Influence of Toothed Rack Initial Form According to the GOST 3058-54 on the Efficiency of Flanking

ing wheel pitch is greater than that of driven wheel, that is, $t_1 > t_2$; 2) Driving wheel pitch is smaller than that of driven wheel: $t_1 < t_2$. For the first case, the flanking angles are defined by diagrams a, b, c (Fig 1); for the second case - by diagrams a, b, c (Fig 2). In Fig 3, profiles of driving and driven wheel teeth at the beginning of their meshing are shown; Fig 4 illustrates position of the teeth at the initial and final moment of their meshing. The efficiency of flanking is expressed by the function

$$\frac{V_k}{V_f} = \frac{C_1 \sqrt{\frac{\Delta_a}{d_1}}}{\cos\alpha_d - \cos(\alpha_d + \alpha_f)}$$

, where V_k is impact speed of non-flanked teeth; V_f - impact speed of flanked teeth; C_1 - coefficient for standard gears determined in Table 4;

Influence of Toothed Rack Initial Form According to the GOST 3058-54 on the Efficiency of Flanking

$K = \frac{V_s}{V_k}$, where V_s is central impact speed; $\Delta_o = t_1 - t_2$; α_f - angle of flanking. The values expressing the efficiency of flanking obtained by the authors exceed by 1.4-1.93 times those received by experimental method; the same values calculated by the method of M.S. Polotskiy are by 2.5-3.3 times greater than the experimental ones. After the research, the authors arrive at the following conclusions: 1) When the difference in gear pitches is slight, the efficiency of flanking is not over 1.15; 2) When this difference approaches its maximum permissible value, the flanking efficiency varies between 1 and 6.9; 3) the maximum efficiency is obtained when the number of teeth on both gears $Z_1 = Z_2$ (the gear ratio is equal to 1);

Card 3/4 4) efficiency of flanking is small when the number of

Influence of Toothed Rack Initial Form According to the GOST 3058-54 on the Efficiency of Flanking

teeth and the flanking angles are large; in some cases the flanking may even result in a negative effect; 5) increasing the modulus (at equal angles α_f) diminishes the efficiency; 6) efficiency is increased with the increased degree of accuracy in manufacturing toothed gears. There are 6 tables, 7 figures and 3 references, 2 of which are Soviet and 1 German.

ASSOCIATION: Khar'kovskiy aviatsionnyy institut (Khar'kov Aviation Institute)

SUBMITTED: December 17, 1957

KOSTYUK, D.I.; GOLDAYEVA, O.I.; YAKOVLEV, Yu.V.; TRET'YAKOVA, A.N., red.; TROFIMENKO, A.S., tekhred.

[Manual for project work for course credit on the theory of mechanisms and machines] Rukovodstvo k kursovomu proektirovaniiu po teorii mekhanizmov i mashin. Khar'kov, Izd-vo Khar'kovskogo ordena Trudovogo krasnogo znameni gos.univ. im. A.M.Gor'kogo, 1959. 252 p. (MIRA 12:12)
(Mechanical engineering--Handbooks, manuals, etc.)

SEREDA, Vasiliy Trofimovich, prof.; KOSTYUK, Anatoliy Parfenovich, dotsent; VISHNEVETSKIY, Yefim Abramovich, assistent; SHEBANOV, Igor' Georgiyevich, assistent; BEZVESEL'NYY, Ye.S., dotsent, otv.red.; KOSTYUK, D.I., dotsent, kand.tekhn.nauk, retsenzent; KURILOVA, T.M., red.; NIKULINA, N.I., tekhn.red.

[Manual for laboratory work in the theory of mechanisms and machinery] Rukovodstvo k laboratornym rabotam po teorii mekhanizmov i mashin. Khar'kov, Izd-vo Khar'kovskogo gos.univ., 1960. 142 p. (MIRA 13:12)
(Mechanical engineering--Laboratories)

ABRAMOV, Boris Meyerovich; KOST'YUK, D.I., dotsent, otv.red.; PROKOPENKO, M.I., red.; NIKULINA, N.I., tekhn.red.

[Dynamics of link mechanisms with consideration of friction] Dinamika sharnirnykh mekhanizmov s uchetom treniia. Khar'kov, Izd-vo Khar'kovskogo gos.univ., 1960. 148 p.
(MIRA 13:12)

(Machinery, Kinematics of)

ALEKSANDROV, Lev Iosifovich; ARTEMENKO, Nikolay Pavlovich; FEL'DMAN, Lev Moiseyevich; KOSTYUK, D.I., dotsent, otv. red.; KURILOVA, T.M., red.; TROFIMENKO, A.S., tekhn. red.

[Machine parts; laboratory work] Detali mashin; laboratornye raboty. Khar'kov, Izd-vo Khar'kovskogo gos. univ. im. A.M.Gor'kogo, 1961. 152 p. (MIRA 14:10)
(Mechanical engineering—Study and teaching)

TKACHENKO, Viktor Andreyevich; DOBROVOL'SKIY, V.A., prof., doktor tekhn. nauk, retsenzent; D'YACHENKO, S.K., dots., kand. tekhn. nauk, retsenzent; KOSTYUK, D.I., kand. tekhn. nauk, otv. red.; TRET'YAKOVA, A.N., red.; KOGAN, Ye.M., tekhn. red.

[Designing multisatellite planetary transmissions] Proektirovanie mnogosatellitnykh planetarnykh peredach. Khar'kov, Izd-vo Khar'kovskogo gos.univ. im. A.M.Gor'kogo, 1961. 181 p. (MIRA 15:8)
(Gearing)

KOSTYUK, D.I., kand.tekhn.nauk, dotsent

Increasing the loading capacity of spur gears by the shifting of profiles. Izv.vys.ucheb.zav.; mashinostr. no.10:45-58 '61. (MIRA 14:12)

1. Khar'kovskiy aviatsionnyy institut.
(Gearing, Spur)

KOSTYUK, D.I.; GOLDAYEVA, O.I.; YAKOVLEV, Yu.V. Prinimali uchastiye: BOLOTOVSKI, T.P.; BOLOTOVSKIY, I.A.; SMIRNOV, V.E.; BAZILYANSKAYA, I.L., red.

[Manual for the preparation of a course project in the theory of mechanisms and machines] Rukovodstvo k kursovomu proektirovaniiu po teorii mekhanizmov i mashin. Izd.2., ispr. i dop. Khar'kov, Izd-vo Khar'kovskogo univ., 1961. 265 p. (MIRA 18:6)

KOSTYUK, D.I., prof.

