GAREYEV, E.Z.

The botanical garden of the Biological Institute of the Kirghiz Branch of the Academy of Sciences of the U.S.S.R. on the occasion of the 25th jubilee anniversary of Kirghizia. Izv.KirFAN SSSR no.1/10:43-54 '51. (MLRA 8:1)

(Kirghizistan--Botanical gardens)

GAREYEV, E.Z.

NAZAREVSKIY, S.I.; MAKAROV, S.N.; PILIPENKO, F.S.; GERASIMOV, M.V.; IL'INSKAYA, M.L.; VEKSLER, A.I.,[deceased]; VASIL'YEV, I.M.; IL'INA, N.V.; SOKOLOV, S.Ya.; LOZINA-LOZINSKAYA, A.S.; SAAKOV, S.G.;ZALESSKIY, D.M.; AVRORIN, N.A.; IVANOV, M.I.; PRIKLADOV, N.V.; SOBOLEVSKAYA, K.A.; SALAMATOV, M.N.; MALINOVSKIY, P.I.; LUCHNIK, A.I.; KRAVCHENKO, O.A.; VEKHOV, N.K.; GROZDOV, B.V.; MASHKIN, S.; BOSSE, G.G.; PALIN, P.S.,(g.Shuya, Ivanovskoy oblasti); MATUKHIN; ZATVARNITSKIY, G.F.; GRACHEV, N.G.; CHERKASOV, M.I.; KIRKOPULO, Ye.N.; LEVITSKAYA,A.M.; GRISHKO, N.N.; LIKHVAR', D.F. VIL'CHINSKIY, N.M.; LYPA, A.L.; OREKHOV, M.V.; SHCHERBINA, A.A.; TSYGANKOVA, V.Z.; BARANOVSKIY, A.L.; GEORGIYEVSKIY, S.D.; STEPUNIN, G.A. OZOLIN, E.P.; LUKAYTENE, M.K.; KOS, Yu.I.; VAIL'YEV, A.V.; RUKHADZE, P.Ye.; VASHADZE, V.N.; SHANIDZE, V.M.; MANDZHAVIDZE, D.V.; KORKESHKO, A.L.; KOLESNIKOV, A.I.,(g. Sochi); SERGEYEV, L.I.; VOLOSHIN, M.P.; RYBIN, V.A.; IVANOVA, B.I.; RYABOVA, T.I.; GAREYEV, E.Z. ;RUSANOV, F.N.; BOCHANTSEVA, Z.P.; BLINOVSKIY, K.V.; KLYSHEV, L.K.; MUSHEGYAN, A.M.; LEONOV, L.M.

Talks given by participants in the meeting. Biul.Glav.bot.sada no.15: 85-182 '53. (MLRA 9:1)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR (for Makarov,Pilipenko, Gerasimov, Il'inskaya, Veksler); 2. Akademiya komunal'nogo khozyaystva imeni K.D. Pamfilova for Vasil'yev); 3. Vsesoyuznaya sel'skokhozyaystvennaya vystavka (for Il'ina); 4. Botanicheskiy sad Botanicheskogo instituta imeni V.L.Komarova Akademii nauk SSSR (for Sokolov, Lozina-Lozinskaya, Saakov); 5. Botanicheskiy sad Leningradskogo

(continued on next card)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514320009-7"

NAZAREVSKIY, S.L.---(continued) Card 2.

gosudarstvennogo ordena Lenina universiteta (for Zalesskiy); 6. Polyarno-Al'piyskiy botanicheskiy sad Kol'skogo filiala imeni S.M. Kirova Akademii nauk SSSR (for Avrorin); 7. Botanicheskiy sak pri Tomskom gosudarstvennom universiteta (for Ivanov); 8. Botanicheskiy sad pri Tomskom gosudarstvennom universiteta imeni V.V. Kuybysheva (for Prikladov); 9. TSentral'nyy Sibirskiy botanicheskiy sad Zapadno-Sibirskogo filiala Akademii nauk SSSR (for Salamatov, Sobolevskaya); 10. Botanicheskiy sad Irkutsko gosudarstvennogo universiteta imeni A.A. Zhdanova (for Malinovskiy); 11. Altayskaya plodovo-yagodnaya opytnaya stantsiya (for Luchnik); 12. Bashkirskiy botanicheskiy sad (for Kravchenko); 13. Lesostepnaya selektsionnaya opytnaya stantsiya dekorativnykh kul'tur tresta Goszelenkhoz Ministerstva kommunal'nogo khozyaystva RSFSR (for Vekhov); 14. Bryanskiy lesokhozyaystvennyy institut (for Grozdov); 15. Botanicheskiy sad pri Voronezhskom gosudarstvennom universitete (for Mashkin); 16. Orekhovo-Zuyevskiy pedagogicheskiy institut (for Bosse); 17. Botanicheskiy sad pri Matukhin); 18. gosudarstvennom universitete imeni V.M. Molotova (for Botanicheskiy sad Kuybyshevskogo gorodckogo otdela narodnogo obrazovaniya (for Zatvarnitskiy); 19. Zoobotanicheskiy sad pri Kazanskom universitete (for Grachev); 20. Gosudarstvennyy respublikanskiy proektnyy institut "Giprokommunstroy" (for Cherkasov); 21. Botanicheskiy sad Odesskogo gosudarstvennogo universiteta imeni I.I. Mechnikova (for Kirkopulo); 22. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 23. Botanicheskiy sad

(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 3.

Akademii nauk USSR (for Grishko, Likhvar', Vil'chinskiy); 24. Kiyevskiy sel'skokhozyaystvennyy institut (for Lypa); 25. Botanicheskiy sad Chernovitskogo gosudarstvennogo universiteta (for Orekhov); 26. Botanicheskiy sad pri L'vovskom gosudarstvennom universitete imeni Iv. Franko (for Shcherbina); 27. Botanicheskiy sad Khar'kovskogo gosudarstvennogo universiteta imeni A.M. Gor'kogo (for TSygankova); 28. Botanicheskiy sad Zhitomirskogo sel'skokhozyaystvennogo instituta (for Baranovskiy); 29. Botanicheskiy sad Akademii nauk Belorusskoy SSR (for Georgiyevskiy); 30. Institut biologii Akademii nauk Belorusskoy SSR (for Stepunin); 31. Botanicheskiy sad Akademii Litovskoy SSR (for Lukaytene); 32. Botanicheskiy sad Latviyskogo gosudarstvennogo universiteta (for Ozolin); 33. Kabardinskiy krayevedcheskiy botanicheskiy sad (for Kos); 34. Sukhumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Vasil'yev, Rukhadze); 35. Batumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Shanidze); 36. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Mandzhavidze); 37. Sochinskiy park Dendrariy (for Korkeshko); 38. Gosudarstvennyy Nikitskiy botanicheskiy sad imeni V.M. Molotova (for Sergeyev, Voloshin); 39. Krymskiy filial Akademii nauk SSSR (for Rybin); 40. Botanicheskiy sad Moldavskogo filiala Akademii nauk SSSR (for Ivanova); 41. Botanicheskiy sad Botanicheskogo instituta Akademii nauk Tadzhikskoy SSR (for Ryabova); 42. Botanicheskiy sad Kirgizskogo filiala Akademii nauk SSSR (for Gareyev); 43. Botanicheskiy

(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 4.

sad Akademii nauk Usbekskoy SSR (for Rusanov, Bochantseva); 44. Botanicheskiy sad Akademii nauk Turkmenskoy SSR (for Blinovskiy); 45. Respublikanskiy sad Akademii nauk Kazakhskoy SSR (for Klyshev, Mushegyan).

(Botanical gardens)

GAREYEV, E.Z.

Quality of Chu Valley dried fruit. Trudy Inst. bot.i rast. KirFAN SSSR no.1:55-61 '54. (MLRA 10:1)
(Chu Valley--Fruit--Evaporation)

GARSYEV, E.Z.

Work of the Botanical Garden of the Academy of Sciences of the Kirghiz S.S.R. Biul.Glav.bot.sada no.20:50-53 '55. (MLRA 8:9)

1. Botanicheskiy sad Akademii nauk Kirgizskoy SSR.
(Kirghizistan--Botanical gardens)

GAREYEV, E.Z.

