

SARMEEV, M. A.

Povyshenie proizvoditel'nosti truda pri rabote na tokarnom stanke [Raising the productivity of labor in work on a lathe]. Leningrad, 1952. 176 p.

SO: Monthly List of Russian Accessions, Vol 6 No 4, July 1953

SERGEYEV M.A.; NIKITIN, P.S.; ANSEROV, M.A., kandidat tekhnicheskikh nauk,
dotsent, redaktor.

[Working place layout and accident prevention] Organizatsiia rabocheho mesta i tekhnika bezopasnosti. Pod obshchei redaktsiei M.A. Anserova. Moskva, 1953. 37 p. (Bibliotekhka tokaria-novatora, no.10) (MLRA 7:3) (Machine-shop practice--Safety measures) (Factories--Design and construction)

SERGAYEV, M.A., inzhener; BLYUMBERG, V.A., kandidat tekhnicheskikh nauk;
BORTKEVICH, G.S., tokar'-novator, laureat Stalinskoy premii; TRUTNEV,
V.N., tokar'-novator laureat Stalinskoy premii; ANSEROV, M.A., kandi-
dat tekhnicheskikh nauk, dotsent; OGLOBLIN, A.N., redaktor, dotsent

[Experience of innovator lathe operators in machining standard parts]
Opyt tokarei-novatorov po obrabotke tipovykh detalei. Pod obshchei
redaktsiei M.A.Anserova. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroit. i sudostroit. lit-ry, 1953. 124 p. (Bibliotekhka tokaria-
novatora, no.8) (MLRA 7:7)
(Turning)

SERGEYEV, M.A.

BLYUMBERG, V.A.; SERGEYEV, M.A.; YEMEL'YANOVA, Ye.V., redaktor; RODCHENKO, N.I., tekhnicheskiy redaktor

[Raising labor productivity in work on planing and slotting machines] Povyshenie proizvoditel'nosti truda pri rabote na strogal'nykh i dolbeznykh stankakh. [Leningrad] Leningradskoe gazetno-zhurnal'noe knizhnoe izd-vo, 1953. 125 p. [Microfilm] (MLRA 7:10)
(Machine-shop practice)

BELYAEV, G.S.; PAZYUK, Ye.I.; ~~SERGEYEV, M.A.~~, red.; RODCHENKO, N.I., tekhn.
red.

[Efficiency promotion and inventing at Leningrad machinery plants;
mashing of parts] Ratsionalizatsiia i izobretatel'stvo na machino-
stroitel'nykh zavodakh Leningrada; mekhanicheskaiia obrabotka.
[Leningrad] Leningr. gazetno-zhurnal'noe i knizhnoe izd-vo, 1955.
78 p. (MIRA 11:8)

(Leningrad--Machine-shop practice)
(Metal cutting)

BELYAEV, G.S.; PAZYUK, Ye.I.; SERGEYEV, M.A., red.; RODCHENKO, N.I., tekhn.
red.

[Efficiency promotion and inventing at Leningrad machinery plants;
bench and assembly work] Ratsionalizatsiia i izobretatel'stvo na
mashinostroitel'nykh zavodakh Leningrada; slesarno-sborochnye
raboty. [Leningrad] Leningr. gazetno-zhurnal'noe i knizhnoe
izd-vo, 1955. 86 p. (MIRA 11:8)

(Leningrad--Machine-shop practice)

BLYUMBERG, V.A., kandidat tekhnicheskikh nauk; SERGEYEV, M.A., inzhener

Popularizing the experience of industrial innovators. Vest.mash.
35 no.7:29-34 J1'55. (MIRA 8:10)

(Machine-ship practice)

SERGEYEV, Mikhail Afanas'yevich; YRGOROV, B.A., inzhener, retsenzent;
REZNITSKIY, L.M., kandidat tekhnicheskikh nauk, redaktor; POL'SKAYA,
R.G., tekhnicheskiiy redaktor

[Increasing the labor productivity of mechanics and fitters] Povyshe-
nie proizvoditel'nosti truda pri slesarnykh i sborochnykh rabotakh.
Moskva, Gos. nauchn-tekhn. izd-vo mashinostroit. lit-ry, 1956. 287 p.
(Machine-shop practice) (MLRA 9:11)
(Machinery industry)

SERGEYEV, Mikhail Afanas'yevich; CHERVOVA, M.S., red.; SMIRNOV, P.S., tekhn.
red.

[High-production technology in fitting work] Vysokoproizvoditel'-
naia tekhnologia slesarno-sborochnykh rabot. [Leningrad] Lenizdat,
1957. 121 p. (MIRA 11:7)

(Machine-shop practice)

BLYUMBERG, V.A.; ~~SERGEYEV, M.A.~~; BORSHCHINSKAYA, S.I., redaktor; LEVONEVSKAYA,
L.G., tekhnicheskij redaktor

[Increasing productivity in work with boring machinery] Povyshenie
proizvoditel'nosti pri rabote na rastochnykh stankakh. [Leningrad]
Lenizdat, 1957. 129 p. (MLRA 10:9)
(Drilling and boring)

BLYUMBERG, Vitaliy Al'bertovich; SERGEYEV, Mikhail Afanas'yevich; ANSEROV, M.A., kand.tekhn.nauk dots., red.; LOMACHENKOV, S.Ye., inzh., red.; BORODULINA, I.A., red.izd-va; POL'SKAYA, R.G., tekhn.red.

[Machining parts on lathes] Obrabotka detalei na tokarnykh stankakh. Pod obshchei red. M.A.Anserova. Izd. 2-oe, perer. i dop. Moskva, Gos. nauchno-tehnicheskoe izd-vo mashinostroit. lit-ry, 1958. 181 p. (Bibliotekha tokaria-novatora, no.5) (MIRA 11:5)
(Turning)

SERGEYEV, Mikhail Afanas'yevich, NIKITIN, Pavel Sergeyevich, [deceased],;
ANSEROV, M.A., kand. tekhn. nauk, dots., red.; AZAROV, A.S., kand.
tekhn. nauk, dots., red.; LEYKINA, T.L., red. izd-va.; POL'SKAYA, R.G.,
tekhn. red.

[Organization of work areas and safety engineering] Organizatsiia
rabochego mesta i tekhnika bezopasnosti. Izd. 2., dop. i. perer.
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958.
52 p. (Bibliotekha tokaria-novatora, no. 10). (MIRA 11:11)
(Industrial safety)
(Machine-shop practice)

BLYUMBERG, V.A.; SERGEYEV, M.A.; KROPIVNITSKIY, N.N., inzh., retsenzent;
LIBKIND, M.M., inzh., retsenzont; BARSKIY, M.E., inzh., red.;
VARKOVETSKAYA, A.I., red.izd-va; SPERANSKAYA, O.V., tekhn.red.;
DLUGOKANSKAYA, Ye.A., tekhn.red.

