, G.A., prof.; P'YANKOVA, Ye.V.; RAPOPORT, Ya.D.; REMEZOV, N.P.; ROZANOV, M.P., kand. biol. nauk; ROCHEGOV, A.G.; RUBINCHIK, A.M.; RYBCHEVSKIY, V.S.; SADCHIKOV, A.V.; SEMENTSOV, V.A.; SIDENKO, P.M.; SINYAVSKAYA, V.T.; SITAROVA, M.N.; SOSNOVIKOV, K.S.; STAVITSKIY, Ye.A.; STOLYAROV, B.P. [deceased]; SUDZILOVSKIY, A.O.; SYRTSOVA, Ye.D., kand. tekhn. nauk; FILIPPSKIY, V.P.; KHALTURIN, A.D.; TSISHEVSKIY, P.M.; CHERKASOV, M.I.; CHERNYSHEV, A.A.; CHUSOVITIN, N.A.; SHESTOPAL, A.O.; SHEKHTER, P.A.; SHISHKO, G.A.; SHCHERBINA, I.N.; ENGEL', F.F.; YAKOBSON, A.G.; YAKUBOV, P.A., ARKHANGEL'SKIY,

(Continued on next card)

ANDON'YEV, V.L.... (continued) Card 2.
Ye.A., retsenzent, red.; AKHUTIN, A.N., retsenzent, red.; BALASHOV, Yu.S., retsenzent, red.; BARABANOV, V.A., retsenzent, red.; BATURER, P.D., retsenzent, red.; BORODIN, P.V., kand. tekhn. nauk, retsenzent, red.; VALUTSKIY, I.I., kand. tekhn. nauk, retsenzent, red.; GRIGOR'YEV, V.M., kand. tekhn. nauk, retsenzent, red.; GUBIN, M.F., retsenzent, red.; GUDAYEV, I.M., retsenzent, red.; YERMOLOV, A.I., kand. tekhn. nauk, retsenzent, red.; KARAULOV, B.F., retsenzent, red.; KRITSKIY, S.N., doktor tekhn. nauk, retsenzent, red.; LIKIN, V.V., retsenzent, red.; LUKIN, V.V., retsenzent, red.; LUSKIN, Z.D., retsenzent, red.; MATRIOSOV, A.Kh., retsenzent, red.; MENDELEYEV, D.M., retsenzent, red.; MENKEL', M.F., doktor tekhn. nauk, retsenzent, red.; OBRYZKOV, S.S., retsenzent, red.; PETRASHEN', P.N., retsenzent, red.; POLYAKOV, L.M., retsenzent, red.; RUMYANTSEV, A.M., retsenzent, red.; RYABCHIKOV, Ye.I., retsenzent, red.; STASENKOV, N.G., retsenzent, red.; TAKAHAYEV, P.F., retsenzent, red.; TARANOVSKIY, S.V., prof., doktor tekhn. nauk, retsenzent, red.; TIZDEL', R.P., retsenzent, red.; FEDOROV, Ye.M., retsenzent, red.; SHEVYAKOV, M.N., retsenzent, red.; SHMAKOV, M.I., retsenzent, red.; ZHUK, S.Ya. [deceased], akademik, glavnyy red.; FILISO, G.A., kand. tekhn. nauk, red.; FILIMONOV, N.A., red.; VOLKOV, L.N., red.; GRISHIN, M.M., red.; ZHURIN, V.D., prof., doktor tekhn. nauk, red.; KOSTROV, I.N., red.; LIKHACHEV, V.P., red.; MEDVEDEV, V.M., kand. tekhn. nauk, red.; MIKHAYLOV, A.V., kand. tekhn. nauk, red.; PETROV, G.D., red.; RAZIN, N.V., red.; SOBOLEV, V.P., red.; FERINGER, B.P., red.; FREYGOFER,

(Continued on next card)

ANDON'YEV, V.L.... (continued) Card 3.
Ye.F., red.; TSYPLAKOV, V.D. [deceased], red.; KORABLINOV, P.N., tekhn. red.; GENKIN, Ye.M., tekhn. red.; KACHEROVSKIY, N.V., tekhn. red.

[Volga-Don; technical account of the construction of the V.I. Lenin Volga-Don Navigation Canal, the TSimlyansk Hydroelectric Center, and irrigation systems] Volgo-Don; tekhnicheskii otchet o stroitel'stve Volgo-Donskogo sudokhodnogo kanala imeni V.I. Lenina, TSimlianskogo gidrouzla i orositel'nykh sooruzhenii, 1949-1952; v piati tomakh. Moskva, Gos. energ. izd-vo. Vol.1. [General structural descriptions] Obshchee opisanie sooruzhenii. Glav. red. S.IA. Zhuk. Red. toma M.M. Grishin. 1957. 319 p. Vol.2. [Organization of construction. Specialized operations in hydraulic engineering] Organizatsiia stroitel'stva. Spetsial'nye gidrotekhnicheskie raboty.

(Continued on next card)

ANDON'YEV, V.L.... (continued) Card 4.
Glav. red. S.IA. Zhuk. Red. toma I.N. Kostrov. 1958. 319 p.
(MIRA 11:9)
1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsii. Byuro tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Chlen-korrespondent Akademii nauk SSSR (for Akhutin). 3. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin, Razin).
(Volga Don Canal--Hydraulic engineering)

Logunov, S. S.

LOGUNOV, S. S., and D. A. BRASLAVSKII.

Pribory na samolete. 2 izd., znachitel'no perer. Dopushcheno v kachestve ucheb. posobiia dlia aviatsionnykh tekhnikumov. Moskva, Oborongiz, 1947. 524 p., diagrs.

First ed. pub. 1941 under the title: Aviatsionnye pribory.

Title tr.: Airplane insturments. Approved as a textbook for aeronautical technical schools.

Reviewed by S. V. Shchipanov in Sovetskaia Kniga, 1948, no. 12, p. 56-58.

TL589.B6 1947

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

HRASLAVSKIY, D.A.; LOGUNOV, S.S.; PEL'POR, D.S.; ASS, B.A., inzh., retsenzent

[Aeronautical instruments] Aviatsionnye pribory. Izd.2., perer. i dop. Moskva, Mashinostroenie, 1964. 740 p. (MIRA 18:2)

EEC-2/EWT(d)/EEC-4 Pn-4/Po-4/Pq-4/Pg-4/Pk-4/Pl-4

AM5012730 BOOK EXPLOITATION

Braslavskiy, D. A.; Logunov, S. S.; Pel'por, D. S.

Aircraft instruments (Aviatsionnyye pribory) 2d ed., rev. and enl. Moscow, Izd-vo "Mashinostroyeniye", 64. 0740 p. illus., biblio. 11, 000 copies printed.

TOPIC TAGS: aircraft flight instrument, aircraft autopilot, gyrocompass, gyroscope [illegible], inertial navigation equipment, accelerometer, original transmission, navigation equipment, automatic control

PURPOSE AND COVERAGE: A textbook written in compliance with the program of [illegible] technical [illegible] Instruments" course for aircraft instrument construction [illegible] materials of aircraft instruments theory, auto- [illegible] engineers, technicians who are [illegible] aircraft instruments and for students of technical schools.

TABLE OF CONTENTS (abridged):

Card 1/3

L 44565-65

AM5012738

Card 2/3

AM5012738

SUBMITTED: 22Oct64 SUB CODE: AC, NG

NO REF SOV: 033 OTHER: 001

Card 3/3

LOGUNOV, S. S.

PHASE I TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 376 - I

BOOK Call No.: AF625728

Author: BRASLAVSKIY, D. A., LOGUNOV, S. S. AND PIL'POR, D. S.

