KAZ'MIN, A.I., starshiy nauchnyy sotrudnik; GORBUNOVA, R.L., starshiy nauchnyy sotrudnik; ANTONOV, A.I.

Our experience in the use of a brace of the Milwaukee type.
Ortop., travm. i protez. 26 no.4:73-75 Ap '65.

(MIRA 18:12)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V.Volkov). 2. Vedushchiy konstruktor TSentral'nogo instituta travmatologii i ortopedii (for Antonov). Adres avtorov: Moskva A-299, ul. Priorova, dom 10, TSentral'nyy institut travmatologii i ortopedii.

ACC NR: AP6017986   (N)   SOURCE CODE: UR/0413/66/000/010/0086/0086

INVENTOR: Bashilov, I. P.; Bulanzhe, Yu. D.; Dubovik, A. S.; Yerofeyev, V. I.; Kevlishvili, P. V.; Kobrin, L. V.; Kogan, B. Ya.; Kaz'min, A. I.; Popov, Ye. I.; Mikhaylov, N. N.; Churbakov, A. I.; Shileyko, A. V.

ORG: None

TITLE: An automatic device for determining acceleration due to gravity on a movable base. Class 42, No. 181833 (announced by the Institute of Physics of the Earth imeni O. Yu. Shmidt, AN SSSR (Institut fiziki Zemli AN SSSR))

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 86

TOPIC TAGS: gravity, electron optics, electronic equipment, gravimeter

ABSTRACT: This Author's Certificate introduces an automatic device for determining acceleration due to gravity on a movable base, using a strongly damped elastic gravimeter system. The installation contains a meter for acceleration due to gravity, a system of mirrors, lens, light source, two condensers and a slotted prism. Accuracy of measurement is improved, and processing of the resultant information is automated by using an electron-optical converter which changes angles of turn of a pendulum to digital code. This converter is made in the form of a code mask with lenses attached. A prism is mounted behind the lenses with metallic mirrors and photocells.

UDC: 531.768.08:528.026

Card 1/2

ACC NR: AP6017986
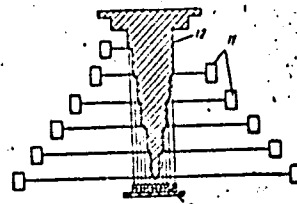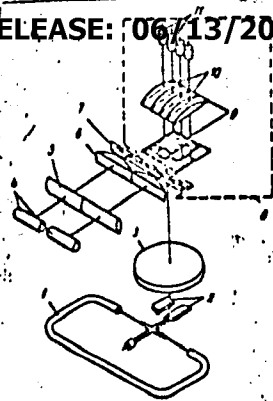
1—accelerometer; 2—system of mirrors; 3—objective lens; 4—light source; 5 and 6—condensers; 7—slotted prism; 8—electron-optical converter; 9—code mask; 10—lenses; 11—photocells; 12—prism with metallic mirrors

SUB CODE: 09, 08/ SUBM DATE: 14May64

Card 2/2

KAZMIN, A.N.

Cuneiform resection of the spine in severe forms of scoliosis. Acta chir. orthop. traum. cech. 29 no.4:368-371 Ag '62.

1. Ustredni ustav traumatologie a ortopedie, reditel radny clen Akademie lekarskych ved SSSR prof. N.N.Priorov.
(SCOLIOSIS)

CHIZHOV,D.G.; KOGTEV,G.I.; LAVRENENKO,K.D.; SPIRIN, S.A.; NEKRASOV,A.M.; IVANOV,
M.I.; UFAYEV,M.Ya.; GRISHIN, I.K.; KOSTIN,M.F.; POPOV,V.A.; ZAGORODNIKOV,
P.I.; FEDOTOV, P.N.; KAZ'MIN, A.V.; FOMICHEV, G.I.; YERSHOV,P.I.;
MESHCHERYAKOV,V.I.; YEFREMOV,S.G.; LEVIN, I.S.; LETUCHEV,L.I.; KOKOREV,
S.V.

Nikolai Alekseevich Andreev. Energetik 4 no.9:40 S '56. (MLRA 9:10)
        (Andreev, Nikolai Alekseevich, 1896-1956)

KAZ'MIN, A.V.

CHIZHOV, D.G.; KOGTEV, G.I.; LAVRENENKO, K.D.; SPIRIN, S.A.; NEKRASOV, A.M.;
        IVANOV, M.I.; UFAYEV, M.Ya.; GRISHIN, I.K.; KOSTIN, M.F.; POPOV, V.A.;
        ZAGORODNIKOV, P.I.; FEDOTOV, P.N.; KAZ'MIN, A.V.; FOMICHEV, G.I.;
        YERSHOV, P.I.; MESHCHERYAKOV, V.I.; YEFREMOV, S.G.; LEVIN, 1.S.;
        LETUCHEV, L.I.; BELKIN, M.N.; OBOLONKOV, M.I.; BATENIN, B.A.;
        BUR'YANOV, B.P.; KANATOV, P.I.; KOKOREV, S.V.

        Nikolai Alekseevich Andreev. Elek. sta. 27 no.10:62 O '56.
                (Andreev, Nikolai Alekseevich, 1897-1956)   (MLRA 9:12)

KAZ'MIN, F.P.; MEDVEDNIKOV, V.A.

Experience in the operation of the USVM-1 blender. Tekst.prom. 20
no.9:71-74 S '60.   (MIRA 13:10)

1. Direktor fabriki imeni Petra Alekseyeva (for Kaz'min).
2. Glavnyy inzhener fabriki imeni Petra Alekseyeva (for Medvednikov).
   (Woolen and worsted manufacture—Equipment and supplies)

LEBEDEVA, Lyubov' Yakovlevna, kand. biol. nauk; LEBEDEV, Aleksandr
    Ivanovich, kand. sel'khoz. nauk; KAZ'MIN, G., kand. sel'khoz.
    nauk, otv. red.; SHAYKOVA, N., tekhn. red.

    [Grapes in the Maritime Territory]Vinograd v Primorskom krae.
    Vladivostok, Primorskoe knizhnoe izd-vo, 1962. 157 p.
                                                    (MIRA 16:3)

        (Maritime Territory—Viticulture)

S/065/63/000/003/002/006
E075/E436

AUTHORS: Kaz'min, G.I., Bayburskiy, L.A., Odintsov, A.B.

TITLE: Preparation of a solvent for the production of
             polyethylene

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.3, 1963, 19-22

TEXT: The solvent was prepared from commercial extraction grade
benzene extracted from low-sulphur, paraffinic Groznyy crudes.
The most suitable fraction of the benzene had the initial boiling
points 75 to 95°C, benzene content 1.5 to 2.3 wt.%,   sulphur
content $<$ 0.005 wt.%, naphthenic hydrocarbons 40 to 48 wt.%.
The production costs of this solvent are lower than those for a
similar solvent produced from catalytic reformates.   The costs
could be decreased further by employing fully instrumented and
automatically controlled fractionating columns.   The authors
recommend that the centre for the production of solvents for the
manufacture of copolymers should be situated in Groznyy because of
its resources in raw materials.   There are 1 figure and 4 tables.

ASSOCIATION: GrozNII, GNPZ

Card 1/1

GVOZDETSKIY, L.A.; KAZ'MIN, G.I.; KASATKIN, V.A.; SEMENOV, B.S.

At the petroleum refineries of the U.S.A.   Khim.i tekh.topl.i
masel 6 no.6:68-72 Je '61.   (MIRA 14:7)
          (United States—Petroleum refineries)

KAZ'MIN, Grigoriy Ivanovich; GVOZDETSKIY, Lev Andreyevich; KASATKIN,
Viktor Aleksandrovich; SEMENOV, Boris Sergeyevich;
YENISHERLOVA, O.M., ved. red.; BASHMAKOV, G.M., tekhn. red.

[Petroleum refineries of the U.S.A.]Neftepererabatyvaiushchie
zavody SShA. Moskva, Gostoptekhizdat, 1962. 332 p.
                                          (MIRA 15:10)

(United States--Petroleum--Refineries)

KAZ'MIN, G.I.