[Operator of boring and turning lathes] Tokar'-karnusel'shchik.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959.
422 p. (MIRA 12:11)

(Lathes)

SERGEYEV, Mikhail Afanas'yevich; PCHELKIN, Yu.V., red.; PRESNOVA, V.A.,
tekh. red.

[Mechanization and automation of fitting and assembling operations] Mekhanizatsiia i avtomatizatsiia slesarno-sborochnykh
rabot. Leningrad, Lenizdat, 1962. 331 p. (MIRA 16:2)
(Machine-shop practice) (Automation)

DESHEVOY, G.M.; MIROSHNICHENKO, B.Ya.; LASTOCHKIN, S.V. Primali
uchastiye: BURDIN, N.K.; GUDKOV, N.M.; SERGEYEV, M.A., inzh.,
retsenzent; YAKOVITSKIY, G.N., red.; LEYKINA, T.L., red. izd-
va; KUREPINA, G.N., red. izd-va; SHCHETININA, L.V., tekhn. red.;
SPERANSKAYA, O.V., tekhn. red.

[Manual for a lay-out mechanic] Spravochnik razmetchika-
mashinostroitelia. Moskva, Mashgiz, 1962. 375 p. (MIRA 16:1)
(Laying-out (Machine-shop practice))

SERGEYEV, Mikhail Afanas'yevich; GUSHCHIN, V.F., inzh., retsenzent;
KHARCHENKO, K.S., red.; DENINA, I.A., red. izd-va;
SHCHETININA, L.V., tekhn. red.

[Increasing labor productivity in fitting and assembling
work] Povyshenie proizvoditel'nosti truda pri slesarnykh i
sborochnykh rabotakh. Izd.2., perer. i dop. Moskva, Mash-
giz, 1963. 294 p. (MIRA 16:7)
(Machine-shop practice--Production methods)

GRINBERG, D.Ye.; Primal uchastiye SERGEYEV, M.A., inzh.;
VASIL'YEVA, V.P., red. izd-va; BARDINA, A.A., tekhn.
red.

[Lay-out man in machine shops] Razmetchik mekhanicheskikh
tsekhov. Izd.2., perer. i dop. Moskva, Mashgiz, 1963.342 p.
(MIRA 17:2)

SERGEYEV, N.A.; ZHURAVLEV, S.A., kand. tekhn. nauk, red.

[Organization of the working area of a milling-machine operator and safety measures] Organizatsiia rabocheho mesta frezerovshchika i tekhnika bezopasnosti. Moskva, Mashinostroenie, 1964. 84 p. (Bibliotekhka frezerovshchika, no.9) (MIRA 18:5)

SERGEYEV, M. A.

Min Higher Education USSR. Leningrad Inst of Precision Mechanics and Optics.

SERGEYEV, M. A. - "Investigation of a two-stage gyrocompass with spherical air supports." Min Higher Education USSR. Leningrad Inst of Precision Mechanics and Optics. Leningrad, 1956.

(Dissertation for the Degree of Candidate in Technical Sciences.)

SO: Knizhnaya Letopis' No. 13, 1956.

SERGEYEV, M.A.

Two-stage gyrocompasses used as direction indicators. Priberestroenie
no.2:21-22 P '57. (MIRA 10:4)

(Gyrocompass)

13,2100 ³⁰⁰²

83687
S/124/60/000/008/002/011
A005/A001

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 8, p. 7, # 9797

AUTHOR: Sergeyev, M. A.

9

TITLE: On the Rotary Motion in a Gyrocompass

PERIODICAL: V sb.: Vopr. teorii i rascheta giropriborov i priborov tochn. mekhan. (LITMO, No. 36). Leningrad, 1958, pp. 45-53

TEXT: The investigation of the motion of the responsive elements of the two-stage- and single-stage pendulum gyrocompasses is described; the case is considered, that the angle between the vector of the kinetic gyroscope moment H and the axis of revolution of the responsive element differs from the right angle by the angle β and that a certain external moment M is applied to the gyrochamber in consequence of its non-tightness; M is assumed to be acting around the revolution axis of the rotor of the gyromotor. The author applies the qualitative integration method and considers the possible steady precession motions of the responsive element relative to the meridian plane. The device preserves its properties of gyrocompass as long as $|\beta| < |\beta^*|$ ($\beta^* = \text{arctg}(H\omega/M)$),



Card 1/2

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On the Rotary Motion in a Gyrocompass

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A005/A001

where ω is the horizontal component of the angular velocity of the diurnal Earth's rotation); the equilibrium position of the responsive element depends on the relative magnitude of the angle β . When $|\beta| > |\beta^*|$, the device loses its properties as gyrocompass, and the responsive element rotates with variable angular velocity relative to the precession axis. A steady limiting cycle in the cylindric phase surface corresponds to every steady rotation motion. There are misprints.

G. A. Slomyanskiy

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

SERGEYEV, M.A., kand. tekhn. nauk

Motion of the sensing element of gyrocompasses with variable kinetic moment. *Izv. vys. ucheb. zav.; prib. no. 3:49-59 '58.*
(MIRA 12:2)

1. Leningradskiy institut tochnoy mekhaniki i optiki.
(Gyrocompass)

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SOV/146-58-5-11/24

AUTHOR: Sergeyev, M.A., Candidate of Technical Sciences

TITLE: A Swimming Two-Stage Gyrocompass with Precision Axle Bearing

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Priborostroyeniye, 1958, Nr 5, pp 69-75 (USSR)

ABSTRACT: This article investigates the movement of the sensitive part of a swimming two-stage gyrocompass with precision axle bearing. At the same time its accuracy is compared with that of a pendulum gyrocompass. The advantages of the swimming two-stage gyrocompass with elastic precision axle bearings over the two-stage gyrocompass with air axle bearing are particularly emphasized. Not only the vertical but also the horizontal movements of the gyrocompass are taken into consideration. Figure 1 shows diagram of the swimming two-stage gyrocompass with ball bearings. Figure 2 contains the angles which determine the position of the instrument body. Table 1 explains the cos of the small angles between the axle of the system of coordi-