Full Title: CALCULATION AND DESIGN OF AVIATION INSTRUMENTS

Transliterated Title: Raschet i konstruktsiya aviatsionnykh priborov

Publishing Data

Originating Agency: None

Publishing House: State Publishing House of the Defense Industry (Oboronpromiz)

Date: 1954 No. pp.: 583 No. of copies: Not given

Editorial Staff

Editor: None Tech. Ed.: None

Editor-in-Chief: None Appraiser: None

Others: The authors express thanks to Chistyakov, N. I. and Tikhmenev, S. S., Doctors of Technical Science, and to the Staff of the Moskva Aviation Instrument Construction Tekhnikum im. Ordzhonikidze for critically reviewing various parts of the book.

Text Data

Coverage: This textbook is approved by the Administration of the Educational Department of the Ministry of the Aviation Industry of the USSR. It describes the theoretical principles and construction of aviation instruments of mechanical pilots and automatic naviga-

tors. Electrical instruments receive special attention because of their growing importance. Basic information is given on typical components of instruments such as: potentiometers, elastic sensitive elements, transforming and multiplying mechanisms, etc. because of the absence of educational helps in this field. Diagrams, tables, graphs, photos, etc.

An interesting and very well-compiled book. Chapters on electrical instruments, automatic navigators and automatic pilots contain a considerable volume of material and might be worth a closer study.

L 05102-67 EWT(l)

ACC NR: AP6013238 SOURCE CODE: UR/0413/66/000/008/0031/0032

AUTHORS: Verbitskiy, M. V.; Svirkov, V. S.; Semenova, Ye. A.; Logunov, S. S.

ORG: none

TITLE: A method for reducing the zero drift of a magnetic amplifier. Class 21, No. 180632

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 31-32

TOPIC TAGS: magnetic amplifier, amplifier design

ABSTRACT: This Author Certificate presents a method for reducing the zero drift of a magnetic amplifier with a differential load (see Fig. 1). The design simplifies the amplifier and increases its reliability. A signal is fed to the input of the magnetic amplifier. This signal is equal to the difference between the voltage proportional to the sum of the currents of the load at the present moment and to that same voltage at the moment of switching on the amplifier.

Card 1/2 UDC: 621.318.435.3

L 05102-67

ACC NR: AP6013238

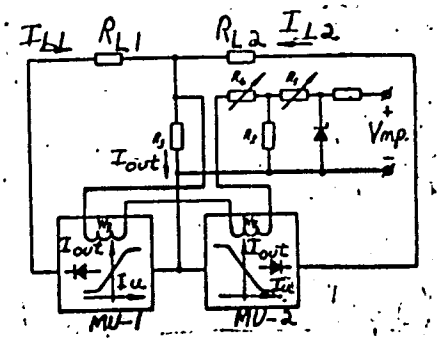

Fig. 1. MU-1 and MU-2 - single track magnetic amplifiers; R_{L1} and R_{L2} - load; R_1, R_2, R_3, and R_4 - resistors; W_c - control windings of the magnetic amplifiers

Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 25Feb65

Card 2/2 vmb

ACC NR: AP6025601 SOURCE CODE: UR/0413/66/000/013/0041/0041

INVENTORS: Verbitskiy, M. V.; Solov'yev, I. N.; Zavodkova, N. G.; Semenova, Ye. A.; Logunov, S. S.

ORG: none

TITLE: Static dc-to-ac converter. Class 21, No. 183270

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 41

TOPIC TAGS: transistorized circuit, dc to ac converter, frequency converter

ABSTRACT: This Author Certificate presents a transistorized bridge type static dc-to-ac converter with saturable transformers in the transistor base circuits. To stabilize the output power, copper resistors are connected in the transistor base circuits. (see Fig. 1). To stabilize the output frequency, a copper resistor is connected in series with the primary of the saturable transformer. To broaden the frequency range of conversion, an inductor with a series-connected diode is connected in parallel with the base-emitter junction of each transistor whose collector is connected to B-.

Card 1/2 UDC: 621.314.58

ACC NR: AP6025601

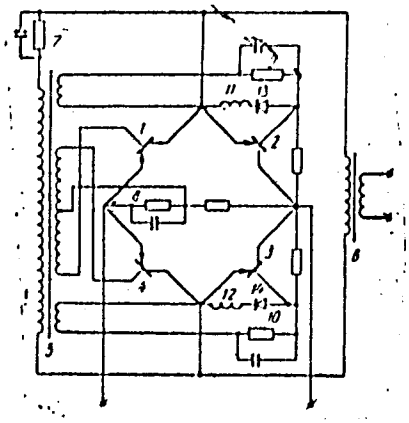

Fig. 1. 1-4 - transistors; 5 and 6 - transformers; 7-10 - copper resistors; 11 and 12 - inductors; 13 and 14 - diodes

Orig. art. has: 1 diagram.

SUB CODE: 09/ SUBM DATE: 15Sep64

Card 2/2

LOGUNOV, V.A., veterinarnyy vrach

Veterinary service on the collective farm. Veterinariia 36 no.7:35-38 Jl '59. (MIRA 12:10)

1. Kolkhoz imeni Komiterna, Michurinskogo rayona, Tambovskoy oblasti.
(Michurinsk District--Veterinary medicine)

LOGUNOV, Vasiliy Dmitriyevich; STRASHUN, B.A., red.; BELYAYEV, N.A., tekhn.red.

[Present control of the Danube by international law] Sovremennyi mezhdunarodno-provovoi rezhim Dunaia. Moskva, Izd-vo IMO, 1958. 150 p. (MIRA 11:5)
(Danube River--Navigation--Laws and regulations)

LOGUNOV, V.I.

Asymptotic behavior of the solutions to a linear differential equation of the nth order with delayed argument. Dif. urav. 1 no.4:467-468 Ap '65. (MIRA 18:5)

1. Udmurtskiy gosudarstvennyy pedagogicheskiy institut.

ACC NR: AR6035015 SOURCE CODE: UR/0044/66/000/008/B049/B049

AUTHOR: Logunov, V. I.

TITLE: The asymptotic behavior of the solutions of differential equations with a delayed argument

SOURCE: Ref. zh. Matematika, Abs. 8B230

REF SOURCE: Dokl. i soobshch. nauchn.-konferentsiy fiz.-matem. i yestestv. fak. Udmurtsk. gos. ped. in-t. Izhevsk, 1965, 16

TOPIC TAGS: ordinary differential equation, delayed argument equation, asymptotic property, solution asymptotic behavior

ABSTRACT: Under certain constraints for functions f(t, y), g(t) and constant matrix A, a solution of x(t) of the system

$$x'(t) = Ax(t),$$

such that

$$\lim_{t\to\infty} \|y(t) - x(t)\| = 0$$

Card 1/2 UDC: 517.949.2

ACC NR: AR6035015

corresponds to each solution of y(t) of the system

$$y'(t)=Ay(t)+f(t, y(t)-g(t))$$

Kh. Tsvang. [Translation of abstract] [DW]

SUB CODE: 12/

Card 2/2

LOGUNOV, V.N., LOBANOV, Yu.N., OVCHINNIKOV, E.P., PETUKHOV, V.A., RABINOVICH, M.S., RUSONOV, V.D.

"Experimental Investigations of Physical Processes Facilitating the Capture of Electrons Injected into the Betatron," paper presented at CERN Symposium, 1956, appearing in Nuclear Instruments, No. 1, pp. 21-30 1957

89-5-9/24

AUTHOR LOGUNOV, V.N., OVCHINNIKOV, Ye.P., RUSANOV, V.D.

TITLE The Experimental Determination of the Effectivity of Radiation Feed in Betatron.
(Eksperimentalnoye issledovaniye effektivnosti inzhektsii v betatrone-Russian)

PERIODICAL Atomnaya Energiya, 1957, Vol 2, Nr 6, pp 525 - 531 (U.S.S.R.)