GAREYEV, E.Z., kand.sel'skokhoz.nauk; TKACHENKO, V.I., kand.biolog.nauk; KUNCHENKO, A.I., mladshiy nauchnyy sotr.; SHPAK, R.L., mladshiy nauchnyy sotr.; KRIVOSHEYEVA, L.S., mladshiy nauchnyy sotr.; NIKITINA, Ye.V., kand.biol.nauk, red.; ANOKHINA, M.G., tekhn.red.

[Guide to the botanical garden] Putevoditel' po Botanicheskomu sadu. Frunze, 1957. 78 p. (MIRA 11:1)

1. Akademiya nauk Kirgizskoy SSR, Frunze. Botanicheskiy sad.
2. Akademiya nauk Kirgizskoy SSR, Botanicheskiy sad, Institut botaniki (for Kareyev, Tkachenko, Kunchenko, Shpak, Krivosheyeva, Nikitina).

(Frunze--Botanical gardens)

GAREYEV, E. Z., Doc of Bio Sci -- (diss) "Peculiarities of the formation of apple blossom buds." Moscow, 1957, 30 pp (Institute of Plant Physiology im K. A. Timiryazev, AS USSR), 200 copies (KL, 30-57, 109)

GAREYEV, E.

USSR/Cultivated Plants - Fruits and Berries. M-5

Abs Jour : Ref Zhur - Biol., No 3, 10992

Author : Gareyev, E.
Inst :
Title : The Variety Composition of Plums Should be Renovated.

Orig Pub : S. Sb. Kirgizii, 1957, No 3, 20-22

Abstract : No abstract.

Card 1/1

15

GAREYEV, Enver Zakiz'yanovich, doktor biolog.nauk; NOSOVETS, F.G., red.; CHOTIYEV, S., tekhn.red.

[Fruit culture in Kirghizistan] Plodovye kul'tury Kirgizstana. Frunze, Kirgizskoe gos.izd-vo, 1959. 132 p. (MIRA 15:5)
(Kirghizistan—Fruit culture)

GAREYEV, E.Z.

Effect of fruit drop on the formation of flower buds in the apple tree. Izv. AN Kir.SSR Ser.biol.nauk 1 no.3:67-81 '59.
(MIRA 13:7)

(KIRGHIZISTAN--APPLE)

GAREYEV, M.Z.

Winter-hard peaches for commercial production. Izv. AN Kir. SSR. Ser.biol.nauk 1 no.3:151-152 '59. (MIRA 13:7)
(KIRGHIZISTAN--PEACH--VARIETIES)

GARNYEV, E.Z.

Twenty years' work in developing the Botanical Garden [of the Institute of Botany of the Academy of Sciences of the Kirghiz S.S.R.]. Izv. AN Kir.SSR Ser.biol.nauk 1 no.3:3-9 '59.
(MIRA 13:7)

(FRUNZE--BOTANICAL GARDENS)

TKACHENKO, V.I.; GAREYEV, E.Z., otv.red.; BUTENKO, N.P., red.izd-va; ANOKHINA, M.G., tekhn.red.

[Trees and shrubs of the North American flora in the botanical garden of Frunze] Derev'ia i kustarniki severoamerikanskoi flory v usloviiakh Botanicheskogo sada goroda Frunze. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR, 1960. 129 p. (MIRA 13:7)
(Frunze--Plant introduction) (Trees) (Shrubs)

GAREYEV, E. Z.

Regionalization of fruit culture in Kirghizistan. Izv. Kir. fil. Geog. ob-va SSSR no.3:73-76 '62. (MIRA 15:10)

(Kirghizistan—Fruit culture)

GAREYEV, E.Z.

Fruit trees for landscape gardening in Frunze. Izv.AN Kir.SSR. Ser.biol.nauk 4 no.3:21-27 '62. (MIRA 15:11)
(FRUNZE--FRUIT TREES)
(FRUNZE--LANDSCAPE GARDENING)

GAREYEV, E.Z.

New promising forms of peach hybrids. Izv.AN Kir.SSR,Ser.biol. nauk 4 no.3:135-138 '62. (MIRA 15:11)
(CHU VALLEY--PEACH BREEDING)

GAREYEV, E.Z.; LITVINOV, N.A.

Apple hybrids of the Botanical Garden in the Tien Shan. Izv. AN Kir. SSR. Ser. biol. nauk 5 no.2:49-51 '63. (MIRA 16:9)

GAREYEV, E.Z.

Tasks of landscape gardening in the cities and populated places of Kirghizia. Izv. AN Kir. SSR. Ser. biol. nauk 5 no.2:7-12 '63.

Promising hybrid plums of the Botanical Garden. Izv. AN Kir. SSR. Ser. biol. nauk 5 no.2:63-64 '63. (MIRA 16:9)

GAREYEV, E.Z.

Twenty-fifth anniversary of the Botanical Garden of the Academy of Sciences of the Kirghiz S.S.R. Izv. AN Kir.SSR.Ser.biol.nauk 5 no.4:5-17 '63.

Prospective hybrid apples of the Botanical Garden. Ibid.:35-55

Nectarines. Ibid.:103-105 (MIRA 17:4)

ACC NR: AP7012411

SOURCE CODE: UR/0367/67/005/001/0123/0128

AUTHOR: Gareyev, F. A. -- Gareev, F. A.; Grabovskiy, Ya. -- Grabowski, Ya.; Kalinkin, B. N.

ORG: Joint Institute for Nuclear Research (Ob"yedinennyy institut yadernykh issledovaniy)

TITLE: Diffraction effect in the angular distribution of transfer reaction products

SOURCE: Yadernaya fizika, v. 5, no. 1, 1967, 123-128

TOPIC TAGS: angular distribution, nuclear collision

SUB CODE: 20

ABSTRACT: The diffraction effect in the angular distribution of transfer reaction products has been treated. Its relation to the parameters characterizing collisions between nuclei is established. It is qualitatively explained why an asymmetry exists in the half-widths of the stripping and pick-up reaction product energy spectrum. Orig. art. has: 3 figures and 10 formulas. [Based on authors' Eng. Abst.] [JPRS: 40,393]

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0932 1343

L 12617-65 EWT(d)/EED-2/EWP(1) Pg-4/Pk-4/Po-4/Pq-4 IJP(c) GG/BB

ACCESSION NR: AP4039736 S/0141/64/007/002/0352/0357

AUTHOR: Gareyev, F. A.; Popov, V. A. B

TITLE: Logical circuits based on diodeless cells with bridge coupling

SOURCE: IVUZ. Rdiofizika, v. 7, no. 2, 1964, 352-357

TOPIC TAGS: logic circuit, logic network, circuit gate magnetic core, bridge, magnetic core, trigger circuit

ABSTRACT: A possible way of constructing diodeless logic circuits with rectangular-hystereis-loop ferrites is proposed. The elementary diodeless bridge cell is analogous to the usual split-winding ferrite-diode cell with the reverse flow of information suppressed suitable core connection. The circuit is similar to that of L. A. Russell (IRE Convention Record v. 5, 106, 1957) in that it requires slow switching of the auxiliary cores; unlike the Russell circuit, however, the proposed circuit uses not transformer but choke coupling. Investigations have shown that the use of such a coupling results in higher speed, other conditions being equal. The circuit chosen for the elementary cell makes it possible to construct all the logic circuits and to effect branching of information in simple fashion. The uses of the elementary cell to synthesize circuits for logical negation,

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L 12617-65
ACCESSION NR: AP4039736

logical addition, logical multiplication, noncoincidence, and a dynamic flipflop are all demonstrated. The main advantage of such diodeless circuits is their increased reliability. Winding data for the coils are also given. Orig. art. has: 4 figures, 1 formula, and 1 table.