Designing powerful petroleum refineries to be built. Khim. i
tekh. topl. i masel 9 no.12:64-65 D '64.   (MIRA 18:2)

L 18474-66   EWT(m)/EWP(v)/T/EWP(t)/EWP(k)   JD/HM
ACC NR: AR6007960
                                        SOURCE CODE: UR/0137/65/000/012/E036/E036

AUTHOR: Kaz'min, G. S.; Noskov, D. A.; Pankovets, N. G.; Proskurovskiy, D. I.;
Sudakov, V. I.; Shangin, A.S.

ORG: none

TITLE: Electron-beam welding of materials in a vacuum

SOURCE: Ref. zh. Metallurgiya, Abs. 12E283

REF SOURCE: Sb. dokl. k Novosib. nauchno-tekhn. konferentsii po mashinostr. Ch. 1.
Novosibirsk, 1964, 115-122

TOPIC TAGS: electron beam welding, vacuum welding, metal cutting

TRANSLATION: The authors describe the advantages of the electron-beam method for
welding metal over other methods. Units are described for welding, drilling and
cutting metals with the use of an electron beam. These installations were developed
in the Department of Electronic Devices at the Tomsk Institute of Radioelectronics
and Electronic Technology. V. Fomenko [JPRS]

SUB CODE: 13

Card 1/1

UDC: 621.791.72

S/139/59/000/05/003/026
E032/E114

AUTHOR: Kaz'min, G.S.

TITLE: An Accelerating Tube for a High Intensity Electron Beam

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
            Fizika, 1959, Nr 5, pp 14-18 (USSR)

ABSTRACT: A description is given of the electron-optical system of
            an accelerating tube with electrostatic focussing and
            working in the space charge limited region. The
            electron-optical scheme is shown in Fig 1.   The
            experimental tube (250 kV) is shown in Fig 2. Its body
            is 76 cm long and consists of two identical glass
            sections 1. The tungsten cathode which is in the form
            of a plain spiral 2 gives an emission current of up
            to 6 amps at 200 watts. The working life of the tube
            is 10 - 20 hours. The tube is supplied by the pulse
            transformer 4, and the voltage distributed along the
            tube sections is derived from the water potential
            divider (in rubber tube) 5.   The current intercepted
            by the Faraday cup 3 at 100 kV was found to be
            0.44 amp for $\alpha = 2.5$ (α is the ratio of voltages on
            the electrodes of the lens (cf Fig 1).   At 250 kV this
            current was found to be 1.7 amp. It is shown that

Card
1/2

KAZ'MIN, G.S.; KASSIROV, G.M.; KREYNDEL', Yu.Ye.; LAPTEVA, T.I.

Some aspects of constructing accelerator tubes for high
currents. Izv. TPI 122:108-115 '62.   (MIRA 17:9)

ACC. NR: AR700221 (AN)   SOURCE CODE: UR/0275/66/000/010/A011/A011

AUTHOR: Kaz'min, G. S.; Noskov, D. A.; Pankovets, N. G.; Sudakov, V. I.; Proskurovskiy, D. I.

TITLE: Electron-beam welding of leads in electrovacuum devices

SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 10A74

REF SOURCE: Tr. Tomskogo in-ta radioelektron. i elektron. tekhn., no. 4, 1965, 112-114

TOPIC TAGS: electron beam welding, tungsten welding, nickel welding, flux, electron beam, tungsten nickel wire electrovacuum, electrovacuum equipment, weld evaluation

ABSTRACT: An experimental investigation was made of electron-beam welding of leads in electrovacuum equipment, which were made of tungsten and nickel components. Acted upon by the accelerated and focused electron beam in vacuum, the tungsten component generates the heat which fuses the ends of the two wires. The leads are welded on an electron beam device. The components to be welded are fastened to a mandrel, placed in the operating chamber. During welding, the com-

Card 1/2   UDC: 621.3.032

ACC. NR: AR7002221

ponents are brought to a distance at 0.2—0.3 mm. The nickel component is fed the tungsten component by a spring mounted on the mandrel. An unetched microscopic analysis 500X showed no defects in the weld. The weld was dense, without pores, cracks, and inclusions. [Translation of abstract]   [NT]

SUB CODE: 13/

Card 2/2

USSR/Cultivated Plants - Fruits. Berries.

Abs Jour   : Ref Zhur - Biol., No 4, 1958, 15767

USSR/Cultivated Plants - Fruits. Berries.   M-6

Abs Jour   : Ref Zhur - Biol., No 7, 1958, 30034

Author   : Kaz'min, G.T.

Inst   : The Far Eastern Scientific Research Institute for
              Agriculture.

Title   : The Voylochnaya (Felt-like) Sour Cherry.

Orig Pub   : Naucka i peredovoy opyt v s. kh., 1957, No 1, 38-40

Abstract   : The Voylochnaya (felt-like) variety sour cherry is descri-
              bed which was developed at the Far Eastern Scientific
              Research Institute for Agriculture by methods of analyti-
              cal selection and hybridization with the sand cherry.
              The hybrid varieties were characterized by strong growth,
              resistance to red rot and "cherry-pockets" and by their
              rapid fruit bearing. Ten elite and 16 candicates for
              the elite and many prospective saplings wer classified.

Card 1/2

USSR/Cultivated Plants - Fruits. Berries.   M

Abs Jour   : Ref Zhur Biol., No 12, 1958, 53815

Author   : Kaz'min, G.T.

Inst   : Far Eastern Scientific Research Institute of Agriculture

Title   : Some Agrotechnical Problems in Growing Plum Seedlings.

Orig Pub   : Byul. nauchno-tekhn. inform. Dal'nevost. n.-i. in-ta s.
              kh., 1957, No 4, 42-44

Abstract   : The blossoms of the apricots cultivated in the region of
              Emilin (Italy) are frequently subjected to frosts in the
              spring. It was, therefore, necessary to raise later
              blossoming varieties of apricot. The latest blossoming
              variety is Ril Umola. In 1954 and in 1955, the author
              isolated on the Ril Umola tree one branch which blossomed
              later than the mother tree but produced earlier (by 8-10
              days) ripening fruit. This branch was used for grafting

Card 1/2

KAZ'MIN, Grigoriy Tikhonovich, kand. sel'khoz. nauk; MARKOVA, S.M., red.;
KAYDALOVA, M.D., tekhn. red.

[Collective and individual orchards in the Far East] Kollektivnyi i
priusadebnyi sad na Dal'nem Vostoke. Khabarovsk, Khabarovskoe knizhnoe
izd-vo, 1960. 189 p.   (MIRA 14:12)
                        (Soviet Far East—Fruit culture)

L 42055-66   EWT(d)/T/EWT(1)   IJP(c)   BB/GG/BC

ACC NR: AP6016143   SOURCE CODE: UR/0103/66/000/005/0204/0206

AUTHOR: Kazmin, G. T.

ORG: none

TITLE: Second All-Union Conference on Bionics

SOURCE: Avtomatika i telemekhanika, no. 5, 1966, 204-206

TOPIC TAGS: bionics, medical conference, medical personnel, biologic personnel, information processing, animal physiology, pattern recognition, nervous system, animal communication, cybernetics, computer memory, biophysics, human sense, man machine communication, biologic computer

ABSTRACT: The Second All-Union Conference on Bionics, organized by the Academy of Sciences USSR, the Ministry of Higher and Secondary Specialized Education, the Academy of Medical Sciences USSR, and the All-Union Scientific-Technical Society for Radio Engineering and Telecommunication imeni A. S. Popov, held at Moscow State University from 20 to 24 December 1965, was attended by some 1000 scientists and engineers from the USSR, Bulgaria, and Hungary. Among the participants were 600 radio, electrical, mechanical, and automation engineers and specialists in computer technology and cybernetics; 180 biologists, physiologists, and physicians; and 180 physicists, mathematicians, psychologists, chemists, philosophers, and other specialists. Six papers were presented in the plenary sessions and 100 in the various sections.