Determining the tooth form factor of a gear wheel with an internal rim. Izv. vys. ucheb. zav.; mashinostr. no.4:16-21 '65. (MIRA 18:5)

1. Khar'kovskiy aviatsionnyy institut.

L 43782-66 EWT(d)/EWT(m)/T DJ
ACC NR: AP6032351 SOURCE CODE: UR/0021/66/000/005/0593/0597

AUTHOR: Kil'chevs'kyy, M. O. (Corresponding member AN UkrSSR); Kostyuk, E. M. 42 B

ORG: Institute of Mechanics, AN UkrSSR (Instytut mekhaniky AN UkrSSR)

TITLE: Dynamic interaction in gear transmissions due to deformation of teeth 17

SOURCE: AN UkrSSR. Dopovidi, no. 5, 1966, 593-597 17

TOPIC TAGS: mechanical power transmission device, transmission gear, material deformation

ABSTRACT: Local dynamic effects are examined in gear transmissions under Timoshenko-Hertz conditions. Errors due to poor workmanship, friction, and contact slip are neglected, as are the elastic forces on the gear shafts. Thus, the study is restricted to the dynamic torsion forces on the wheel shafts and the deformation of the teeth. Timoshenko's theory of collisions is used to formulate the relations describing the dynamic interactions due to tooth deformation. The results, obtained for spur gears, can be directly extended to bevel gears. Orig. art. has: 9 formulas. [JPRS: 36,712]

SUB CODE: 13, 20 / SUBM DATE: 21Jun65 / ORIG REF: 009

Card 1/1

0919 2005

KOSTYUK, E.N. [Kostiuk, E.M.] (Kiyev)

Numerical solution of the fundamental contact problems in the theory of elasticity. Prykl. mekh. 10 no.4:399-406 '64.
(MIRA 17:10)

1. Kiyevskiy politekhnicheskiy institut.

DZYADZIO, A., inzh.; KOSTYUK, G., inzh.; TSYBUL'SKIY, G., inzh.

High-pressure ventilators with increased efficiency coefficient. Muk.-elev. prom. 26 no. 11:27-29.N '60. (MIRA 13:11)

1. Odesskiy tekhnologicheskiy institut im.I.V.Stalina.
(Flour mills--Heating and ventilation)

KOSTYUK, G.F.

Against one-sided judgment in the evaluation of automation.
Sakh. prom. 37 no.5:22-23 My '63. (MIRA 16:6)

1. Savintsovskiy sakharnyy zavod.
(Sugar industry) (Automation)

KOSTYUK, G.F.

Liquid-solution trap for vacuum apparatus and evaporation with gravity return of waste products for reprocessing. Sakh.prom. 27 no.4:27-30 Ap '53. (MLRA 6:6)

1. Yaltushkovskiy sakharnyy zavod. (Sugar machinery)

KOSTYUK, G.F.

Improving the design of frames for mechanical filters. Sakh.prom. 28 no.7:33-34 '54. (MIRA 8:1)

1. Yaltushkovskiy sakharnyy zavod.
(Sugar industry--Equipment and supplies) (Filters and filtration)

KOSTYUK, G.F.

Building storage ponds for reusable sewage. Sakh.prom. 35 no.7:44-45 Jl '61. (MIRA 14:7)

1. Zarozhanskiy sakharnyy zavod.
(Sugar industry) (Sewage disposal)

KOSTYUK, G.I.

PROKHOROV, Yu.S., gornyy inzhener; KOSTYUK, G.I., gornyy inzhener.

Reinforced concrete scraper platforms. Gor. zhur. no.8:75-76 Ag '57. (MLRA 10:9)

1. Lebyazhinskoye rudoupravleniye.
(Mine haulage--Equipment and supplies)

SENUK, V., inzh.; KOSTYUK, G.I., inzh.

Effect of certain factors on the quality of the shattering of rocks crushed in a "press". Izv.vys.ucheb.zav.; gor. zhur. 6 no. 12:93-96 '63. (MIRA 17:5)

1.Institut gornogo dela Ural'skogo filiala AN SSSR (for Senuk). 2. Shakhta Ekspluatatsionnaya Vysokogorskogo rudoupravleniya (for Kostyuk). Rekomendovana kafedroy razrabotki rudnykh mestorozhdeniy Sverdlovskogo gornogo instituta.

KOSTYUK, G. S.

"I. P. Pavlov's Theories and Philosophical Questions in Psychology" 13 pp

Sov Kniga, No 6, Moscow, June 1953, pp 78-82
CIS 54, p120

KOSTYUK, G. S. (Prof.)

"du Developpement de l'Intelligence Chez l'Enfant (la génèse de la notion du nombre)"

Communications at the XIV International Congress of Psychology, Acad. Pedagogical Sci. RSFSR, Moscow, 1954.

Prof. G. S. Kostyuk, Inst. of Psychology, Kiev.

KOSTYUK, G. S. , Professor, Institute of Psychology, Kiev

Paper presented at XIV Congress of Psychology held in Montreal in June 1954:

"The Development of Intelligence in the Child: The Genesis of Notion of Number," (Text in Russian and French)
Doklady na Mezhunarodnom po Psikhologii, Izdatel'stvo akademii Pedagogicheskikh Nauk RSFSR, Moskva, 1954, pp 41-55

KOSTYUK, G.S., redaktor

[Psychology; a manual for pedagogical institutes] Psykhologiia; pidruchnyk dlia pedagogichnykh vuzov. Kyiv, Radians'ka shkola, 1955. 525 p. (MLRA 10:4)
(Psychology)

KOSTYUK, G.S.

Some problems in the correlation between training and personality development. Vop.psikhol. 2 no.5:3-14 S-O '56. (MLRA 10:1)

1. Institut psikhologii Ministerstva prosveshcheniya USSR, Kiyev.
(Education of children) (Child study)

KOSTYUK, G.S.

"Psychology of teaching arithmetic" by N.A.Menchinskaia. Reviewed by G.S.Kostiuk. Vop.psikhol. 4 no.6:160-165 N-D '58. (MIRA 12:1)

(Arithmetic--Study and teaching) (Educational psychology)

(Menchinskaia, N.A.)

ANAN'YEV, B.G., red.; KOSTYUK, G.S., red.; LEONT'YEV, A.N., red.; LURIYA, A.R., red.; MENCHINSKAYA, N.A., red.; RUBINSHTEYN, S.L., red.; SMIRNOV, A.A., red.; TEPLOV, B.M., red.; SHEMYAKIN, F.N., red.; ZHUKOV, I.V., red.; PONOMAREV, Ya.A., red.; MATYUSHKIN, A.M., red.; LAUT, V.G., tekhn.red.

[Psychology in the U.S.S.R.] Psikhologicheskaia nauka v SSSR. Moskva, Vol.1. 1959. 597 p. (MIRA 12:8)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut psikhologii.

(Psychology)

KOSTYUK, G.S. [Kostiuk, H.S.]

Status of research work in the fields of psychology. Nauk. zap. Nauk.-dosl. inst. psykhol. 11:5-12 '59. (MIRA 13:11)
(Ukraine--Psychological research)

KOSTYUK, G.S. [Kostiuk, H.S.]

Concerning the transition from perception to thought. Nauk. zap. Nauk.-dosl. inst. psykhol. 11:60-63 '59. (MIRA 13:11)

1. Institut psikhologii, Kiyev.
(Perception) (Thought and thinking)

ANAN'YEV, B.G., red.; KOSTYUK, G.S., red.; LEONT'YEV, A.N., red.; LURIYA, A.R., red.; MENCHINSKAYA, N.A., red.; RUBINSHTEYN, S.L., red. [deceased]; SMIRNOV, A.A., red.; TEPLOV, B.M., red.; SHEMYAKIN, F.N., red.; PONOMAREV, Ya.A., red.; LAUT, V.G., tekhn.red.

[Psychology in the U.S.S.R.] Psikhologicheskaia nauka v SSSR. Moskva. Vol.2. 1960. 653 p. (MIRA 14:1)

1. Akademiya pedagogicheskikh nauk RSFSR. Institut psikhologii. (Psychology)

KOSTYUK, G.S.

Psychological problems in the unification of learning and productive work. Vop. psikhol. 6 no. 6:3-22 N-D '60. (MIRA 13:12)

1. Institut psikhologii USSR, Kiyev.
(Education) (Work)

KOSTYUK, G.S.