ASSOCIATION: Ural'skiy politekhnicheskiy institut (Ural Polytechnic Institute)

SUBMITTED: 24May63 ENCL: 01

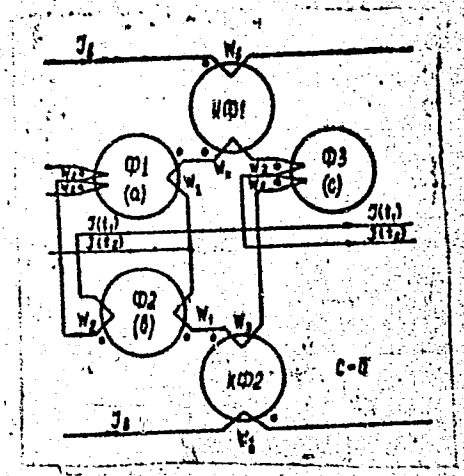
SUB CODE: DP, EC NR REF SOV: 001 OTHER: 002

Card 2/3

L 12617-65

ACCESSION NR: AP4039736

ENCLOSURE: 01



Diodeless bridge cell

Card 3/3

GAREYEV, F.A.; KALINKIN, B.N.

Inelastic scattering of complex nuclei. IAd. fiz. 2 no.4:635-642 O '65. (MIRA 18:11)

1. Ob"yedinennyy institut yadernykh issledovaniy.

GAREYEV, I. I.

Jaw of Fossil Rhinoceros antiquitatis (Blumb.) From the Environs of the City of Krivoy Rog

The author describes a new find of the jaw and teeth of a fossil rhinoceros which were discovered in a sandy pit on the left slope of the Chervonnaya valley in the neighborhood of the city of Krivoy Rog. The found remains are referred by the author to the species Rhinoceros antiquitatis (Blumb). The characteristics of the jaw and teeth of the rhinoceros are accompanied by a detailed description of the profile section of the sandy deposits uncovered by the pit, where the above-mentioned remains were found. (RZhGeol, No. 6, 1955) Geologiva i mineralogiya, No. 1, 1954, 97-101.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

KHALILOV, A.Kh.; PARFEN'YEV, I.; AKCHURIN, B.S., kand.veterinarnykh nauk; ALPAROV, D.A., kand.biologicheskikh nauk; GAREYEV, M.S., mladshiy nauchnyy sotrudnik; SHERSTOV, S.V.

Use of tissue preparations. Veterinariia 38 no.1:25-26 Ja '61. (MIRA 15:4)

1. Sekretar' Charodinskogo rayonnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza Dagestanskoy ASSR (for Khalilov). 2. Glavnyy veterinarnyy vrach Orzhitskogo rayona, Poltavskoy oblasti (for Parfen'yev). 3. Bashkirskaya nauchno-issledovatel'skaya vetbaklaboratoriya (for Akchurin, Alparov, Gareyev). 4. Glavnyy veterinarnyy vrach Upravleniya myaso-molochnoy i rybnoy promyshlennosti Zaporozhskogo sovnarkhoza (for Sherstov).

(Tissue extracts) (Stock and stockbreeding)

L 52799-65 EWT(m)/EPF(c)/EWP(j)/T/EWA(c) Pc-4/Pr-4 RM

ACCESSION NR: AP5016186 UR/0079/64/034/012/3942/3946

AUTHOR: Pudovik, A. N.; Gareyev, R. D.

TITLE: Reactions of carbethoxycarbene and diazomethane with unsaturated organophosphorus compounds and dialkylphosphorous acids

SOURCE: Zhurnal obshchey khimii, v. 34, no. 12, 1964, 3942-3946

TOPIC TAGS: ester, phosphinic acid, phosphoric acid, organic azo compound, organic phosphorus compound

Abstract: Ethyl esters of vinylphosphinic and allylphosphinic acids and the diethylallyl ester of phosphoric acid were used in a study of the reaction of carbenes and aliphatic diazocompounds with unsaturated organophosphorus compounds, in the light of the synthesis of phosphorus-containing compounds of the cyclopropane and pyrazoline series. Carbethoxycarbene was found to react with esters of allylphosphinic acid and the diethylallyl ester of phosphoric acid, forming cyclopropane derivatives in low yields (10-16%). The reaction of diazomethane with vinyl- and allylphosphinic esters produced the corresponding phosphorus-containing pyrazoline derivatives. The reactions of diazoacetic ester with dialkyl-

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L 52799-65

ACCESSION NR: AP5016186

phosphorous acids (dimethyl-, diethyl-, and di-n-propylphosphorous acids) in the presence of copper sulfate led to the formation of the corresponding esters of phosphoneacetic acid in 37-44% yield, along with small amounts (5-6%) of dialkyl-N-carbethoxymethylene hydrazidophosphates. The structures of the reaction products were confirmed by studies of their infrared spectra. Orig. art. has 11 formulas and 1 table.

ASSOCIATION: Kazanskiy gosudarstvennyy universitet (Kazan State University)

SUBMITTED: 08Jul63 ENCL: 00 SUB CODE: OC, GC

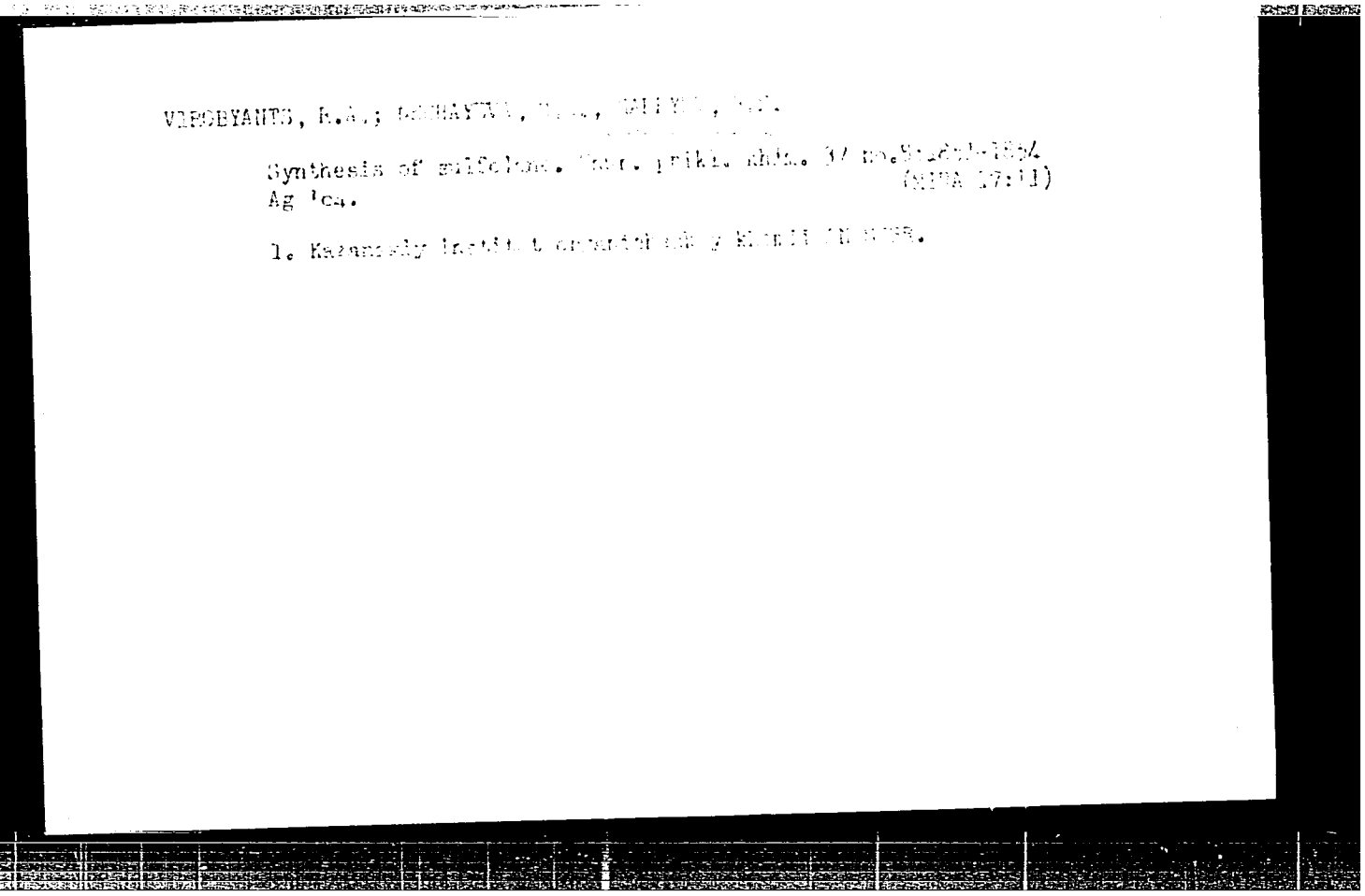
NO REF SOV: 005 OTHER: 001 JPRS

Card 2/2

PUDOVIK, A.N.; GAREYEV, R.D.