Card 1/5   UDC: 546.821

L 42055-66

ACC NR: AP6016143

Academician A. I. Berg and Prof. B. S. Sotskov presented a paper entitled "Present status and trends in the development of bionics" dedicated to general problems of bionics. It is pointed out that the most important results and studies in bionics in the last few years were associated with the processes of receiving and processing information. These include studies concerned with the design of quick-response, reliable, small, and economical elements on the basis of the performance of receptors and analyzers in animals (ear, eye, olfactory organs, and others); with the structure of orientation and navigation systems in animals; and, on the basis of these studies, with the design of response devices and new navigation and communication systems. A great deal of attention has been paid to developing information-transforming devices and systems, to evaluating and storing information, to constructing neuron and neural net models, to searching for new methods for solving complex problems, in particular, to developing heuristic programming methods and to developing bionics aspects in pattern recognition problems. The opinion is expressed that important results can be expected in designing high-quality amplifying, relay, and logic elements and devices which ensure the separation of signals from noise and also in searching for new methods and physical principles for time-dependent and spatial selection of signals. A series of bionics problems were indicated which the authors considered urgent.

N. P. Naumov, S. N. Simkin, V. D. Il'ichev, and V. R. Protasov presented a paper entitled "Means of communication in animals and their modeling" in which the problem of controlling the behavior of a large num-

Card 2/5

L 42055-66

ACC NR: AP6016143   9

ber of wild animals on the basis of modeling the signals (chemical,
optical, acoustic) serving as means of communication between the animals
is analyzed.
    In a paper entitled "The problem of modeling a universal sensor,"
Ya. A. Vinnikov analyzed the receptor cells of various sensing organs from
a single point of view.

    In the paper by L. P. Krayzmer entitled "Modern concepts of the human
memory and bionic means for designing the memories of cybernetic machines,"
the pecularities of the human memory are analyzed, and its capacity, spe-
cific capacity, and efficiency as compared with computer memories are eval-
uated. The course of further studies of the memories of biological systems
is outlined.
    The paper by S. Ye. Kleinenberg and N. V. Kokshayskiy entitled
"Modern problems in biological aero- and hydrodynamics," presented at the
closing plenary session, analyzes the problem of modeling the adapting
process of flying or swimming animals, ensuring high velocities at low
loss of energy. A critical analysis of attempts to explain why the hydro-
dynamic resistance of swimming animals is low is presented.
    In the last paper presented at the plenary session by K. B. Karandeyev,
B. I. Puchkin, M. Ya. Subbotin, and Ya. D. Finkinshteyn, entitled "Certain
general regularities in chemical reception illustrated by means of the
example of an odor perception mechanism," a series of general principles
in the structure of neural mechanisms which execute the task of chemical
reception are presented.

Card   3/5

L 42055-66

ACC NR: AP6016143   11

    The other hundred papers were presented in five sections: 1) receptors,
analyzers and pattern recognition; 2) neural organization and bionic
aspects in reliability; 3) bionic aspects in control, regulation, and in
the man-automation problem; 4) orientation and navigation in animals;
5) biomechanics and bioenergetics. The chairmen of these sessions were:
Corresponding Member of the Academy of Sciences USSR G. V. Nikol'skiy;
and Professors N. P. Naumov, S. N. Braynes, L. P. Krayzmer, A. B. Kogan,
A. V. Netushil, V. V. Chavchanidze, S. F. Manziya, Ya. A. Vinnikov, and
L. O. Belopol'skiy. The many problems analyzed in the sections included
the organization of structures which realize pattern recognition pro-
cesses, algorithmization of these processes, the connections between
learning and pattern recognition, and the design of devices simulating the
various stages of the recognition process. A series of papers were dedi-
cated to the synthesis of formal neurons, the relation between the reli-
ability of the brain and its probabilistic-statistical organization,
modeling the axodendritic sphere of a neuron, and the design of memory
devices on the basis of biological systems. A great deal of attention was
paid to papers concerning the eff... of electromagnetic phenomena on
biological memory systems in man and on machine memories, the motor pro-
cesses and the mechanisms for controlling them, and behavior and search
mechanisms. The problems of orientation and navigation in insects, fish,
and birds and of constructing of models on the basis of data obtained from
studying the motor organs of animals were anlyzed.

Card 4/5

AID P - 3825

Subject   : USSR/Geology

Card 1/1   Pub. 78 - 13/25

Author   : Kaz'min, M. M.

Title   : The Kungur oil of Bashkiriya

Periodical   : Neft. khoz., v. 33, #11, 69-70, N 1955

Abstract   : The geological survey made by 500-700 m test well drillings
                of the eastern slopes of the Russian nappe west of the
                Ural Mountains in the Kungar District of Bashkiriya has
                shown an extensive formation of oölitic dolomites in the
                Permian horizon. Up to now this kind of rock did not yield
                oil, but the author considers that new trials must be made
                and new methods developed and applied for oil recovery in
                this section.

Institution : None

Submitted   : No date

KAZ'MIN, M.M.

Oil-bearing potentials of carbonate deposits in the Bashkirian
Paleozoic. Geol. nefti 1 no.9:49-52 S '57.   (MLRA 10:9)

1. Ob"yedineniye Bashneft'.
                    (Bashkiria--Petroleum geology)

OV/NESOV, G.P.; KAZ'MIN, V.M.

New data on the geology of oil- and gas-bearing regions in
Bashkiria. Sov. geol. 1 no.1:114-127 Ja '58.   (MIRA 11:4)

1. Ob"yedineniye "Bashneft'," g. Ufa.
                    (Bashkiria—Petroleum geology)
                    (Bashkiria—Gas, Natural—Geology)

KAZ'MIN, N. (Tambov)

       The night came... Pozh.delo 9 no.7:16 Jl '63.   (MIRA 16:10)

VASIL'YEVA, N.; KAZ'MIN, N.; UL'YANOV, V.

      Resolutions of Women's Councils. Pozh.delo 8 no.3:6-7 Mr '62.
                                        (MIRA 15:4)
    (Tambov Province--Women in public life) (Fire prevention)

LUKIN, V.; YAROVAYA, N., studentka (Voronezh); KAZ'MIN, N.(Tambov); KATS, I.

Everyday affairs of volunteer firemen.   Pozh.delo 9 no.2:6 F '63.
(MIRA 16:3)

1. Nachal'nik uchebnogo punkta Leningradskogo oblastnogo i
gorodskogo dobrovol'nogo pozharnogo obshchestva (for Kats).

KAZMIN, N. I.

23346 Avtomaticheskiy Tkatskiy Stanok Kananina. Tekstil. Prom-St', 1949, No. 6,
c. 34-36

SO: LETOPIS NO. 31, 1949

KAZ'MIN, N.I.

Siberia is building roads. Transp. stroi. 14 no.1:2-3 Ja '64.
(MIRA 17:8)
1. Nachal'nik Glavnogo upravleniya zheleznodorozhnogo stroitel'-
stva Urala i Sibiri.

KAZ'MIN, N.I.

       Prepare in time for work in cold weather. Transp. stroi. 14
       no.10:2-3 0 '64.   (MIRA 18:3)

       1. Nachal'nik Glavnogo upravleniya zheleznodorozhnoy svyazi
       Urala i Sibiri.

KAZMIN, N.T.; ZHIVOV, K.I.; MAKAROV, A.V., retsenzent; KUPRIYANOV, P.S.,
retsenzent.

[Knotting machines in the weaving industry] Uzloviazal'nye ma-
shiny tkatskogo proizvodstva. Moskva, Gos. nauchno-tekhn. izd-
vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia,
SSSR, 1953. 76 p.   (MLRA 7:8)
        (Textile machinery)

KAZMIN, N.T.

Uzloviazal'nye mashiny tkatskogo proiz-
vodstva (Knotting machines in the weaving industry).
Moskva, Gizlegprom, 1953. 80 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 5, August 1954

KAZ'MIN,N.T.; MAKAROV,A.V.