M.V.Lomonosov on the psychology of cognition; on the 250th anniversary of his birth. Vop. psikhol. 7 no.5:9-24 S-O '61. (MIRA 15:1)

1. Institut psikhologii USSR, Kiyev.
(LOMONOSOV, MIKHAIL VASIL'EVICH, 1711-1765)

KOSTYUK, G.S. (Kiyev)

"Child psychology" by D.B.El'konin. Reviewed by G.S.Kostiuk.
Vop.psikhol. no.6:139-141 N-D '62. (MIRA 16:2)
(Child study) (El'konin, D.B.)

KOSTYUK, G.S.; MENCHINSKAYA, N.A.; SMIRNOV, A.A.

Urgent tasks of schools and the problems of educational psychology. Vop. psikhol. 9 no.5:48-60 S-O'63. (MIRA 17:2)

1. Institut psikhologii, Kiyev (for Kostyuk).
2. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR, Moskva (for Menchinskaya, Smirnov).

KOSTYUK, G. S.

"Otsenka kak faktor povysheniya effektivnosti obucheniya."

report submitted for 15th Intl Cong, Intl Assn of Applied Psychology, Ljubljana, Yugoslavia, 2-8 Aug 1964.

Institut psikhologii USSR, Kiev.

RUZIN, Boris Vasil'yevich; OSMOLOVSKIY, M., obshchiy red.; KOSTYUK, G.Ye., inzh., red.; DMITRIYEVA, N.L., red.izd-va; MEDVEDEV, L.Ya., tekhn.red.; GUSEVA, S.S., tekhn.red.

[Above construction] Stroitel'stvo iz gainosyrtsovykh materialov. Pod obshchei red. M.Osmolovskogo. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit., 1956. 133 p. (MIRA 13:1)
(Building, Adobe)

RUZIN, Boris Vasil'yevich; OSMOLOVSKIY, M., redaktor; KOSTYUK, G.Ye., inzhener, redaktor; DMITRIYEVA, N.L., redaktor izdatel'stva; MEDVEDEV, L.Ya, tekhnicheskiy redaktor; GUSEVA, S.S., tekhnicheskiy redaktor

[Building with clay materials] Stroitel'stvo iz glinosyrtsovykh materialov. Pod obshchoi red. M.Osmolovskogo. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 133 p. (MLRA 10:2)
(Building) (Clay)

RUZIN, B.V., kand.ekonom.nauk; KOSTYUK, G.Ye., inzh.; NEFEDOV, S.F., inzh., red.; ZAKHARENKO, V.I., red.izd-va; LYTKINA, L.S., red.izd-va; STEPANOVA, E.S., tekhn.red.

[Using precast reinforced concrete and reed in rural construction] Opyt primeneniia sbornogo zhelezobetona i kamyshu v sel'skom stroitel'stve. Pod red. S.F.Nefedova. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1959. 74 p. (MIRA 12:9)
(Farm buildings) (Precast concrete construction)
(Reed (Botany))

KOSTYUK, G.Ye., inzh., red.; KLIMOVA, G.D., red. izd-va; BOROVNEV, N.K., tekhn. red.

[Norms and technical specifications for planning sheep farms SN 130-60] Normy i tekhnicheskie usloviia proektirovaniia ovtsevodcheskikh ferm SN 130-60. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 12 p. (MIRA 14:7)

1. Russia (1923- U.S.S.R.) Gosudarstvennyi komitet po delam stroitel'stva.

(Sheep houses and equipment)

DUBINSKIY, A.A.; KOSTYUK, I.F.; LANTODUB, I.Yu.

Dialyzable fraction of the blood serum reacting with diphenylamine and its clinical importance. Vop. med. khim. 11 no.4:91-94 Jl-Ag '65. (MIRA 18:8)

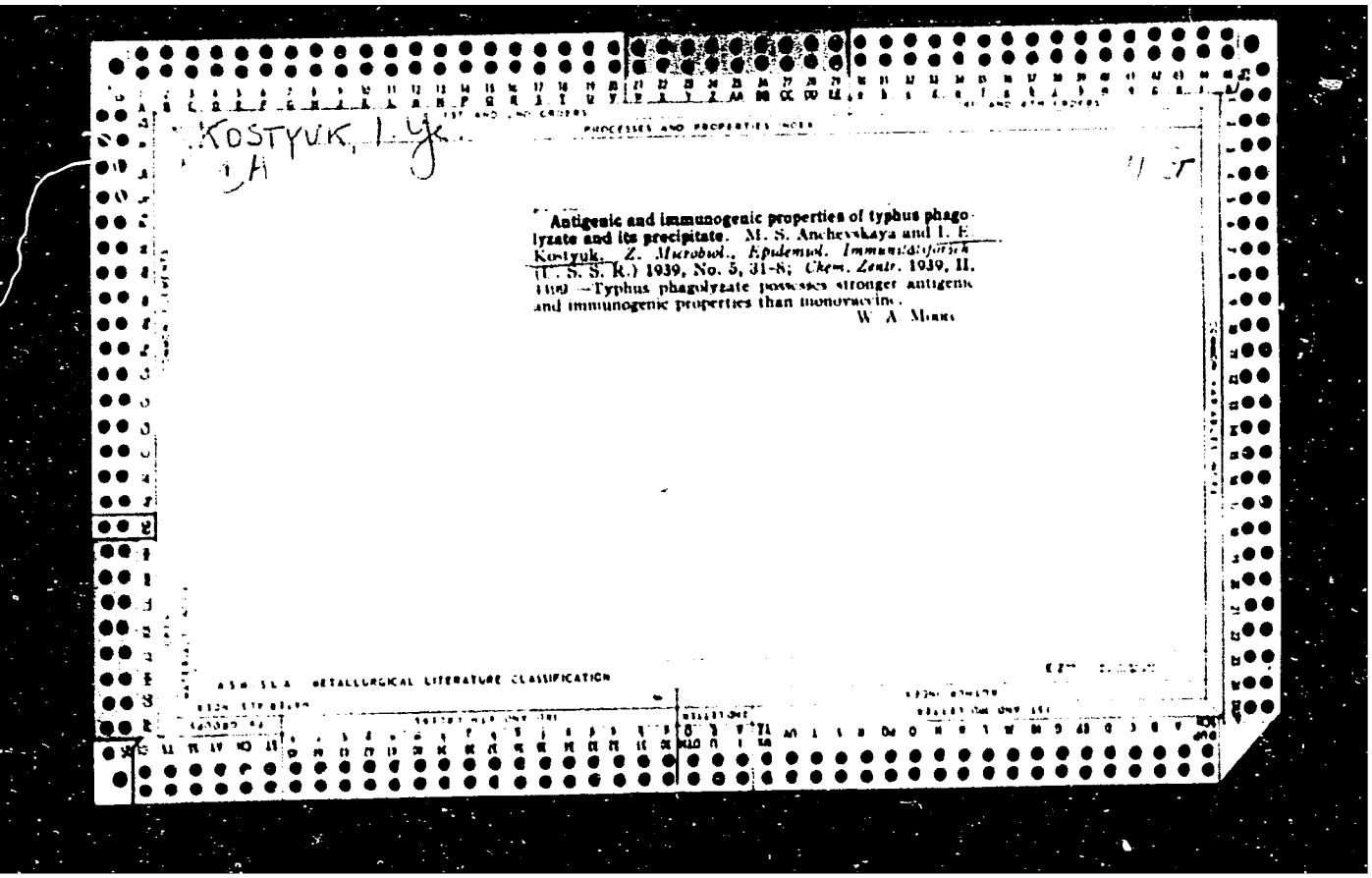
1. Kafedra gospital'noy terapii lechebnogo fakul'teta Khar'kovskogo meditsinskogo instituta.

