L 34789-66   EWT(1)

ACC NR: AR6017201   SOURCE CODE: UR/0058/65/000/012/A033/A033

AUTHOR: Kulabukhov, Yu. S.; Timokhin, L. A.; Trubnikov, V. R.

TITLE: Multichannel time selector with a range of seconds

SOURCE: Ref. zh. Fizika, Abs. 12A318

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 2. M., Atomizdat, 1965, 160-164

TOPIC TAGS: multichannel analyzer, time interval counter, ferrite core memory, data readout

ABSTRACT: The article describes a 120-channel time selector for the intervals of the order of seconds, employing one accumulating counter with a dead time 0.5×10^{-6} sec and a ferrite-core memory which is common to all channels. The channel width is set by means of a quartz oscillator and can be set at 10^{-2}, 10^{-1}, 1, 10, and 10^2 sec. The uncertainty in the channel position relative to the starting pulse is 10^{-3} sec. Provision is made for automatically switching the channel width in accordance with a pre-established program in groups of ten channels each. The readout of the accumulated data is with an oscilloscope and a number printer. The block diagram of the selector is presented and the operation of its individual units described. The practice of one year's operation of the selector has shown that its measuring characteristics are stable and all the units operate reliably. To illustrate the operation of the instrument, a plot of the intensity of delayed neutrons against time, obtained with the selector for the fission of U^{235} by 6-Mev neutrons, is presented. L. S. [Translation of abstract]

Card 1/1   SUB CODE: 09, 20

SOV/179-59-2-8/40

AUTHORS: Kulabukhova, I. I. and Polubarinova-Kochina, P. Ya. (Tashkent, Moscow)

TITLE: Unsteady Percolation on Incomplete Saturation of a Soil (O neustanovivsheysya fil'tratsii pri nepolnoy nasyshchennosti grunta)

ABSTRACT: The problem considered in the paper is of interest in connection with the drainage of water from canals, with the percolation of rainfall, with capillary rise and with the movement of water in agricultural soils. By inserting the analytical expression for Darcy's law in the equation of continuity, a non-linear differential equation is obtained. This equation is simplified by expressing the degree of saturation as a power series and limiting the series to two terms. The solution of the resulting linear differential equation contains exponential and error functions, and curves are given (Fig 1) showing the distribution of moisture as a function of

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Unsteady Percolation on Incomplete Saturation of a Soil

depth and time. By integrating the solution, an equation
for total discharge is obtained, and simple approximate ex-
pressions corresponding to long and short times are derived
which show that the discharge decreases with time and finally
attains a constant value. The case of capillary rise is also
considered, and the results of the present investigation are
compared with those of other workers. There are 3 figures
and 12 references, 6 of which are Soviet and 6 English.

SUBMITTED: November 20, 1958.

Card 2/2

AUTHOR: Kulabukhova, I. I. (Tashkent)   SOV/179-59-3-37/45

TITLE: Two Cases of Unstable Filtration with Partial Saturation
            of the Soil (Dve zadachi neustanovivsheysya fil'tratsii
            pri nepolnoy nasyshchennosti gruntov)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh
            nauk, Mekhanika i mashinostroyeniye, 1959, Nr 3,
            pp 196-201 (USSR)

ABSTRACT: The first case is related to water irrigation where a
            drain of small diameter a with apertures in its wall
            is placed in the soil. The saturation of the soil is
            expressed by Eq (1.1). This can be solved when the
            function u_1 is defined as Eq (1.2), where
            k_1 - coefficient of filtration for full saturation,
            σ - soil porosity,
            w_o - interstitial water,
            w'' - initial saturation,
            p - pressure,
            γ - specific weight.
            If the limiting conditions (1.3), (1.4) and (1.5) are
Card 1/3 applied, the formula (1.6) (Ref 2) can be used in order

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Two Cases of Unstable Filtration with Partial Saturation of the Soil

to obtain the equation of heat conductivity, Eq (1.7) for the conditions (1.8) and (1.9). Consequently, the expression (1.20) for w_n is derived from the transformations (1.10) to (1.19). The value of χ_n in Eq (1.20) defines the analytical function in the complex plane and can be found from the asymptotic function (1.21) which for the closed contour L (Fig 1) is equal to zero. Thus, Eq (1.22) can be derived. The contour Γ (Fig 2) can be defined for $s = \Lambda$. Then, the expression for w_n takes the forms of Eqs (1.24) and (1.25), where J_n, Y_n - Bessel functions. Fig 3 illustrates the lines of equal saturation $r = r(\Theta)$ for u_1 = const and 0.5 a$\ell/\varkappa = 0.15$ cm. Fig 4 represents similar lines of equal pressure of the water-head h = const (h = $p/\gamma-z$). The output of water q can be defined from the formulae (1.26) to (1.28), where v_r - velocity of flow. The second case of irrigation consists of a sphere (of diameter a) placed in the soil where it collects water seaping up from the ground surface. The coordinates of this sphere are illustrated in Fig 5. The axial flow of water does not

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SOV/179-59-3-37/45

Two Cases of Unstable Filtration with Partial Saturation of the Soil

    depend on φ. The calculation can be performed as previously, i.e. the basic formula (2.1) can be shown in spherical coordinates as Eq (2.2). The value u_1 is determined from Eq (2.3) for the conditions (2.4). By inclusion of the function (2.5), the Eq (2.6) is obtained and from the transformations (2.7) to (2.18), the formula for w is defined at the end of the article. This formula describes the distribution of saturation as illustrated in Fig 6 (which is equivalent to Fig 3). There are 6 figures and 5 Soviet references.

SUBMITTED: November 26, 1958

Card 3/3

KULABUKHOVA, I. I., Cand Phys-Math Sci -- (diss) "Some irregular movements of ground water during incomplete saturation of the ground." Tashkent, 1960. 14 pp; (Central Asiatic State Univ im V. I. Lenin); 200 copies; price not given; (KL, 18-60, 146)

KULABUKHOVA, I.I.

Integrals involved in the problem of unsteady flow around a
blanket.   Izv. vys. ucheb. zav.; mat. no.3:49-55 '61.
(MIRA 14:7)
1. Institut mekhaniki AN UzSSR.
(Integrals) (Laminar flow) (Hydrodynamics)

SHASKOL'SKAYA, M.P.; TSINZERLING, L.G.; KULABUKHOVA, R.;

Selective etchant and a polishing solution for potassium bromide crystals. Kristallografiia 10 no.1:121-125 Ja-F '65.

(MIRA 18:3)

1. Moskovskiy institut stali i splavov.

KULACHENKO, V.G., Cand Agr Sci -- (diss) "Seeding and harvesting qualities of cotton plant seeds, mechanically selected collected" Tashkent 1958, 21 pp (Uzbek Acad of Agr, Tashkent Agr Inst) 150 copies (KL, 32-58, 110)

- 48 -

KULACHENKO, Valentin Grigor'yevich; GOL'DBERG, Grigoriy Aleksandrovich

[Growing high-quality cotton seeds] IUkori sifatli uruglik
chigit etishtirish. Toshkont, Uzdavnashr, 1964.   49 p.
[In Uzbek]   (MIRA 17:11)

KULACHENKO, V.