ABSTRACT Magnetic and electric alternating fields which are artificially produced in the acceleration chamber of the betatron at the moment in which electron feed is supposed to take place give information concerning the effectivity of radiation feed. It was shown that both and additional magnetic field, the effect of which may be compared according to Kerst's hypothesis with the influence of an electric alternating field on a particle, and also the field of an artificially produced space charge increases the γ-yield in the betatron considerably only in the case of low feed currents. (2o - 3o-fold). Generally, it was possible to prove that similar artificial methods essentially cause no increase of intensity. Qualitative analysis permits the conclusion that the effect of the inductive concentration in agreement with Kerst is small in proportion to Coulomb's interaction in the case of normal operational conditions of the betatron. It is presumed that only such methods as are able to exercise considerable effect upon the stabilizing forces of the betatron magnetic field, increase the γ-yield to any considerable extent.

89-6-6/24

The Experimental Determination of the Effectivity of Radiation Feed in Betatron. PA - 3962

ASSOCIATION Not Given.
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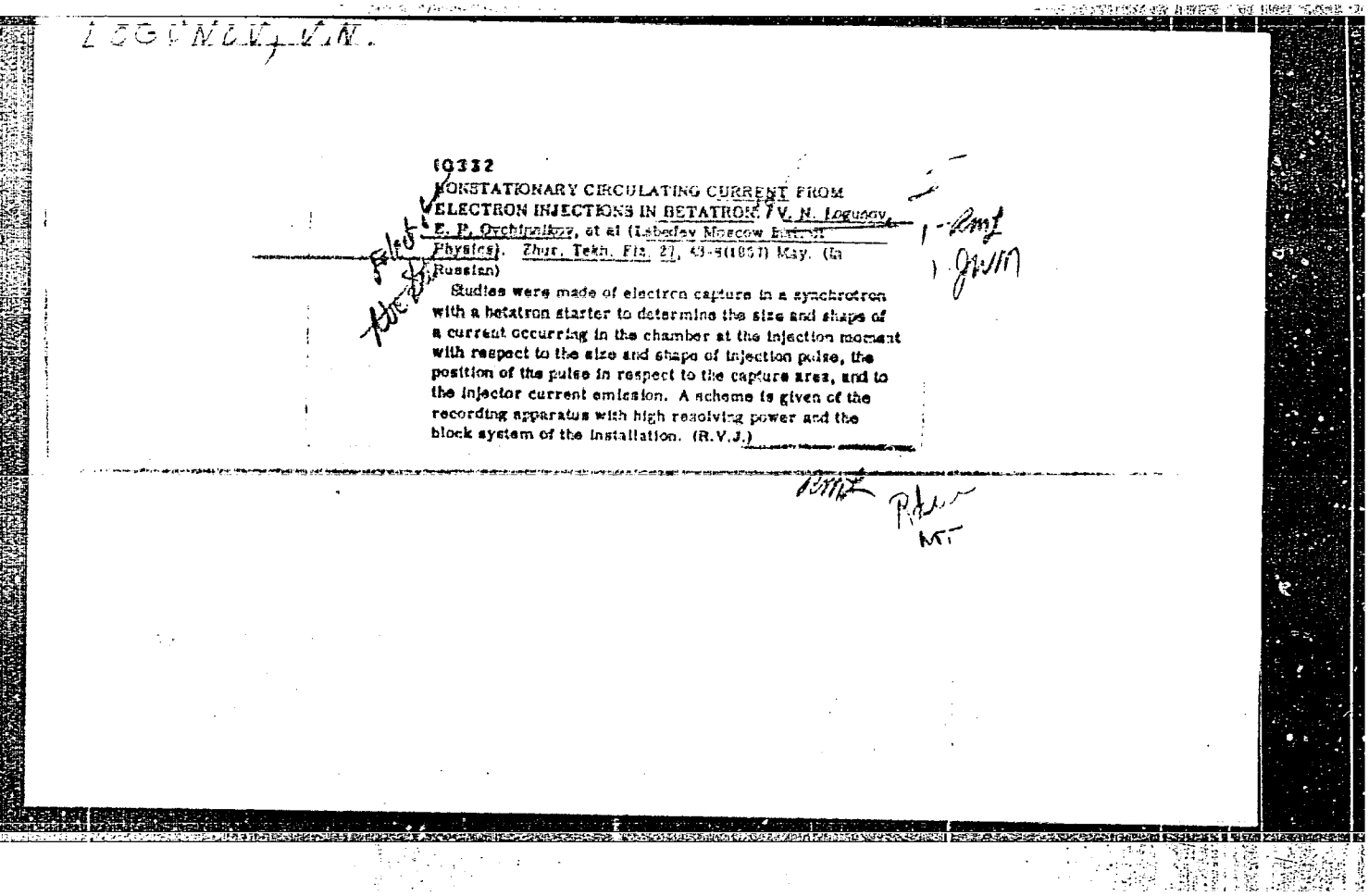
Card 2/2



[0332

NONSTATIONARY CIRCULATING CURRENT FROM ELECTRON INJECTIONS IN BETATRON. V. N. Logunov, E. P. Orchinnikov, et al (Lebedev Moscow Institute of Physics). Zhur. Tekh. Fiz. 27, 43-9(1957) May. (In Russian)

Studies were made of electron capture in a synchrotron with a betatron starter to determine the size and shape of a current occurring in the chamber at the injection moment with respect to the size and shape of injection pulse, the position of the pulse in respect to the capture area, and to the injector current emission. A scheme is given of the recording apparatus with high resolving power and the block system of the installation. (R.V.J.)

PA - 3571

AUTHOR: LOGUNOV,V.N., OVCHINNIKOV,YE.P., RUSANOV,V.D.

TITLE: Dependence of Continuous Radiation Intensity in Betatron on Injection Parameters. (Zavisimost' intensivnosti tormoznogo γ-izlucheniya betatrona ot osnovnykh parametrov inzhektsii, Russian)

PERIODICAL: Zhurnal Tekhn. Fiz. 1957, Vol 27, Nr 5, pp 1135-1142 (U.S.S.R.)

ABSTRACT: This paper aims at explaining the influence exercised by the impulse form at the injector on the capture of electrons on the occasion of the modification of the various injection parameters. The analysis of the obtained curves $I_{output} = f(i_{em})$ and $I_{output} = f(d)$ shows that no uniform mode of operation warranting capture at all working conditions of the betatron exists. The first curve shows the dependence of intensity on the amount of the current emitted from the injector into the chamber in the case of a given amplitude of the injection impulse. d denotes the distance between the filament of the injector and the present orbit of the maximum radius possible. In the case of low amperages of the injector a non-collective process takes place at the expense of an adiabatic modification of the magnetic field. Within the range of working currents a collective capturing process exists which essentially determines the efficacy of the injectors within this domain. The occurrence of this

Card 1/2

Dependence of Continuous Radiation Intensity in Betatron on Injection Parameters.

collective capturing process, which takes effect with growing injection voltage, is of a different character than that occurring with a diminishing impulse domain of injection voltage. The character of capture in a flat part is qualitatively similar to that on the occasion of an impulse decrease. The efficacy of capture in the case of an impulse decrease seems to be essentially determined by the decrease of the space charge in the accelerator chamber because with a reduction of the duration of the decrease, capturing increases considerably. From the point of view of betatron construction it is desirable to have an impulse form of injection with a slowly growing front and a steeply declining rear front. (With 10 Illustrations).

ASSOCIATION: Physical Institute "P.N. LEBEDEV" of the Academy of Sci
PRESENTED BY:
SUBMITTED: 2.7.1956
AVAILABLE: Library of Congress

PA - 3572

AUTHOR: LOGUNOV,V.N., OVCHINNIKOV,YE.P., RUSANOV,V.D., SEMENOV,S.S.

TITLE: Nonstationary Circulating Current by Electron Injection in Betatron. (Nestatsionarnyy tsirkuliruyushchiy tok pri inzhektsii elektronov v betatron, Russian)

PERIODICAL: Zhurnal Tekhn. Fiz. 1957, Vol 27, Nr 5, pp 1143-1148 (U.S.S.R.)