Card 1/2

4

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SOV/146-58-5-11/24

A Swimming Two-Stage Gyrocompass with Precision Axle Bearing

ates. Figure 3 contains the angles which determine the position of the sensitive part of the instrument. Table 2 like table 1 contains the cos of the small angles between the axes of the system of coordinates. When comparing the results (4 and 5) the author finds that due to the non-vertical position of the precision axle, the two-stage gyrocompass does not indicate as exactly as the simple pendulum compass. Finally, hints are given on how errors can be reduced, if the precision axle does not stand vertically. There are 3 diagrams, 2 tables and 3 Soviet references.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki
(Leningrad Institute of Fine Mechanics and Optics)

Card 2/2

SERGEYEV, M. A. (Candidate of Technical Sciences) (Litmo)

"Two Degree Gyrocompass with a Proportional Characteristic of the Recovering Torque and with a Zone of Insensitivity"

paper presented at the Second Scientific and Technical Intervuz Conference on Problems of Contemporary Gyroscopy, Ye, F. Otvagin, Secretary of the Organization Committee; Leningrad, Izvestiya Uchebnykh Zavedeniy, Priborostroyeniye, No. 5, Sep/Oct 1958, pp 161-163

The Second Intervuz Conference on Problems of Contemporary Gyroscopy Technique, convoked by decision of the Ministry of Education USSR, took place in the Leningrad Institute of Precision Mechanics and Optics from 24 to 27 November 1958.

24(5) SOV/146-58-6-3/16
AUTHOR: Sergeyev, M.A., Candidate of Technical Sciences
TITLE: Two-Stage Gyroscopic Compass with Proportional Characteristic of Re-Establishing Moment and Zone of Insensitivity
PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Priborostroyeniye, 1958, Nr 6, pp 23-32 (USSR)
ABSTRACT: Soviet industry has worked out two types of gyroscopic compass to be used on an immovable chassis, that is, on land. The author analyzes all the possible kinds of sensitive component movements of the compass that depend on the location of its center of gravity in respect to the volume center, and on the inclination of its axle in the meridian plane. By using three different coordinates systems, he had made the corresponding computations and arrived to the formulae that express the friction moments of the compass sensitive components as follows: $M_x = k\beta$; $M_y = -k\alpha$ (Diagram 2), where k is coefficient of friction; α β - angles deter-

Card 1/3

SOV/146-58-6-3/16

Two-Stage Gyroscopic Compass with Proportional Characteristic of Re-Establishing Moment and Zone of Insensitivity

mining position of the sensitive components. Research of the two-stage gyroscopic compass permitted drawing of the following deductions: if we designate the moment of gravitational force by P , the moment of lifting force by Q , the coordinates of the center of gravity by l , and the coordinates of the center of volume by L , we can conclude that: 1) the swing period of the sensitive component in azimuth depends at $QL - Pl > 0$ on the inclination angle of the precession axle in the meridian plane, as well as on its swing amplitude in azimuth; 2) when $QL - Pl < 0$, the Z axle of the sensitive component, which lies along the vector of kinetic moment, has both the stable and unstable positions; 3) in order to obtain the minimum period of swing of the sensitive component in azimuth, such precession supports are to be used which secure the characteristic of the resilient re-establishing moment without the zone of insensitivity.

Card 2/3

Two-Stage Gyroscopic Compass with Proportional Characteristic of
Re-Establishing Moment and Zone of Insensitivity

SOV/146-58-6-3/16

There are 2 tables and 6 diagrams.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki
(Leningrad Institute of Precision Mechanics and
Optics)

SUBMITTED: September 30, 1958

Card 3/3

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A005/A001 82173

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 1, p. 11, # 101

AUTHOR: Sergeyev, M. A.

TITLE: The "Generalized" Resonance in a Gyroscopic Compass ⁹

PERIODICAL: Nauchn. tr. Leningr. in-t tekhn. i optiki, 1958, No. 32, pp. 116-132

TEXT: The motion of the responsive element of a two-degree gyroscopic compass is studied with allowance for the elasticity of the air ball bearings.⁷ The compass precession axis is considered to be oriented not strictly vertical, and the kinetic moment to be varying according to the harmonic law. Basing on these assumptions, the author derives the differential equations of the gyroscopic compass motion and shows that the motion of the gyroscope axis in the azimuth will be composed of natural and forced oscillations. As generalized resonance the author defines the case that the frequency of the free undamped oscillations of the responsive element is close to the frequency of kinetic moment oscillations. Results from experimental studies are added; the voltage of the three-phase current feeding the gyromotor was varied periodically by 50% of its magnitude with a period of 35 ± 1 second.

Card 1/1

D. R. Merkin

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SERGEYEV, M.A., kand.tekhn.nauk

Floated simple pendulum gyrocompass suspended on a core support.
Izv.vys.ucheb.zav.; prib. no.3:50-56 '59. (MIRA 13:4)

1. Leningradskiy institut tochnoy mekhaniki i optiki. Rekomendovana kafedroy giroskopicheskikh i navigatsionnykh priborov.
(Gyrocompass)

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SOV/146-2-4-10/19

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AUTHOR: Sergeyev, M.A., Candidate of Technical Sciences

TITLE: The Effect of Temperature Variation of the Supporting Liquid on the Indication of a Float Gyrocompass _q

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye, 1959, Nr 4, pp 77-84 (USSR)

ABSTRACT: The article deals with the float gyrocompass (land compass) constructed at the Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut (VNIMI) (The All-Union Scientific Research Surveying Institute). The center of the sensitive element of the gyrocompass (Figure 1) does not coincide with the suspension point, and when the liquid temperature changes, and consequently the liquid's lifting force and density, a perturbation moment is generated which distorts the regular oscillations (Figures 3 and 4) of the sensitive element in the azimuth, and ✓

Card 1/3

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SOV/146-2-4-10/19

The Effect of Temperature Variation of the Supporting Liquid on the Indication of a Float Gyrocompass

causes error in the gyrocompass indication. The motion of the sensitive element is investigated theoretically with a coordinate system $O\xi\eta\xi$ (Figure 2) which is oriented geographically. It is assumed that the temperature variation affects the lifting force only. The results show that in order to attain a higher accuracy of the float gyrocompass, 1) the temperature of the supporting liquid should be stabilized in such a way that the oscillation frequency of the lifting force be not equal or close to the free undamped oscillations and the double frequency of the damped oscillations of the sensitive element; 2) the damping moment should be increased in order to reduce the sensitive element oscillations. The article was recommended by the Kafedra navigatsionnykh i giroskopicheskikh priborov (The Chair of

Card 2/3

67469

SOV/146-2-4-10/19

The Effect of Temperature Variation of the Supporting Liquid on the Indication of a Float Gyrocompass

Navigationnal and Gyroscopic Instruments). There are 2 graphs, and 2 diagrams.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (The Leningrad Institute of Precision Mechanics and Optics).