KOSTYUK, IVAN

VOL'SKIY, Vasiliy Grigor'yevich; KOSTYUK, Ivan Grigor'yevich

[Corn cultivation practices in the western provinces of the Ukraine] Agrotekhnika vyroshchuvannia kukurudzy v zakhidnykh oblastiakh Ukrainy. Lviv, Knyzhkovo-zhurnal'ne vyd-vo, 1955. 63 p. (MLRA 10:4)

(Ukraine--Corn(Maize))



KOSTYUK, I. Ye.

Antigenic and immunogenic properties of typhus phagolyzate and its precipitate. M. S. Anchevskaya and I. E. Kostyuk. *Z. Mikrobiol., Epidemiol. Immunobiologii* (U. S. S. R.) 1939, No. 5, 31-8; *Chem. Zentr.* 1939, II, 1189.—Typhus phagolyzate possesses stronger antigenic and immunogenic properties than monovaccine.

W. A. Maass

ASM STEEL METALLURGICAL LITERATURE CLASSIFICATION

L 47456-66 EWT(d)/EWT(m)/EWP(v)/T/EWP(k)/EWP(h)/EWP(l) DJ

ACC NR: AP6030637 SOURCE CODE: UR/0413/66/000/016/0149/0149

INVENTOR: Sadovnikov, V. V.; Musin, E. I.; Uvarov, V. G.; Kostyuk, I. Ye. 37 B

ORG: none

TITLE: A device for the manual and automatic coupling and uncoupling of hydraulic systems. Class 72, No. 185241

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 149

TOPIC TAGS: hydraulic equipment, auxiliary aircraft equipment, valve

ABSTRACT: This Author Certificate introduces a device for the manual and automatic coupling and uncoupling of hydraulic systems such as those found in aircraft. It consists of outer and inner half-joints. The outer half-joint contains a nipple joint and a floating frame with a movable valve seat and a spring. The inner half-joint includes a fixed frame with a valve inside. For easier separation and smoother operation, without any lateral displacements when coupled, the movable valve of the inner half-joint has a channel connection with the outside atmosphere, and the floating frame of the outer half-joint has hinged spring-supported rods. The rods include a tooth for tripping onto the valve guide shoulder of the inner half-joint; and the nipple joint has a rigidly mounted compensating gear with a screwed-on bushing which contains a contoured projection to activate the rods during separation. Orig. art. has: 1 figure. [SA]

SUB CODE: 13, 01/ SUBM DATE: 19Mar65

Card 1/1 UDC: 623.419:621.643

KOSTYUK I YE.

SOROKINA, O. P.; KOSTYUK, I. Ye.

Effect of Sandagou mineral water on chronic gastritis and gastroduodenal ulcer. Klin. med., Moskva 29 no.8:74-75 Aug 1951. (CLML 20:11)

L 58482-65

ACCESSION NR: AP5015519 UR/0286/65/000/008/0056/0056
681.121.144

AUTHOR: Bogdanov, V. I.; Kostyuk, I. Z.; Sinev, N. M.

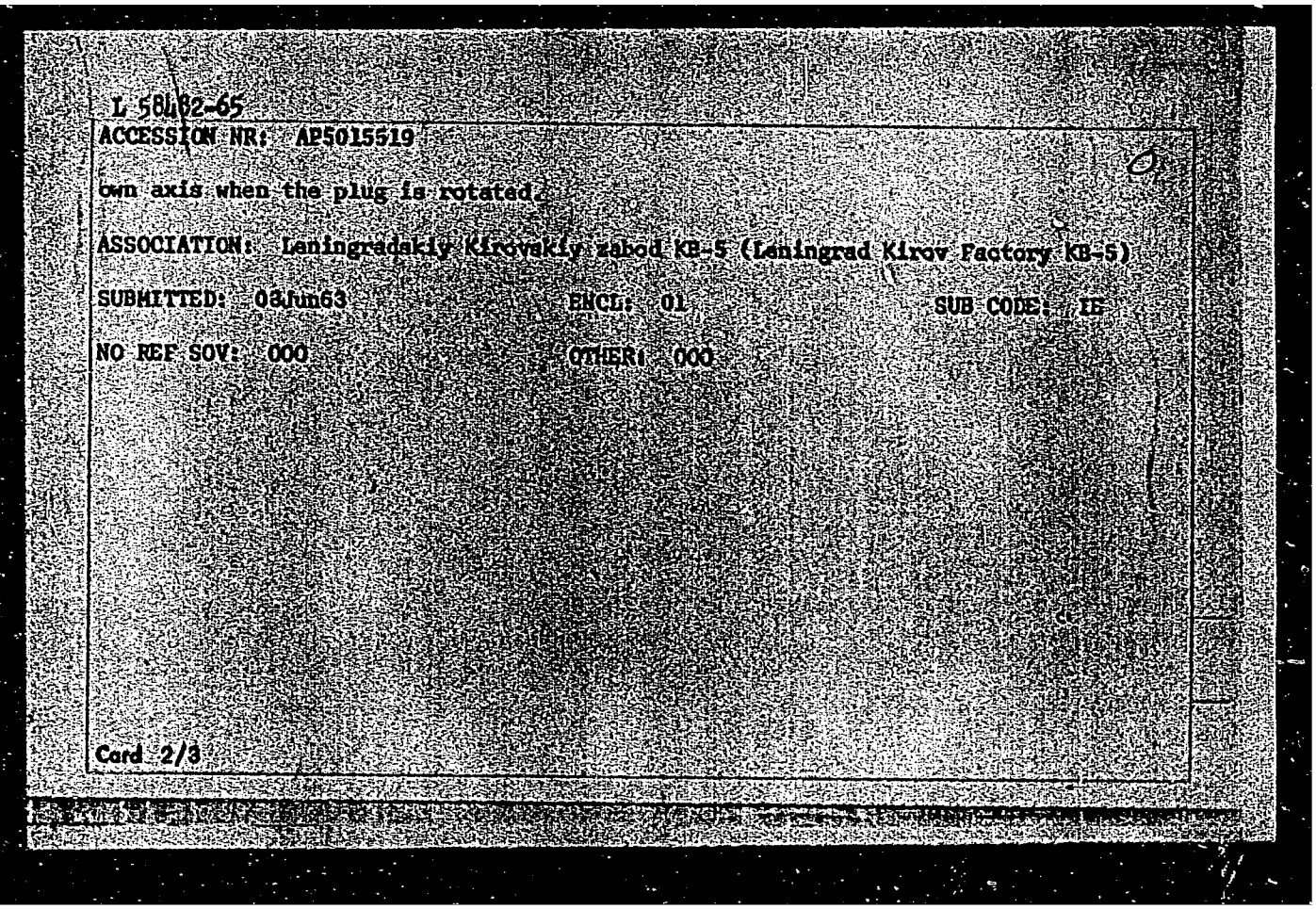
TITLE: Liquid batcher. Class 42, No. 170179

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 8, 1965, 56

TOPIC TAGS: dosimeter, liquid batcher, plug valve, liquid level control

ABSTRACT: This Author's Certificate introduces: 1. A liquid batcher which consists of an airtight delivery vessel, a plug valve, a cylinder and a piston. During operation the piston is alternately connected with radial channels in the valve housing through a radial channel in the plug. The device is designed for delivering batches of liquid to an airtight vessel where the pressure is higher than in the delivery vessel. The cylinder is cut in the valve plug and the piston has a pin which extends beyond the body of the plug. A guide channel cut into the plug stem moves this pin along the vertical when the plug is rotated. 2. A modification of this batcher which has a vertical groove cut in the interior surface of the valve body as a guide for the pin. This keeps the piston from turning about its

Card 1/3



L 58482-65
ACCESSION NR: AP5015519

own axis when the plug is rotated.