Reactions of carbethoxycarbene with unsaturated organophosphorus compounds. Zhur.ob.khim. 33 no.10:3441-3442 O '63. (MIRA 16:11)

1. Kazanskiy gosudarstvennyy universitet.



VIRABYANTS, R.A.; [illegible]

Synthesis of salicylone. Zhur. prikl. khim. 37 no.5:1181-1184 (MIRA 17:11)

1. Kazanskiy [illegible]

YAKOVLEV, B.Ya., podpolkovnik, voyennyy letchik vtorogo klassa; GAREYEV, V.G., mayor, voyennyy shturman pervogo klassa

Transport planes en route. Vest.Vozd.Fl. no.3:46-49 Mr '61. (MIRA 14:6)

(Transport planes)

GAREYEV, R.N., inzh.

Practices in the application of powder metallugry. Mashinostroenie no.3:3-4 My-Je '62. (MIRA 15:7)

1. Luganskiy teplovozostroitel'nyy zavod.
(Powder metallurgy)

PUDOVIK, A.N.; GAREYEV, R.D.

Reactions of carbethoxycarbene and diazomethane with unsaturated organophosphorus compounds and dialkylphosphorous acids. Zhur. obshch. khim. 34 no.12:3942-3946 D '64 (MIRA 18:1)

1. Kazanskiy gosudarstvennyy universitet.

ZHUKOV, A.I.; GAREYEV, V.N.; MARKOVA, V.M.

Sorption of hydrolyzed ions of the elements of the group V and VI by cation-exchanging resins. Zhur.neorg.khim. 7 no.7:1724-1729 Jl '62. (MIRA 16:3)

1. Ural'skiy politekhnicheskiy institut.
(Sorption) (Ion exchange resins)

STEPANOV, B.A.; FOMINYKH, B.A.; GAREYEV, V.N.

Series of metal stresses in the solutions of alcali sulfides.
Izv.AN Uz.SSR.Ser.tekh.nauk 9 no.5:75-77 '65.
(MIRA 18:10)

1. Sredazniprotsvetmet.

ABUKOVA, Ye.N.; GAREYEVA, M.S.; TITOVA, M.N.; DREMOVA, V.P. Prinimali uchastiye:NIKIFOROVA, Ye.N.; REDZHEPOV, N.N.; KLENOVA, M.A.; KAZAK, A.F.; FURMANOVA, N.M.; VISHNEVSKAYA, L.A.; SARKISOVA, E.N.

Measures for the control of acute intestinal diseases in Ashkhabad. Zdrav.Turk. 6 no.4:3-8 Jl-Ag '62. (MIRA 15:8)
(ASHKHABAD--INTESTINES--DISEASES)

GAREYEVA, M.S.; ABUKOVA, Ye.N.

Prevention of parenteral epidemic hepatitis (Botkin's disease)
Zdrav. Turk. 7 no.5:33-35 (41) May '63. (MIRA 16:8)
(HEPATITIS, INFECTIOUS—PREVENTION)

GAREYEVA, V.D., inzh.

Universal instrument for measuring austenite content in steels.
Mashinostroenie no.2:79-80 Mr-Ap '62. (MIRA 15:4)

1. Luganskiy zavod im. Oktyabr'skoy revolyutsii.
(Tool steel--Testing)

GARF A.

AUTHOR: Babat, G. and Garf, A. 4-12-8/24

TITLE: The Magnetron (Magnetron)

PERIODICAL: Znaniye - Sila, 1957, # 12, p 22-26 (USSR)

ABSTRACT: This is an excerpt from a book - "The Magnetron". This instrument produces very short - centimeter long - radiowaves which find their application in radar devices.

There are 5 figures.

AVAILABLE: Library of Congress

Card 1/1

GARF, A.L.

GARF, A. L.
Sever; pod obshchei red. N.N. Mikhailova;
Moskva, Molodaia gvardiia, 1948. 262 p. (Geograficheskaia
nauchno-khudozhestvennaia seriia "Nasha Rodina")
DLC: DK511. A5G35

SO LC, Soviet Georgraphy, Part I, 1951 Uncl.

S/025/62/000/010/002/002
D230/D308

AUTHOR: Garf, Anna

TITLE: H.F.-mobile stays on course

PERIODICAL: Nauka i zhizn', no. 10, 1962, 74-80

TEXT: G.I. Babat, the outstanding Soviet scientist, Professor, Doctor of Technical Sciences, was born in 1911 and died in 1960. As a young man he worked at the Svetlana Plant, Leningrad, on electron devices, thyratrons and rectifying networks, improving their efficiency. He was the first to apply electro-thermal methods to metal processing; in 1934 he discovered the condenser welding process currently used in vacuum techniques. The first Soviet-made valve generator and devices for hardening and fusion are due to him. For his efforts in the field of induction heating of metals he received a Government Award in 1943. Foodstuff sterilization by means of dielectric heating, glass-welding by h.f. current, separation of gases from metals have been originated by him. He pioneered the work on h.f. devices for metal ore exploration. In 1942 he publish-

Card 1/2

S/025/62/000/010/002/002
D230/D308

H.F.-mobile stays on course

ed the paper about the polygonal inductor; shortly afterwards he conceived the idea of the h.f. transport system, which he called (Vechemobil' - h.f.-mobile). Subsequently, he devoted most of his time to the design and realization of workable and efficient systems. H.f. electric trucks are currently being used in the mines of the Soviet Union. The article contains reproductions of early and latest models of the h.f.-mobile. A tribute to his work is written by Professor I. Kaganov, Doctor of Technical Sciences. There are 6 figures.

Card 2/2

GARF, Anna

Green branch. Nauka i zhizn' 29 no.11:86-87 N '62. (MIRA 16:1)
(Zhitkov, Boris Stepanovich, 1882-1938)

GARF, A.M., student VI kursa

Some data on the histochemistry of amyloid. Vrach. delo no.5:146 My '61. (MIRA 14:9)

1. Kafedra patologicheskoy anatomii (zav. - zasluzhennyy deyatel' nauki, prof. Ye.I.Chayka) Kiyevskogo meditsinskogo instituta imeni akademika A.A.Bogomol'tsa.

(AMYLOIDS)

GARF, B. A.

GARF, B. A., and V. I. NIKOL'SKIL.

Proektirovanie metallicheskikh konstruktsii dirizhablei. Dopushcheno v kachestve ucheb. posobiia dlia slushatelei DUK im. K. E. Tsiolkovskogo. Moskva, Glav. red. aviats. lit-ry, 1939. 362 p., illus.

Title tr.: Metal airship design. Approved as a textbook for Airship Design and Construction Schools.

TL660.G3

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

GARF, B.A.

GARF, B. A.

Mountaineering - Caucasus

"Bezingiyskoye gorge." Vokrug sveta no. 11, 195?

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

GARF, B.A.

SIMONOV, Ye.D., redaktor; ROTOTAYEV, P.S., redaktor; BOROVIKOV, A.M., redaktor; BULGAKOV, N.V., redaktor; GARF, B.A., redaktor, GVOZDETSKIY, N.A., redaktor; YEZERSKIY, Ye.M., redaktor; ZATULOVSKIY, D.M., redaktor; IVANOV, A.I., redaktor; KUZ'MIN, K.K., redaktor; NESTEROV, V.F., redaktor; SUSLOV, A.D., redaktor; TUSHINSKIY, G.K., redaktor; YUKHIN, I.V., redaktor; LEBEDEVA, N.G., redaktor; GOLITSYN, A.V., redaktor; KOSHELEVA, S.M., tekhnicheskiy redaktor

[Conquered peaks; annual publication of Soviet mountaineering for 1953] Pobezhdennye vershiny; ezhegodnik sovetskogo al'pinizma god 1953. Moskva, Gos. izd-vo geograficheskoi lit-ry, 1954. 606 p.
(Mountaineering--Yearbooks) (MLRA 8:7)

GARF, B.A

Call Nr: AF 1133946

AUTHOR: See Table of Contents

TITLE: Use of Solar Energy (Ispol'zovaniye solnechnoy energii), Volume I (Sbornik 1)

PUB.DATA: Izdatel'stvo Akademii nauk SSSR, Moscow, 1957, 247 pp., 3200 copies

ORIG.AGENCY: Akademiya nauk SSSR. Energeticheskiy institut im. G.M. Krzhyzhanovskogo. Geliotekhnicheskaya laboratoriya.