SUBMITTED: August 22, 1959

Card 3/3

69341

SOV/123-59-20-83759

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 20, p 179 (USSR)

1.1000
AUTHOR: Sergeyev, M.A.

TITLE: "Generalized" Resonance In Gyroscopic Compasses

PERIODICAL: Nauchn. tr. Leningr. in-t tochnoy mekhan. i optiki, 1959, Nr 32,
pp 116 - 132

ABSTRACT: The author states the results of investigations which were carried out to study the motion of sensitive elements of gyrocompasses with two degrees of freedom (two-stage gyrocompass) and of the ordinary pendulum gyrocompass, when the kinetic moment varies according to a periodical law. The conditions are shown, under which a "generalized" resonance appears in the mentioned gyroscopic compasses, and its effect on the reading accuracy of the two-stage and the ordinary pendulum gyrocompass mounted on a stationary basis.

Sh.S.A.

Card 1/1

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A004/A101

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25540

AUTHOR: Sergeyev, M. A.

TITLE: Gyroscopic compass with two degrees of freedom on air bearings

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 11, 1961, 22, abstract 11D149 (V sb. "1-ya Mezhvuz. nauchno-tekhn. konferentsiya po probl. sovrem. giroskopii". Leningrad, 1960, 10-19)

TEXT: The author investigates a two-degree gyroscopic compass on air bearings, developed by the Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut (All-Union Scientific Research Institute of Mining Surveying) together with the Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics) for utilization in underground surveying. Owing to the elasticity of the air bearings of the precession axle during oscillations of the sensitive element in the azimuth, small angular oscillations of it can be also observed over the height, which has to be taken into account during the investigations. The author presents experimental data on the oscillations of the sensitive element (damping, sustained, outgoing and aperiodic oscillations) in the azimuth at different magnitudes of lateral pendulum action. It is pointed out

Card 1/2

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S/123/61/000/011/026/034
A004/A101

Gyroscopic compass with two degrees ...

that temperature fluctuations of the sensitive element with gyroscopic motor without temperature compensation in the range of 15 - 20°C practically do not affect its position in the azimuth. In order to reduce the errors caused by the non-verticality of the precession axle, the sensitive element parameters are selected in such a way that the ratio of the sensitive element weight to the kinetic moment amounts to not less than 0.1 cm⁻¹sec⁻¹; the setting of the precession axle in the vertical position should be effected with an accuracy of not less than 30". The accuracy to be expected in the determination of the gyroscopic azimuth of the direction to be oriented with the aid of such a gyroscopic compass is in the range of 3-4'. There are 7 figures.

N. Rogov

[Abstracter's note: Complete translation]

Card 2/2

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S/146/60/003/05/01/001
B019/B054

24.4300

AUTHOR:

Sergeyev, M. A.

TITLE:

Two-stage Gyrocompass⁹ With Supports on the Bearings

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye,
1960, Vol. 3, No. 3, pp. 59 - 65

TEXT: The theoretical investigation of the motion of the sensitive element of a floating two-stage gyrocompass with supports of the precession axis on the bearings shows that - with a location of the center of gravity of the sensitive element below its volume center - the vibration period depends on the amplitude in the azimuth and on the inclination angle of the precession axis in the plane of the meridian. If the center of gravity lies above the volume center, it is possible to obtain stable and unstable equilibrium positions in dependence on the direction of the precession axis in the plane of the meridian. It is shown that for a minimum vibration period of the sensitive element those supports of the precession axis must be used which guarantee the characteristics of the restoring moment without instability. The publication of this

Card 1/2

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Two-stage Gyrocompass With Supports on the Bearings

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B019/B054

article was recommended by the Orgkomitet vtoroy nauchno-tekhnicheskoy konferentsii po problemam sovremennoy giroskopii (Organization Committee of the Second Scientific-technical Conference of the Institutes of Higher Learning on Problems of Modern Gyroscopy). There are 5 figures.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki
(Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: February 25, 1960

Card 2/2

²⁹⁶¹¹¹
S/146/61/004/004/008/015
D201/D306

13.2520

AUTHORS: Il'yin, P.A., and Sergeyev, M.A.

TITLE: The effect of base vibration on the indications of a gyroscope with two degrees of freedom

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priboro-stroyeniye, v. 4, no. 4, 1961, 53 - 60

TEXT: In the theoretical part it is assumed that the base and body vibrations are actually identical which means that as a result of body vibrations, the sensing element is affected by the base vibrations component perpendicular to the precession axis. It is shown that the oscillations of the sensing element with respect to the z-axis do not affect its azimuthal movement. M is the moment applied to the sensing element in the plane perpendicular to the axis of precession and varies according to $M = m \sin pt$; $m_1 = m \cos \theta$; $m_2 = m \sin \theta$, h - the damping factor of the sensing element in the absence of vibrations; μ^2 - the square of the frequency of free

Card 1/5

The effect of base vibration ...

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self-oscillations in the absence of vibrations. The approximate solution of the differential equation. Then becomes

$$\alpha = e^{-ht} \left\{ (\alpha_1 + \nu C_1) \cos nt + \left(\alpha_2 \frac{h}{n} + \nu C_2 \right) \sin nt + \frac{\alpha_e m_2 \nu}{2p} \times \right. \\ \times \left[\frac{M}{2n-p} \cos [(n-p)t + \psi] + \frac{N}{2n+p} \cos [(n+p)t - \delta] \right] \left. \right\} + \\ + \frac{m_1 p \nu \cos (pt - \sigma)}{\sqrt{(\mu^2 - p^2)^2 + 4 p^2 h^2}}$$

It may be seen from this that if damping of the sensing element is provided in the gyro, the oscillations given by the terms in brackets will be damped. After the decay of self oscillations the z-axis oscillates only with forced oscillations. The amplitude of moment m occurring during the vibrations of the base and on angle θ , and on the ratio of frequencies μ and p . To evaluate the magnitude of forced oscillations which introduce the error into the indication of the gyro a numerical example is solved for such a gyro with air cushions. The numerical results show that the base vibration provi-

Card 2/3

29644

S/14c/61/C04/054/008/015
D201/D30b

The effect of base vibrations ...

ded its frequency and amplitude are constant, above a few C/s. does not affect the indications of a gyro with two degrees of freedom, since its period T is seldom less than 50 sec. It is stated that if the vibrations of the base have varying frequency and amplitude, experiments show that the gyroscope cannot be used any more to determine the meridian plane. This article was recommended by the Kafedra giroskopicheskikh i navigatsionnykh priborov (Department of Gyroscopic and Navigational Instruments). There are 3 figures and 1 Soviet-bloc reference.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: December 1, 1961

Card 3/3

u

ACCESSION NR: AP4037472

S/0146/64/007/002/0124/0132

AUTHOR: Sergeyev, M. A.

