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Reel # 276

Kupchinskiy, P.
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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

PROCESSES AND PROPERTIES INDEX

7

Use of liquid resin (tallol) in soap making. P. Kupchinskii and A. Yasmuil. *Maslobolno Zhirovoe Delo* 11, 402-4 (1935).—Liquid resin, obtained from black liquor of sulfate pulping, added up to 25% to fats gave a good grade of hard soap. The product was improved by the use of distd. liquid resin (tallol). A greater proportion of tallol results in soft or liquid stock. Chas. Blanc

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

PROCESSES AND PROPERTIES IN EE

The absorption of poisonous vapors and fogs by protective gas masks. P. Kupchinskii. *Chim. Oborona* 1936, No. 1, 4-5; *Chem. Zentr.* 1936, II, 1401.—A summary of the properties of fogs or smokes (motion, concn., coagulation, adsorption of vapors on solid particles, adherence to solid bodies) and the mechanism of filtration of such fumes through powd. or fibrous materials. M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Chemical absorption of war gases in gas masks. P. Kupchinskii. *Khim. Oborona* **1937**, No. 9, 7-8; *Chem. Zentr.* **1938**, II, 1351; cf. *C. A.* **32**, 3855[4]. A brief review of the chem. processes involved in the absorption of war gases by gas masks and requirements for the latter.

M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

18

CA

Adsorbents and their use. P. Kupchinskii. *Khimiya i Oborona* 14, No. 5, 13-15(1938); *Chem. Zentr.* 1938, II, 3268; cf. *C. A.* 32, 3855[4].—The properties of activated C, silica gel, activated clays and earths, which are concerned with their use as adsorbents for gases and vapors are discussed with particular attention to their use for gas masks.

M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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CA

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Corrosion of iron by the action of the "contact" reagent. P. Kupchinskii. *Maslobolno Zhirovoe Delo* 15, No. 6, 21-2(1939). The possibility of transporting naphthene-sulfonic acid in iron tank cars was studied. To this end, polished Fe plates (surface 28 sq. cm.), attached to the glass stirrer, were treated at 15° and 65° in 1.5 l. of the contact reagent (contg. sulfonic acids 49.1% and free H_2SO_4 1.29%) for 24 hrs. At intervals of 6 hrs. the plates were removed, washed with H_2O and alc., dried at 90° and weighed. Similar expts. were made with the contact reagent partially and completely neutralized with NaOH, $Ca(OH)_2$ and NH_4OH. The corrosion rate decreases with time and becomes stabilized when the free H_2SO_4 is consumed in the reaction. The corrosion is reduced 2-3 times by neutralization of H_2SO_4 in the mixt. and is practically inhibited in the presence of excess alkalies. The latter procedure is believed to be impractical because of the contamination of the reagent with alkali sulfates, which in the sapon. of fats tends to increase the ash content of the resulting glycerol. Neutralization with $Ca(OH)_2$ and filtration from the $CaSO_4$ are tentatively suggested as a possible solution of the problem. C. Blanc

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPCHINSKIY, P.D.

Demargarinization of cottonseed oil. Masloboyno Zhirovaya Prom. 18, No.2, 8-11 '53. (MLRA 6:3)
(CA 47 no.14:7237 '53)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPCHINSKIY, P.D., kandidat tekhnicheskikh nauk; STERLIN, B.Ya., kandidat tekhnicheskikh nauk [reviewers]; RAVICH, G.B.; TSURINOV, G.G. [authors].

On G.B.Ravich and G.G.TSurinov's book "Phase structure of triglycerides." P.D.Kupchinskii, B.Ia.Sterlin. Masl.-zhir.prom. 18 no.11:24-25 '53. (MLRA 6:12)

(Glycerides) (Ravich, G.B.) (Tsurinov, G.G.)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPCHINSKIY, P. D.

The viscosity of vegetable oils [illegible] study was made to det. the effect of temp. on the viscosity of olive, peanut, sesame, cottonseed, sunflower, soybean and linseed oils. At 15° olive oil had the highest viscosity, unseed the lowest, and the other [illegible] described. The viscosity of all oils sl. [illegible] and drew closer together as the temp. went up [illegible] at [illegible]

All-Union Sci. Res. Inst. of [illegible]

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

Kupchinskyy, P. D.

USSR/Chemistry - Fats and Oils

Card 1/1 : Pub. 86 - 4/38

Authors : Kupchinskyy, P. D.