ABSTRACT: The experiments were carried out in a 30 MeV synchrotron with betatron injectors. Measuring of the amount and form of the current was carried out by means of an induction connection between the current in the chamber and the receiving coil near the chamber. A receiving- and registering apparatus with high reactivity was constructed. This made it possible to observe current modifications in the chamber during some revolutions of the particles. The main difficulties are described which had to be overcome in constructing this apparatus.
After a detailed description of the apparatus and the experiment the following conclusions were arrived at:
1.) The absolute amount of the circulating current in the chamber is determined at optimum conditions by the limiting charge which is bound by the stabilizing forces of the magnetic field. Therefore also the γ-bremsstrahlung is determined by the limiting charge.

Card 1/2

PA - 3572

Nonstationary Circulating Current by Electron Injection in Betatron.

2.) The coefficient of electron transition from the nonsteady to the steady circuit grows with an increase of the injection current and attains an optimum value of 0.3 + 0.4.

3.) The induction process of compressing the orbit suggested by D.W.KERST (Phys.Rev. 60, 47, 1941 and Rev.Sci.Instr. 21, 462, 1950) is not able alone to explain the efficacy of the injection in the case of a normal operation of the betatron. (With 7 Illustrations).

ASSOCIATION: Physical Institute "P.N.LEBEDEV" of the Academy of Science of the U.S.S.R.

PRESENTED BY:
SUBMITTED: 13.7.1956
AVAILABLE: Library of Congress

Card 2/2

Logunov, V.N.

56-6-33/47

AUTHORS: Logunov, V.N., Semenov, S.S.

TITLE: On the Electron Capture in a Betatron (O zakhvate elektronov v betatrone)

PERIODICAL: Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1957, Vol. 33, Nr 6, pp. 1513-1514 (USSR)

ABSTRACT: Hitherto, a process in a betatron, which may act upon electron capture in connection with acceleration in the betatron regime has not found much attention. If we study the motion of the electrons in a coordinate system moving on an equilibrium orbit with the azimuthal velocity of the fed-in electrons, the electrons will, in such a coordinate system, move against one another. As, however, the velocity, which corresponds to the motion of the electrons along the radius is low, the probability of a collision of two electrons is rather high. Because of multiple scattering, the electrons, which formerly had been oscillating with an equal amplitude, will now have amplitudes which are distributed according to a Gaussian function, and therefore the condition for a sudden damping of oscillation will be given for a certain part of the electrons fed onto an eqilibrium orbit. There

Card 1/2

On the Electron Capture in a Betatron 56-6-33/47

are 1 figure and 5 references, 3 of which are Slavic.

ASSOCIATION: Inst. of Physics imeni P.N. Lebedev, AN USSR(Fizicheskiy institut im. P.N. Lebedeva Akademii nauk SSSR)

SUBMITTED: July 10, 1957

AVAILABLE: Library of Congress

Card 2/2

SOV-120-58-1-10/43

AUTHORS: Logunov, V. N. and Semenov, S. S.

TITLE: Internal Injection of Electrons in a Betatron (O vnutrenney inzhektsii elektronov v betatrone)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1958, Nr 1, pp 49-50 (USSR)

ABSTRACT: It has been shown (Refs.1 and 2) that the work of a betatron is still possible when the injector is placed on the inner side of the stable orbit. However, there is no information in the literature on the effectiveness of the internal as compared with external injection of electrons in the betatron. This would be of interest in the determination of the possible mechanism of capture of electrons into the betatron acceleration regime and also in the elucidation of the possibilities of practical application of internal injection. Two injectors have been tried by the authors, placed both on the inner and the outer side of the stable orbit. The work was carried out in conjunction with the 30 MeV cyclotron of the Lebedev Physical Institute. The photograph of the internal injector is shown

Card 1/3

Internal Injection of Electrons in a Betatron.

in Fig.1. The electron optical system of the internal injector was an exact replica of the electron optics of an external injector in the form of the usual 3 electrode device. Measurements of the intensity of γ-rays have shown that the absolute magnitude of this intensity is the same for the internal injector as for the external injector with the same injection parameters. Figs.2 and 3 show the intensity of the γ-rays as a function of the emission current of the injector and its position. The curves are identifiable for both the internal and the external injectors. It is concluded that the position of the injector relative to the equilibrium orbit is immaterial. There are 3 figures, no

SOV-120-58-1-10/43

Internal Injection of Electrons in a Betatron.

tables and 2 English references.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR (Institute of Physics im. P. N. Lebedev, Academy of Sciences USSR)

SUBMITTED: July 3, 1957.

1. Betatrons--Design 2. Betatrons--Performance 3. Betatrons --Equipment 4. Electron capture

Card 3/3

2/.2000

66376

SOV/120-59-5-29/46

AUTHORS: Logunov, V.N. and Semenov, S.S.

TITLE: Contractor for a Betatron

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 5, pp 122 - 123 (USSR)

ABSTRACT: A description is given of a contractor circuit used to ensure maximum γ-ray intensity, using the 30 MeV synchrotron of the Physics Institute of the Ac.Sc., USSR. It is claimed to be more stable than those described so far. The circuit may be used to ensure a greater rate of change of magnetic flux at low consumed power. Three copper turns were placed in the median plane, as shown in Figure 1. The three turns were then connected to the electronic circuit on the left of Figure 3. The input valve is a 6N5S double triode. The maximum voltage on the anodes of the valves reaches 180 V and the valves are cut off by a negative bias of 150 V. At the instant of injection, a positive rectangular pulse having an amplitude of 150 V is applied to the control grids of the valves. The duration of the pulse is 10 μs, the rise time of the leading edge is 0.4 μs and the duration of the tail

Card1/2

4

is 0.6 μs. The injection is carried out with the aid of a half-sine pulse, 5 μs long. Figure 2 shows a typical increase in the intensity of the γ-rays, using the contractor and an average injector. The upper curve was obtained with the contractor and the lower curve without it.
(This is an abridged translation).
There are 3 figures and 4 references, of which 3 are English and 1 Soviet.

ASSOCIATION: Fizicheskiy institut AN SSSR (Physics Institute of the Ac.Sc., USSR)

SUBMITTED: September 6, 1958

41434
S/120/62/000/005/006/036
E039/E420

24.6740

AUTHORS: Logunov, V.N., Semenov, S.S.

TITLE: The influence of focusing the injector on the intensity of betatron gamma radiation

PERIODICAL: Pribory i tekhnika eksperimenta, no.5, 1962, 35-37

TEXT: A normal three electrode betatron injector is arranged so that its beam divergence can be reduced from 20 to 3.5° by means of a diaphragm slit. For optimum phase conditions and constant voltage on the injector the gamma radiation intensity is slightly higher for the 3.5° beam than for the 20° beam. An examination of the trapping of electrons in the betatron regime shows that coulomb interactions play a large part and that bad focusing leads to the formation of a space charge mainly near the injector. The results indicate that the optimum divergence of the beam lies in the range 20 to 25° which confirms earlier measurements on the Physics Institute synchrotron working in the betatron regime. By varying the voltage on the injector with a beam divergence of 20° the gamma radiation intensity passes through a maximum at ~22 KV for a beam current of 50 μA and ~24 KV for a beam

Card 1/2

ACCESSION NR: AT3012931 S/2504/63/019/000/0151/0157

AUTHORS: Logunov, V. N.; Semenov, S. S.