ASSOCIATION: Leningradskiy Kirovskiy zavod KB-5 (Leningrad Kirov Factory KB-5)

SUBMITTED: 03Jun63 ENCL: 01 SUB CODE: IE

NO REF SOV: 000 OTHER: 000

Card 2/3

L 58482-65

ACCESSION NR: AP5015519

ENCLOSURE: 01

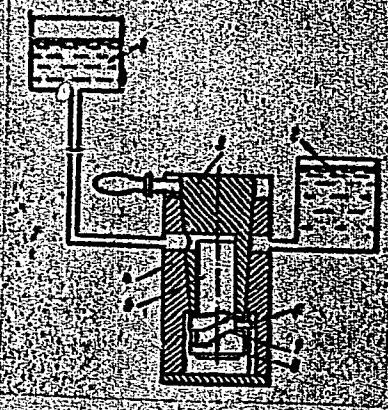


Fig. 1. 1--airtight vessel; 2--airtight delivery vessel; 3--plug; 4--valve housing; 5--piston; 6--pin; 7--guide slot on the plug stem; 8--vertical slot in the valve housing

Card 3/3

KOSTYUK, L.V.

Some peculiarities of the course of experimental myocardial infarction in animals with induced high blood pressure [with summary in English]. Fiziol.zhur. [Ukr.] 3 no.1:73-83 Ja-F '57. (MLRA 10:3)

1. Institut fiziologii im. O.O.Bogomol'tsya Akademii nauk URSR, laboratoriya fiziologii krovoobigu i dikhannya.
(HEART--INFARCTION) (HYPERTENSION)

KOSTYUK, L.V.

Comparative morphological characteristics of myocardial infarction in animals with a normal and high arterial pressure. Vrach. delo no.3:241-245 Mr '57 (MLRA 10:5)

1. Kafedra patologicheskoy anatomii (zav.-zasl. deyatel' nauki, prof. M.K. Dal') Kiyevskogo instituta usovershenstvovaniya vrachey.
(HEART--INFARCTION) (BLOOD PRESSURE)

KOSTYUK, L.V., Kand Med Sci -- (diss) "Morphology and certain functional changes in infarcts of the myocardium in xx animals with (normal and) high blood pressure." Kiev, 1958, 15 pp (Kiev Order of Labor Red Banner Med Inst im Academician A.A. Bogomolets) 200 copies (KL, 29-58, 130)

BUSHMAKINA, Z.I.; VERKHRATSKIY, N.S.; KONSTANTINOVSKIY, G.A.; KOSTYUK, L.V.; KUZ'MINSKAYA, U.A.; KUL'CHITSKIY, K.I.; MIL'KO, V.I.; FROL'KIS, V.V.

Neurohumoral regulation of the cardiovascular system in experimental arteriosclerosis. Vrach. delo no.1:3-11 Ja '62. (MIRA 15:2)

1. Institut gerontologii i eksperimental'noy patologii AMN SSSR, Kiyevskiy meditsinskiy institut.
(ARTERIOSCLEROSIS) (CARDIOVASCULAR SYSTEM)
(REFLEXES)

KOSTYUK, L.V. (Kiyev)

Experimental myocardial infarct in animals of various ages.
Vest. AMN SSSR 18 no.2:77-84 '63. (MIRA 17:5)

1. Institut gerontologii i eksperimental'noy patologii AMN SSSR.

PA - 2393

AUTHOR: KOSTYUK,M.I., GREBNEV,A.A., OSTAPENKO,P.E., and STIMACHEVA,M.A., Crushing and Sorting Plant of the "Pobeda" Shaft and Scientific Institute for Mining Research. (Drobil'no-sortirovochnaya fabrika shakty "Pobeda" i Nauchno-issledovatel'skiy gornorudnyy institut).

TITLE: Improvement of the Granulometric Composition of the Krivoy Rog Iron Ores for Sintering. (Uluchsheniye zernovogo sostava krivorozhskikh aglorud, Russian).

PERIODICAL: Stal', 1957, Vol 17, Nr 2, pp 114 - 118, (U.S.S.R.)
Received: 5 / 1957 Reviewed: 5 / 1957

ABSTRACT: The ores supplied from Krivoy Rog at present do not meet the demands made by metallurgists as regards their granulometric composition and their degree of averaging. In order to improve their granulometric composition experiments were carried out in the crushing- and sorting plant of the "Pobeda" shaft. Since even with the use of wide screen apertures the screens are obstructed quickly - which leads to waiting periods up to 3 hours for heaving them cleaned again - an electric preheating of the sieves with low voltage current was introduced in a number of mills. The physical character of the process taking place under the influence of the current has been but little investigated. Here the attempt is made to explain this process: The topmost part of the ore particles in contact with the wire of the sieve receives the heat from the metal, transfers its humidity to the inner layers, becoming

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IZRAYLEVICH, M.L., inzh.; KOSTYUK, M.A., inzh.; LAZDAN, E.Ye., inzh.

New vibratory conveyers. Mekh.i avtom.proizv. 16 no.3:30-33 Mr '62. (MIRA.15:4)

(Conveying machinery)

KOSTYUK, M.I., tekhnik

Reconditioning worn-out tips of automatic and semiautomatic welders.
Svar.proizv. no.10:37 O '64. (MIRA 18:1)

1. Zelenodol'skiy zavod im. A.M.Gor'kogo.

KOSTYUK, N.A.

Method of total staining of fat in the organs of some nematodes. Zool. zhur. 43 no.6:929-930 '64. (MIRA 17:12)

1. All-Union Research Institute of Phytopathology, Golotsyno, Moscow Region.

KOSTYUK, N.A.

Ontogeny of the wheat nematode Anguina tritici Steinbuch. Trudy Gel'm. lab. 16:47-54 '65.

State of anabiosis in some plant helminths. Ibid.:55-57

Distribution of total protein, nucleic acids, lipids, and polysaccharides in the organism of the wheat nematode Anguina tritici Steinbuch; dynamics of the expenditure and accumulation of these substances in the course of ontogeny. Ibid.:58-62 (MIRA 19:2)

KOSTYUK, N.G.; L'VOV, S.V.; FAL'KOVSKIY, V.B.; STARKOV, A.V.; LEVINA, N.M.

Preparation of anhydrides of higher carboxylic acids by the reaction of transanhydridization. Zhur.prikl.khim. 35 no.3: 698-699 Mr '62. (MIRA 15:4)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova.

(Anhydrides)

L'VOV, S.V.; FAL'KOVSKIY, V.B.; KOSTYUK, N.G.; STARKOV, A.V.; GOLENKOVA, I.B.; KUSKOVA, N.B.; TYURICHEVA, T.A.