Choosing the type of a sizing machine for the cotton industry.
Tekst.prom. 15 no.6:27-28 Je '55.   (MLRA 8:7)
        (Sizing (Textile)) (Textile machinery)

KAZMIN, Nikolay Tikhonovich; ZHIVOV, Kirill Ivanovich; KUPRIYANOV, Fedor
    Sergeyevich; SIMAKIN, V.V., retsenzent; SEGEL', N.M., redaktor;
    DMITRIYEVA, N.I., tekhnicheskiy redaktor

[Reeding section and knotting machines of the weaving industry]
Probornyi otdel i uzloviazal'nye mashiny tkatskogo proizvodstva.
Moskva, Gos. nauchno-tekhn. izd-vo M-va legkoi promyshl.SSSR,
1957. 182 p.   (MLRA 10:6)
        (Weaving)

KAZMIN, N.T., inzh.

Special characteristics of the AT-100-2 automatic loom.
Tekst.prom. 17 no.12:26-29 D '57.   (MIRA 11:1)
                        (Looms)

KAZMIN, N.T.

The AT-100-5 automatic loom. Biul.tekh.-ekon.inform. no.2:39-41
'58.   (MIRA 11:4)
                    (Looms)

KAZMIN, N.T.

New SD-110 shearing machine. Tekst.prom. 19 no.10:44-48
O '59.   (MIRA 13:1)

1. Starshiy inzhener Upravleniya tekstil'noy i trikotazhnoy
promyshlennosti Mosgorsovnarkhoza.
            (Textile machinery)

IL'ICHEV, Vasiliy Fedorovich; KAZMIN, Nikolay Tikhonovich; SIMAKIN, V.V.,
    retsenzent; GOLUBEV, N.M., red.; SOKOLOVA, V.Ye., red.;
    SHVETSOV, S.V., tekhn.red.

[Redesigning of weaving equipment for the cotton industry]
Modernizatsiia tkatskogo oborudovaniia v khlopchatobumazhnoi
promyshlennosti. Moskva, Izd-vo nauchno-tekhn.lit-ry RSFSR,
1961. 116 p.   (MIRA 15:2)
    (Looms)   (Cotton manufacture--Equipment and supplies)

KAZ'MIN, Petr Alekseyevich; NILOV, A., otv.red.; MEDVEDEV, K., red.;
NIKITINA, V., tekhn.red.

[Seven-year plan of the Kaliningrad Economic Region] Semi-
letka Kaliningradskogo ekonomicheskogo raiona. Kaliningrad,
Kaliningradskoe knizhnoe izd-vo, 1959. 19 p.   (MIRA 13:2)
      (Kaliningrad Province--Economic policy)

KAZ'MIN, S. D.

Kazmir, S.D

in the presence of ... Na 1,2,3,4-tetrahydronaphthalene-
sulfonate: (I) 0.0 ... 0.0004 C₈H₉N(Br)C₆H₅ ...

... soaps, it was a linear function of the no. of C atoms in the
chain. The hydroperoxides which more rapidly decomp. in
hydrocarbons are less stable also in H₂O   J. J. Rakerman

S/021/60/000/006/015/019
A153/A029

AUTHORS: Kucher, R.V.; · Kaz'min, S.D.

TITLE: On Thermal Decomposition of Cumene Hydroperoxides in Solubilized
             Aqueous Solutions

PERIODICAL: Dopovidi Akademiyi nauk Ukrayins'koyi RSR, 1960, Nr. 6, pp. 817 - 820

TEXT: Furthering a study conducted by A.Y. Yurzhenko and F.Y. Hrobshteyn
(Ref. 2) the authors investigated the effects of solubilization of cumene hydro-
peroxide upon the rate of its thermal decomposition. Cumene hydroperoxide with
a purity of 99.2% was treated in a medium of pure nitrogen in glass vials. So-
lubilization effects were also studied on vials, which for the sake of a complete
saturation were agitated with solubilized solutions during 10 - 12 hours at $20^{o}C$.
The results are as follows: the thermal stability of hydroperoxides in aqueous
solutions is determined to a great extent by their solubility in the presence of
an emulsifier. The value of cumene hydroperoxide solubilization in aqueous solu-
tions of Nekal greatly influences the rate of its thermal decomposition. The
solubility of hydroperoxide in diluted Nekal solutions (up to 2%) is decreased

Card 1/2

YENAL'YEV, V.D.; KAZ'MIN, S.D.; KUCHER, R.V.

Initiation of the emulsion oxidation of isopropylbenzend and 1, 1-diphenylethane by hydrogen peroxide. Sbor. nauch. rab. Inst. fiz.-org. khim. AN BSSR no.8:126-131 '60.   (MIRA 14:3)

1. L'vovskiy gosudarstvennyy universitet im. I. Franko.
    (Cumene)   (Ethane)   (Hydrogen peroxide)

KUCHER, R.V.; KAZ'MIN, S.D.; YURZHENKO, A.I.

Some kinetic characteristics of the emulsion oxidation of hy-
dorcarbons. Sbor. nauch. rab. Inst. fiz.-org. khim. AN BSSR
no.8:132-137 '60.

(MIRA 14:3)

1. L'vovskiy gosudarstvennyy universitet im. I. Franko.
(Hydrocarbons)   (Oxidation)

81410

S/020/60/132/06/35/068
B004/B005

5.3200

AUTHORS: Kucher, R. V., Kaz'min, S. D., Yenal'yev, V. D.

TITLE: On the Possibility of Increasing the Yield in Hydroperoxide
               by Initiating the Cumene Oxidation With Hydrogen Peroxide

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 6,
               pp. 1348-1351

TEXT: The authors discuss the process of initiation of a chain reaction
on the basis of papers by N. M. Emanuel' (Ref. 1) and N. N. Semenov (Ref. 2).
In previous papers by the authors (Refs. 3, 4) it was observed that in
the case of initiation of oxidation of isopropyl benzene by means of
H_2O_2 the effect depends on the point of time of adding the initiator
(Fig. 1A). An addition at the beginning of oxidation effects neither
acceleration of the reaction nor reduction of the induction period.
Only if H_2O_2 is added at later points of time when the reaction becomes
slower, it effects an acceleration so that the hydroperoxide yield rises

Card 1/3

On the Possibility of Increasing the Yield   S/020/60/132/06/35/068
in Hydroperoxide by Initiating the Cumene   B004/B005
Oxidation With Hydrogen Peroxide

from 40 to 80%. Hence, the authors conclude that the by-products develop-
ing during oxidation exert an inhibiting influence which is eliminated
by H_2O_2. They confirmed this conclusion by adding phenol as an inhibitor
the effect of which was really eliminated by H_2O_2 (Fig. 1B). Equations
are written down for the kinetics of the reaction A → B → C, with the
product B undergoing degenerated branching, and C interrupting the reaction
chain; Fig. 2 shows the function $\eta = f(\tau)$ for various values of β
($\eta = B/A$, $\tau = A\sqrt{h/g}$, h = rate constant of degenerated branching, g = rate
constant of the interruption of reaction, $\beta = k_3\sqrt{A/hg}$, k_3 = constant of
the reaction rate for C). The later the H_2O_2 is added, the more intensive
is its initiating effect. There are 2 figures and 6 references: 5 Soviet
and 1 Swedish.

ASSOCIATION: L'vovskiy gosudarstvennyy universitet im. Ivana Franko
               (L'vov State University imeni Ivan Franko)

Card 2/3

2C291
S/076/61/035/010/010/015
B106/B230

54300 also 1375

AUTHORS: Kucher, R. V., Kaz'min, S. D., and Yenal'yev, V. D.