EDITORS: Ed. in Chief: Baum, V. A., Prof., Doctor of Tech. Sciences; Ed. of Publishing House; Bogoslovskiy, B. B.; Tech. Ed.: Prusakova, T. A.

PURPOSE: The book is the first attempt to assemble data gathered from laboratory experiments on heliotechnique.

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Call Nr: AF 1133946

Use of Solar Energy (Cont.)

COVERAGE: The work is a collection of articles on various subjects dealing with solar energy. The book deals with Russian contributions. For bibliographic references and personalities see the Table of Contents.

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Use of Solar Energy (Cont.)

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Call Nr: AF 1133946

Use of Solar Energy (Cont.)

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Use of Solar Energy (Cont.)

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Use of Solar Energy (Cont.)

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Call Nr: AF 1133946

Use of Solar Energy (Cont.)

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Call Nr: AF 113946

Use of Solar Energy (Cont.)

Card 8/8

GARF, B.A.

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High-power solar installations. V. A. Baum, R. R. Aparast, and B. A. Garf. *Teploenergetika*, 3 [6] 31–39 (1956); translated in *J. Solar Energy*, 1 [1] 6–12 (1957).—A proposed commercial solar power facility is designed to produce 10^7 kcal./hr. by generating 11 to 13 metric tons of steam per hour, at 30 to 35 atm. pressure and 375° to 400°C. The solar radiation is reflected by 1293 individual flat reflectors onto a rotating boiler at the focus. Each reflector is 3 x 5 m. and consists of 28 mirrors in a carriage-mounted frame. The 1293 carriages are divided into 23 trains which move on concentric rails around the boiler situated on a tower 40 m. high. The focal area is 135 sq.m. The overall efficiency is 64.7%, and about 20,000 metric tons of steam a year can be produced in an area like Tashkent. Cost analysis suggests that installations about 20% larger than the one described would be more economical than fuel-powered stations in fuel-poor areas in central Asia 100 to 200 km. from a rail system. 10 figures, 4 references. I. I. D.

Garf, B.A.

GARF, B.A.; BOROZDINA, M.S.; REKANT, N.V.

Investigation of the reflecting surfaces of solar apparatus.
Ispol'.soln.energ. no.1:49-61 '57. (MIRA 10:11)
(Solar energy)

Garf, B.C

SOV/124-58-5-5018

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 11 (USSR)

AUTHOR: Garf, B.A.

TITLE: The Rotation Systems of Movable Solar-energy Devices (Mekhanizmy vrashcheniya podvizhnykh solnechnykh ustanovok)

PERIODICAL: Ispol'zovaniye solnechn. energii. Nr 1. Moscow, AN SSSR, 1957, pp 62-84

ABSTRACT: A description is given of various kinematic rotation principles for solar-energy devices, and their respective characteristics are compared. For large devices the most suitable is the two-support system with separate azimuth and angular-elevation rotations. In the stress analysis of the rotating parts careful attention must be given to the factor of wind loads, the influence of which can be greatly reduced with the aid of special provisions. The subject of control systems for the rotations is examined.

S.G. Kislitsyn

1. Solar energy--Applications 2. Machines--Design 3. Rotating structures--Stresses 4. Rotating structures--Control systems

Card 1/1

APARISI, R.R.; BAUM, V.A.; GARF, B.A.

High power solar furnaces. Ispol'.soln.energ. no.1:85-98 '57.
(MIRA 10:11)

(Solar energy)

GARF, B.A.

Small solar cooker. Ispol'.soln.energ. no.1:163-171 ' 57. (MIRA 10:11)
(Solar energy)

GARF, B.A.;

GARF, B.A.; KHUNTSARIYA, R.K.

Parabolic-cylindrical solar apparatus with a productive capacity of 40 liters of boiling water per hour. Ispol'.soln.energ. no.1:172-176 '57. (MIRA 10:11)

(Solar water heaters)

APARISI, Rafael' Rafaelevich; GARF, Boris Arnol'dovich; BAUM, V.A., otv. red.; KLYAUS, Ye.M., red. izd-va; RYLINA, Yu.V., tekhn. red.

[Using solar energy]Ispol'zovanie solnechnoi energii. Moskva, Izd-vo Akad. nauk SSSR, 1958. (MIRA 16:1)
(Solar energy)

GARF, B.A.

3(1) PHASE I BOOK EXPLOITATION SOV/2677

Aparisi, Rafael' Rafaelevich and Boris Arnol'dovich Garf

Ispol'zovaniye solnechnoy energii (Utilization of Solar Energy) Moscow, Izd-vo AN SSSR, 1958. 58 p. (Series: Akademiya nauk SSSR. Nauchno-populyarnaya seriya) 15,000 copies printed.

Ed.: V.A. Baum; Ed. of Publishing House: Ye. M. Klyaus; Tech. Ed.: Yu. V. Rylina.

PURPOSE: This book is intended for general readers interested in the problem of the uses of solar energy.

COVERAGE: This booklet discusses in popular form the history and present status of the attempts to use the Sun's immense energy in industry and in the household. The "trapping" of solar energy in "solar furnaces" and other devices is described with some reference to the utilization of solar energy in rocket techniques. The book is illustrated with 35 figures and devices. No personalities are mentioned.

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Utilization of Solar Energy (Cont.) SOV/2677

There are 11 references, all Soviet.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress

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MM/mg
12-2-59

GARF B.A.

PHASE I BOOK EXPLOITATION SOV/4642

Akademiya nauk SSSR. Energeticheskiy institut

Teploenergetika, vyp. 2: Ispol'zovaniye solnechnoy energii (Heat Power Engineering, No. 2: Use of Solar Energy) Moscow, 1960. 195 p. Errata slip inserted. 2,500 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Energeticheskiy institut imeni G.M. Krzhizhanovskogo.

Resp. Ed.: V.A. Baum, Doctor of Technical Sciences, Professor; Ed. of Publishing House: G.B. Gorshkov; Tech. Ed.: I.N. Dorokhina.

PURPOSE: The publication is intended for power engineers and economists interested in the industrial utilization of solar energy.

COVERAGE: This collection of 19 articles is a continuation of an earlier work published under the same title in 1957. The articles present results of investigations conducted in the USSR during the last three years at the Laboratory on the Use of Solar Energy and Wind in the Energeticheskiy institut AN SSSR (Power Engineering Institute of the AS USSR). Problems in determining the operational indices of solar engines, depending upon the amount of solar energy received, are analyzed. No personalities are mentioned. References follow each article.

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AVAILABLE: Library of Congress

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JA/dvm/efa
2/6/61

GARF, B.A., kand.tekhn.nauk [translator]; MOTULEVICH, V.P., kand.tekhn. nauk [translator]; BAUM, V.A., prof., red.; VISKOVA, M.V., red.; RYBKINA, V.P., tekhn.red.