Title : Fatty substances and their utilization

Periodical : Priroda 43/12, 32-41, Dec 1954

Abstract : Fats and oils are described as mixtures of $C_3H_5(ON)_3$ and higher fatty acids. The formulas for the various commercial fats and oils are presented and a discussion is given of their reactions. The methods of obtaining, from vegetable sources, fats similar to those obtained from animals are dealt with in detail. The refining of fats and oils and the process of their hydrogenation are explained. The author finds that fats are essential to the human organism because of their high calory content and discusses the role they play in food products and their use in industry. Eleven Russian references (1935-1952). Drawings; tables.

Institution : .....

Submitted : .....

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPCHINSKIY, P.D.

TYUTYUNNIKOV, Boris Nikanorovich, professor; NAUMENKO, Petr Vasil'yevich; TOVBIN, Isaak Moiseyevich; FANIYEV, Garigin Georgiyevich; BODYAZHINA, Z.I., kandidat tekhnicheskikh nauk, retsenzent; GRAUERMAN, S.A., kandidat tekhnicheskikh nauk, retsenzent; IRODOV, M.V., kandidat tekhnicheskikh nauk, retsenzent; KUPCHINSKIY, P.D., kandidat tekhnicheskikh nauk, retsenzent; SERGEYEV, A.G., kandidat tekhnicheskikh nauk, retsenzent; STERLIN, B.Ya., kandididat tekhnicheskikh nauk, retsenzent; MASLOVA, Ye.F., redaktor; CHEBYSHEVA, Ye., tekhnicheskiy redaktor

[Technology of oil and fat processing] Tekhnologiia pererabotki zhirov. 2-e izd., perer. i dop. Pod red. B.N.Tiutiunnikova. Moskva, Pishchepromizdat, 1956. 494 p. (MIRA 10:2)
(Oils and fats)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

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KUPCHINSKIY, P.D.

vanes with the latter [illegible]

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPCHINSKIY, [redacted], kandidat tekhnicheskikh nauk; BELAN, G.A.; AKATOV, S.K.

Continuous production of soap in a vacuum installation. Masl.-zhir. prom. 23 no.7:19-24 '57. (MLRA 10:8)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov. (for Kupchinskiy, Belan) 2.Mylovarennyy zavod imeni Karpova (for Akatov)
(Soap industry) (Vacuum apparatus)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

RZHEKHIN, V.P., starshiy nauchnyy sotrudnik; BODYAZHINA, Z.I.; VENGEROVA, N.V.; VISHNEPOL'SKAYA, F.A.; GALUSHKINA, N.A.; GAVRILENKO, I.V.; GRAUERMAN, L.A.; IRODOV, M.V.; KARANTSEVICH, L.G.; KREYSINA, R.A.; KUPCHINSKIY, P.D.; LEVIT, M.S.; LEONT'YEVSKIY, K.Ye.; LITVINENKO, V.P.; LYUBCHANSKAYA, Z.I.; MAZYUKEVICH, V.A.; MAN'-KOVSKAYA, N.K.; NEVOLIN, F.V.; POGONKINA, N.I.; POPOV, K.S.; PREMET, O.K.; SARKISOVA, V.G.; SEMENOV, Ye.A.; STERLIN, B.Ya.; SERGEYEV, A.G., kand.tekhn.nauk, obshchiy red.; PRITYKINA, L.A., red.; TARASOVA, N.M., tekhn.red.

[Technical and chemical production control and accounting in the oils and fats industry] Tekhnokhimicheskii kontrol' i uchet proizvodstva v maslodobyvaiushchei i zhiropererabatyvaiushchei promyshlennosti. Moskva, Pishchepromizdat. Vol.1. 1958. 403 p. (MIRA 13:1)

(Oil industries)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

BODYAZHINA, Z.I.; VENGEROVA, N.V.; GEYSHINA, K.V.; GRAUERMAN, L.A.; IRODOV, M.V.; KARANTSEVICH, L.G.; KRAL'-OSIKINA, G.A.; KUPCHINSKIY, P.D.; LEONT'YEVSKIY, K.Ye.; LITVINENKO, V.P.; LYUBCHANSKAYA, Z.I.; MAZYUKEVICH, V.A.; MAN'KOVSKAYA, N.K.; NEVOLIN, F.V.; POGONKINA, N.I.; POPOV, K.S.; PREMET, G.K.; RZHEKHIN, V.P., starshiy nauchnyy sotrudnik; SARKISOVA, V.G.; SEMENOV, Ye.A.; STERLIN, B.Ya.; TIPISOVA, T.G.; SERGEYEV, A.G., kand.tekhn.nauk, red.; PRITYKINA, L.A., red.; GOTLIB, E.M., tekhn.red.