TITLE: Dependence of betatron Gamma Ray intensity on the main parameters of internal electron injection

SOURCE: AN SSSR. Fizicheskiy institut. Trudy*, v. 19, 1963, 151-157

TOPIC TAGS: betatron, electron injection, betatron Gamma ray intensity, internal injection, external injection, capture efficiency, Gamma bremsstrahlung intensity, Coulomb interaction force

ABSTRACT: To compare the efficiencies of internal and external injection in a betatron, two injectors were installed in the central plane of the betatron at equal distances inside and outside the equilibrium orbit. Two pulsed generators were used, one producing a triangular injection pulse and the other a trapezoidal one with variable flat top duration and with variable leading and trailing

Card 1/3

ACCESSION NR: AT3012931

front slopes. Measurements of the intensity of the γ-ray bremsstrahlung have shown that the absolute intensity obtained with both types of injectors is the same for equal injection parameters. The same pertains to comparisons of the capture region, dependence of the capture efficiency on the emission current, the dependence of the capture efficiency on the form of the injection pulse. Experiments on the influence of the electron Coulomb interaction forces on the capture efficiency were made with an additional injector placed in the chamber 30° in azimuth from the main injector and producing a secondary time-varying electron cloud localized in azimuth. At small main-injector emission currents the capture efficiency was greatly increased by the auxiliary injector, but with increasing main emission current the auxiliary injector became less and less effective. This is attributed to the production of an electron cloud by the main injector. The damping produced by multiple collisions between electrons, which can contribute to the capture of electrons in the betatron acceleration mode, is also considered

Card 2/3

ACCESSION NR: AT3012931

briefly. The net conclusion is that the position of the injector relative to the equilibrium orbit ..s immaterial. Orig. art. has: 6 figures and 5 formulas.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR (Physics Institute, AN SSSR)

SUBMITTED: 00	DATE ACQ: 05Sep63	ENCL: 00
SUB CODE: PH	NO REF SOV: 004	OTHER: 001

Card 3/3

LOGUNOV, Yu. N., inzh.; ALYUKHIN, Yu.S.

Semiconductor unit for cooling small animals. Probl. kosm. biol. 4:555-559 '65. (MIRA 18:9)

LOGUNOVA, A. G.

Director, Kharkov scientific research institute for the care of mother and child

"Pregnandiol level in the urine in miscarriage and the effect of vitamin E upon it," by R. S. Mirsagatova, Akush. i gin. no.4:64-69 Jl-Ag 1952

Excerpta Medica 8/6 sec 15 June 55 Tuberculosis & Pulmonary Diseases

1211. LOGUNOVA A.G., BUROVA M.D. and DVOYRIN M.S. * Anti-tb vaccination in an Ukrainian village PROBL.TUBERK. 1954, 2 (3-7) Tables 2 (Russian text)

From 1949 on newborns at the maternities of the Ukrainian kolchoses are vaccinated.

1211 CONT

Practically every kolchos has a maternity (6305 in the whole country). The inoculation is carried out by specially trained people and not only by physicians. A decrease of the number of tuberculous meningitis is attributed to this method.

Frey - Berlin (XV, 7, 10)

LUR'YE, Aleksandr Yudimovich, prof., vrach (1897-1958); MAKARCHENKO, A.F., prof., otv. red.; YEVDOKIMOV, A.I., kand. med. nauk, red.; KALINICHENKO, T.Ya., kand. med. nauk, red.; KRUPKO, Yu.A., kand. med. nauk, red.; LOGUNOVA, A.G., kand. med. nauk, red.; PAP, A.G., kand. med. nauk, spets. red.; PANCHENKO, N.I., kand. med. nauk, red.; SAVITSKIY, V.N., doktor med. nauk, prof., red.; SVESHNIKOVA, N.V., kand. med. nauk, red.; TEL'NOVA, R.I., kand. med. nauk, red.; TIMOSHENKO, L.V., kand. med. nauk, spets. red.; YANKELEVICH, Ye.Ya., prof., red.; YANKOVSKAYA, Z.B., red. izd-va; MATVEYCHUK, A.A., tekhn. red.

[Selected works] Izbrannye trudy. Kiev, Izd-vo Akad. nauk USSR. 1960. 425 p. (MIRA 14:7)

1. Chlen-korrespondent Akademii nauk USSR (for Lur'ye, Makarchenko)
(GYNECOLOGY)

LOGUNOVA, A.G. [Lohunova, A.H.], dotsent; MIKHAYLOVSKIY, V.S. [Mykhailovs'kyi, V.S.], kand.med.nauk

Some data on the action of aminazine in obstetrical and gynecological practice. Ped., akush. i gin. 22 no.4:54-57 '60. (MIRA 14:5)

1. Kafedra akusherstva i ginekologii (zav. - prof. O.Yu.Lur'ye [deceased]) Kiyevskogo ordena Trudovogo Krasnogo Znameni meditsinskogo instituta im. akademika O.O.Bogomol'tsa (direktor - dotsent I.P.Alekseyenko) i Ukrainskogo nauchno-issledovatel'skogo instituta neyrokhirurgii (direktor - zasluzhennyy deyatel' nauki, prof. O.I. Arutyunov).

(CHLORPROMAZINE) (GYNECOLOGY)

GALUSHIN, V.M.; LIKHOPEK, Ye.A.; LOGUNOVA, F.N.; RUBINSHTEYN, N.A.

Gulls in the southeastern Yamal Peninsula. Uch. zap. MGPI no.227: 279-290 '64. (MIRA 18:11)

LOGUNOVA, G.

If there are no indifferent persons.... Sov. profsoiuzy 20 no.3:28-29 F '64. (MIRA 17:3)

1. Predsedatel' mestnogo komiteta shkoly No.735, Moskva.

KISEL'NIKOV, V.N.; LEMSHIN, V.Ya.; SHIROKOV, S.G.; Prinimali uchastiye: MUKHINA, L.V.; PRISHCHEPINA, A.I.; LOGUNOVA, G.V.; LAPSHINA, L.M.; PENYAYEVA, L.A.

Production of granulated carbamide from the melt of the distillation column of the first stage in a fluidized bed. Izv. vys. ucheb. zav.; khim. i khim. tekh. 8 no.3:504-510 '65. (MIRA 18:10)

1. Ivanovskiy khimiko-tekhnologicheskiy institut, kafedra protsessov i apparatov.

LOGUNOVA, I.G., prof.

First Far Eastern Scientific and Practical Conference in Vladivostok. Biul. Ucn. med. sov. 3 no. 1:34-35 Ja-F '62. (MIRA 17:10)

Loganova, K.S.

KOSHTOYANTS, Kh. S.; LOGUNOVA, K. S.

"Rol' sul'fgidril'nykh grupp v effekte "uskol'zaniya" serdtsa ot ugnetayushchego vliyaniya bluzhdayushchego nerva".

Dokl. AN SSSR, 1950, t. 73, No 2, s. 429-432, ris. Literatura 3 nazv.

LOGUNOVA, K.S.; KIPERSHLAK, Ye.Z.

Correlation between basic electrographic indicators of the frog heart and reactive groups of its proteins. Fiziol. zh. SSSR 39 no. 1:71-76 Jan-Feb 1953. (CIML 24:2)

1. Department of Animal Physiology of Moscow Order of Lenin State University imeni M. V. Lomonosov.

Kh. S. Koshtoyants and Logunova had shown that the heart's escape from the sippressing effect of the vagus is due to lack of free SH groups and that the addition of urea liberates SH groups (Dokl. AN SSSR, Vol.73, p.429,1950). Binding of SH groups by $CdCl_2$ leads to distinct shifts in the electrogram (EG) of the frog's heart. Addition of cysteine reverses the changes brought about by $CdCl_2$. Urea, by liberating SH groups, produces sharp changes in the initial as well as final p part of the EG. The changes due to cysteine are not equivalent to those produced by urea.

254T2

LOGUNOVA, K.S.

USSR

Dependence of electrical potentials on metabolism of the heart. K. S. Logunova (M. V. Lomonosov State Univ., Moscow). *Izvest. Akad. Nauk S.S.S.R., Ser. biol.* 1954, No. 6, 52-61; cf. *C.A.* 47, 5018d.—Alteration of metabolism causes definite changes in the form of the cardiogram as shown in expts. with frogs. Binding of SH groups by $CdCl_2$, causing structural changes in contractile protein and changes in enzymic processes, leads to increase of the *P-R* interval and flattening or inversion of the *T* spike; appearance of the *S* spike may take place, while the *S-T* interval declines. Introduction of cysteine reverts the picture to normality. $CO(NH_2)_2$ greatly increases the initial tissue potential. Partial application of $CdCl_2$ to myocardium leads to monophase behavior of the elec. potential of the heart, removable by addn. of cysteine. C. M. K.