TITLE: Initiation of emulsion oxidation of alkylated aromatic
             hydrocarbons by hydrogen peroxide

PERIODICAL: Zhurnal fizicheskoy khimii, v. 35, no. 10, 1961, 2322 - 2327

TEXT: The authors investigated the initiation by hydrogen peroxide in
emulsion oxidation of isopropyl benzene, 1,1 diphenyl ethane, and
1-phenyl-1-p-tolyl ethane in the liquid phase, this problem being of great
practical interest in the synthesis of hydroperoxide compounds. Oxidation
was conducted at 85°C in "air lift" type glass vessels in which the re-
action mixture was agitated by air bubbling in through a porous gl ss
partition. For the aqueous phase, a 0.1 N soda solution was used in all
tests. The volume ratio of the hydrocarbon phase to the aqueous phase
was 1:3. At regular intervals, samples were taken and the hydroperoxide
content was determined iodometrically by potentiometric titration (Ref. 5:
see below). Oxidation of the alkylated aromatic hydrocarbons referred to
proceeds in emulsion systems by autocatalysis. The effect of hydrogen

Card 1/4

28291

S/076/61/035/010/010/015

Initiation of emulsion oxidation of ...   B106/B230

progressing reaction. This hypothesis was confirmed by an experiment in which hydrogen peroxide was introduced into a reaction retarded by an inhibitor. For this purpose, the oxidation of cumene was inhibited by adding a small quantity (0.01 g-mole/liter) of phenol breaking down the oxidation chains according to reaction $C_6H_5OH + R^\cdot \longrightarrow C_6H_5O^\cdot + RH$. The $C_6H_5O^\cdot$ radicals are of low activity, and recombine. Adding hydrogen peroxide eliminated the inhibition of the reaction, and caused a steep rise of the oxidation rate. When during the reaction, oxidation products combine with initiator radicals to form radicals similar to chain radicals in their activity, initiation results in increasing the total oxidation rate. In the reverse case, the consumption of components reacting with initiator radicals is accelerated and the total reaction rate decreases. Also in this case, the effect of a brief initiation at the final stage of oxidation may be favorable for the process. The effect of an initiator therefore depends on the reactivity of the components of the reaction mixture. There are 3 figures and 7 references: 5 Soviet and 2 non-Soviet. The two references to English-language publications read as follows: Ref. 5: V. Kokatnur, M. Jelling, J. Amer. Chem. Soc., 63,
Card 3/4

Initiation of emulsion oxidation of ...

28291
S/076/61/035/010/010/015
B106/B230

1432, 1941; J. W. Fordham, H. L. Williams, Canad. J. Chem., 27B, 913, 1954.

ASSOCIATION: L'vovskiy universitet im. Iv. Franko (L'vov University imeni Iv. Franko)

SUBMITTED: March 3, 1960

Card 4/4

KUCHER, R.V.; KAZ'MIN, S.D.

Emulsion oxidation of alkyl aromatic hydrocarbons under pressure.
Part 1: Kinetic laws governing the accumulation of the main
products during the oxidation of isopropylbenzene and 1,1-dip-
henylethane. Kin. i kat 2 no.2:263-266 Mr-Ap '61.   (MIRA 14:6)

1. L'voyskiy gosudarstvennyy universitet i Ukrainskiy nauchno-
issledovatel'skiy institut poligraficheskoy promyshlennosti.
(Cumene) (Ethane)

KUCHER, R.V.; KAZ'MIN, S.D.; KOVBUZ, M.A.

Characteristics of salt catalysis during oxidation of alkyl aromatic hydrocarbons. Izv.vys.ucheb.zav.; khim.i khim.tekh. 4 no.6:971-976 '61. (MIRA 15:3)

1. L'vovskiy gosudarstvennyy universitet imeni Franko, kafedra fizicheskoy i kolloidnoy khimii.
    (Salts)   (Catalysis) (Oxidation)   (Hydrocarbons)

KUCHER, R.V.; KOVBUZ, M.A.; KAZ'MIN, S.D.

 Alkaline oxidation of isopropylbenzene. Ukr.khim.zhur. 27
 no.5:658-663 '61.   (MIRA 14:9)

 1. L'vovskiy gosudarstvennyy universitet im. I. Franko.
      (Cumene)   (Oxidation)

KAZ'MIN, S.D.; KUCHER, R.V.

Activation energy of chain propagation during the oxidation of
isopropylbenzene and 1, 1-diphenylethane. Zhur.ob.khim. 31
no.10:3171-3174 0 '61.   (MIRA 14:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut poligraficheskoy
promyshlennosti.
                (Cumene)   (Ethane)   (Oxidation)

KUCHER, R.V.; KAZ'MIN, S.D.

Mechanism of the formation of carbonyl compounds and acids in
emulsion oxidation of isopropylbenzene. Dokl. AN SSSR 139
no.5:1114-1116 Ag '61.   (MIRA 14:8)

1. L'vovskiy gosudarstvennyy universitet im. Iv. Franko.
Predstavleno akademikom V.N. Kondrat'yevym.
                (Carbonyl compounds) (Cumene)

KAZ'MIN, S.D.

Initiation of degenerate chain branching reactions with quadratic chain termination.Zhur. fiz. khim. 35 no.5:1166-1167 My '61.   (MIRA 16:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut poligraficheskoy promyshlennosti.
                    (Chemical reaction, Rate of)

KUCHER, R.V.; KAZ'MIN, S.D.; YENAL'YEV, V.D. (Lvov)

Hydrogen peroxide initiation of the emulsion oxidation of alkyl
aromatic hydrocarbons. Zhur.fiz.khim. 35 no.10:2322-2327 O
'61.   (MIRA 14:11)

1. L'vovskiy universitet imeni Iv. Franko.
            (Hydrocarbons) (Hydrogen peroxide)

KUCHER, R.V.; KAZ'MIN, S.D.

Emulsion oxidation of alkyl aromatic hydrocarbons under pressure.
Part 3: Effect of hydrogen peroxide on the reaction of oxidation
of isopropylbenzene and 1,1-diphenylethane. Kin.i kat. 3 no.1:
31-35 '62.   (MIRA 15:3)

1. L'vovskiy gosudarstvennyy universitet imeni Franko.
         (Cumene) (Ethane) (Hydrogen peroxide)

KAZ'MIN, S.D.

Mechanism of isopropylbenzene oxidation in weak-alkaline
emulsions. Zhur.prikl.khim. 35 no.2:422-429 F '62.
(MIRA 15:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut poligraficheskoy
promyshlennosti.
(Cumene)   (Oxidation)

KAZ'MIN, S. D.

Oxidation of acetophenone initiated by peroxide compounds.
Zhur. ob. khim. 33 no.1:282-285 '63.   (MIRA 16:1)

(Acetophenone)   (Peroxides)

KAZ'MIN, S.D.

Rate of initiated chain reactions with "quadratic" chain termination as a function of the activity of initiator radicals. Kin. i kat. 5 no.3:534-537 My-Je '64.
(MIRA 17:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut poligraficheskoy promyshlennosti, L'vov.

YERUSALIMSKIY, A.L. [deceased]; KAZ'MIN, S.D.

Effect of some antitumoral preparations on the kinetics of chain reactions. Ukr.khim.shur. 31 no.5:521-524 '65.
(MIRA 18:12)

1. Submitted October 22, 1964.

KAZ'MIN, S.D.; PETROV, L.N.

Saponification of Na-salt of dioctyl ester of sulfocinnamic
acid in an emulsion system in the presence of nitric acid.
Zhur.prikl.khim. 38 no.11:2605-2606 N '65.

(MIRA 18:12)

1. Submitted September 10, 1963.

KAZMIN, Vjeceslav, sanitetski pukovnik, prof., dr.; ZAJIC, Zivorad,
      sanitetski potpukovnik, dr.

Aplasia and torsion of the liver. Vojnosanit. pregl. 19 no.4:
298-300 Ap '62.

1. Vojnomedicinska akademija u Beogradu, Klinika za hirurske
bolesti.
                    (LIVER DISEASES)

KAZMIN, Vjeceslav, sanitetski pukovnik, prof., dr.

Prolapse of the anus and rectum. Voj.san.pregl. 18 no.3:285-288
Mr '61.