TITLE: Gyrocompass with an elastic torsional suspension

SOURCE: IVUZ. Priborostroyeniye, v. 7, no. 2, 1964, 124-132

TOPIC TAGS: gyrocompass, torsional gyrocompass, gyro

ABSTRACT: The motion of the sensitive element of the torsion gyrocompass (see Enclosure 1) is described by Lagrange's differential equations of the 2nd kind. A formula for the kinetic energy of the system is analyzed. It is found that the accompanying oscillations are superposed on the fundamental precession motion of the sensitive element, the frequency of the former being higher than that of the precession. Thus, in principle, the accompanying oscillations distort the precession motion in the azimuth and introduce an error into the equilibrium reading. The period of free undamped oscillations can be determined from this

Card 1/3

ACCESSION NR: AP4037472

formula, similar to that for a pendulum-type gyrocompass: $T = 2\pi \sqrt{\frac{I}{PIU \cos \varphi}}$,

where l is the distance between the center of gravity of the sensing element and the point of attachment of the torsional filament. However, the accompanying oscillations, with today's accuracy of land-type gyrocompasses, practically do not distort the precession motion of the sensing element in the azimuth. Orig. art. has: 2 figures, 30 formulas, and 1 table.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Fine Mechanics and Optics)

SUBMITTED: 18Jun63

DATE ACQ: 05Jun64

ENCL: 01

SUB CODE: AG

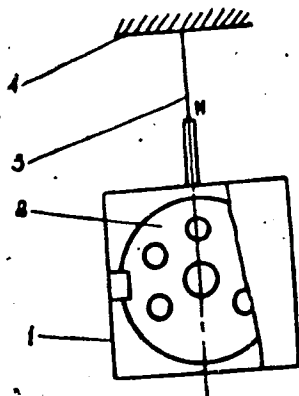
NO REF SOV: 000

OTHER: 000

Card 2/3

ACCESSION NR: AP4037472

ENCLOSURE: 1



A simplified diagram of a torsional gyrocompass

1 - housing; 2 - spin motor; 3 - torsion filament; 4 - frame

Card 3/3

ACCESSION NR: AP4041651

S/0146/64/007/003/0067/0072

AUTHOR: Sergeev, M. A.

TITLE: Effect of vertical variations of a gyrosphere upon the reading of an M-3 gyrocompass

SOURCE: IVUZ. Priborostroyeniye, v. 7, no. 3, 1964, 67-72

TOPIC TAGS: gyrocompass, M-3 gyrocompass, MUG-2 gyrocompass, gyrosphere

ABSTRACT: The important design features of an M-3 or MUG-2 land gyrocompass are shown in Enclosure 1. The negative buoyancy of the sensing element (gyrosphere) is compensated by a magnetic "blow." As a result, the gyrosphere has no mechanical contact with the electrode sphere. The law of motion of the gyrosphere, when the lifting force varies according to an exponential law, is theoretically investigated. In the above gyrocompass types, the perturbed

Card 1/3

ACCESSION NR: AP4041651

motion under lifting-force transient conditions may reach a considerable intensity; hence, the equilibrium condition can be determined only under stable ($\pm 0.2C$) temperature conditions. It is found that the moments of force of inertia, arising when the gyrosphere moves inside the electrode sphere under transient conditions, practically do not affect the above gyrocompasses. Orig. art. has: 2 figures and 31 formulas.

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Fine Mechanics and Optics)

SUBMITTED: 08May63

ENCL: 01

SUB CODE: NG

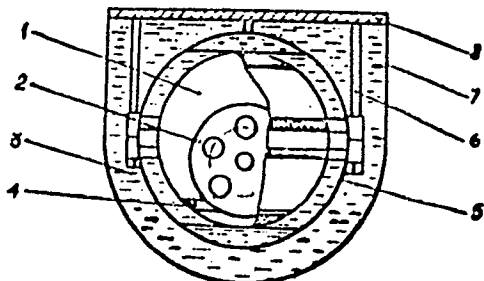
NO REF SOV: 002

OTHER: 000

Card 2/3

ACCESSION NR: AP4041651

ENCLOSURE: 01



A sketch of the M-3 gyrocompass

- 1 - gyrosphere, 2 - spin motor, 3 - supporting liquid,
- 4 - electromagnetic-blow coil, 5 - electrode sphere,
- 6 - holders, 7 - tank, 8 - table

Card 3/3

11. 17. 1951.

MINERAL'NYE BOGATSTVA V SOCHINSKOM OKRUGE CHERNOMORSKOI OBLASTI,
po sisteme reki Nart. S.-Peterburg, 1900. 64 p.

DIC: DK511.05Sh

SO: LS, Soviet Geography, Part II, 1951, Unclassified

СЕРГЕЕВ, Михаил Алексеевич.

СЕРГЕЕВ, Михаил Алексеевич. Кориакский национальный округ. Ленинград, Изд-во Института народов Севера, 1934. 142 п. (Научно-исследовательская ассоциация Института народов Севера. Труды по экономике, Т. 1.)

"Библиография": с. 135-142.

ICU

DLG: RC487.R634

So: LJ, Soviet Geography, Part II, 1951/Unclassified

SERGEEV, MIKHAIL ALEKSEEVICH.

SERGEEV, MIKHAIL ALEKSEEVICH.

Narodnoe khoziaistvo Kamchatskogo kraia. Moskva, AN SSSR, 1936. 815 p.
(Akademia Nauk Soiuza Sovetskikh Sotsialisticheskikh Respublik. Sovet po
izucheniiu proizvoditel'nykh sil.)

"Literatura": p. [799]-[809].
CSt-H

DLC: HC487.K2S4

SO: LC, Soviet Geography, Part I, 1951, Uncl.

SERGEEV, Mikhail Alekseevich.

SERGEEV, Mikhail Alekseevich. Sovetskie Ostrova Tikhogo Okeana. [Leningrad],
Setevaya, Leningradskoe otdelenie, 1938. 280, (2) p.

"Literatura": p. 271-[281].

LCU NN NRC

DEC: BK771.K734

So: LC, Soviet Geography, Part II, 1951/Unclassified

1. SERGEYEV, M.A.
2. USSR (600)
4. Geology and Geography
7. Kuril Islands, M.A. Sergeyev. (Moscow, Geography Press, 1947). Reviewed by Yu. K. Yefremov, Sov. Kniga, No. 2, 1948.