KOZLOV, V.A.; KHODOV, L.V.; LOGUNOVA, M.M.; TARUBAROV, I.G.

Technical and economic results enterprises of nonferrous metallurgy in 1957. Biul. TSIIN tsvet. met. no.8:34-38 '58. (MIRA 11:6)
(Nonferrous metal industries)

L 10336-67 EWP(j)/EWT(m) IJP(c) RM SOURCE CODE: UR/0413/66/000/015/0086/0086

ACC NR: AP6027909 (A)

AUTHORS: Dontsov, A. A.; Farka, P. I.; Logunova, R. A.; Yermilova, G. A.; Dogadkin, B. A. 29

ORG: none

TITLE: A method for protecting polyolefins against zonal aging by heat and light. Class 39, No. 184428 [announced by Moscow Institute of Fine Chemical Technology im. M. V. Lomonosov (Moskovskiy institut tonkoy khimicheskoy tekhnologii)]

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 86

TOPIC TAGS: carbon black, polyolefin, light aging, polypropylene plastic

ABSTRACT: This Author Certificate presents a method for protecting polyolefins against zonal aging by heat and light as described in Author Certificate No. 172033. To increase the stabilizing activity in the case of aging by heat and light, sulfidized polypropylene is applied together with carbon black.

SUB CODE: 11/ SUBM DATE: 16Jul65

UDC: 678.74.040.4:678.742.3'6.046.2

Card 1/1 pb

LOGUNTSOV, B. M.: Master Tech Sci (diss) -- "Investigation of the basic dependencies in breaking up medium-hard rock with a cutting instrument". Moscow, 1958. 17 pp (Acad Sci USSR, Inst of Mining), 150 copies (KL, No 6, 1959, 17[illegible])

SOV/3o-58-8-33/43

AUTHOR: Loguntsov, B. M.

TITLE: On Problems of Rock Disintegration (Voprosy razrusheniya gornykh porod) Transactions of the Conference in the Mining Institute (Soveshchaniye v Institute gornogo dela)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 8, pp. 13o - 132 (USSR)

ABSTRACT: This coordination conference was held from May, 2o - 22. It was called by the Institut gornogo dela Akademii nauk SSSR (Mining Institute AS USSR). Representatives of scientific research institutes, of universities, of planning bureaux and manufacturing plants participated in the work. The following lectures were held:
B.M.Leybov on methods of evaluating coal structure.
M.M.Protod'yakonov and B.M.Loguntsov on the standardization and the establishment of a uniform scale of drilling work.
A.N.Zelenin on a more precise method of the determination of limit values of rock stress values.
V.S.Kravchenko, A.P.Obraztsov and D.A.Denisov on the application of magnetic high-frequency fields for the breaking

Card 1/2

On Problems of Rock Disintegration. Transactions of the Conference in the Mining Institute SOV/30-58-8-33/43

up of quartzites from the anomalous magnetic ores from Kursk and from ores of other sites.
A.P.Ostrovskiy, A.I.Gol'binder and A.A.Pavlichenko on new methods of blasting in the drift advance of bore holes.
M.I.Koyfman on rules governing the rock disintegration by means of rotating and percussion drilling.
R.M.Eygeles on the dependence of bore thrust on the drill pressure, on the drill speed, on rock properties etc.
Ye.I.Il'nitskaya on mechanical extraction of coal.
N.G.Karatavoy on the specific pressure distribution on the leading edge of the cutter in coal extraction.
At the end of the conference it was emphasized that the majority of research work which has hitherto been conducted was entirely of an experimental nature. Theoretical and experimental research is to be intensified in the future.

Card 2/2

LYUBOSHCHINSKIY, Dmitriy Markovich; POZIN, Yevgeniy Zal'manovich; KAZAK, Yuriy Nikolayevich; ZIL'BERT, Izrail' Samoylovich; LOGUNTSOV, B.M., otv. red.; SHOROKHOVA, A.V., red. izd-va; IL'INSKAYA, G.M., tekhn. red.

[Breaking of coal by the cutting elements of mining machines] Razrushenie uglei ispolnitel'nymi organami vyemochnykh mashin. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 220 p. (MIRA 14:5)
(Coal mining machinery)

LOGUNTSOV, B.M., kand.tekhn.nauk

Evaluating the operating efficiency of cutters of cutter-loaders.
Nauch.soob.Inst.gor.dela 7:93-97 '61. (MIRA 15:1)
(Mining machinery)

BARON, Lazar' Izrailevich; LOGUNTSOV, Boris Maksimovich; ARKHANGEL'SKIY, A.S., otv. red.; LOMILINA, L.N., tekhn. red.

[Analysis of various ways of breaking rocks in connection with designing mining cutter-loaders]Analiz razlichnykh sposobov razrusheniia gornykh porod primenitel'no k sozdaniiu porodo-prokhodcheskikh kombainov. Moskva, TSentr. in-t tekhn. informatsii ugol'noi promyshl., 1962. 53 p. (MIRA 16:4)
(Rocks—Testing) (Mining machinery)

LOGUNTSOV, B.M., kand.tekhn.nauk

Scientific Technological Conference on Rock Breaking. Gor.zhur. no.5:78-79 My '62. (MIRA 16:1)
(Mining engineering—Congresses)

BARON, L.I., doktor,tekhn.nauk; ZAGORSKIY, S.L., kand.tekhn.nauk; LOGUNTSOV, B.M., kand.tekhn.nauk

Breaking rocks with freely rotating wedge-shaped rollers. Shakht. stroi. 7 no.1:8-12 Ja '63. (MIRA 16:2)

1. Institut gornogo dela imeni A.A.Skochinskogo.
(Mining machinery--Testing)

ALEKSANDROV, Nikolay Nikolayevich; KOCHERGINA, Anna Vasil'yevna; POKROVSKIY, Leonid Alekseyevich. Prinimal uchastiye KHNYKIN, V.F.; LOGUNTSOV, B.M., otv. red.; GEYMAN, L.M., red. izd-va; MAKSIMOVA, V.V., tekhn. red.

[Contemporary mechanization for working placer deposits] Sovremennaia mekhanizatsiia dlia razrabotki rossypei; spravochnoe posobie. Moskva, Gosgortekhizdat, 1963. 462 p. (MIRA 16:7)
(Hydraulic mining—Equipment and supplies)
(Automatic control)

LOGUNTSOV, B.M., kand.tekhn.nauk

Conference on the breaking of rocks. Nauch. soob. IGD 17:164-167 '62. (MIRA 16:7)

(Mining engineering)

LOGUNTSOV, B.M.; ALEKHOVA, Z.N.

Investigating the process of rock cutting with dulling tools. Fiz. mekh. svois., dav. i razr. gor. porod. no.2:66-71 '63. (MIRA 17:1)

BERON, A.I.; LOGUNTSOV, B.M.; GUBENKOV, Ye.K.

Multiple-position two-component dynamometer. Fiz. mekh. svois., dav. i razr. gor. porod. no.2:103-106 '63. (MIRA 17:1)

LOGUNTSOV, B.M., kand.tekhn.nauk

Some problems in the mechanical crushing of rocks as applicable to the design of the actuating elements of mining cutter loaders. Nauch. soob. IGD 21:142-150 '63. (MIRA 17:2)

GUBENKOV, Ye.K.; ZAGORSKIY, S.L.; LOGUNTSOV, B.M.

Grinding the cutters of coal cutter-loaders on the rocks of a massif. Fiz. mekh. svois., dav. i razr. gor. porod. no.2:81-87 '63. (MIRA 17:1)

SHIRENKO, K.I.; MODESTOV, Yu.A.; LOGUSOV, B.I.