[Technochemical control and production accounting in the oils and fats industry] Tekhnokhimicheskii kontrol' i uchet proizvodstva v maslodobyvaiushchei i zhiroperarabatyvaiushchei promyshlennosti. Moskva, Pishchepromizdat. Vol.2. [Special methods in the analysis of raw material and semiprocessed and finished products] Spetsial'nye metody analiza syr'ia, polufabrikatov i gotovoi produktsii. 1959. 495 p. (MIRA 13:5)
(Oil industries) (Oils and fats--Analysis)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

DENSHCHIKOV, Mikhail Tikhonovich, kand.tekhn.nauk; SILIN, P.M., prof., red.; VESELOV, I.Ya., prof., red.; SMIRNOV, V.A., prof., red.; RZHEKHIN, V.P., red.; LEBEDEV, P.P., red.; KOVALENKO, Yu.T., red.; KUPCHINSKIY, R.D., red.; BENIN, G.S., red.; P'YANKOV, A.G., red.; SHNAYDMAN, L.O., red.; MOREV, N.Ye., red.; SHMAIN, M.M., red.; BULGAKOV, N.I., red.; MAYOROV, V.S., red.; TERNOVSKIY, N.S., red.; RAZUVAYEV, N.I., red.; OGORODNIKOV, S.T., red.; BURMAN, M.Ye., red.; KHOLOSTOV, V.A., red.; NAMESTNIKOV, A.F., red.; NASAKIN, T.N., red.; KOVALEVSKAYA, A.I., red.; KISINA, Ye.I., tekhn. red.

[Wastes from the food industry and their utilization] Otkhody pishchevoi promyshlennosti i ikh ispol'zovanie. Izd. 2., dop. i perer. Moskva, Pishchepromizdat, 1963. 615 p. (MIRA 16:6)
(Food industry--By-products)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

R-5

USSR/Diseases of Farm Animals - Pathology of Reproductions.

Abs Jour : Ref Zhur - Biol., No 14, 1958, 64700

Author : Kupchinskiy, V.L., Ziborov, V.Ya.

Inst : Stavropol Agricultural Institute.

Title : The Inguinal and Scrotal Hernias of the Bladder in Barrows.

Orig Pub : Tr. Stavropol'sk. s.-kh. in-ta, 1956, vyp. 7, 423-428.

Abstract : No abstract.

Card 1/1

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPCHYK-LEVIN, L.

Color scheme in the industry of the Polish People's Republic. Sotsr. trud 8 no.9:130-131 S '63. (MIRA 16:10)

1. Institut organizatsii mashinostroitel'noy promyshlennosti, Varshava.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

YURKEVICH, I.D., akademik; KUPCHYNAU, N.M., kand. sel'skokhoz. nauk

Results of the scientific activities of academicians and corresponding members of the Department of Biological and Medical Sciences of the Academy of Sciences of the White Russian S.S.R. for 1961. Vestsi AN BSSR Ser. biial. nav. no.1:124-130 '62. (MIRA 17:9)

1. Zamestitel' akademika-sekretarya Otdeleniya biologicheskikh i meditsinskikh nauk AN BSSR (for Yurkevich). 2. Uchenyy sekretar' Otdeleniya biologicheskikh i meditsinskikh nauk AN BSSR (for Kupchynau).

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L 04649-67 EWP(j)/EWT(m)/T RM/DJ

ACC NR: AP6024007 SOURCE CODE: UR/0201/66/000/002/0111/0118

48
B

AUTHOR: Bely, U. A.; KUPCHYNAW, B. I.

ORG: Division of Polymer Mechanics, AN BSSR (Otdel mekhaniki polimerov AN BSSR)

TITLE: Investigation of the influence of the temperature on the operating ability of metal-polymer sliding friction bearings

SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 2, 1966, 111-118

TOPIC TAGS: antifriction bearing, bearing material, polyamide, friction coefficient, temperature dependence, MAST-1 friction machine, Belarus' tractor

ABSTRACT: The authors investigated the influence of the temperature on the friction coefficient of polyamides subjected to artificial heating. The tests were made on the MAST-1 friction machine. Mathematical reduction of the experimental data yielded an empirical plot of the friction coefficient of the polyamides against the temperature. The functional temperature dependence of the friction coefficient shows that even relatively slight increase of the temperature in the friction zone causes an appreciable increase in the friction coefficient. An analysis of the influence of the temperature in the friction zone on the friction coefficient of polyamides has led to a redesigned sliding friction bearing with a rotating polyamide bushing, having an increased load ability, improved heat transfer, and greater wear resistance (Fig. 1). The bearings are to be used in the "Belarus'" tractor and other agricultural machinery. Orig. art. has: 4 figures, 3 formulas, and 1 table.