9. Report U-3081, 16 Jan. 1953, Unclassified.

SERGEYEV, M. A.

Sergeyev, M. A. "On the problem of the use of the term 'Extreme North'", Letopis' Severa, 1, 1949, p. 189-208, - Bibliog: 18 items.

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

1. SERGEYEV, M. A.
2. USSR (600)
4. Geology and Geography
7. Selected Works, V. L. Komarov. (Vol. 6 (A Journey in Kamchatka during 1903-1909), Press of Acad Sci USSR, 1950). Reviewed by M. A. Sergeyev, Sov. Kniga, No. 4, 1951.

9.  Report U-3081, 16 Jan. 1953, Unclassified.

1963, No. 1.

Map of the region [F] of the [G] region. [H] 1963, 1964. 196 p.

See: [I] of [J], Vol. 7, No. 4, 1964.

1. SARYEV, M. A.
2. USSR (600)
4. Siberia, Eastern - Discovery and Exploration
7. Trip through Northeastern Siberia, the Arctic Ocean, and the Pacific Ocean.
G. A. Sarychev. Reviewed by M. A. Sergeev. Sov. etn. No. 1, 1953.

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

SERGEYEV, M.A.

"Trip through the Amur region, China, and Japan." M. Venjukov. Reviewed
by M.A. Sergeev. Sov. etn. no. 2:230-235 '53. (MLRA 6:6)
(Far East--Description and travel) (Venjukov, M.I., 1832-1901)

С. А. К. - Е. В. Р. М. П.

SERGEYEV, M.A.; PETRYAYEV, Ye.D.

Alevtina Nikolaevna Orlova (80th birthday and 60th anniversary
of scientific and public activity). Izv.Vses.geog.ob-va 86 no.4:362-363
Jl-Ag '54. (MLRA 7:9)
(Orlova, Alevtina Nikolaevna, 1874-)

BIRKENGOF, A.L.; SERGEYEV, M.A.

Through Siberia; guide for tourists. V.N.Skalon Reviewed by A.L.
Birkengof, M.A.Sergeev. Izv.Vses.geog.ob-va 87 no.1:81-83 Ja-F '55.
(Skalon, V.N.)(Siberia--Description and travel) (MIRA 8:4)

BIRKENGOF, A.L.; SERGEYEV, M.A.

"In the wide latitudes; notes of a naturalist." L.I. Leonov;
"In the Arctic tundra; naturalist's reports." V.M. Sdobnikov.
Reviewed by A.L. Birkengof, M.A. Sergeev. Izv. Vses. geog. ob-va
87 no. 2: 189-190 Mr-Apr '55. (MLRA 8:9)
(Leonov, Leonid Ivanovich, 1895-1952) (Sdobnikov, V.M.)
(Tundras) (Arctic regions)

SERGEYEV, M.A.

PETRYAYEV, Ye.D.; SERGEYEV, M.A.

In memory of A.N.Orlova; obituary. Izv.Vses.geog.ob-va 89 no.1:71- .
72 Ja-F '57. (MLRA 10:3)
(Orlova, Alevtina Nikolaevna, 1873-1956)

7
1
A.

SERG-FYFV, M.A.
AUTHORS: Birkengof, A.L., and Sergeyev, M.A.

12-90-2-22/30

TITLE: Book Reviews (Retsenzii)

PERIODICAL: Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva, 1956,
Vol 90, Nr 2, pp 195 - 197 (USSR)

ABSTRACT: The authors review a book on "The Khanty-Mansi National
Region" by N.M. Kokosov, V.I. Nikulin and V.I. Kharin, pub-
lished by the Ural Branch of the USSR Academy of Sciences, in
1956.

AVAILABLE: Library of Congress

Card 1/1 1. Literature-Review

NOZIKOV, N.; SERGEYEV, M.A., red.; DIVIN, V.A., mayor, red.;
KONOVALOVA, Ye.K., tekhn. red.

[Russian round-the-world navigators] Russkie krugosvetnye
moreplavately. Pod red. i s vstupitel'noi stat'ei M.A.
Sergeyeva. zd.2. Moskva, Voen. izd-vo M-va vooruzhennykh
sil SSSR, 1947. 294 p. (MIRA 15:4)
(Voyages around the world)

SERGEYEV, M.A.; GORDIYENKO, P.A.

Work on the history of the North Sea route. Izv. AN SSSR. Ser.
geog. no.5:142-144 S-0 '63. (MIRA 16:10)

BERGHEIM, Yo. A.; BERGHEIM, P. A.

Renewed publication. Izv. Vses. geogr. obshch. 1961-1962 41- 8
'62. (MIRA 17:10)

SERGEYEV, N. A.

"Investigation of Condenser Butt Welding of Fine Wire." Card Tech Sci,
Ural Polytechnic Inst, Sverdlovsk, 1954. (EZhKhim, No 8, Apr 55)

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

SIUNOV, N.S., doktor tekhnicheskikh nauk, professor; SERGEYEV, M.A.,
kandidat tekhnicheskikh nauk.

Selection of principal parameters of machines for condenser
butt welding. Svar.proizv. no.12:4-6 D '55. (MIRA 9:2)

1.Ural'skiy politekhnicheskii institut imeni S.M.Kirova.
(Electric welding)

SIUNOV, N.S., doktor tekhnicheskikh nauk; SERGEYEV, M.A., kandidat
tekhnicheskikh nauk.

Heat processes in condenser discharge butt welding. Trudy
Ural. politekh. inst. no.62:4-11 '56. (MLRA 10:2)

(Electric welding)

SOV-125-58-10-6/12

AUTHORS: Siunov, N.S., and Sergeyev, M.A.

TITLE: The Origin of the Arc in Butt Condenser Welding (O voznik-
novenii dugi pri stykovoy kondensatornoy svarke)

PERIODICAL: Avtomaticheskaya svarka, 1958, Nr 10, pp 55 - 59 (USSR)

ABSTRACT: The origin of the arc in butt condenser welding is analyzed. On the basis of existing data it is concluded that the major factor of the arc origin is the melting of microprotrusions on the ends of the parts to be welded, and vapor formation of the metal. If there are such vapors in the interelectrode gap, the development of the discharge can be explained on the basis of the thermo-electronic theory of the arc. Stability of the arc depends mainly on the transitional contact resistance. A formula is recommended to calculate the melting coefficient which determines the quantity of the arc heat consumed by burning-out and evaporation of

Card 1/2

SCV-125-58-10-6/12

The Origin of the Arc in Butt Condenser Welding

the metal. An equation is given to determine the speed of the movement of the welding device's movable head which ensures the stability of the arc. There are 4 oscillograms, 1 circuit diagram and 5 Soviet references.