[High-temperature solar furnaces; collection of translations] Solnechnye vysokotemperaturnye pechi; sbornik perevodov. Pod red. V.A.Bauma. Moskva, Izd-vo inostr.lit-ry, 1960. 470 p. (MIRA 13:11)
(Solar furnaces)

S/030/60/000/010/006/018
B021/B058

AUTHORS: Aparisi, R. R., Candidate of Technical Sciences,
Strel'tsova, A. A., Candidate of Chemical Sciences,
Garf, B. A., Candidate of Technical Sciences

TITLE: Solar Installation for the Photosynthesis of Caprolactam

PERIODICAL: Vestnik Akademii nauk SSSR, 1960, No. 10, pp. 67-68

TEXT: The synthesis of caprolactam, the initial product for synthetic caprone, can be carried out by photochemical nitrosation of cyclohexane, which shortens the technological process and reduces the cost of caprone. Photosynthesis proceeds under the action of the visible part of the spectrum, the yield being directly dependent on the irradiation intensity. Experiments showed that apart from artificial rays, solar radiation can also be utilized for this chemical reaction. Such a solar installation was developed in 1955 by the Energeticheskiy institut im. G. M. Krzhizhanovskogo Akademii nauk SSSR (Power Engineering Institute imeni G. M. Krzhizhanovskiy of the Academy of Sciences USSR) jointly with the Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy

Card 1/2

Solar Installation for the Photosynthesis of Caprolactam

S/030/60/000/010/006/018
B021/B058

promyshlennosti i organicheskogo sinteza (GIAP) (State Scientific Research and Planning Institute of the Nitrogen Industry and of the Organic Synthesis (GIAP)). From 1958 to 1959 further studies were conducted jointly with the Institut organicheskoy khimii Akademii nauk Armyanskoy SSR (Institute of Organic Chemistry of the Academy of Sciences Armyanskaya SSR) at Yerevan. The new installation permitted to increase the radiation intensity by 3 to 4 times through radiation concentration by means of automatically guided mirrors. An experimental installation was established by the Power Engineering Institute jointly with the GIAP, which is to be installed at the Kirovakanskiy khimkombinat (Kirovakan Chemical Kombinat). There is 1 figure.

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L 35820-66 EWP(k)/EWT(m)/T/EWP(w)/EWP(v)/EWP(t)/ETI IJP(c) JD/HM

ACC NR: AP6015240 (A,N) SOURCE CODE: UR/0125/66/000/005/0008/0010

35
34
B

AUTHOR: Novikov, V. I., Garf, E. F.

ORG: Institute of Electric Welding im. Ye. O. Paton, AN UkrSSR (Institut elektrosvarki AN UkrSSR)

TITLE: Brittle fracture of welded joints of low-alloy steel 4-8 mm thick

SOURCE: Avtomaticheskaya svarka, no 5, 1966, pp 8-10

TOPIC TAGS: low alloy steel, material fracture, brittleness, weld evaluation, freezing/St.3 low-alloy steel

ABSTRACT: Most of the studies of the brittle fracture of low-carbon and low-alloy steels at natural low temperatures (down to -60°C) deal with specimens more than 10-12 mm thick, yet now that the use of thin-walled (4-8 mm) steel is increasing, the question of the strength of the welded joints of such steel, of their proneness to brittle fracture is becoming acute. To answer this question, the authors investigated 4-8 mm thick welded joints of killed and rimmed St.3 steel. At -60°C for the specimens of killed steel, tensile strength remains sufficiently high, but for specimens of rimmed steel this strength falls to the level of the steel's yield

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point and there occurs the so-called quasi-brittle fracture. Stress distribution is also important in characterizing the behavior of the welded joint; thus an off-center application of load produces a stressed state at the notch, which contributes to the brittle fracture of the steel. By contrast with thicker specimens, specimens of 8 mm thick steel fracture at stresses close to the ultimate strength of a steel with a considerable plastic deformation. Hence, as the thickness of steel decreases to 8 mm and less, the resistance of welded joints to brittle fracture increases. Thus, while the brittle fracture of steels 4-8 mm thick is in principle possible, its danger is substantially smaller than that of steels 12-40 mm thick. This makes it possible to employ thin-walled steel in load-bearing structures located in low-temperature regions, including the Far North, provided that a nonuniform distribution of working stresses and residual tensile stresses at sites of stress concentration -- particularly in the presence of an off-center load -- is avoided and that the cold brittleness of various makes of thin sheet steel is investigated in further detail. Orig. art. has: 3 figures, 3 tables.

SUB CODE: 13, 11/ SUBM DATE: 08Oct65/ ORIG REF: 002/ OTH REF: 002

Card 2/2

CARF, M. E., ENGINEER

"Dynamic Analysis of Mechanical Installations for Testing Aviation Equipment." Thesis for degree of Cand. Technical Sci. Sub 28 Jun 49, Moscow Aviation Technological Inst

Summary 82, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

USSR/Engineering - Machines, Testing Mar 50
Endurance Testing

"Dynamic Features of Fatigue-Testing Machines,"
M. E. Garf, Lab of Mach Constr and Problems of
Agr Mech, Acad Sci Ukrainian SSR, 8 pp

"Zavod Lab" Vol XVI, No 3

Attempts classification of fatigue-testing machines according to their dynamic setups for producing reversed stresses disregarding their other properties. Divides machines into four basic groups. Each group is illustrated by description of several constructions

159T28

USSR/Engineering - Machines, Testing Mar 50
(Contd)

most used in testing practice. Expresses opinion that classification of this kind is very essential for theoretical analysis of principles for producing cyclic loads.

159T28

USSR/Metals - Testing, Fatigue Jun 50

"Dynamic Analysis of Testing Machines With Mechanical Application of Loads," M. E. Garf, Lab of Mach Bldg and Problems of Agr Mech, Acad Sci Ukrainian SSR

"Zavod Lab" Vol XVI, No 6, pp 709-721

Presents dynamic analysis of mechanical principles for creating reverse stresses in specimen during fatigue tests. Discusses following criteria: accuracy of measuring loads applied to specimen, effectiveness of stimulating cyclic stresses, rate of stress application, stability of loading specimen. Results of analysis may be applied to increasing efficiency of existing testing machines and for developing new constructions.

163T58

2. SSSR (600)

4. Vibration

7. Distortions of the form of vibrations in testing apparatuses. Nauch. trudy Inst. mash. sel'khoz. mekh. AN UrSr 3, 1951

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

GARF, M.E., kandidat tekhnicheskikh nauk.

Vibration waveform distortions in testing equipment. Nauch. trudy Inst. mash. i sel'khoz. mekh. AN URSR 3:142-156 '51. (MLRA 10:8)
(Testing machinery--Vibration)

1. GARF, M. Ye: KORSUNEVICH, N.I.

2. USSR (600)

4. Bearings (Machinery)

7. Measuring of reactions on the bearing surfaces of rotating shafts. Vest. mash. 32. no. 10. 1952.

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

SOV/124-58-3-3483

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 3, p 127 (USSR)

AUTHORS: Serensen, S. V., Garf, M. E., Gluvchinskiy, Ye. V., Korsakevich, N. I.

TITLE: Measurement of the Dynamic Forces Arising in Component Elements of a Self-propelled Harvesting Combine (Izmereniye dinamicheskikh usiliy v detalyakh mosta samokhodnogo kombayna)

PERIODICAL: V kn.: Sb. trudov po zemledel'cheskoy mekhanike. Moscow, Sel'khozgiz, 1954, Vol 2, pp 271-289

ABSTRACT: Description of equipment for the measurement of torque moments acting on the shafts of a combine. The measurements were accomplished at four points by induction-type parametric strain gages.

N. P. Rayevskiy

Card 1/1

GARF, Mikhail Ernestovich; KORSAKEVICH, Nikolay Ivanovich; KRAMARENKO, Oksana Yur'yevna; SERENSEN, Sergey Vladimirovich; SLUTSKAYA, Ol'ga Borisovna; KHARITONSKIY, M.B., redaktor; KHYLOVSKAYA, N.S. tekhnicheskiy redaktor.

[Strength of tractor engine crankshafts; manual for calculations and tests] Prochnost' kolenchatykh valov traktornykh dvigatelei; rukovodstvo po raschetu i ispytaniiu. Kiev, Izd-vo Akademii nauk USSR, 1955. 199 p. (MLRA 9:1)
(Cranks and crakshafts) (Tractors)

SOV/124-58-1-1373

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 170 (USSR)

AUTHOR: Garf, M. E.

TITLE: Determination of Dynamic Errors in Fatigue Tests (Opredelenive dinamicheskikh oshibok pri ispytaniyakh na ustalost')

PERIODICAL: V sb.: Izmereniye napryazheniy i usiliy v detalyakh mashin. Moscow, Mashgiz, 1955, pp 214-223

ABSTRACT: The author examines only those errors introduced as a result of beat oscillations of a specimen. It is shown that the force determined from the deformation of the spring and the force that bends the specimen are not identical. In such load conditions a supplementary dynamic force arises and results in an asymmetry of the cycle, even though it does not affect the amplitude value of the stress. Relationships are given for the stresses and the coefficient of cycle asymmetry. The author presents designs for remotely-measuring equipment as well as data relative to the experimental verification of the above-stated propositions.