1. Vojnomedicinska akademija u Beogradu, Hirurska klinika.

(RECTUM dis)   (ANUS dis)

KAZ'MIN, V.G.; FARADZHEV, V.A.

Tectonic development of the Yarkand sector of Kunlun. Sov.
geol. 4 no.8:45-57 Ag '61.   (MIRA 16:7)

1. Vsesoyuznyy aerogeologicheskiy trest.
          (Kunlun—Geology, Structural)

PONIKAROV, V.P.; SULIDI-KONDRAT'YEV, Yu.D.; KOZLOV, V.V.; KAZ'MIN, V.G.

Tectonics of the northern part of the Arabian Platform.
Sov. geol. 7 no.1:39-48   Ja '64.   (MIRA 17:6)

KAZ'MIN, V.G.; MIKHAYLOV, I.A.; SHATSKIY, V.N.

Rift structures in northwestern Syria. Sov. geol. 7 no.6:81-92
Jo '64   (MIRA 18:1)

KAZ'MIN, V.G.; KULAKOV, V.V.

      Ophiolite formation of northwestern Syria. Izv.vys.ucheb.zav.;
      geol. i razv. 8 no.2:3-14 F '65.   (MIRA 18:3)

      1. Vsesoyuznyy aerogeologicheskiy trest.

PONIKAROV, V.P.; KAZ'MIN, V.G.

Pre-Cambrian and Paleozoic of the northwestern part of the
Arabian Peninsula. Sov. geol. 8 no.3:89-99 '65.

(MIRA 18:5)

KAZ'MIN, V.G.

Characteristics of the convergence of the ancient platform and
Alpine geosyncline area in northeastern margin of the Mediter-
ranean Sea. Biul. MOIP Otd. geol. 40 no. 6:43-56 N-D '65
                                              (MIRA 19:1)

KAZ'MIN, V.M.; VOZDVIZHENSKIY, B.I., prof., red.; BEKMAN, Yu.K., vedushchiy
red.; POLOSINA, A.S., tekhn.red.

[Test-well drillers] Buril'shchik strukturnogo bureniia. Pod red.
B.I.Vozdvizhenskogo. Moskva, Gos.nauchno-tekhn.izd-vo neft. i
gorno-toplivnoi lit-ry, 1952. 247 p.   (MIRA 13:12)
                    (Oil well drilling)

KAZ'MIN, V.M.; KAZ'MIN, V.S.; DUBROVINA, N.D., vedushchiy red.;
MUKHINA, E.A., tekhn.red.

[Master's manual on drilling in structural areas] Spravochnik
burovogo mastera strukturnogo bureniia. Moskva, Gos.nauchno-
tekhn.izd-vo neft.i gorno-toplivnoi lit-ry, 1958. 448 p.
(MIRA 11:1)

(Boring)

MILOSLAVSKIY, Ya.M.; MILESLAVSKAYA, L.I.; LEONOVA, V.; KAZ'MIN, V.

Effect of certain neurotropic substances on the adrenal cortex.
Report No. 1. Probl. endok. i gorm. 6 no. 3:12-14 My-Je '60.

(MIRA 14:1)

(ADRENAL CORTEX) (PHARMACOLOGY)

ACC NR: AP7004555

SOURCE CODE: UR/0215/667000/006/0090/0100

AUTHOR: Kazmin, V. N.; Orlov, I. V.

ORG: none

TITLE: Problem of the principles of compilation of geochemical maps during a geological survey

SOURCE: Sovetskaya geologiya, no. 6, 1966, 90-100

TOPIC TAGS: geochemistry, geologic survey

ABSTRACT:
    Since the principal scale of geological mapping in the USSR is 1:50,000, it follows that this should be the main scale for geochemical mapping. This paper is a detailed presentation of a method used in compiling geochemical maps at this scale simultaneously with geological field work. The study is based on work done in an unforested area in Kazakhstan with good exposure of surface rocks -- an area of complex geological structure with ore shows. The article is significant due to the detail with which it describes all stages in map compilation, from preparations for field work to preparation of the final map and the method could be used for other regions of comparable characteristics. The principles of such work are described, followed by comments on the

UDC: 550.84:528.912

Card 1/2

ACC NR: AP7004555

field work method and step-by-step description of the statistical processing of data and map plotting. The final geochemical map is used together with cross sections and a histogram which accompanies it and in combination with a map of the structural geology of the same quadrangle. The map can serve as a basis for predicting the occurrence of ore deposits or indicating areas promising for prospecting work. When this work is done simultaneously with a geological survey the cost of the latter is increased by approximately 20-30%. Orig. art. has: 1 figure.
[JPRS: 38,460]

SUB CODE: 08 / SUBM DATE: none / ORIG REF: 006

Card 2/2

UDC: 550.84:528.912

KAZ'MIN, V.S.

The UHB-ZA drilling unit. Neft.khoz.32 no.2:16-19 F '54.
(MLRA 7:2)
(Petroleum--Well boring)

MAZMIN, V. S.

Subject   : USSR/Mining   AID P - 493

Card 1/1   Pub. 78 - 7/27

Author   : Kaz'min, V. S.

Title   : Modernized drilling equipment U.R.B-3 AM

Periodical   : Neft. Khoz., v. 32, #6, 30-31, Ju 1954

Abstract   : The author describes improvement of various details of
                the drilling equipment URB-3AM concerning the rotary
                table, couplings, friction gears, controlling levers,
                etc. The arrangement of the details are shown on a
                diagram.

Institution : None

Submitted   : No date

KAZ'MIN, V.S.

Album of Spare Parts for Machine KAM-500. Gostoptekhizdat. 1955, 80 p, price: rubles 2.40. In book are presented sketches of the basic units and spare parts to the machine; there is given a short manual for assembling and dis-assembling of structural-mapping (?) equipment, and also principal rules of its use. Handbook is intended for master drillers, mechanics and petroleum-exploration engineers and workers in repair machine shops.

So: A.- 3080689

Kaz'min, V.

AID P - 2689

Subject   : USSR/Mining

Card 1/1   Pub. 78 - 7/21

Author   : Kaz'min, V. S.

Title   : Industrial testing of the URB-4p drilling instal-
                lation

Periodical   : Neft. khoz., 33, 5, 32-36, My 1955

Abstract   : This article describes the URB-4p movable drilling
                rig manufactured by the Kungur Machine-Building
                Plant. It consists of a machine section on caterpil-
                lars, a pumping section on skids or sliding under-
                carriage, and an assembly derrick movable on a
                sliding undercarriage. This movable rig can be used
                for exploratory or shallow drillings not exceeding
                4,000 feet. Technical specification data are given,
                as well as a diagram and a photo of the installation.

Institution : None

Submitted   : No date

KAZ'MIN, V.S.

        Field trials of URB-2A drilling rigs. Neft.khoz. 34 no.5:6-8 My '56.
                                                  (MLRA 9:8)
           (Oil well drilling--Equipment and supplies)

KAZ'MIN, U.S.

KAZ'MIN, V.M.;-KAZ'MIN; V.S.; DUBROVINA, N.D., vedushchiy red.;
MUKHINA, E.A., tekhn.red.

[Master's manual on drilling in structural areas] Spravochnik
burovogo mastera struktornogo bureniia. Moskva, Gos.nauchno-
tekhn.izd-vo neft.i gorno-toplivnoi lit-ry, 1958. 448 p.
(MIRA 11:1)

(Boring)

KAZ'MIN, Vadim Sergeyevich; IL'SKIY, A.L., red.; SHAKHMAYEVA, Ye.A.,
vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Movable installations for drilling small-diameter wells]
Peredvizhnye ustanovki dlia bureniia skvazhin malogo diametra:
rukovodstvo po ekspluatatsii. Moskva, Gos.nauchno-tekhn.izd-vo
neft. i gorno-toplivnoi lit-ry, 1959. 356 p.   (MIRA 13:3)
(Boring machinery)

KAZ'MIN, V.S., inzh.