COUNTRY   : USSR   M
CATEGORY   : Cultivated Plants. Commercial. Oleiferous.
               Sugar-Bearing.
ABS. JOUR.   : RZhBiol., No. 4, 1959, No.15725

AUTHOR   : Kulachenko, V.
INST.   : All-Union Cotton Sci.Res.Inst.
TITLE   : Sowing and Crop-yield Qualities of Seed of
               Machine-picked Cotton.

ORIG. PUB.   : Khlopkovodstvo, 1958, No.1, 19-22

ABSTRACT   : The central selection station of the All-Union
               Cotton Scientific Research Institute   studied
               the quality and crop-yield of the seeds of
               machine-picked cotton as compared to seeds of
               hand-picked cotton. It was determined that these
               seeds are equivalent to seeds of hand picking in
               quality and crop yield. The best quality of seeds
               was obtained when the picking of seed cotton was
               begun with 60 % opened bolls present. In the
               working conditions of machine picking, it is

CARD: 1/2

                              111

ABELEV, Yu.M.; BRAYT, P.I.; KRUTOV, V.I.; KULACHENOK, B.G.; SOROCHAN,
Ie.A.; EYDUK, R.P.

Testing a series 1-480-P large-panel apartment house erected on
settling soil. Osn., fund.i mekh.grun. 4 no.2:3-5 '62.
(MIRA 15:8)

(Zaporozh'ye—Apartment houses—Testing)

GRIGORYAN, A.A.; KULACHENOK, B.G.

In situ studies of the deformations of sagging ground under
testing plates. Osn. fund. i mekh. grun. 7 no.3:7-8 '65.

(MIRA 18:6)

GRIGORYAN, A.A.; KULACHENOK, B.G.

Average curve of the relation of soil sagging to pressure. Osn., fund. i mekh. grun. 7 no.4:25-26 '65.

(MIRA 18:8)

KULACHKOV, V.I., inzh.

Modernization of the Sh-A steam boiler. Energetik 9 no.5:7-9
My '61.
(Boilers)
(MIRA 14:5)

SHEREGAYEV, Nikolay Pavlovich; KOMANOVSKIY, M.L., inzh., retsenzent;
KULACHKOV, V.I., inzh., retsenzent; GERB, M.A., inzh., red.;
MITARCHUK, G.A., red. izd-va; SPERANSKAYA, O.V., tekhn. red.

[Concise handbook on descriptive geometry and mechanical drawing]
Kratkii spravochnik po nachertatel'noi geometrii i mashino-
stroitel'nomu chercheniiu. Moskva, Mashgiz, 1962. 214 p.
(MIRA 15:3)

(Mechanical drawing)
(Geometry, Descriptive)

KULACHKOV, V.I.

Closing valve without gland. Mashinostroitel' no.1:26 Ja '62.

(Valves)   (MIRA 15:1)

KULACHKOV, V.I., inzh. (Saratov)

Electromagnetic treatment of the feed water for steam boilers.
Vod.i san.tekh. no.4:35 Ap '62.   (MIRA 15:8)
    (Feed-water purification)   (Electromagnetic waves)

KULACHKOV, V.I.

Saving heat in metal-coating shops. Mashinostroitel'
no.9:45 S '62.
(Factory management)   (MIRA 15:9)

GERB, M.A.; KULACHKOV, V.I., inzh., retsenzent; MEN'SHIKOV, N.S.,
    dots., red.; YURKEVICH, M.P., inzh., red. izd-va;
    SHCHETININA, L.V., tekhn. red.

[Compilation and reading of machinery drawings] Sostavlenie
i chtenie mashinostroitel'nykh chertezhei. Moskva, Mashgiz,
1963. 216 p.   (MIRA 16:4)
            / (Machinery—Drawing)

FEDORENKO, V.A.; SHOSHIN, A.I.; KULACHKOV, V.I., inzh., red.;
YURKEVICH, M.P., inzh., red.izd-va; SHCHETININA, L.V.,
tekhn. red.

[Manual for machine drawing] Spravochnik po mashino-
stroitel'nomu chercheniiu. 7. izd., ispr. i dop. Moskva,
Mashgiz, 1963. 280 p.   (MIRA 16:8)
                ·(Machinery--Drawing)

POLYAKOV, G.K., kand. tekhn. nauk; KULACHKOV, V.I., inzh.

Permissible working pressure in the drums of plant boilers.
Teploenergetika 10 no.9:39-40 S '63.   (MIRA 16:10)

1. Saratovskiy politekhnicheskiy institut.
        (Boilers)

KULACHKOV, V.I., inzh.

Use of threadless joints between pipes, equipment, and fittings.
Energetik 11 no.2:13-14 F '63.   (MIRA 16:3)
                    (Pipe fitting) (Plumbing)

KULACHKOV, V.I., inzh.

Electromagnetic treatment of boiler feedwater. Prom. energ.
18 no.11:32   N '63.
(MIRA 16:12)

KULACHKOV, V.I., inzh.

Connecting of tapered belts. Energetik 12 no.1:20   Ja '64.

(MIRA 17:3)

POLYAKOV, G.M., kand. tekh. nauk; KULACHKOV, V.L., inzh.

Temperature conditions of the heating surfaces of the TP-170 boiler operating on natural gas with increased loads. Sbor. nauch. soob. SPI no.17:65-76 '62.   (MIRA 17:6)

KULACHKOV, V.I.

Do we need explosion safety valves for DKV and DKVR boilers.
Gaz. prom. 8 no.12:28-29 '63   (MIRA 18:2)

KULACHKOV, V.I.

Device for the mounting of fan impellers. Bezop. truda v prom. 8 no.10:
51 0 '64.

(MIRA 17:11)

KULACHKOV, V.I., inzh.

Diaphragm closing valve. Energetik 12 no.11:23 N '6.

(MIRA 18:2)

KULACHKOV, V.I.

Pocket for removing and mounting the impeller of a fan.
Mashinostroitel' no.1:24 Ja '65.

(MIRA 18:3)

VYSOTSKAYA, S.O.; KULACHKOVA, V.G.; PAVLOVSKIY, Ye.N., akademik.

Gamasoid ticks as intermediate hosts of roundworms. Dokl. AN SSSR 91 no.2:
441-443 Jl '53.   (MLRA 6:6)
                                   (Parasites--Ticks) (Roundworm)
1. Akademiya nauk SSSR (for Pavlovskiy)

KULACHKOVA, V.G.