Continuous method of preparation of isovaleric acid from isoamyl alcohol by a catalytic reaction. Zhur.prikl.khim. 35 no.3:700-701 Mr '62. (MIRA 15:4)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M.V.Lomonosova.
(Isovaleric acid) (Isopentyl alcohol)

KOLESNIKOVA, A.A.; KOSTYUK, N.G.; CHERNOMUROVA, V.M.; SHCHEGOLEV, D.Ye.; LOTYSHEV, I.P., red.

[Gelendzhik and its surroundings] Gelendzhik i ego okrestnosti. Krasnodar, Krasnodarskoe knizhnoe izd-vo, 1964. 78 p. (MIRA 18:1)

USSR/Technical Crops. Oil Plants. Sugar Plants. M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77771.

Author : Kostyuk, N.I.
Inst :
Title : Square-Nest Distribution of Cotton in the Kirgiz SSR.

Orig Pub: V sb.: Materialy Ob"yedin. nauchn. sessii po khlopkovodstvu, T.I. Tashkent, Gosizdat UzSSR, 1958, 520-525.

Abstract: No abstract.

Card : 1/1

KOSTYUK, N. S. (Engineer)

"Exter[illegible]
Cand. Technical Sci. Sub 30 Jan 50, Moscow Peat Inst.

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

KOSTYUK, N. S.

Peat

The friction coefficient of sliding peat. Sbor. nauch. trud. Inst. torfa AN BSSR no. 1, 1951

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

KOSTYUK,N.S., kandidat tekhnicheskikh nauk.

Operating patterns of spreading machines with BEM-2 units; from work practice of "Tugolitsa" peat enterprise in 1951-1952. Izv. AN BSSR no.I:59-63 Ja-F '53. (MLRA 9:1)
(Peat machinery)

BEL'KEVICH, P.I.; KOSTYUK, N.S.

Principal courses of scientific activity and results of studies by the Peat Institute of the White Russian Academy of Sciences.
Trudy Inst. torf. AN BSSR 4:5-19 '55. (MLRA 9:3)
(Peat)

KOSTYUK, N.S.

FU 4743. RESULTS OF RESEARCH ON THE WINNING OF PEAT IN SMALL CYLINDRICAL PIECES. Kostyuk, N.S. (Trud. Inst. Torfa Akad. Nauk Belorussk. SSR (Trans. Inst. Peat White Russ. S.S.R.), 1955, vol. 4, 30-48; title in Torf. Prom. (Peat Ind., Moscow), 1955, (1), 39).

KOSTYUK, N.S., kandidat tekhnicheskikh nauk.

Results of investigations of the winning of small cylindrical peat blocks. Trudy Inst.torf. AN BSSR 4:49-59 '55. (MLRA 9:3)
(Peat machinery)

KOSTYUK, N.S.; BUZUK, A.A.

Determination of the volumetric shrinkage of block peat. Trudy Inst.torf. AN BSSR 4:157-162 '55. (MLRA 9:3)
(Peat)

15-57-10-15069

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10, pp 290-291 (USSR)

AUTHORS: Kostyuk, N. S., Bazuk, A. A.

TITLE: Qualitative Indices of Bituminous Peat Extracted by the Cutting Method (Kachestvennyye pokazateli bituminoznogo torfa, dobytogo frezarnym sposobom)

PERIODICAL: Izv. AN BSSR, ser. fiz.-tekhn. n., 1956, Nr 3, pp 147-149

ABSTRACT: In order to test the possibility of extracting bitumen (peat wax) from cut peat, experiments were made in 1955 at the peat experimental station "Dukora." These experiments included the extraction of the peat and a study of the different products prepared from it. The peat was cut by the roll cutter FD-4 to a depth of 10 mm to 11 mm, turned three times by turning paddles, and compressed by the roller VUF-3. Because of the lack of a gathering machine, the peat was removed by hand. The

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15-57-10-15069

Qualitative Indices of Bituminous Peat (Cont.)

engineer A. S. Sasim (?) experimented on the extraction of material from peat by benzol. This work was done in large-scale laboratory apparatus at the peat experimental station of the Academy of Sciences of the Belorusskaya SSR. The peat was given a preliminary sifting. Material with a particle size ranging from 1 mm to 10 mm was used for the extraction process. The experiments show that the extraction of bitumen from peat to obtain peat wax is possible from cut peat.

Card 2/2

A. A. Kostin

KOSTYUK, N., inzhener.

Fuller utilization of cutter-loader potentialities. Mast.ugl.5 no.9:7-8 S '56. (MLRA 9:10)
(Donets Basin--Coal mining machinery)

BEL'KEVICH, Petr Illarionovich [Bial'kevich, P.]; KOSTYUK, Nestar Semenovich [Kastsiuk, N.]; TERESHCHANKO, Ul. [TSiareshchanka, Ul.], red.; STEPANOVA, N. [Stsiapanava], tekhn.red.

[Peat as fuel and raw material in White Russia] Torf - paliunaia i syravinnaia baza BSSR. Minsk, Dziarzhaunae vyd-va BSSR. Red. palit.lit-ry, 1957. 40 p. (MIRA 13:4)
(White Russia--Peat)

KOSTYUK, N.

MALYSHEV, F.A., kand.tekhn.nauk; KOSTYUK, N., red.; BARTMAN, B., tekhn.red.

[Hydromechanization of peat winning for fertilizers] Gidromekhanizatsiia dobychi torfa na udobrenie. Minsk, 1957. 87 p. (MIRA 11:5)
(Peat machinery)

KOSTYUK, N.S.; SADOVNICHIY, V.V.; BUZUK, A.A.

Two-stage method for winning deeply lying peat with a high-bitumen content. Trudy Inst. torf. AN BSSR 6:527-531 '57. (MIRA 11:7)

(Peat) (Bitumen)

KOSTYUK, N.S.

Research on milled peat at the Peat Institute of the Academy of Sciences of the White Russian S.S.R. Torf.prom. 35 no.2:28 '58. (MIRA 11:5)

1. Rukovoditel' laboratorii Instituta torfa AN BSSR.
(Peat)

KOSTYUK, N.S.; BUZUK, A.A.; SOLOV'YEV, Ye.M.

Fractional composition of milled peat in the course of the technological operations of drying and harvesting. Trudy inst. torf. AN BSSR 8:106-113 '59. (MIRA 13:12)
(Peat--Drying) (Peat--Harvesting)

KOSTYUK, N.S.; BUZUK, A.A.

Mechanical properties of milled peat during storage. Report No.1.
Trudy inst. torf. AN BSSR 8:138-146 '59. (MIRA 13:12)
(Peat--Storage)

KOSTYUK, N.S., kand. tekhn. nauk

Basic indices of the operation of the Usiazh, Lukskiy, Buchmany, and Tootsi peat briquet factories in 1957-1958. Torf. prom. 36 no.5:17-18 '59. (MIRA 13:1)

1.Institut torfa AN BSSR.
(Briquets (Fuel)) (Peat)

OSADCHIY, Ye.A.; KOSTRUK, N.S.

Moisture of peat deposits of [illegible] plots. Trudi I [illegible] (MIRA [illegible])
BSSR. 9:30-[illegible] '60.
(Peat--Drying)

OSADCHIY, Ye.A.; KOSTYUK, N.S.

Drain of rain water from the surface of profiled plots. Trudy Inst. torf. AN BSSR 9:39-42 '60. (MIRA 14:2)
(Peat) (Drainage)

KOSTYUK, N.S.; SHADURSKIY, P.A.

Investigation of certain properties of mil[illegible] peats in hi[illegible] ...
Trudy Inst. torf. AN BSSR 9:5[illegible]-55 '60. (MIRA 14:2)
(Peat)

KOSTYUK, N.S.; KUZNETSOVA, S.A.