New units for test drilling. Besop.truda v prom. 4 no.3:
16-17 '60.   (MIRA 13:6)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut neftyanogo mashinostroyeniya.
                (Boring machinery)

KAPYNIN, V.S., inzh.

The BU-30 drilling unit. Bezop.truda v prom. 5 no.1:21-22 Ja '61.
(Oil well drilling rigs)

KAZ'MIN, Vadim Sergeyevich; DUBROVINA, N.D., ved. red.; POLOSINA, A.S.,
            tekhn. red.

[Handbook on geological exploratory drilling for oil and gas]
Spravochnik po geologorazvedochnomu bureniiu na neft' i gas.
Moskva, Gostoptekhizdat, 1962.   506 p.   (MIRA 15:10)
                        (Boring)

KAZMIN, Vjeceslav, Pukovnik prof., dr.; VUJISIC, Dragutin, major dr.

        Osteochondroma femoris et pelvis permagnum. Voj. san. pregl.,
        Beogr. 13 no.1-2:67-68 Jan-Feb 56.

      1. Hirurska klinika VMA.
          (OSTEOMA,
              femur & pelvis (Ser))
          (FEMUR, neoplasms,
              osteoma, femoro-pelvic (Ser))
          (PELVIS, neoplasms,
              same)

DZHEMS-LEVI, G.Ye. (Lipetsk); KAZ'MIN, V.V. (Lipetsk)

Nomograms with uniform rectilinear scales. Nom. sbor. no.2:
133-140 '64.   (MIRA 18:3)

KATKIN, W. W. ,

WIERTACZ MALOSREDNICOWYCH WIERCEN (BORER OF SMALL-WIDTH HOLES). Translated from
Russian into Polish by R. PIATKIEWICZ, Wydawnictwo Gorniczo-Hutnicze, 1955,

266 p.

KAZ'MIN, Yu.

Work organization in building elevators. Stroitel' 2 no.6:3-4
Je '56.   (MIRA 10:1)

1. Proizvoditel' rabot Alam-Atinskogo strotiel'nogo upravleniya
tresta Sredazzagotstroy.
(Alma-Ata--Grain elevators) (Reinforced concrete construction)

KAZ'MIN, Yu.A.

Subsequences of Hermite and Laguerre polynomials. Vest.
Mosk.Un.Ser. 1: Mat., mekh. 15 no.2:6-9 Mr-Ap '60.
(MIRA 13:8)

1. Kafedra teorii funktsiy Moskovskogo universiteta.
(Sequences(Mathematics)) (Polynomials)

K...z'...(m) , ...A.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress   (Cont.)Moscow,
Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.
There is 1 USSR reference.   82-83

Zukhovitskiy, S. I. (Kiyev).   On a Minimum Problem of the
Problem of Moments.   83-84

There is 1 German reference.

Kaz'min, Yu. A. (Zernovoy).   On Complete Systems in
Hilbert Spaces.   84-85

There are 2 references, 1 of which is USSR, and the
other German.

Kozmanova, A. A. (Sverdlovsk).   The Theorem of Polya for
Entire Functions of Two Complex Variables   85

Kufarev, P. P. (Tomsk).   On the Method of Parametric
Representation and G. M. Goluzin Variational Method.   85-86

Card 26/80

KAZ'MIN, Yu.A.

Integrity of a system of functions of the form $\{\gamma(z + \alpha_n)\}$ and $\{\gamma^{(n)}(z)\}$
Usp.mat.nauk 12 no.2(74):151-154 Mr-Ap '57. (MIRA 10:7)
(Functions, Analytic)   (Functions, Entire)

KAZ'MIN, Yu.A.

Spectrum of systems of the form $\{z^n + \lambda f_n(z)\}$. Usp.mat. nauk 12 no.3:155-158 My-Je '57. (MIRA 10:10)

(Functions, Analytic)   (Matrices)

AUTHOR: KAZ'MIN Yu.A. (Zernovoy)   39-4-8/9

TITLE: On the Bases and Complete Systems of Functions in the Hilbert
Space (O bazisakh i polnykh sistemakh funktsiy v gil'bertovom
prostranstve)

PERIODICAL: Mat.Sbornik,   1957, Vol.42, Nr.4, pp.513-522 (USSR)

ABSTRACT: The author investigates the question how far a system of
functions may be different from a given complete system of the
Hilbert space in order that itself still remains complete.
The author starts with the assertion that by the influence of
a linear bounded operator the inverse operator of which is
determined uniquely, a complete system (a base) is again trans-
ferred to such one. With the aid of a lemma herefrom there
follows the Theorem: Let the functions of $\{f_n\}$ be linearly in-
dependent and $\{g_n\}$ be a base in L_2. If the double series:

$$\sum_{i=1}^{\infty} \sum_{k=1}^{\infty} (R_i, R_k)(h_i, h_k), \qquad R_n = f_n - g_n , \qquad (g_n, h_k) = \delta_{nk}$$

converges, then $\{f_n\}$ is a base. The coefficient spaces are the
same for developments with respect to $\{g_n\}$ and $\{f_i\}$.

Card 1/2

$\{g_n\}$ is called strongly minimal if there exists a number $\delta > 0$
such that the distance between an arbitrary g_i and the closed
linear closure of the remaining functions of $\{g_n\}$, $n \neq i$, for all
$i=1,2,...$ is greater than δ or equal to δ.
Theorem: Let $\{g_n\}$ be complete, bounded, strongly minimal and let
$H = \sup_n \|h_n\|$, $(g_n, h_k) = \delta_{nk}$. Let the system $\{f_n\}$ be such that

$$\sum_{i=1}^{\infty} \sum_{k=1}^{\infty} |(R_i, R_k)| \frac{1}{H^2} , \quad R_n = f_n - g_n.$$ Then $\{f_n\}$ is complete in L_2.

Let $\{\varphi_n\}$ be a complete orthogonal, normalized system. Let A_φ be
a set in L_2 such that for $f \in A_\varphi$, $f = \sum_{k=1}^{\infty} c_k \varphi_k$, the series $\sum_{k=1}^{\infty} |c_k|$
converges.
Theorem: If $\sup_n |(R_n, \varphi_k)| = \alpha_k$, $R_n = f_n - \varphi_n$ and here $\sum_{k=1}^{\infty} \alpha_k < 1$,
then $\{f_n\}$ is a base in A_φ.
Theorem: Let $\{\varphi_n\}$ be a complete, orthonormalized system. For $\{f_n\}$
let $\sup_n |(R_n, \varphi_k)| = \alpha_k$, $R_n = f_n - g_n$. In order that $\{f_n\}$ forms a base
in A_φ it is necessary and sufficient that the functions f_n are
linearly independent in the L_2 if l_1 is used as the coefficent space.

Card 2/2

SUBMITTED: May 9,1956   3 Soviet and 6 foreign references are quoted.

AVAILABLE: Library of Congress

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AUTHOR: Kaz'min, Yu. A.   SOV/155-58-3-12/37

TITLE: Some Remarks on the Completeness of the Consecutive Derivatives
             of an Analytic Function (Neskol'ko zamechaniy o polnote
             posledovatel'nykh proizvodnykh analiticheskoy funktsii)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki,
             1958, Nr 3, pp 64-70 (USSR)

ABSTRACT: Let A_r be the space of functions analytic in $|z| < r$, $r < R$. Let
             $\overline{A}_{\frac{1}{r}}$ be the space of sequences $\{x_n\}$ for which $\overline{\lim\limits_{n \to \infty}} \sqrt[n]{|x_n|} < r$. The
             system $\{f_n(z)\}$ is called ω-linearly independent on the closed
             set G and in the coefficient space α, in symbols $\{f_n(z)\}$ ω-
             linearly independent in (G, α) if from

             $$\sum_{n=0}^{\infty} C_n f_n(z) = 0 , \qquad C_i \in \alpha$$

             where $\sum\limits_{n=0}^{\infty} C_n f_n(z)$ converges uniformly on G, there follows

             $$C_i = 0 , \qquad i = 0,1,2,\ldots\ldots$$

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Theorem: Let $f(z)$ be analytic in $|r| < R$. In order that

(1) $\left\{ \frac{1}{n!} f^{(n)}(z) \right\}$

is complete in the A_r it is necessary and sufficient that (1)
is ω-linearly independent in $(|z| \leqslant R-r, \overline{A}_{\frac{1}{r}})$.