L. M. Rubinshteyn

Card 1/1

Machine for Fatigue Testing with a Polyharmonic Form of the Stress-Change Cycle. M. L. Gurt. (*Zavodskaya Laboratoriya*, 1955, 21, (2), 235–239). [In Russian]. A new design of fatigue-testing machine in which torsional stresses can be included with a polyharmonic stress-change cycle is described. The design secures great stability in the amplitude and form of the stress curves. The test-piece and a dynamometer are fixed so that the loading of the whole system can be determined statically and the loads can be measured with sufficient accuracy. The stress cycle can be varied over a wide range, but in torsional tests the frequency cannot exceed 3500 cycles/min.—S. K.

Metals

1

I Institut mashinovedeniya i sel'skokhozyaystvennoy mekhaniki AS USSR

GARF, M. E.

New Machine for Programmed Fatigue-Tests. M. E. Garf. (*Zavodskaya Laboratoriya*, 1955, 21, (10), 1238-1241). [In Russian]. The testing machine described enables fatigue tests at two or more stress-levels to be carried out with a wide variety of programmes. The load is applied by an electrically-controlled spring.—S. K.

GARF, M.E.

USSR/ Engineering - Heat treating

Card 1/1 Pub. 128 - 13/28

Authors : Sharyy, A. Ya., Eng; Lozinskiy, M. G., Cand. of Mech. Sc.; Serensen, S. V., Active Mem., Acad. of Sc., Ukr. SSR.; and Garf, M. E., Cand. of Mech. Sc.

Title : Concerning the efficient heat treating of crankshafts for the DT-54 tractor diesel engines

Periodical : Vest. mash. 35/6, 56 - 60, Jun 1955

Abstract : During the period 1949-1951, of from 3-0.8% of all DT-54 diesel engines manufactured by the Stalingrad Tractor Plant, were rejected due to defects in engine crankshafts. Approximately 91.2% of these defects were caused by the breaking of crank webs and pins. For this reason, operational tests were conducted to determine the magnitude of torque, bending, dynamic load, and vibration factors in crankshaft operation, and to determine the influence efficiency of crankshafts. Three USSR references (1950-1955). Drawings; illustrations; graphs; table.

Institution : ..... Institut mashinovedeniya i sel'skokhozyaystvennoy mekhaniki Akademii nauk USSR

Submitted : .....

PHASE I BOOK EXPLOITATION 371

Serensen, Sergey Vladimirovich; Garf, Mikhail Ernestovich; and Kozlov, Leonid Aleksandrovich

Mashiny dlya ispytaniy na ustalost'; raschet i konstruirovaniye (Fatigue Testing Machines; Design and Calculation) Moscow, Mashgiz, 1957. 404 p. 5,500 copies printed.

Ed.: Serensen, S.V., Academician, Ukrainian Academy of Sciences; Reviewer: Morozov, Yu. N., Docent; Ed. of Publishing House: Akimova, A.G.; Tech. Ed.: Model', B.I.; Managing Ed. for Literature on Machine Building and Instrument Construction (Mashgiz): Pokrovskiy, N.V.

PURPOSE: This book on design and calculation of fatigue testing machines is intended for engineering and technical personnel, computing staffs, designers and laboratory workers, and students in technical vuzes.

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Fatigue Testing Machines; Design and Calculation 371

COVERAGE: The book presents a dynamic analysis and design calculations for strength of fatigue testing machines. Along with dynamic analysis methods and design calculations for strength and durability of principal assemblies, the study reviews various designs of fatigue testing machines, including machines employing high cyclic rates, machines for testing at high temperatures, etc. In addition to already published materials, the book includes engineering data obtained from the following groups: Komitet prochnosti Nauchno-tekhnicheskogo obshchestva mashinostroitel'noy promyshlennosti (Committee on Endurance, Scientific and Technical Society of the Machine-building Industry), Spetsial'noye konstruktorskoye byuro ispytatel'nykh mashin Nauchno-issledovatel'skogo instituta vyesovoy promyshlennosti (Special Design Bureau for Testing Machines, Scientific Research Institute of the Weights and Measures Industry), Institut Mashinovedeniya AN SSSR (Machine Studies Institute, USSR Academy of Sciences), Vsesoyuznyy nauchno-issledovatel'skiy teplovoznyy institut (All-Union Scientific

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Research Institute for Locomotives), etc. There are 125 references, 89 of which are Soviet, 21 German, 2 French, 1 Italian, and 13 English.

TABLE OF CONTENTS:

18(3) 25(2)

AUTHORS: Garf, M. E., Ruban, P. M. SOV/32-24-11-26/37

TITLE: The Determination of Dynamic Errors in Tests of Fatigue in Bending
(Opredeleniye dinamicheskoy pogreshnosti ispytaniy na ustalost' pri izgibe)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 11, pp 1403-1406 (USSR)

ABSTRACT: The equation according to Lagrange can be applied to the solution of problems concerning oscillations in compressive-tensile-strength or torsion-testing machines. A sketch of the dynamic system of a testing machine of this kind is given. The dynamic error can be computed with the aid of the equation

$$\Delta = \frac{M_{st} - M_{dyn}}{M_{dyn}} \cdot 100\ \%$$

(M_{st} and M_{dyn} being the bending moment with static and dynamic loads). Further calculations lead to the discovery that the value of the dynamic error does not depend on the nature or mass of the load. This was exemplified in the testing of crankshafts of tractor diesel engines. A dynamic error of 24.8 % was computed, whereas

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actual measurements yielded a value of 23 %. Moreover, it was observed that an extremely intensive increase of the dynamic error is brought about when the clamping holder which is closer to the load is enlarged. As a result of these observations the mass of the load may be selected according to the optimum working conditions of the machine, as this mass has no effect upon the dynamic error. In compressive-tensile-strength or torsion-testing machines the dynamic error is only influenced by the rigidity of the dynamometer and the mass of the clamping holder attached to it. In bending testing machines, However, the dynamic error depends on the rigidity of all parts of the system and on all compact masses (except that of the load). The equations obtained permit a sufficiently accurate determination of the dynamic error and therefore also of the optimum sizes of the testing machine. There are 3 figures and 2 references, 1 of which is Soviet.

The Determination of Dynamic Errors in Tests of Fatigue in Bending SOV/32-24-11-26/37

ASSOCIATION: Institut mashinovedeniya Akademii nauk USSR
(Institute of Mechanical Engineering of the Academy of Sciences UkrSSR)

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25(2)

SOV/32-25-3-34/62

AUTHORS: Garf, M. E., Sinyuk, I. I.

TITLE: Programmation of the Load Conditions for Tests in the Case of Crank Excitations of Dynamic Loads (Programmirovaniye silovogo rezhima ispytaniy pri krivoshipnom vozbuzhdenii dinamicheskikh nagruzok)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol 25, Nr 3, pp 346-349 (USSR)

ABSTRACT: A machine was constructed which can be applied to programmed tests of flexure or torsion of large samples (Fig 1). It will be used in the case of tests in which for the destruction of the sample no big stress is necessary and where crank exciters can be used which automatically change the amplitude of dynamic load according to a previously chosen program. The amplitude of the excited dynamic motions is fixed by the rotation of a crankshaft, in the eccentric opening of a spindle, rotating in an immobile casing. The moments of flexure and of torsion are determined according to the deformation of a dynamometer and recorded by a microscope. The operational conditions depend on the position of a handle, directing a double gear which itself is automatically directed by an electromechanical

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Programmation of the Load Conditions for Tests in the Case of Crank Excitations of Dynamic Loads

device (Fig 2) according to a program fixed in advance. The electric control of the arrangement is regulated by a rotary drum. Precision and uniformity of the operation of the device are tested in connection with bending tests of the crankshaft of the tractor Diesel engines D-54. It is stated that the construction of the program-device permits a very rapid change of the program. Any changes with respect to tension can be carried out. The machine works steadily so that within 24 hours no variation in its operation was to be observed. There are 3 figures and 1 Soviet reference.