ASSOCIATION: Ural'skiy politekhnicheskii institut im. S.M. Kirova
(Ural Polytechnical Institute imeni S.M. Kirov)

SUBMITTED: May 28, 1958

- | | |
|---------------------------|-----------------------------|
| 1. Electric arcs--Theory | 2. Electric arcs--Stability |
| 3. Arc welding--Equipment | 4. Mathematics |

Card 2/2

SERGEYEV, Mikhail Afanas'yevich; SHESTINSKIY, N.N., red.; CHERNOVA, M.S.,
red.; KONTOROVICH, A.I., tekhn. red.

[Manual of a machinist] Spravochnik slesaria. Pod red. N.N.Shestin-
skogo. Leningrad, Lenizdat, 1961. 415 p. (MIRA 14:10)
(Machine-shop practice)

SERGIYEV, M.A.

Gyrocompass with a flexible torsion suspension. Izv.vys.ucheb.
zav.; prib. 7 no.2:124-132 '64. (MIRA 18:4)

1. Leningradskiy institut technoy mekhaniki i optiki. Rekomendovana kafedroy navigatsionnykh i gireskopicheskikh priborov.

L 55934-65 EEO-2/EWT(d)/FSS-2/EEC(k)-2/EWG(v)/EED-2/EWA(c) Pn-4/Po-4/Pe-5/Pq-4/
Pg-4/Pk-4/Pl-4 BC

UR/0146/65/008/003/0097/0103
681.1

49
48
B

ACCESSION NR: AP5016469

AUTHOR: Sergeyev, M. A.

TITLE: Floating-type gyrocompass with a rigid torsional suspension

SOURCE: IVUZ. Priborostroyeniye, v. 8, no. 3, 1965, 97-103

TOPIC TAGS: gyrocompass, gyrocompass design, floating gyrocompass

ABSTRACT: The motion of the sensing element of a floating gyrocompass with a rigid torsional suspension was studied in the first approximation and a formula for calculating the period of the free undamped oscillations with respect to the azimuth was derived. The sensing element consists of a float and a rigidly fixed gyrometer. The center of gravity of the float and of the gyroscope are assumed to be located on the float's axis of symmetry, and the center of gravity of the float is assumed to coincide with its center of buoyancy. The sensing element is completely submerged in fluid and is suspended on a rigid torsional bar. The derived formula is also applicable to a pendulum gyrocompass with a rigid torsional suspension, and to gyrompasses with an elastic torsional suspension. Orig. art. has: 16 formulas and 2 figures. [AC]

Card 1/2

L 55934-63

ACCESSION NR: AP5016469

ASSOCIATION: Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics)

SUBMITTED: 02Jul63

ENCL: 00

SUB CODE: NG

NO REF SOV: 001

OTHER: 000

ATD PRESS: 4032

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Card 2/2

L 08857-67 EWT(d)
ACC NR, AP6010780

SOURCE CODE: UR/0146/66/009/001/0125/0130

AUTHOR: Sergeyev, M. A.

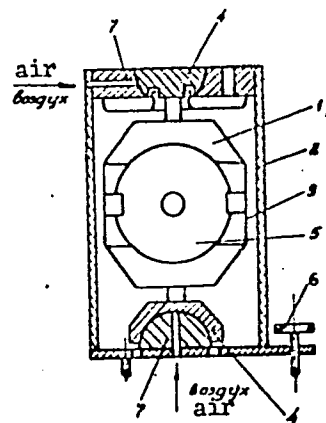
ORG: Leningrad Institute of Fine Mechanics and Optics (Leningradskiy institut
tochnoy mekhaniki i optiki)

TITLE: Compensating the error that arises from tilting
the gyrocompass frame

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 1, 1966,
125-130

TOPIC TAGS: gyrocompass, gyrocompass error,
vertical flight gyroscope

ABSTRACT: Formulas are developed for compensating the
error due to the frame tilt of a gyrocompass having elastic
recovery torque. This gyrocompass design is used for
developing the formulas (see figure): 1 - sensing element,
2 - frame, 3 - housing, 4 - semispherical pivot journal
5 - spin motor, 6 - set screw, 7 - semispherical thrust



Foucault-gyroscope-type
gyrocompass

9

Card 1/2

UDC: 531.383

L 08857-67

ACC NR: AP6010780

member. It is found that the error due to the frame tilt can be substantially reduced by shifting the center of gravity of the sensing element along the principal axis to satisfy this formula: $HU \sin \varphi - Pl_z = 0$. Orig. art. has: 3 figures, 16 formulas, and 1 table.

SUB CODE: 17 / SUBM DATE: 20Jul64

Card 2/2

ORLOVA, G.A. [Orlova, H.A.]; CHERKASOVA, L.I.; SHESTERIKOVA, O.I.; SERGEYEVA, M.M.; TARASOVA, M.Kh.; KARUNSKIY, V.G. [Karuns'kyi, V.H.]; MISHINA, Z.D.; LEBEDEVA, T.V.; ROZDYALOVSKIY, B.V. [Rozdialovs'kyi, B.V.]; DYMSHITS, L.S.; ZAYTSEV, A.B., glavnyy red.; SERGEYEV, N., otv. za vypusk; SERGEYEV, M.F., red.; BERGER, F., tekhn.red.

[Economy of Volyn' Province; a statistical manual] Narodne gospodarstvo Volyns'koi oblasti; statystychnyi zbirnyk. L'viv, Derzhstatvydav, 1958. 211 p. (MIRA 12:12)

1. Volyn' (Province) Statystychno upravlinnia. 2. Statisticheskoye upravleniye Volynskoy oblasti (for all, except Sergeyev, N., Sergeyev, M.F.) 3. Nachal'nik Statisticheskogo upravleniya Volynskoy oblasti (for Zaytsev).

(Volyn' Province--Statistics)

GUMEL'YA, A.N., inzh.; NALET'OV, A.A., inzh. Prinsipialni uchastiye: ROZENBERG, Ya.G.; SERGEYEV, M.F.; GUDKOV, P.P.; PETROVA, V.Ye., red.; KARABILOVA, S.F., tekhn.red.

[Regulations on the construction and repair of overhead communication lines and wire broadcasting networks] Pravila stroitel'stva i remonta vozdushnykh liniy svyazi i radiotranslyatsionnykh setei. Moskva, Gos.izd-vo lit-ry po voprosam svyazi i radio. Pt.3.