Theorem: The systems $\left\{ f^{(n)}(z) \right\}$ and $\left\{ f^{(n)}(z + \lambda_n) \right\}$, where $|\lambda_n| \leqslant R-r$,

$\lambda_n \to \lambda$ and $\sum\limits_{0}^{\infty} |\lambda_n - \lambda_{n+1}| < \infty$, at the same time are complete or not
in the A_r.

Three examples are given. The author mentions V.L. Goncharov and
M.G. Khaplanov.

There are 4 references, 2 of which are Soviet, 1 Polish, and
1 French.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova
             (Moscow State University imeni M.V. Lomonosov)

SUBMITTED: April 25, 1958
Card 2/2

KAZMIN, Yu.A.

Remarks on the completeness in E_1 and L_2. Usp. mat. nauk 13 no.3: 197-203 My-Je '58.   (MIRA 11:6)

(Functions, Analytic)

KAZ'MIN, Yu. A., Cand of Phys-Math Sci — (diss) "On Complete Systems and Foundations

in Certain Functional Spaces," Moscow, 1959, 6 pp (Moscow State Univ im Lomonosov)

(KL, 5-60, 123)

Kaz'min, Yu. A.

16(1)

PHASE I BOOK EXPLOITATION   SOV/2660

Vsesoyuznyy matematicheskiy s'yezd. 3rd, Moscow, 1956

Trudy. t. 4: Kratkoye soderzhaniye sektsionnykh dokladov. Doklady inostrannykh uchenykh (Transactions of the 3rd All-Union Mathematical Conference in Moscow. vol. 4: Summary of Sectional Reports. Reports of Foreign Scientists) Moscow, Izd-vo AN SSSR, 1959. 247 p. 2,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Matematicheskiy institut.

Tech. Ed.: G.M. Shavchenko; Editorial Board: A.A. Abramov, V.G. Boltyanskiy, A.M. Vasil'yev, B.V. Medvedev, A.D. Myshkis, S.M. Nikol'skiy (Resp. Ed.), A.G. Postnikov, Yu. V. Prokhorov, M.A. Rybnikov, F. L. Ul'yanov, V.A. Uspenskiy, O. Ye. Chetayev, G. Ye. Shilov, and A.I. Shirshov.

PURPOSE: This book is intended for mathematicians and physicists.

COVERAGE: The book is Volume IV of the Transactions of the Third All-Union Mathematical Conference, held in June and July 1956. The book is divided into two main parts. The first part contains summaries of the papers presented by Soviet scientists at the Conference that were not included in the first two volumes. The second part contains the text of reports submitted to the editor by non-Soviet scientists. In those cases when the non-Soviet scientist did not submit a copy of his paper to the editor, the title of the paper is cited and, if the paper was printed in a previous volume, reference is made to the appropriate volume. The papers, both Soviet and non-Soviet, cover various topics in number theory, algebra, differential and integral equations, function theory, functional analysis, probability theory, topology, mathematical problems of mechanics and physics, computational mathematics, mathematical logic and the foundations of mathematics, and the history of mathematics.

Kodes, M.I. (Rakoprvia). Topological equivalence of certain Banach spaces   54

Mil'man, D. A. (Moscow). On the character of the spectrum of certain classes of matrices in analytic space   55

Korablium, B.I. (Kiyev). A generalization of the Wiener Tauberian theorem and the spectrum of rapidly increasing functions   56

Mil'man, D.P. (Odessa). Certain theorems of nonlinear functional analysis and their application to the theory of local groups   58

Sobolev, V.I. (Voronezh). On semiordered rings   59

Page, M.K. (Chernovtsy). Local equivalence of ordinary linear differential operators of equal rank (see Uspekhi matematicheskikh nauk, XIII, Nr 1(79) (1958), pp 207-210)   60

Section on Probability Theory

Card 12/34

16.4600

AUTHOR: Kaz'min, Yu.A.

TITLE: On Bases of the Form $\{z^n + f_n(z)\}$.

TEXT: The paper consists of four parts. In the first part the author proves two theorems containing sufficient conditions that the systems of functions $\{z^n + f_n(z)\}$ in the space of functions A_R form a quasipower with coefficients of A_r; here A_R is the space of functions analytic in the circle $|z| < R$, and A_r are the numbers $\{a_n\}$ satisfying the conditions $\overline{\lim} \sqrt[n]{|a_n|} < \frac{1}{r}$, $r \leq R$. In the second part the author uses the proved theorems for constructing the bases with the form $\{z^n + f_n(z)\}$, e.g.:

$$\{z^n + f^{(n)}(z)\}, \quad \{z^n + \frac{1}{n!} \int_0^r f(\zeta)(z-\zeta)^n d\zeta\}, \quad \{z^n + f(\zeta_n z)\}, \quad \{z^n + \frac{a_0}{1-a_n z}\},$$

Card 1/3

On Bases of the Form $\left\{z^n + f_n(z)\right\}$

$\left\{z^{n-1} + \dfrac{z^{-n}}{(n-1)!} \displaystyle\int_0^r f(\varsigma)(z-\varsigma)^{n-1} d\varsigma\right\}$ etc. In the third part, the results

obtained for the circle are transferred to a ring. The author proves general theorems and gives examples of concrete systems forming a base. In the fourth part the author considers the system of functions $\left\{z^n + \lambda f_n(z)\right\}$, where

(1) $f_n(z) = \displaystyle\sum_{k=0}^{\infty} a_{kn} z^k \in A_R,$ $R > 1,$

and $\left\{f_n(z)\right\}$ has a general majorant $H(z) = q_0 + q_1 z + \ldots$ $(\overline{\lim} \sqrt[n]{|q_n|} \le 1)$ in A_R so that $|a_{kn}| \le q_k$ for all k and n. The set of values λ for which the system of functions (1) forms no base in A_r $(1 < r \le R)$ is called the spectrum of the system (1). The author shows that 1) for $|\lambda| = \displaystyle\sum_{k=0}^{\infty} q^k$ the system (1)

forms a quasipower base with coefficients of A_r in the circle $|z| < r$, $1 < r \le R$;   2) the spectrum of the system consists of an at most countable

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On Bases of the Form $\left\{z^n + f_n(z)\right\}$

set of values having no finite accumulation point. 3) necessary and
sufficient conditions are given that the set $\{\lambda\}$ consists of finitely
many points.

[Abstracter's note: The above text is a full translation of the
original Soviet abstract.]

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AUTHOR: Kaz'min, Yu.A.

TITLE: On the Subsequences of Hermite's and Laguerre's Polynomials

PERIODICAL: Vestnik Moskovskogo universiteta. Seriya I, matematika,
             mekhanika, 1960, No. 2, pp. 6-9

TEXT: Let A_R, $0 < R < \infty$ be the space of functions analytic in $|z| < R$.

Theorem 1: If $\lim\limits_{n\to\infty} \frac{n}{\lambda_n} = \sigma > \frac{1}{2}$, then the sequence of Hermite's polynomials

$\left\{H_{\lambda_n}(z)\right\}$, $n = 0,1,2,\ldots$ is complete in every A_R, $0 < R < \infty$.

Theorem 2: If $\lim\limits_{n\to\infty} \frac{n}{\lambda_n} = \sigma > 0$, then the subsequence of Laguerre's polynomials

$\left\{L_{\lambda_n}^{(\alpha)}(t)\right\}$, $n = 0,1,2,\ldots$ is complete in every A_R, $0 < R < \infty$.

The author mentions A.F. Leont'yev. There are 5 references: 4 Soviet and
1 German.

ASSOCIATION: Kafedra teorii funktsiy (Department of Theory of Functions)

SUBMITTED: June 10, 1959

Card 1/1