Tetracladium sternae nov.gen.nov.sp., a new parasite of the common
tern. Uch.zap.Len.un. no.172:132-134 '54.   (MLRA 10:3)

1. Kafedra zoologii bespozvonovhnykh Leningradskogo ordena Lenina
gosudarstvennogo universiteta.
          (Trematodes) (Parasites--Terns)

USSR/Zooparasitology - Helminths.   G.

Abs Jour   : Ref Zhur - Biol., No 15, 1958, 67505

Author   : Kulachkova, V.G.

Inst   : Leningrad Society of Naturalists.

Title   : A New Species of Kidney Trematode Renicola mollissima
              nov. sp. in the Common Eider.

Orig Pub   : Tr. Leningr. o-va yestestvoispyt., 1957, 73, No 4, 198-203

Abstract   : Full-grown eiders of the Kandalaksha Forest Reservation
              are 14.7% infected with R. mollissima; the trematode ap-
           pears in the 2-week old ducklings. The eiders pick up the
           parasite at the nesting spot. The variability of the mor-
           phological characteristics of the R. mollissima has been
           investigated. The characteristics of the structure of the
           yolk organs are the most constant, and consequently the
           most convenient, characteristics for constructing the genus
                                        Renicola system.
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KULACHKOVA, V.G.

Annual and seasonal fluctuations in the infection rate of
Hydrobia ulvae (Pennant, 1777) by the larvae of Paramonostomum
alveatum (Mehlis, 1846) Lühe, 1909 (Trematoda). Trudy Kar.
fil. AN SSSR no.30:79-89 '61.   (MIRA 15:9)
        (Kandalaksha Bay—Parasites—Mollusks)
            (Kandalaksha Bay—Trematoda)

KULACHKOVA, V.G.

Biology of the larval stages of Paramonostcmum alveatum
(Mehlis, 1846) Lühe, 1909 (Trematoda), a dangerous parasite
of eiders. Trudy Kar. fil. AN SSSR no.30:90-91 '61.
                                              (MIRA 15:9)
             (Kandalaksha Bay—Trematoda)
          (Kandalaksha Bay—Parasites—Ducks)

KULACHKOVA, Ye. I.

see also: KMITO, Ye. I.

KULACHKCVSKIY, Yu. V. Cand Med Sci -- (diss) "Lung tuberculosis in pregnant women and new mothers". (Clinic, course, and treatment). L'vov,1956. 21 pp 20 cm. (L'vov State Med Inst), 100 copies (KL, 10-57, 104)

GONCHARENKO, O.T.; KULACHKOVSKIY, Yu.V.

Course of postpartum pulmonary tuberculosis. Probl.tub. 34 no.6
supplem t:19 N-D '56.   (MIRA 10:2)

1. Iz L'vovskogo nauchno-issledovatel'skogo instituta okhrany materin-
stva i detstva (dir. I.D.Yashchuk) i kafedry tuberkuleza (zav. -
prof. I.T.Stukalo) L'vovskogo meditsinskogo instituta (dir. - prof.
L.N.Kuzmenko)
        (TUBERCULOSIS, PULMONARY,
            postpartum (Rus))
        (PUERPERIUM, complications,
            tuberc., pulm. (Rus))

KUIACHKOVSKIY, Yu. V.

Antibacterial preparations and collapse therapy in the treatment of pulmonary tuberculosis in pregnancy and puerperium. Probl. tub. 35 no.6:33-37 '57.

(MIRA 12:1)

1. Iz kafedry tuberkuleza (zav. prof. I.T. Stukalo) L'vovskogo meditsinskogo inst tuta (dir. - prof. L.N. Kuzmenko) i L'vovskogo instituta okhrany materinstva i mladenchestva (dir. I.D. Yashchuk).
(PNEUMOTHORAX, ARTIFICIAL
adjuvant, bacteriostatics, in pregn. & pueperium (Rus))
(PREGNANCY, in various dis.
tuberc., pulm. ther., artificial pneumothorax & bacteriostatics (Rus))

KULACHKOVSKIY, Yu.V., kand.med.nauk

Course of pulmonary tuverculosis following interruption of
pregnancy (with summary in French). Probl.tub. 36 no.3:33-36
'58   (MIRA 11:5)

1. Iz kafedry tuberkuleza (zav. - prof. I.T. Stukalo) L'vovskogo
meditsinskogo instituta (dir. - prof. L.N. Kuzmenko) i L'vovskogO
instituta okhrany materinstva i detstva (dir. I.D. Yashchuk).
            (ABORTION, THERAPEUTIC
                in pulm. tuberc., eff. on course of dis. (Rus))
            (TUBERCULOSIS, PULMONARY, in pregn.
                eff. of abortion on course of dis. (Rus))

STUKALO, I.T., prof.; KULACHKOVSKIY, Yu.V., kand.med.nauk;
SHAKHINIDI, F.Ya.

State of the blood circulation system in patients with tubercu-
losis of the lungs; from data of instrumental studies. Probl.
tub. 38 no.7:70-77 '60.
                                              (MIRA 14:1)
     (TUBERCULOSIS) (BALLISTOCARDIOGRAPHY) (ELECTROCARDIOGRAPHY)

STUKALO, I.T., prof.; KULACHKOVSKIY, Yu.V.; SHAKHINIDI, G.Ye.

Pulmonary heart syndrome in tuberculosis. Probl.tub. 38
no.8:36-45 '60.   (MIRA 14:1)

1. Iz kliniki tuberkuleza (zav. - prof. I.T. Stukalo) L'vov-
skogo meditsinskogo instituta (dir. - prof. L.N. Kuzmenko).
     (TUBERCULOSIS)   (PULMONARY HEART DISEASE)

STUKALO, I.T., prof.; KULACHKOVSKIY, Yu.V., kand.med.nauk;
SHAKHINIDI, G.Ye.

Norms for the basic elements of electro- and ballistocardiography
of healthy young people residing in the western regions of the
Ukrainian S.S.R. Nauch.trudy L'vov.obl.terap.ob-va no.1:55-61 '61
(MIRA 16:5)

1. L'vovskaya oblastnaya klinicheskaya bol'nitsa (glavnyy vrach -
N.I. Besedin).
         (ELECTROCARDIOGRAPHY) (BALLISTOCARDIOGRAPHY)
             (UKRAINE—CARDIOLOGY—RESEARCH)

STUKALO, I.T., prof.; KULACHKOVSKIY, Yu.V., kand.med.nauk; SHAKHINIDI, G.Ye.

Results of a study of arterial pressure and systolic and minute blood volume in a group of medical students. Vrach. delo 4:125-126 Ap '62.
(MIRA 15:5)

1. L'vovskiy meditsinskiy institut.
(BLOOD PRESSURE)   (BLOOD VOLUME)

KULACHKOVSKIY, Yu.V., kand. med. nauk; MAR'YENKO, B.S. (L'vov)

Determination of 17-ketogenic steroids in the urine. Probl. endok.
i gorm. 10 no.1:111-116 Ja-F '64.