Testing the chamber and pillar mining method in mine No.3. Ugol' 34 no.12:10-14 D '59. (MIRA 13:4)

1. Shakhta No.3 (for Shirenko). 2. Leningradskiy gornyy institut (for Modestov). 3. Trest Leningradslanets (for Logusov).
(Leningrad Province--Shale)
(Mining engineering)

LOGUSOV, B.I., gornyy inzh.

Mechanized digging of drainage trenches in the Estonslanets Trust mines. Ugol' 37 no.8:44 Ag '62. (MIRA 15:9)

1. Shakhta No.6 Kombinata po razrabotke mestorozhdeniy estonskikh goryuchikh slantsev.
(Estonia—Mine drainage)

LOGUSZ, Stanislaw, inz.

Miniaturization of parts of electric equipment in mining engineering.
Wiadom gorn 13 no.12:450-452 D '62.

LOGUSZ, Stanislaw, inz.

Mining telephone cables; a discussion. Przegl gorn 17 no.9:489-491 S '61.

LOGUTENOK, E.P.

The "Ford" 6000 tractor. Trakt. i sel'khozmash. 32 no.7:40-41 Jl '62. (MIRA 15:7)

(United States—Tractors)

LOGUTENOK, E.P.

The new "Caterpillar" crawler tractor. Trakt. i sel'khozmash. 32 no.10:46 O '62. (MIRA 15:9)
(United States—Crawler tractors)

LOGUTENOK, E.P., inzh.

Work of a shredding drum with hinge-type fastening of hammers. Trakt. i sel'khozmash. 33 no.12:18-20 D '63. (MIRA 17:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mekhanizatsii sel'skogo khozyaystva.

LOGUTENKO, N.N.

In hospitable Vietnam. Zdorov'e 8 no.6:25 Je '62. (MIRA 15:5)

1. Otvetstvennyy sekretar' Obshchestva sovetsko-v'yetnamskoy druzhby.
(VIETNAM, NORTH--PUBLIC HEALTH)

LOGUTENKO, N.V.

Effectiveness of different methods for tilling the compact sod of lowland meadows in Gornyy Altai. Izv. vost. fil. AN SSSR no.9:133-139 '57. (MIRA 11:1)

1. Zapadno-Sibirskiy filial AN SSSR.
(Gorno-Altai Autonomous Province--Pastures and meadows)
(Tillage)

[illegible], [illegible]V., Cand Biol Sci --(diss) "[illegible] of the north-eastern regions of the Gorno-Altayskaya Autonomous Oblast and means of their improvement." Tomsk, [illegible]. 14 pp; 1 sheet of tables (Tomsk State U im V.V. Kuybyshev), [illegible] copies (KL, 32-59, [illegible])

-13-

LOGUTENKO, N.V.

Ecological characteristics of tufted hair grass (Deschampsia caespitosa (L.) P.B.), the dominant species in lowland meadows of the Gornyy Altai. Bot.zhur. 44 no.11:1593-1599 N '59. (MIRA 13:4)

1. Biologicheskiy institut Sibirskogo otdeleniya Akademii nauk SSSR, g.Novosibirsk.
(Altai Mountains--Deschampsia)

LOGUTENKO, N.V.

Lowland meadows and grass marshes of the forest-steppe and steppe zones of the Altai Territory and Novosibirsk Province. Trudy TSSBS no.6:306-333 '63.

Materials on the study of marsh and meadow mosses of the forest-steppe and steppe regions of Western Siberia. Trudy TSSBS no.6: 334-337 '63. (MIRA 17:7)

RYZHIKOVA, A.G.; LOGUTENOK, E.P.

A new tractor from "Implement and Traktor," no.15 Ag. 19[illegible]1". Trakt. i sel'khozmash. 32 no.6:45-46 Je '62. (MIRA 15:6)
(United States—Tractors)

AP4010315 S/0048/64/028/001/0169/0171

AUTHOR: Salanskiy, N.M.; Logutko, A.L.; Rodichev, A.M.

TITLE: Curve of equilibrium states in magnetization of a silicon iron crystal /Report, Symposium on Questions of Ferro- and Antiferromagnetism held in Krasnoyarsk, 25 June to 7 July 1962/

SOURCE: AN SSSR. Izvestiya, seriya fizicheskaya, v.28, no.1, 1964, 169-171

TOPIC TAGS: equilibrium magnetization state, ferromagnetic domain, ideal magnetization curve, domain structure, silicon iron, ferromagnet, magentic theory

ABSTRACT: The purpose of the work was to obtain the ideal magnetization curve for a cilicon iron single crystal and to investigate its domain structure in equilibrium states corresponding to different values of the external field. The purpose of the experiments was to check the thermodynamic theory of V.A.Ignatchenko, I.F.Degtyarev and Yu.V.Zakharov (Izv.AN SSSR,Ser.fiz.25,12,1961), which predicts, for a case of this type, decrease in the total number of domains and decrease in the width of the disadvantageously oriented domains. The 3.5% Si iron single crystals were etched and polished on two sides and annealed following the standard procedure. The di-

Card 1/2

AP4010315

mensions of the specimens were 10 x 10 x 0.15 mm; this size was deliberately chosen to be close to the values used in the numerical calculations performed in the above mentioned reference. The plane of the specimens was parallel to within 1-3° to the (110) planes and one of the sides was aligned with the 100 direction. The external field was applied in this direction. From among the 80 prepared specimens there were selected four with uniform plane-parallel domain structure over the entire specimen. The equilibrium states were obtained by demagnetization with a gradually decreasing alternating field in the presence of the desired constant field. Photographs of the domain structure are reproduced. The experimental results confirm the theoretical prediction of decrease in the number of domains with increase of the applied field. The average domain width versus field curve is also close to the theoretical curve. The ideal magnetization curve obtained from ballistic measurements agrees with the magnetization curve plotted on the basis of the domain areas. Orig.art.has: 3 figures.

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

SUBMITTED: 00 DATE ACQ: 10Feb64 ENCL: 00

SUB CODE: PH NR REF SOV: 006 OTHER: 002

Card 2/2

LOGUTKO, A.L.; RODICHEV, A.M.; SALANSKIY, N.M.; SMOLIN, R.F.

Measuring the duration of magnetic reversal pulses. Fiz. met. i metalloved. 20 no.2:306-308 Ag '65. (MIRA 18:9)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR.

ACC NR: AP7000655 (A) SOURCE CODE: UR/0126/66/022/005/0698/0701

AUTHORS: Salanskiy, N. M.; Logutko, A. L.; Frolov, G. I.; Abakumov, B. M.

ORG: Institute of Physics, SO AN SSSR (Institut fiziki SO AN SSSR)

TITLE: Static and impulse magnetization and reversal of magnetization of thin films

SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 5, 1966, 698-701

TOPIC TAGS: magnetic hysteresis, hysteresis loop, ferromagnetic film, magnetic domain structure

ABSTRACT: The "virgin" magnetization curve and hysteresis loops of thin films containing 82% Ni and 18% Fe were determined in static and pulsating magnetic fields. The effect of partial reversal of the magnetic field on the domain structure of the specimens was studied. The experimental procedure is described by T. S. Hoffman, I. A. Turner, and T. I. Kilburn (J. of British Institute of Radio Engineers, 1960, 20, 1, 31). The experimental results are presented graphically (see Fig. 1). Photographs of the domain structure of specimens exposed to different magnetization conditions are presented. The time dependence of domain nucleation on the magnitude of the variable magnetic field was also studied. The results are shown graphically. It was found that the change in the domain structure of specimen, as a result of the application of a variable magnetic field, was analogous to that found under similar conditions by N. M. Salanskiy and G. I. Frolov (FMM, 1966, 21, 157).