[Construction and repair of overhead and underground lines and residential equipment for wire broadcasting and telephone networks] Stroitel'stvo i remont stoechnykh i podzemnykh liniy i oborudovanie domovoi raspredelitel'noi radiotranslyatsionnoi i telefonnoi vnutri-raionnoi setei. 1960. 198 p. (MIRA 13:9)

1. Russia (1923- U.S.S.R.) Ministeratvo svyazi.
(Wire broadcasting) (Telephone)

1. Sergeyev, M. I., Eng.
2. USSR (600)
3. Looms
4. Adjusting weft winders with aid of pattern plate. Tekst. Prom. 12, No.11, 1952

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

Б.А.Г.Яв, М. I.

"Reasonable Prophylaxis for Purifying Mineral Waters," Gig. i San., No. 6, 1948.
Prof.

SERGEYEV, M. I.

Completely FN-factorizable groups. Dokl. AN SSSR 155 no. 3:532-
534 Mr '64. (MIRA 17:5)

1. Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo.
Predstavleno akademikom A.I.Mal'tsevym.

SERGEYEV, M. N. (Prof.)

"The Potential of an Infinitely Thin Elliptical Membrane," Works of the Central Scientific-Research Institute of Geodesy, Aerial Surveying, and Cartography. No 51, Gravimetric Studies, 1948, p. 112.

Abstract, W-13387, 7 Sep 50

KAZINSKIY, Vasilii Aleksandrovich; SERGEYEV, M.N., prof., otv.red.:
Prinimala uchastiye: DOSUZHAYEVA, Ye.P.; GUROV, K.P., red.
izd-va; MAKUNI, Ye.V., tekhn.red.

[Mathematical tables for the approximation of geophysical
anomalies and reductions by interpolating polynomials]
Matematicheskie tablitsy dlia approksimatsii geofizicheskikh
anomaliy i reduktsii interpolatsionnymi mnogochlenami.
Moskva, Izd-vo Akad.nauk SSSR, 1959. 89 p. (MIRA 12:8)
(Geophysics--Tables, etc.)

SERGEYEV, M.P.

Introduce multistage timber tapping. Gidreliz. i lesekhim.prem. 9
no.6:22-23 '56. (MIRA 9:10)

1. Trest T Sentrekhimles.
(Tree tapping)

SERGEYEV, M.P., professor; PINIGIN, B.N., kandidat tekhnicheskikh nauk.

~~XXXXXXXXXXXXXXXXXXXX~~

Tractor spring couplings. Vest.mash. 33 no.6:39-43 Je '53.

(MLRA 6:6)
(Couplings)

SERGEYEV, M.P.

GUT'YAR, Ye. M., professor; MAL'GIN, A.D., inzhener; SERGEYEV, M.P.,
professor, retsenzent; BATURA, F.G., inzhener, retsenzent
MANAKIN, N.V., inzhener, redaktor; SOKOLOVA, T.P., tekhnicheskij
redaktor

[Machinery] Mashinovedenie. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1954. 408 p. (MLRA 7:10)
(Machinery)

SERGEYEV, M.P., professor; BORONENKO, I.A., inzhener.

Basic factors in drying seed grain by infrared rays. Sel'khoz mashina
no.11:21-22 N '55. (MIRA 9:1)
(Grain--Drying) (Drying apparatus)

СЕРГЕЕВ, М.П.

USSR/ Engineering - Mechanics

Card 1/1 Pub. 128 - 8/35

Authors : Sergeev, M. P., Prof., and Polkanov, I. P., Engineer

Title : On measuring the mechanical work of a pull

Periodical : Vest. mash. 35/3, 22 - 25, Mar 1955

Abstract : The principles of the working of an instrument for measuring the work done by a tractor are explained in the terms of the science of mechanics. The mathematical computations involved in its design are presented. An account is given of tests run with four variants of this instrument, to which a name equivalent to "workmeter" is given. One Soviet reference (1940). Illustrations.

Institution :

Submitted :

SERGEYEV, M.P.; VINOGRADOV, V.I., kandidat tekhnicheskikh nauk.

Review of V.S. Likhachev's book "Testing tractors." M.P. Sergeev,
V.I. Vinogradov. Avt.i trakt.prom. no.4:47-48 Ap '56. (MLRA 9:8)

1. Chelyabinskiy institut mekhanizatsii i elektrifikatsii sel'skogo
khozyaystva.

(Tractors--Testing) (Likhachev, V.S.)

SERGEYEV, M.P., prof.; CHERKIS, V.N., inzh.

Degree of loading for S-80 tractors in plowing. Makh. i elek.sots.
sel'khoz. no.5:11-13 '56. (MIRA 12:4)

1. Chelyabinsky institut mekhanizatsii i elektrifikatsii sel'skogo
khozyaystva.

(Tractors)

SERGEYEV, M.P., professor.

How to train future engineers. Nauka i pered.op.v sel'khoz.7 no.1:
7-8 Ja '57. (MLRA 10:2)
(Agricultural engineering--Study and teaching)

POLKANOV, Ivan Petrovich; SERGEYEV, M.P., prof., red.; KHARITONCHIK, Ye.M.,
prof., retsentsent; DUGINA, N.A., tekhn.red.

[Theory and analysis of machine-tractor units] Teoriia i raschet
mashinno-traktornykh agregatov. Pod red. M.P. Sergeeva. Moskva,
Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1958. 211 p.
(MIRA 12:2)

(Agricultural machinery) (Tractors)

BALZHI, Mikhail Fedorovich, kand.tekhn.nauk; YESIN, Grigoriy Dmitriyevich, inzh.; SERGEYEV, M.P., prof., red.; SVET, Ya.B., red.; KOLBLICHEV, V.I., tekhn.red.

[Joint coupling with flexible dynamic connections and its vibration damping properties] Soedinitel'naya mufta s uprugimi dinamicheskimi svyaziami i ee antivibratsionnye svoistva. Pod red. M.P.Sergeeva. Cheliabinsk, Cheliabinskoe knizhnoe izd-vo, 1959. 49 p.
(MIRA 13:4)

(Couplings)

VASIL'YEV, Nikolay Alekseyevich; ABRAMOV, Georgiy Aleksandrovich;
SERGEYEV, M.P., prof., red.; ALEKSEYEV, G.P., inzh., red.;
BUSHUYEV, N.M., kand.tekhn.nauk, red.; GUTMAN, I.M., inzh., red.;
KUZ'MOV, N.T., inzh., red.; IGNAT'YEV, M.G., agronom, red.;
PICHAK, F.I., kand.tekhn.nauk, red.; POLKANOV, I.P., kand.tekhn.
nauk, red.; DUGINA, N.A., tekhn.red.

[Repair of machinery according to a yearly chart] Remont mashin
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