(MIRA 17:10)

1. Kafedra biokhimii (zav. - prof. B.M. Sobchuk), tuberkuleza
(zav. - prof. I.T. Stukalo) i psikhiatrii (zav. prof. Yu.V. Pavlov)
L'vovskogo meditsinskogo instituta.

BUTKIN, V.D., inzh.; KULACHOK, M.I.

Research on boring with a roller bit, carried out on the BSSH-1X rig-testing machine. Gor.zhur. no.5:37-41 My '61.   (MIRA 14:6)

1. Chelyabinskiy nauchno-issledovatel'skiy institut gornogo dela.
(Rock drills—Testing)

KULACHOK, M.I., inzh.

Investigating roller bit boring at strip mines of the Sokolovka-Sarbay Combine. Gor.zhur. no.10:32-36 O '64.

(MIRA 18:1)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut po dobyche poleznykh iskopayemykh otkrytym sposobom, Chelyabinsk.

S/081/62/000/022/014/088
B177/B186

AUTHOR: Kulacsy, Lóránt

TITLE: An ultracentrifuge for analytical and preparative purposes

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 147, abstract
               22E64 (Gyógyszerészet, v. 6, no. 5, 1962, 190 [Hung.])

TEXT: A brief report on a laboratory ultracentrifuge, designed to operate
at temperatures from -5 to +70°C. Maximum acceleration 182,000 g.
[Abstracter's note: Complete translation.]

Card 1/1

KULAGA, J.

"We Built Alone." p. 7, (BUDOWNICTWO WIEJSKIE, Vol. 5, no. 1, Jan./Feb. 1953, Warszawa, Poland)

SO: Monthly Lists of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

BAGASHVILI, Shota Aronovich; KULAGA, Lev Nikiforovich; FLORINSKIY, I.I.,
red. izd-va; BRUSINA, L.N., tekhn. red.

Rustavi. Red. kollegiia: P.V. Abrosimov i dr. Moskva, Gos. izd-vo
lit-ry po stroit., arkhit. i stroit. materialam, 1958. 27 p.
(MIRA 11:7)

1. Soyuz arkhitektorov SSSR.
(Rustavi—Description)

ZHUKOVSKAYA, Zoya Iosifovna; MINKOV, Vladimir Afroimovich; PEKELIS,
    Grigoriy Borisovich; FUT'KO, Ivan Ivanovich; Prinimali ucha-
    stiye: GALENCHIK, E.M.; KULAGA, T.N.; BEL'ZATSKAYA, L., red.
    izd-va; TURTSEVICH, L., tekhn. red.

[Use of natural gas in power engineering]Ispol'zovanie prirod-
nogo gaza v energetike. Minsk, Izd-vo Akad. nauk BSSR, 1962.
191 p.   (MIRA 16:2)

1. Otdel obshchey energetiki Energeticheskogo instituta
Akademii nauk Belorusskoy SSR (for all except Bel'zatskaya,
Turtsevich).
                (Power engineering) (Gas distribution)

KULAGA, Vera L'vovna; FEDOROVA, T.N., red.izd-va; GOL'BERG, T.M.,
tekhn. red.

     [Clubs in large-scale construction]Kluby massovogo stroitel'-
stva. Moskva, Gosstroiizdat, 1962. 163 p.   (MIRA 15:11)
                (Clubhouses)

KULAGA, V.L., arkhitektor

Types of public buildings for complex development of microdistricts.
Izv.ASiA no.3:25-36 '62.   (MIRA 15:11)
          (City planning)   (Public buildings)

VAVIROVSKIY, N.M.; KULAGA, V.L.; YANITSKIY, O.N., red.

[Comprehensive series of public buildings for micro-
districts, residential areas, cities, and settlements]
Kompleksnaia seriia obshchestvennykh zdanii dlia mikro-
raionov, zhilykh raionov, gorodov i poselkov. Moskva,
1964. 158 p.   (MIRA 17:6)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektnyy
institut tipovogo i eksperimental'nogo proyektirovaniya
uchebnykh zdaniy.

KULAGASHEV, A.I.; YERMAKOV, N.S.

    Complex ore deposits in an effusive formation. Trudy VITR
    no.4:285-287: '61.   (MIRA 14:9)
                          (Ore deposits)

KULAGA, V.V. (Novokuznetsk)

Cutaneous forms of periarteritis nodosa; a review of literature.
Vest. derm i ven. 38 no.8:34-40 Ag '64.   (MIRA 18:8)

KULAGA, V.V. (Novokuznetsk)

Cutaneous form of periarteritis nodosa. Vest. derm. i ven.
38 no.5:45-49 My '64.   (MIRA 18:12)

1. Submitted May 16, 1963.

KULAGA, V.V.

Treatment of cutareous hemosiderosis with ethyl chloride.
Vest. derm. i ven. 38 no.10:82-83 0 '64.

(MIRA 18:7)

1. Kafedra kozhnykh i venericheskikh boleznei (zav. - dotsent
V.Ya. Nekachalov) Novokuznetskogo instituta usovershenstvo-
vaniya vrachey.

34578

S/044/62/000/001/050/061
C111/C222

AUTHOR: Kulagin, A. A.

TITLE: Approximate solution to the homogeneous equations of the moment theory of spherical shells

PERIODICAL: Referativnyy zhurnal, Matematika, no. 1, 1962, 32, abstract 1V152. ("Izv. vyssh. uchebn. zavedeniy, Str-vo i arkhitekt.", 1961, no. 3, 13-24)

TEXT: Because the practical application of the known rigorous solution to the system of equations of the moment theory of spherical shells calls for the tabulation of complicated functions, the author suggests an approximate solution to the problem. The question of error estimates is mentioned. An example is solved.

[Abstracter's note: Complete translation.]

Card 1/1

ACC NR: AR6030399   (N)   SOURCE CODE: UR/0124/66/000/006/V012/V012

AUTHOR: Kulagin, A. A.

TITLE: Calculations for a sloping spherical shell on a rectangular plan

SOURCE: Ref. zh. Mekhanika, Abs. 6V87

REF SOURCE: Tr. Tsentr. n.-i i proyektno-eksperim. in-ta prom. zdaniy i sooruzh., vyp. 3, 1965, 42-50

TOPIC TAGS: spheric shell, structure, partial differential equation, shell theory

TRANSLATION: A system of two differential equations for a sloping spherical shell (Vlasov, V. Z., *Obshchaya teoriya obolochek i yeye prilozheniya v tekhnike* (The General Theory of Shells and Its Applications in Technology), Moscow-Leningrad, Gostekhteoriz-dat, 1949) is reduced to an equation of the sixth order with respect to the stress function with a simple solution. A rectangular shell which is supported by hinges on the two opposite sides and with arbitrary boundary conditions on the other two sides is then considered. Given as a function of stresses in a direction perpendicular to the hinge-supported edges in the form of an expansion in sine functions, the author reduces the equation in partial derivatives of the sixth order to an ordinary differential equation of the same order, which is then integrated by the usual methods. A function of normal displacements is then defined. To determine the two other tangential

Card 1/2

ACC NR: AR6030399

displacements, a system of two equations is derived, in the right-hand sides of which are included the stress and bend functions defined earlier. The case of symmetric and antisymmetric uniformly distributed loads are considered. P. A. Lukash.