Card 1/2 UDC: 539.216.2:538.24

ACC NR: AP7000655

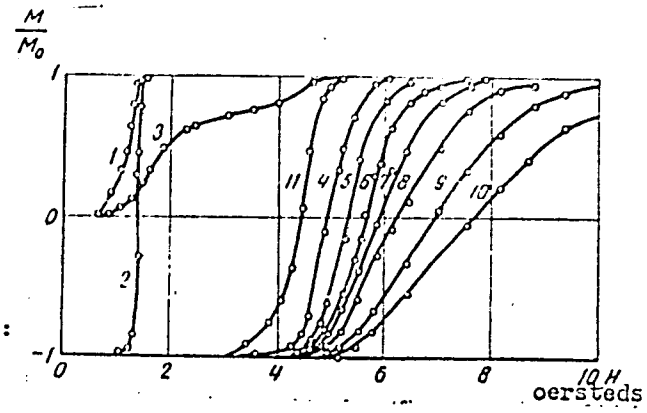


Fig. 1. Static (1) and impulse (3) "virgin" magnetization curves, static (2) and impulse (4—10) magnetic reversal curves and dispersion curve H_k in terms of magnitude (11) for thin ferromagnetic film (H_k = 4.4 oersteds, H_c = 1.3 oersteds, angular dispersion α_{90} = 0.06 oersted, d - 1100 Å). Duration of impulses t_{imp}: 4 - 500, 5 - 300, 6 - 200, 7 - 150, 8 - 100, 9 - 70, 10 - 50 nanoseconds

Orig. art. has: 5 graphs.

SUB CODE: 20, 11/ SUBM DATE: 28Jun65/ ORIG REF: 002/ OTH REF: 001

Card 2/2

LOGUTOV, Dmitriy Petrovich; MOISEYENKO, Fedor Potapovich, kand.biolog. nauk; ROZHAVINA, A., red.; MIKHAYLOV, G., red.; IOAKIMIS, A., tekhn.red.

[Classification tables for valuating pine, spruce, fir, oak, ash, maple, beech, white beech, aspen, birch, alder, linden, and black locust] Sortimentnye tablitsy dlia taksatsii sosny, eli, pikhty, duba, iasenia, klena, buka, graba, osiny, berezy, ol'khi, lipy i akatsii beloi. Izd.2, dop. Kiev, Gos.izd-vo lit-ry po stroit. i arkhit.USSR, 1959. 865 p. (MIRA 13:3)
(Forests and forestry--Valuation)

GAMBURG, A.L.; YEVGRANOVA, V.G.; LOGUTOV, G.F.; RYAZANSKIY, B.V.

Treatment of alcoholism with antethyl. Trudy Gos. nauch.-issl. psikhonevr. inst. no.20:243-247 '59. (MIRA 14:1)

1. Kafedra psikhiatrii Saratovskogo meditsinskogo instituta. Zaveduyushchiy kafedroy - M.P.Kutanin.
(DISULFIDE—THERAPEUTIC USE) (ALCOHOLISM)

KRASNOV, S.; LOGUTOV, P.

Work of interfarm organizations of the R.S.F.S.R. Zhil.stroi. no.10:1 '58. (MIRA 12:6)

1. Glavnyy inzhener Glavkolkhoz-4 stroya (for Krasnov). 2. Zamestitel' nachal'nika Glavkolkhozstroya (for Logutov).
(Farm buildings)

Leningrad

25(5) PHASE I BOOK EXPLOITATION SOV/2166

Opyt ratsionalizatsii kuznechnogo proizvodstva; k 250-letiyu Leningrada (Experience in Improving Forge Work; On the 250th Anniversary of Leningrad) [Leningrad] Lenizdat, 1957. 194 p. 3,000 copies printed.

Ed. (Title page): P.V. Kamnev; Ed. (Inside book); Ye. V. Yemel'yanova; Tech. Ed.: N.I. Rodchenko

PURPOSE: The collection of articles is intended for workers and engineers in forge shops and also for designers of machinery in related branches of machine manufacturing.

COVERAGE: The book describes the experience gained at several Leningrad plants in the rationalization of manufacturing processes, modernization of equipment, and improvement in the economics and planning of forging production. Tables and drawings accompany every article. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Card 1/3

Experience in Improving Forge Work SOV/2166

Card 2/3

AVAILABLE: Library of Congress (TS 225.K336)

Card 3/3

TM/fal
10-18-59

BARON, Lazar' Izrailevich, prof., doktor tekhn. nauk; LOGUNTSOV, Boris Maksimovich; POZIN, Yevgeniy Zal'manovich; BUCHNEV, V.K., zasl. deyatel' nauki i tekhniki RSFSR, prof., doktor tekhn. nauk, retsenzent; ZELENIN, A.N., prof., doktor tekhn. nauk, retsenzent; GEYMAN, L.M., red. izd-va; PROZOROVSKAYA, V.L., tekhn. red.

[Determining properties of rocks; reference book] Opredelenie svoistv gornykh porod; spravochnoe posobie. Pod red. L.I. Barona. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1962. 331 p. (MIRA 15:3)
(Rocks--Testing)

LOGVIN, E.I. [Lohvin, E.I.]

Structure of the Korostyshev granite massif. Geol. zhur. 20 no. 5:29-38 '60. (MIRA 14:1)
(Korostyshev region—Granite)

SEMENENKO, A.P., akademik, otv. red.; SHCHERBAK, N.P., kand. geol.-miner. nauk, red.; BARTNITSKIY, Ye.N., kand. khim. nauk, red.; LOGVIN, E.I., inzh., red.; CHEKHOVICH, N.Ya., red.

[Geochronology of the Precambrian of the Ukraine] Geokhronologiia dokembriia Ukrainy. Kiev, Naukova dumka, 1965. 261 p. (MIRA 18:9)

1. Akademiya nauk URSR, Kiev. Instytut geologichnykh nauk.
2. Akademiya nauk Ukr.SSSR (for Semenenko).

NECHAYEV A.A.; ZAKAMYRDIN, I.A.; LOGVIN, F.

Information and brief news. Veterinariia 40 no.3:92-96 Mr '63. (MIRA 17:1)

1. Zamestitel' nachal'nika Upravleniya veterinarii Ministerstva sel'skogo khozyaystva SSSR (for Nechayev).

KOZLOV, I.V., dorozhnyy master (stantsiya Kiik Tashkentskoy dorogi); TEYEVIRE, A.V., dorozhnyy master (stantsiya Elva Estonskoy dorogi); PODKLAD, P.I., brigadir puti (stantsiya Perm'); LOGVIN, F.G.; NUKKA, R.Ya.; PUTNIK, N.M., dorozhnyy master (stantsiya Almaznaya Donetskoy dorogi); TIMOFEYEV, S.

Give us an answer. Put' i put. khoz. no.5:41-42 My '58.
(MIRA 13:3)

1.Starshiy dorozhnyy master, stantsiya Beshtau Ordzhonikidzevskoy dorogi (for Logvin). 2. Nachal'nik distantsii, g.Pyarnu (for Nukka). 3.Starshiy dorozhnyy master, stantsiya Karachev Moskovsko-Kiyevskoy dorogi (for Timofeyev).
(Ballast (Railroads))

LOGVIN, G.

We improve the operation of dwellings. Zhil.-kom. khoz. 12 no.10:10-11 O '62. (MIRA 16:2)

1. Zamestitel' zaveduyushchego Sverdlovskim oblastnym komitetom kommunal'nogo khozyaystva.
(Sverdlovsk—Apartment houses)

LOGVIN, G. A. (Veterinary Assistant, Korostensk District, Zhitomir Oblast').

"Treatment of swine when their esophagus in clogged up with potato tubers"...

Veterinariya, vol. 39, no. 8, August 1962 pp. 51

LOGVIN, I. [Lohvin, I.]

This is how I saw Cuba. Nauka i zhyttia no.11:54-56 N '61.
(MIRA 14:12)
(Cuba--Politics and government)