ASSOCIATION: Institut liteynogo proizvodstva Akademii nauk Ukrainskoy SSR (Institute of Foundry Industry of the Academy of Sciences, UkrSSR)

Nauchno-tekhnicheskaya konferentsiya po razvitiyu proizvodstvennykh sil Khar'kovskogo ekonomicheskogo administrativnogo rayona, 1960.

Voprosy mashinostroyeniya; trudy konferentsii... (Problems of Machine Building; Transactions of the Scientific Technological Conference on the Development of Productive Forces of the Khar'kov Economic Administrative Region) no. 3. Kiyev, Izd-vo AN USSR, 1960. 182 p. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Sovet po issledovaniyu proizvoditel'nykh sil USSR.

Editorial Board: Resp. Ed.: I.A. Vasilenko, Academician of the Academy of Sciences USSR; A.A. Gorokhov, Corresponding Member, Academy of Sciences Ukr SSR; I.M. Postnikov, Doctor of Technical Sciences; S.M. Rutanenko; A.I. Adamenko, Candidate of Technical Sciences; G.M. Lavrov, Candidate of Economical Sciences; Ed. of Publishing House: S.D. Lepkiy; Tech. Ed.: K.A. Bunin.

PURPOSE: This collection of articles is intended for scientific personnel, engineers, technicians, sovnarkhoz workers, and planning organizations.

COVERAGE: The articles deal with problems in technology and techniques in the manufacture of engines, hydraulic turbines, diesel locomotives, tractors, combines, electrical machinery, etc. Considerable attention is given to the following: the development of various types of equipment used for automation in the coal industry; equipment developed for the production and use of rectifiers; the development of new accessories for measuring and controlling heat-engineering parameters; and the introduction of advanced methods into founding and die forging. No personalities are mentioned. References accompany some of the articles. There are 20 references: 16 Soviet, 2 German, 1 French, and 1 English.

S/193/60/000/002/009/013
A004/A001

AUTHOR: Garf, M. E.

TITLE: Universal program-controlled fatigue-testing machine

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 2, 1960, 32-33

TEXT: The institut liteynogo proizvodstva Akademii Nauk UkrSSR (Institute of Foundry Practice of the Academy of Sciences UkrSSR) has developed a machine for the fatigue testing of large-size specimens and natural components during bending or torsion. The amplitude of the developed load can remain constant during the whole testing period or can be automatically changed within a wide range according to a preselected program. The kinematic circuit of the machine is shown in the illustration. The machine is composed of the following main units: motor, crank-type exciter of dynamic displacements, mechanism for the control of the displacement amplitude during operation, and the electro-mechnical program unit. The crank-type exciter of dynamic displacements 1 is fastened to bed 2. Crankshaft 4 with spherical bearing and connecting rod 5 on the bracket journal is placed in the eccentric bore of spindle 3. Changes in the angular position of shafts 3 and 4 and also their indexing are effected by a worm gear

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$i = \frac{1}{30}$. The eccentricity of the spindle bore (r_1) is equal to the crank radius (r_2), therefore it is possible to vary the amplitude of dynamic displacements from 0 to $r_1 + r_2$. The mechanism for the control of the displacement amplitude during operation consists of two shafts 6 and 7 and input shaft 8 with worm ($i = \frac{1}{10}$) and gear wheels Z_1 and Z_2. The displacement amplitude being set, the control mechanism rotates together with spindle 3. The displacement amplitude and, consequently, the load, are varied by turning handle 9, displacing the dual gear which rotates at the speed of the spindle. The number of teeth of the gear wheels on shafts 8 and 10 have been selected in such a way that, at the right-hand or lefthand position of the dual gear, input shaft 8 outruns the spindle or lags with a relative speed of about 60 rpm, thus creating a corresponding increase or decrease of the total eccentricity. Two T-shaped grooves 11 serve to fasten the setting devices. The machine operates on a resonance condition and develops a bending moment of up to $\pm$ 3,000 kg-m with a maximum amplitude of dynamic displacements of $\pm$ 28 mm, or a torque of up to $\pm$ 1,000 kg-m with a maximum amplitude of angular oscillations of $\pm 5^{\circ}$. The excitation frequency amounts to 1,500 cycles per minute. The driving electromotor (N = 2.8 kw; n = 1,500 rpm) is placed inside the machine bed. There is 1 figure.

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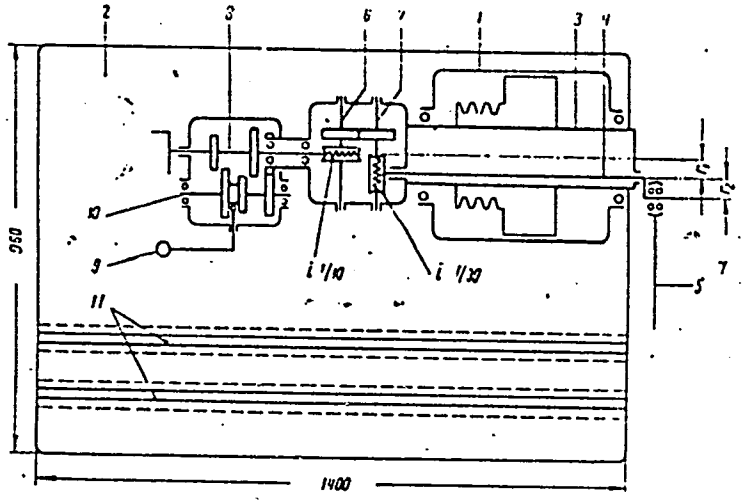
Figure:



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28 (5)

S/032/60/026/01/031/052
B010/B006

AUTHOR: Garf, M. E.

TITLE: Fatigue Strength at a Complicated Shape of Stress Cycle Curve

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol 26, Nr 1, pp 94 - 98 (USSR)

ABSTRACT: In the present institute, a testing machine was designed (Ref 1) which produces and combines two harmonic load components of a torsional moment. The frequency ratio of the latter is 1 : 2 and 1 : 3, respectively. Thus, the influence of the shape of the curves on the parameters of the fatigue diagrams can be investigated by varying the shape of the stress cycle curves. In the present publication, this test technique is demonstrated using round samples of steel grade 20, and cast iron (with spherical graphite of perlite-ferrite structure). 10 million cycles were chosen as test basis. In direct alternations of the larger and smaller stress amplitudes (within a single halfperiod of the harmonic main component), steel was observed to have the greatest hardness, when the amplitude of the lower stresses was about half the size of the amplitude of the higher stresses. This also holds for the cast iron investigated though the hardening effect is less pronounced. If the amplitude of the

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lower stresses is about one third (or less) of the amplitude of the higher stresses, stress alternation has practically no effect on destruction conditions. Damage to the material is observed only when $\tau_{min} > 0.8\ \tau_{max}$ (τ_{min} = lower-, and τ_{max} = higher stress). Transition from a sineoidal shape of cycle curve to a curve having two equal maxima (within a single halfperiod of the harmonic main component) leads to damage of the material. Damage is slight, however, for positive values of τ_{min}/τ_{max}.

There are 5 figures and 2 Soviet references.

ASSOCIATION: Institut liteynogo proizvodstva Akademii nauk USSR
Institute of the Foundry Industry of the Academy of Sciences, Ukrainskaya SSR)

GARF, M.E.

PHASE I BOOK EXPLOITATION SOV/5940

Serensen, Sergey Vladimirovich, Academician, Academy of Sciences UkrSSR, Yevgeniy Georgiyevich Buglov, Mikhail Ernestovich Garf, Leonid Aleksandrovich Kozlov, Nikolay Ivanovich Korsakevich, Oksana Yur'yevna Kramarenko, and Ol'ga Borisovna Slutskaya

Prochnost' pri nestatsionarnykh rezhimakh nagruzki (Strength Under Nonstationary Loading Conditions) Kiyev, Izd-vo AN UkrSSR, 1961. 294 p. 2000 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Otdeleniye tekhnicheskikh nauk.

Ed. of Publishing House: O. M. Pechkovskaya; Tech. Ed.: V. Ye. Sklyarova.

PURPOSE: This book is intended for engineers of design bureaus, industrial laboratories, and testing stations, and for

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