SUB CODE: 12,20 /3

Card 2/2

ZHUKOVSKIY, E.Z., inzh.; KULAGIN, A.A.

    Partly precast and partly cast-in-place reinforced concrete
shells with two-way curvature made of large slabs. Prom. stroi.
40 no.12:9-12 '62.   (MIRA 15:12)

    1. TSentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy
institut promyshlennykh zdaniy i sooruzheniy Akademii
stroitel'stva i arkhitektury SSSR.
                      (Roofs, Shell)

L 28446-66   EWT(m)/EWP(t)/ETI/EWP(k)   IJP(c)   JD/HW

ACC NR: AP6016580   (A)   SOURCE CODE: UR/0182/66/000/005/0026/0027

AUTHOR: Antonenkov, O. D.; Anuchin, M. A.; Kulagin, A. F.; Nosikov, S. M.

ORG: none

TITLE: Coefficient of reduction in explosive forming

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 5, 1966, 26—27

TOPIC TAGS: explosive forming, steel sheet, sheet forming, steel formability

ABSTRACT: Experiments have been conducted to determine the relationship between
reductions in explosive forming and the weight of the explosive charge. Steel
specimens 70—300 mm in diameter were tested in two explosive forming units of
different design (one with a soft and another with a rigid water container) with
explosive charges of varying weight suspended at a certain constant height above
the tested material. The results of experiments with St3 and 2K13 steels are shown
in Fig. 1, in which the horizontal axis represents reductions (the ratio of cup
diameter to blank diameter) and the vertical axis represents the specific charge
weights (g/$d_0^2\delta$, where g is the charge weight in g, d_0 is the die diameter in mm,
and δ is the sheet thickness in mm). Region I represents the conditions under which
the desired reduction cannot be obtained in a single operation; region II, the con-

Card   1/2   UDC: 621.98.044

L 28446-66

ACC NR: AP6016580
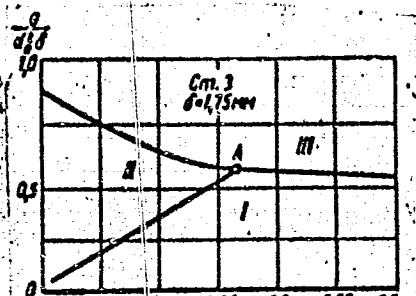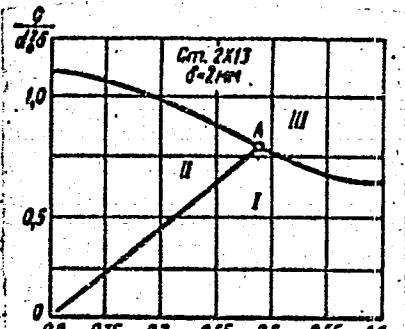
(a)   (b)

Fig. 1. Dependence of the reduction coefficient upon
the explosive charge weight.

a) St3 steel; b) 2Kh13 steel.

ditions under which full reductions are obtained without material failure; and
region III, the conditions under which the material fails. Point A represents
optimal conditions under which maximum reduction (0.63—0.67) can be obtained in a
single operation. Orig. art. has: 4 figures.   [ND]

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 002/ ATD PRESS: 5006

Card   2/2 LC

L 1537-66

ACCESSION NR: AT5023632   UR/0000/65/000/000/0513/0513

AUTHORS: Shafer, Yu. G.; Kuzhevskiy, B. M.; Kulagin, A. G.; Skryabin, N. G.

TITLE: Effects of solar and geophysical phenomena in primary radiation, instrumentally recorded by the "Kosmos-19" satellite

SOURCE: Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. Moscow, 1965. Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii. Moscow, Izd-vo Nauka, 1965, 513

TOPIC TAGS: cosmic ray, cosmic ray measurement, cosmic ray intensity, magnetic storm, satellite, satellite mission analysis

ABSTRACT: Results from the processing of cosmic radiation data recorded at 350 to 450 km by the Kosmos-19 satellite between 6 August and 31 December 1963 are presented. No 27-day variation was noted in the intensity of cosmic rays with magnetic rigidity above 3.5 Bv during this period of minimal solar activity. During the intensive magnetic storms of 17-27 November a sharp drop in the counting rate was registered (the same effect was observed at the Rezol'nut ground-based station in Yakutsk). On 12 August the counting rate was noted to increase above the mid-month data. This effect followed the appearance of

Card 1/2

L 1537-66
ACCESSION NR: AT5023432

the solar chromospheric flares by 10—13 hr. A line of equal intensity was
produced from the satellite. Its comparison with the lines presented by S. N.
Bernov and N. L. Grigorov (sb. "Iskusstvennyye sputniki Zemli," vyp. 1. Izd-vo
AN SSSR, 1958) shows that in the period 1957-1963 the intensity increased by only
3%. The smallness of this increase is related to the large threshold rigidity
of the particles registered.   [04]

ASSOCIATION: none

SUBMITTED: 02Sep65   ENCL: 00   SUB CODE: IA, SV

NO REF SOV: 002   OTHER: 001   ATD PRESS: 4098

Card 2/2

L 42126-66   EWT(1)/EEC(k)-2   WW/AT

ACC NR: AP6027437   SOURCE CODE: UR/0377/66/000/003/0003/0005

AUTHOR: Kulagin, A. I.; Malov, N. V.; Erzin, N. I.

ORG: Physicotechnical Institute, AN UzSSR (Fiziko-tekhnicheskiy institut AN UzSSR)

TITLE: Solar thermoelectric generator with a cylindrical receiver

SOURCE: Geliotekhnika, no. 3, 1966, 3-5

TOPIC TAGS: solar energy conversion, solar radiation, thermoelectric generator, thermoelectric converter

ABSTRACT: A solar thermoelectric energy converter with water cooling is described which uses two layers of materials with different heat-conductivity characteristics to obtain a uniform temperature distribution over the hot junctions. The Bi_2Te_3 + Bi_2Se_3 (n-type) and the Bi_2Te_3 + Sb_2Te_3(p-type) elements are arranged in 12 blocks of seven elements each, around a 50-mm-long, 15-mm-thick copper cylindrical receiver with a 60 mm diameter, from which they are insulated by a 0.3-mm-thick mica layer. Laboratory measurements made with the use of thermocouples showed that the temperature on the hot junctions varied only from 238C to 241C while those on the wall of the cavity varied from 250C to 350C. Orig. art. has: 3 figures.   [ZL]

SUB CODE: 03, 13/ SUBM DATE: 25Feb66/ ORIG REF: 007/ OTH REF: 001/ ATD PRESS: 5064

Card 1/1 LP

ARIFOV, U.A.; KULAGIN, A.I.