Moisture and intensity of the drying of milled peat from different fractions. Trudy Inst. torf. AN BSSR 9:83-96 '60. (MIRA 14:2)
(Peat--Drying)

KOSTYUK, N.S.; MANENKOVA, Ye.K.

Preliminary data on the effect of storing and warming of milled peat on its briquetting. Trudy Inst. torf. AN BSSR 9:87-90 '60.
(MIRA 14:2)

(Peat) (Briquets (Fuel))

NAUMCHIK, A.K., inzh.; KOSTYUK, N.S., kand.tekhn.nauk

Some date on the manufacture of peat semibriquets at the Chist' peat works. Torf.prom. 37 no.1:30-31 '60.
(MIRA 13:6)

1. Torfopredopriyatiye Chist' (for Naumchik).
2. Institut torfa AN BSSR (for Kostyuk)
(Peat)

GURVICH, G.TS., red.; KOSTYUK, N.S., red.; PASHKEVICH, O.N., red.

[Economics of the peat industry]Ekonomika torfianoi promyshlennosti. Minsk, Akad. nauk BSSR, 1961. 364 p.
(MIRA 15:9)

1. Akademiya nauk BSSR, Minsk. Instytut ekonomiki.
(Peat industry)

KOSTYUK, N.T.

History of the development of the materialistic theory of cells.
Nauk. zap. Kyiv. un. 15 no.11:145-154 '56. (MIRA 11:5)
(Cells) (Science--Philosophy)

KOSTYUK, N. E. LAPPA, P.E.

Mine Timbering

Withdrawing metal supports from exhausted mines. Ugol' 27 no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1958, Uncl.

RODBORT, S.S., inzhener, (g. Stalino).; KOSTYUK, N.Ye., inzhener, (g. Stalino).

Analysis of the performance efficiency of coal cutter loaders with lengthened bars as used in the Donets Basin mines. Ugol' 31 no.10: 28-30 O '56. (MLRA 9:11)
(Donets Basin--Coal mining machinery)

KOSTYUK, O.

Kostyuk, O. " A glauconite site in the Belaya River Basin in the Northern Caucasus," Sbornik nauch. rabot stu entov (Rost. n/d gos. un-t im. Molotova), Issue 1, 1949, p. 112-116 --- Bibliog: 7 items

SO: U-3566, 15 March, 1953 (Lenopis 'Zhurnal 'nykh Stately, No. 14, 1949).

MATSELKO, V.N.; KHRIPTA, I.I.; KOSTYUK, O.I.; YAROSH, B.I.

Medynichi, a new gas field. Neft. i gaz. prom. no.2:13-16 Ap-Je '63. (MIRA 17:11)

1. Trest "L'vovneftegazrazvedka" (for Matselko, Khripta, Kostyuk). 2. Institut geologii goryuchikh iskopayemykh AN UkrSSR (for Yarosh).

YAROSH, B.I.; YAROSH, Ye.N.; VITRIK, S.P.; KHRIPTA, I.I.; KOSTYUK, O.I.

Features of the geological structure and oil and gas potential of the Kokhanovka-Svidnitsa oil field. Neftegaz. geol. i geofiz. no.6:3-8 '64. (MIRA 17:8)

1. Institut goryuchikh iskopayemykh AN UkrSSR, Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut i trest "L'vovnefte-gazrazvedka".

KOSTYUK, O.M.

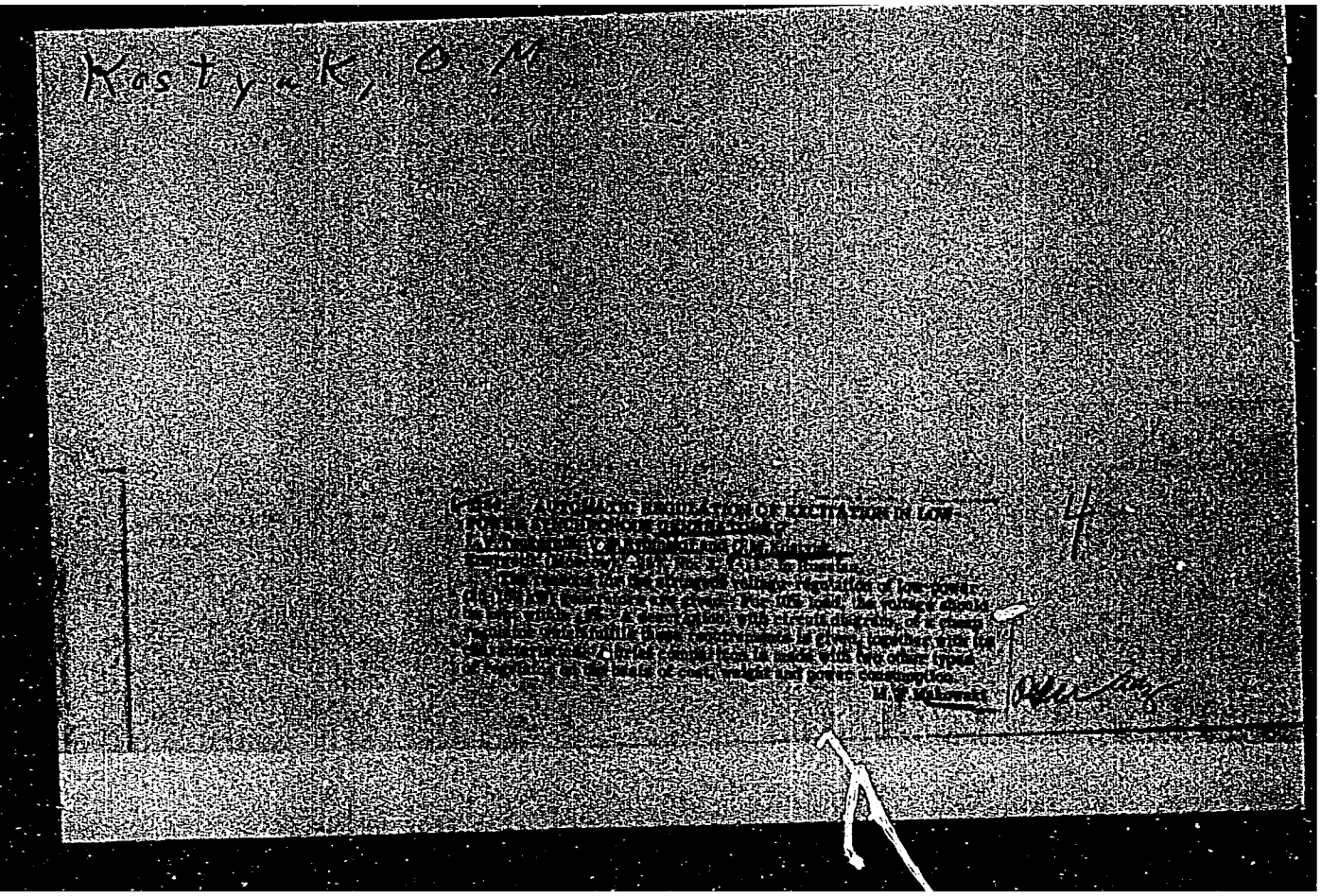
Experimental investigation of the dynamic regimes of synchronous generators with rapid action automatic control of excitation. Avtomatyka no.1:27-37 '57. (MLRA 10:5)

1. Institut elektrotekhniki AN URSR.
(Electric generators)

KOSTYUK, O.M.