Thermionic method for converting solar energy into electric
energy into electric energy. (Brief review). Geliotekhnika.
no.6:5-11 '65.   (MIRA 19:1)

1. Fiziko-tekhnicheskiy institut AN UzSSR.

L 36352-66   EWT(1)/T   IJP(c)   AT

ACC NR: AP6017579   (A)   SOURCE CODE: UR/0377/65/C00/006/0005/0011

AUTHORS: Arifov, U. A. (Academician AN UzSSR); Kulagin, A. I. (Candidate of physico-mathematical sciences)

ORG: Physicotechnical Institute AN UzSSR (Fiziko-tekhnicheskiy institut AN UzSSR)

TITLE: Thermoelectric method of converting solar energy into electricity (short review)

SOURCE: Geliotekhnika, no. 6, 1965, 5-11

TOPIC TAGS: thermionic emission, thermoelectric convertor, solar energy conversion

ABSTRACT: The authors review recent work done in the thermionic emission method of converting heat energy into electricity, especially through the use of solar and nuclear energy, since the energy conversion can in this case be carried out in closed volumes and at very low loss, whereas heating with conventional fuel is accompanied by large outward radiation loss. The article deals with the operating principles of such converters, solar energy concentrators, the use of such concentrators on satellites in outer space, certain commercially constructed concentrators in solar concentrators in solar converters, and some published data on their weights and efficiencies. All references are to western sources. Orig. art. has: 3 figures, 2 formulas, and 1 table.

SUB CODE: 20/   SUBM DATE: 16Aug65/   ORIG REF: 005/   OTH REF: 026

Card 1/1

KULAGIN, A.I.; PETUSHKOV, Ye.Ye.

Formation of rollers from cottonseeds in planetary delinting.
Dokl. AN Uz. SSR no.11:17-21 '57.   (MIRA 11:5)

1. Fiziko-tekhnicheskiy institut AN UzSSR. Predstavleno akad. AN
UzSSR U.A. Arifovym.
                        (Cottonseed) (Linters)

KULAGIN, A. I.: Master Phys-Math Sci (diss) -- "A study of planetary movement as applied to the problem of removing lint from cotton seeds". Tashkent, 1959, published by the Acad Sci Uzbek SSR. 14 pp (Acad Sci Uzbek SSR, Phys-Tech Inst), 175 copies (KL, No 12, 1959, 125)

ARIPOV, U.A.; KULAGIN, A.L.; PARILIS, E.S.; KHARMATS, D.Ye.;
LEVKOVICH, B.A., prof., red.; BAKLITSKAYA, A.V., red.;
KARABAIEVA, Kh.U., tekhn. red.

[Delinting cottonseed]Ogolenie semian khlopchatnika. Tashkent,
Izd-vo Akad. nauk Uzbekskoi SSR, 1962. 330 p.   (MIRA 15:3)

1. Chlen-korrespondent Akademii nauk Uzbekskoy SSR (for
Levkovich).

        (Cottonseed)   (Cotton machinery)

5271-6 EWT(l)/EPA(s)-2/EF(c)/EEC(k)-2/EWG(m)/IPR/EPA(w)-2/T/EPA(b)-2/EWA(g)/
WA(h)   s-6/Pr-4/Ps-4/P-7/Peb LJP(c) JHB/TT/W/AT

ACCESSION NR: AP5012023   UR/0377/65/000/001/0006/0015

AUTHOR: Arifov, U. A.; Kulagin, A. I.   52

TITLE: Thermoelectric heat-to-electricity conversion   61

SOURCE: Geliotekhnika, no. 1, 1965, 6-15   B

TOPIC TAGS: thermoelectric energy converter, thermoelectricity, solar energy

ABSTRACT: The state-of-the-art (as of 1963) of thermoelectric heat-to-electricity
conversion is discussed. Some general data are given on materials and on the
applications of solar heating. The work is based largely on information released
by General Electric, Westinghouse, and other Western companies, although a few
well-known "pre-Romishke" Soviet studies are mentioned. It is stated that before
thermoelectricity can be introduced into various branches of the economy it will
be necessary to improve the thermoelectric characteristics of materials, to dis-
cover better methods for controlling the conversion processes over a wide temper-
ature range, to produce better contacting and insulating substances, and to im-
prove methods of heat removal. It is concluded that the weight of thermoelectric
devices and the size of their cooling radiators must be reduced before such devices
can be utilized in space systems. Orig. art. has: 4 formulas, 3 tables, and 2
figures.
Card 1/2   [ZL]

L 271L-65
ACCESSION NR: AP5012023

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UzSSR (Physicotechnical Institute,
AN UzSSR)

SUBMITTED: 15Nov64   ENCL: 00   SUB CODE: EE

NO REF SOV: 000   OTHER: 008   ATD PRESS: 4012

Card 2/2

KULAGIN, A.N.

Mitotic activity of the epidermis of the extremity following denervation in rats. Biul. eksp. biol. med. 47 no.1:97-100 Ja '59.   (MIRA 12:3)

1. Iz laboratorii gistofiziologii (zav. - kand. biol. nauk V.N. Dobrokhotov) Instituta eksperimental'noy biologii (Dir. - prof. I.N. Mayskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR N.N. Zhukovym-Verezhnikovym.
            (CELL DIVISION,
                mitosis of skin of extremity, eff. of denervation (Rus))
            (SKIN, anat. & histol.
                mitosis of epidermis of extremity in rat, eff. of de-
                nervation (Rus))

KULAGIN, A.N.

Effect of nerve section in the hind leg on the rate of regenera-
tion of skin wounds and on mitotic activity of the regenerating
epidermis. Biul.eksp.biol. i med. 47 no.6:105-109 Je '59.
(MIRA 12:8)

1. Iz laboratorii gistofiziologii (zav. - kand.biologicheskikh
nauk V.N.Dobrokhotov) Instituta eksperimental'noy biologii
(dir. - prof.I.N.Mayskiy) AMN SSSR, Moskva. Predstavlena
deyatvitel'nym chlenom AMN SSSR N.N.Zhukovym-Verezhnikovym).
            (SKIN, physiol.
                regen. & mitotic activity, eff. of nerve
                section in hind leg in animal (Rus))
            (REGENERATION,
                skin, eff. of hind leg nerve section on regen.
                & mitotic activity (Rus))
            (CELL DIVISION,
                mitosis in skin regen., eff. of hind leg
                nerve section (Rus))

KULAGIN, A.N.

Effect of resection of the anterior and posterior roots of the
spinal cord on mitotic activity of the epidermis and on the rate
of healing of skin wounds in rats. Biul. eksp. biol. i med.
49 no. 5:119-123 My '60. (MIRA 13:12)

1. Iz laboratorii gistofiziologii (zav. - kandidat biologicheskikh
nauk V.N. Dobrokhotov) Instituta eksperimental'noy biologii (dir. -
prof. I.N. Mayskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nym
chlenom AMN SSSR N.N. Zhukovym-Verezhnikovym.
        (SKIN)   (SPINAL CORD)   (CELL DIVISION (BIOLOGY))
                        (WOUNDS)

GOSTEV, V.S.; SAAKOV, A.K.; AZLETSKAYA, A.Ye.; PERELAZNYY, A.A.; NAZARENKO, N.A.; MAZINA, N.M.; KULAGIN, A.N.; ZYKOV, Yu.V.; NIKITENKO, A.A.; SKACHKOV, N.I.

Comparative immunochemical study of antisera to tissue homogenates and the mixtures of their nonprotein fractions. Biul. eksp. biol. i med. 57 no.4:94-97 Ap '64.   (MIRA 18:3)

1. Laboratoriya immunokhimii (zav. - prof. V.S. Gostev) Instituta eksperimental'noy biologii (dir. - prof. I.N. Mayskiy) AMN SSSR, Moskva. Submitted May 17, 1963.

KULAGIN, A. V.

"Analysis of the Principal Systems of Throttle-Control Hydraulic Drives and the Selection of the Best Hydraulic Drive Systems." Cand Tech Sci, Moscow Order of Labor Red Banner Higher Technical School imeni Bauman, Min Higher Education USSR, Moscow, 1955. (KL, No 14, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

S/145/60/000/008/001/008
D211/D304

AUTHORS: Kulagin, A.V., Candidate of Technical Sciences, and
            Demidov, Yu.S., Senior Lecturer

TITLE: Hydraulic transmission with throttle control for
            several hydraulic motors, driven by a single pump with
            proportional pressure

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroye-
            niye, no. 8, 1960, 17 - 24

TEXT: In a usual type of hydraulic transmission for several hydrau-
lic motors driven by one pump, containing throttles, reversing val-
ves and a by-pass valve, the efficiency is low at low speeds and
loads. The system shown in Fig. 2 is more efficient. The by-pass
valve is replaced by a pressure regulator (14), whose upper cavity
is connected with the delivery pressure of the pump (13) and its
lower cavity (through pressure switch valves 15 and 16) with the in-
let pressure of the motor whose load at the given instant requires
the highest pressure. The author derives a formula for the efficien-

Card 1/2

Hydraulic transmission with ...

cy of the system proposed by him and shows that it is higher than
that of the usual systems. Since the losses are lower, a smaller
volume of oil is required for normal operation which alloys reduc-
tion of dimensions and weight of the working liquid tank. There are
2 figures.

ASSOCIATION: MVTU im. N.E. Baumana (MVTU im. N.E. Bauman)
SUBMITTED: June 1, 1959

Fig. 2.
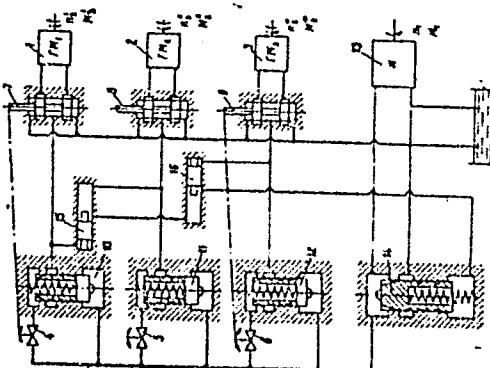
Card 2/2

KULAGIN, A.Ya., assistent; MIKHEL'KEVICH, V.N., assistent

"Electric equipment for oil well drilling" by K.N. Kulizade. Reviewed by A. IA. Kulagin, V.N. Mikhel'kevich. Izv.vys.ucheb.zav.; elektromekh. 1 no.9:127-129 '58.   (MIRA 12:1)

1. Kuybyshevskiy industrial'nyy institut.
        (Oil well drilling—Equipment and supplies)
                (Kulizade, K.N.)

AUTHOR: Kulagin, A. Ya.

TITLE: Transistorized Device for the Active Dimension Control of Components

PERIODICAL: Stanki i Instrument, 1960, No. 12, pp. 25-26

TEXT: A new device has been developed by the laboratoriya "Elektrooborudo-vaniye promyshlennykh predpriyatiy" Kuybyshevskogo industrial'nogo instituta (Laboratory for "Electric Equipment of Industrial Enterprises" of the Kuybyshev Industrial Institute). The device is intended for the active dimension control of antifriction bearing tracks of milling cutters and differs from the existing devices of this kind in so far that the electron tubes used hitherto are replaced by transistors connected to the phase-sensitive circuit of the amplifier of the current mean-value. The illustration shows the principal electric circuit of the device.   An electric contact ЭКД (EKD) pickup of the 6В-211 (BV-211) type is employed.   To avoid a burning of the contacts they are connected through the ЧС(TS) matching transformer to the input of a phase-sensitive amplifier. Such an amplifier, assembled from KT transistors of the П202 (P202) type and 1Д (1D) and 2Д (2D) diodes of the ДГ-Ц24 (DG-Ts24) type, acts as changeover switch and controls

Card 1/3

alternately the two intermediate 1PП (1RP) and 2PП (2RP) relays of the МКЧ-24 (MKU-24) type. These relays give the corresponding instructions to the working organs of the machine tool, depending on the dimension magnitude of the component.   The normally closed contacts of the 1RP relay ensures the switching-over of the speed of the feed motor and in this way the change-over from rough to finish feed is effected. The new device differs from the existing ones in simplicity of design, small overall dimensions, lower weight and costs, as well as increased reliability, durability and longer intervals between repairs.   The power supplied to the contacts is by several times lower and amounts only to 0.4 - 0.5 mva (at a
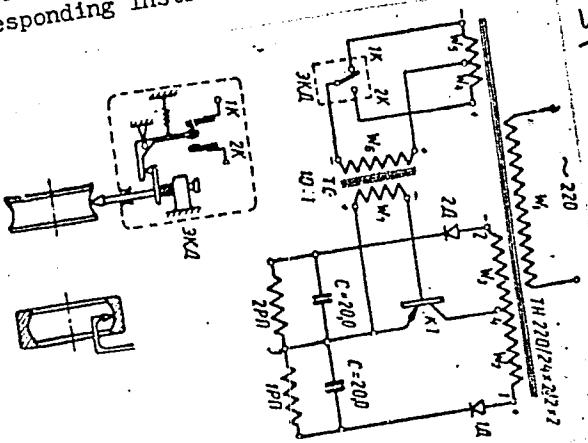
S/121/60/000/012/010/015
A004/A001

Transistorized Device for the Active Dimension Control of Components

contact voltage of 2.0 - 2.5 v respectively), depending on the amplification factor of the transistor. The results were obtained with transistors having a current-gain factor of approximately 50. The author gives a detailed description of the operation of the new device. There is 1 figure and 3 Soviet references.