Automatic voltage regulator of the UBK type. Avtomatyka no.1: 95-98 '57. (MLRA 10:5)

1. Institut elektrotekhniki AN URSR.
(Voltage regulators)



[redacted], G.V., Cand Tech Sci --(diss) "Automatic Regulation of excitation of synchronous engines with the help of controlled phase compounding." Kiev, 1958. 16 pp with graphs (Min of Higher Education UkSSR. Kiev Order of Lenin Polytech Inst), 100 copies (KL,31-59, 111)

KOSTYUK, O.M.

Current transformers with superposed magnetization by direct current and special features in their design for automatic control circuits in the excitation of synchronous generators. Sbor. trud. Inst. elektrotekh. AN URSR no.16:135-152 '59. (MIRA 12:9)
(Electric transformers) (Electric generators)

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C 111/ C 333

AUTHOR: Kostyuk, O. M.

TITLE: Correction for Temperature, Hysteresis Loop and Nonlinearity in Automatic Control Systems with the Help of Ordinary Feedbacks

PERIODICAL: Avtomatika, 1960, No. 3, pp. 1-6

TEXT: Let the static characteristic of an essentially non-linear or unstable term be written in the form

(1) $U_o = \alpha U_i + e(\lambda)$,

where U_o and U_i are the output and input coordinates, α is a proportionality factor and $e(\lambda)$ the deviation of the characteristic from the linear curve. Since then it is

(2) $e(\lambda) = U_o - \alpha U_i$,

$e(\lambda)$ can be measured with the aid of two feedbacks of opposite sign. Let for instance the system of figure 2

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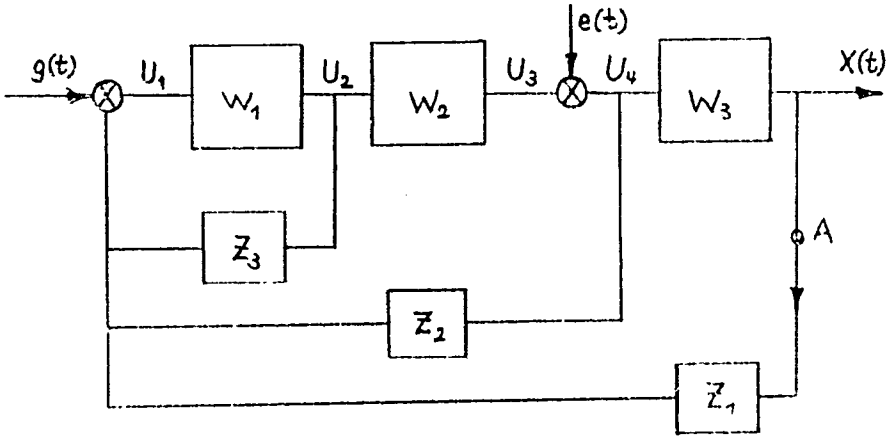
Correction for Temperature, Hysteresis Loop and Nonlinearity in Automatic Control Systems With the Help of Ordinary Feedbacks



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Correction for Temperature, Hysteresis Loop and Nonlinearity in Automatic Control Systems With the Help of Ordinary Feedbacks

possess a term W_2 with an unstable characteristic of type (1). The equations of the system then are

(3) $U_1 = Z_1(p)\,X(t) + Z_2(p)\,U_4 + Z_3(p)\,U_2 + g(t)$, $U_2 = W_1(p)\,U_1$,

$U_3 = W_2(p)\,U_2$, $U_4 = U_3 + e(t)$, $X(t) = W_3(p)\,U_4$.

From this it follows

$$(4)\quad X(t) = \frac{W_3(p)\left[1-W_1(p)Z_3(p)\right]e(t)+W_1(p)W_2(p)W_3(p)g(t)}{1-W_1(p)\left[W_2(p)W_3(p)Z_1(p)+W_2(p)Z_2(p)+Z_3(p)\right]}\,.$$

The system is invariant with respect to e(t), if it is chosen

$$(6)\qquad Z_3(p) = \frac{1}{W_1(p)}\,.$$

Here it must be $Z_2(s) \neq 0$, for if the system is cut open in A and if g(t) and e(t) are disconnected, then the transmission function of the arising open chain (if (6) is satisfied) is

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KOSTYUK, O.M. (Kiyev)

Experimental determination of the time constants of nonlinear elements of the first order. Avtomatyka no.4:74-77 '60.
(MIRA 13:11)
(Automatic control)

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16.8000 (1121, 1132, 1329)

AUTHOR: Kostyuk, O.M. (Kyyiv)

TITLE: Equivalence condition between differential control systems and systems controlled by noises

PERIODICAL: Avtomatyka, no. 1, 1961, 26-31

TEXT: A differential feedback system (with respect to the input- and output variable of the controlled element) is considered which satisfies the equivalence condition as defined by the author (Ref. 1: Korektsiya po temperaturi, petli gisterezisy ta neliniynosti v sistemakh avtomatychnogo regulyuvannya za dopomogoyu zvychaynykh zvorotnykh zv'yazkiv, Avtomatyka, no. 3, 1960) and also by Eq. (7) below. It is shown that if the equivalence condition holds absolutely, the differential feedbacks are equivalent to a so-called compound circuit of the directly measured noises, and if the equivalence applies to steady state conditions only, then the differential feedbacks assume, with respect to the controlled variable, the additional

Equivalence condition...

quality of flexible (adaptive) feedback. The circuit diagram of Fig. 1 is considered, Y_1 and Y_2 denote two units, n and m - feedbacks, Φ - the controlled variable, Ψ - the controller function, λ - a noise, Σ and M - input variables. The control law is given by

$$\Sigma = \Psi + n(p)M + m(p)\Phi, \qquad (1)$$

where n(p) and m(p) are operator polynomials whose form is analogous to that of transfer functions. For Φ one obtains

$$\Phi = \frac{Y_1(p)Y_2(p)\Psi + [1 - n(p)Y_1(p)]\beta\ (p)\lambda}{1 - n(p)Y_1(p) - m(p)Y_1(p)Y_2(p)}. \qquad (4)$$

From Eq. (4) follows that Φ will be independent of the noise λ if the invariance condition

$$1 - n(p)Y_1(p) = 0, \qquad (5)$$

holds. In the particular case

$$n(p) + m(p)Y_2(p) = 0, \qquad (7)$$

which represents the equivalence condition, one obtains

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Equivalence condition...

$$\Phi = Y_1(p)Y_2(p)\Psi + [1 + m(p)Y_1(p)Y_2(p)]\beta(p)\lambda. \qquad (9)$$

To Eq. (9) correspond the compound circuit with directly measured noise, as shown in Fig. 2. In such a circuit, the noise λ is fed to Y_1 by m, this process depending on the transfer function of m only. It is noted that the invariance condition can be written in the form

$$1 + m(p)Y_1(p)Y_2(p) = 0, \qquad (13)$$

for systems which are described by Eq. (9). Conditions (5) and (13) differ by the fact that (13) applies to linear systems only, (or to systems whose nonlinear networks compensate each other). If condition (5) holds for steady state, the sum $\Psi + m(p)\Phi$ is identically zero. This means that the output power of Ψ is zero in the steady state, irrespective of the condition of the controlled element, i.e. the controller function in steady-state conditions is assumed exclusively by the feedback with respect to n. This could be (in the author's opinion) of great practical importance, as it would allow

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