Card 3/3

1. KULAGIN, B.I.,   POPYAIKOVSKIY, V.I., Eng.

2. USSR (600)

4. Lathes

7. Work of the lathe operator and Stalin prize winner. Vest mash No. 11   1952.

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

KULAGIN, B.I.

TJ1160.A34   TREASURE ISLAND BOOK REVIEW   AID 860 - S

KULAGIN, B. I.
    SKOROSTNOYE REZANIYE I UDLINENIYE MEZHREMONTNYKH SROKOV RABOTY STANKA (Speed-
    Cutting and Extension of Time of Machine-Tool Operation between Repairs). In
    Akademiya Nauk SSSR. Peredovoy opyt novatorov mashinostroyeniya (Progressive
    Experience of Leading Men in the Machine-Building Industry) 1954. Part I:
    Skorostnyye metody mekhanicheskoy obrabotki metallov (High-Speed Methods in
    Machining of Metals). p. 137-140.

    The author is a leading turner of the Moscow Grinding Machines Plant. He has
    been doing speed metal-cutting since 1939 and has acquired skill in handling
    grinders. He has fulfilled 27 yearly norms in 6 years, and has operated his
    machine without capitol repairs. He relates "the secret" of his achievements:
    good care of the equipment.

                                    1/1

SHKARIN, S.A.; KULAGIN, D.G.

Tube rolls made of veneer. Bum.prom. 30 no.11:22 N '55. (MLRA 9:2)

1.Krasnogorodskaya bumazhnaya fabrika.
(Paper making machinery)

KULAGIN, D. G.

    Vliianie formy redana na aerogidrodinamicheskie kharakteristiki
poplavka gidrosamoleta. Moskva, 1940. 24 p., illus. (TSAGI. Trudy,
no. 497)
    Title tr.: Effect of the shape of the step on aero-hydrodynamic
characteristics of a seaplane float.

NCF

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

KULYGIN, D.G.,inzh.

New method for securing crane rails to reinforced concrete beams.
Stroi.prom. 36 no.4:49 Ap '58.   (MIRA 11:4)

1. Nauchno-issledovatel'skiy institut Mosstroy.
        (Cranes, derricks, etc.)

KULAGIN, D.G.

Precast reinforced concrete foundations of crane runways.
Rats. predl. no. 37:18-20 '59.   (MIRA 14:1)
        (Cranes, derricks, etc.)   (Concrete footings)

S/100/60/000/011/003/005
D282/D301

AUTHOR: Kulagin, D.G., Engineer

TITLE: Crane tracks mounted on concrete blocks

PERIODICAL: Mekhanizatsiya stroitel'stva, no. 11, 1960, 18-20

TEXT: When using wooden sleepers, the thickness of sand ballast under the track of cranes СБК-1 (SBK-1) must be 400 mm as prescribed by the Gosstroy SSSR (Instruction СН-78-60(SN-78-60). According to information of the НИИ (NII) Mosstroy, the life time of wooden sleepers does not exceed two years; the expenses for regular repair of such tracks amount to 25-50% of the exploitation costs of tower cranes. The author of this article introduced the process of mounting the crane tracks on reinforced concrete blocks of a trapezoidal cross-section which he called "КД" (KD) blocks. Since then, such blocks are being successfully used by the Trusts Akademstroy and Rostorgstroy of the Ministry of Commerce of the RSFSR in Moscow, by Kerchmetallurgstroy, Dneprodzerzhinskstroy, Apatitstroy, Yenaknevozhilstroy and other

Card 1/3

S/100/60/000/011/003/005
D282/D301

Crane tracks mounted...

construction enterprises. Alternatively, the blocks may have a rectangu-
lar form; such blocks, type "КД-1П" (KD-1P) are used by the Dnepropetr-
ovsk Construction Trust No. 17. Basic constructive data for trapezoidal
blocks are given in the article. The rails are attached to the blocks
KD by clamps; for this purpose, special angle brackets are inserted into
the blocks. These brackets form closed boxes; on both sides of each box,
tie bolts are set up, with the aid of which the rail bottom is fixed
on the block. Three such boxes are put on each block at a distance of
850 mm one from another. Besides the tie bolts, the rail can be
fastened in any position by means of fixing plates. This method of
fixing is recommended for gantry cranes СБК-1 (SBK-1) at which a certain
turn of portal occurs when starting. To eliminate sags the vertical
straightening of tracks is accomplished by means of lifting jacks. Such
jacks are produced by the Moscow Remontno-mekhanicheskiy zavod МПС (MPS).
Their lifting capacity is 15-20 tons, height 327 mm and weight 22 kg.
Alternatively, tracks can be straightened with the help of hydraulic
jack ДГ-6 (DG-6) having a 6 ton lifting capacity. Such jacks are pro-
duced at the plant "Krasnyy put'" in Moscow. The "KD" blocks are made
of reinforced concrete, quality not under M-200, and reinforced by two

Card 2/3

Crane tracks mounted...   S/100/60/000/011/003/005
                                           D282/D301

grates. They can be used in building tracks for any tower, gantry or
portal crane. When these blocks are used, 4-5 times less ballast is
required than in cases where wooden sleepers are used. By applying
blocks "KD-IP" for cranes БКСМ-5-5А (BKSM-5-5A), the Stroytrest No. 17
in Dnepropetrovsk cut down by 52% its expenses for building tracks.
There are 3 figures and 1 table.

Card 3/3

KULAGIN, D.I.

Diagram for the automatization of mine drainage. Ugol' 35 no. 12:9-
11 D '60.   (MIRA 14:1)
          (Mine drainage)   (Automatic control)

KULAGIN, D.I., inzh.

Preventing the overlapping of cables in hoisting units. Bezop.
truda v prom. 5 no.1:32 Ja '61.   (MIRA 14:2)

1. Trest Yegorshinugol'.
                    (Hoisting machinery—Safety measures)

KULAGIN, D., inzh.

Specify par.134 of regulations for abandoning mine workings.
Bezop.truda v prom. 5 nc.7:32 Jl '61.   (MIRA 14:6)

1. Nachal'nik proizvodstvenno-tekhnicheskogo otdela tresta
Yegorshinugol'.
            (Coal mines and mining--Safety measures)

KULAGIN, B. I.

Kulagin, B. I. "The connection between the basic elements of atmospheric
electricity an the metrorological elements, dust, and condensation centers",
Trudy Tashk. geofiz. observatorii, Issue 2, 1949, p. 56-61.

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