Card 1/2

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ACC NR: AP6024007

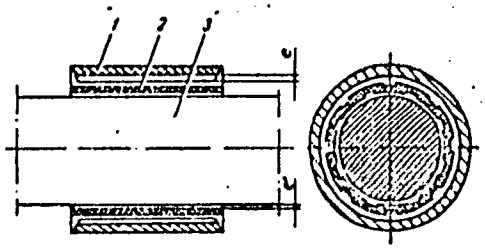

Fig. 1. Diagram of design of sliding friction bearing

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPCIK, F.; LISKA, M.; KONUPCIK, M.

Polarographic determination of 1,1,5-triaceto-2-hydroxy-5-nitro-3-pentene. Cesk. farm. 11 no.2:63-66 F '62.

1. Odbor technicke kontroly n.p. Farmakon, Olomouc.
(NITRITES chem) (ACETATES chem) (CHEMISTRY ANALYTICAL)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPCIK, F.; KONUPCIK, M.; LISKA, M.

Polarographic determination of 5-nitrofuraldiacetate. Cesk. farm. 11 no.2:67-69 F '62.

1. Odbor technicke kontroly n.p. Farmakon, Olomouc.
(NITROFURANS chem) (CHEMISTRY ANALYTICAL)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPCIK, V.

4

27

The crystal structure of copper dipyridine dibromide, $Cu(C_5H_5N)_2Br_2$. V. Kupčík and S. Durovič (Komenský Univ., Bratislava). Czechosl. J. Phys. 10, 182-90(1960) (in English).—The structure was detd. by x-ray diffraction: monoclinic, space group $P2_1/n$, lattice consts. $a = 8.30$, $b = 17.72$, $c = 4.04$ kX, $\beta = 90°$, $Z = 2$. The heavy atoms were localized by means of the projection of the Patterson functions $P(u, v)$ and $P(v, w)$, which provided the bases for detg. the signs of the majority of structure factors. The projections of the electron d. $\sigma(x, y)$ and $\sigma(y, z)$ were calcd. The structure of $Cu\ py_2Br_2$ is very close to that of $Cu\ py_2Cl_2$ (Dunitz, *CA* 51, 10160g), differing from it primarily in the orientation of the symmetry elements with respect to the crystallographic axes. In both structures the Cu atom is octahedrally coördinated with 4 halogen and 2 N atoms. The N atoms and 2 Br atoms are bound covalently to the Cu in the structure of the Br deriv., as follows from the length of the bonds (Cu-N 1.99, Cu-Br 2.46 kX); the remaining 2 Br atoms are bound to the Cu by weaker bonds and mediate the chain formation of mols. in the direction of the *c*-axis.

A. Kremheller

B.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPCINSKAS, Juozas, prof.; KUZMA, Jonas, dots.; SUMINAS, A., red.

[Tuberculosis] Tuberkuliozė. Vilnius, Mintis, 1964. 209 p.
[In Lithuanian] (MIRA 18:6)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

USSR

The geochemical, genetic, and geological relations in the ore deposits of the Little Carpathians. Bohuslav Cambel and Geza Kupčo (Tech. Hochschule, Bratislava, Slovakia). *Geol. Sborník* 3, 135-92(1953)(German summary).—Two distinct phases of mineralization, not previously recognized, are distinguished. The older, related to gabbroic intrusives, consists of pyrite-pyrrhotite deposits; the younger, related to granitic rocks, includes Au and stibnite deposits. Qual. spectrographic analyses are given of 131 rocks and minerals, including quartz, ankerite, pyrite, pyrrhotite, sphalerite, and stibnite. Michael Fleischer

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

CHOCHOL, Stefan, doc. inz. CSc.; KUPCO, Ondrej, doc. inz. CSc.

New trends in road and railroad line construction. Tech praca 16 no. 7:500-504 Jl '64.

1. Slovak Higher School of Technology, Bratislava.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KU[illegible], O., doc. inz. OSc.

Transportation between Strba and Strbske pleso. Zel dop tech 12 no.10:278 '64.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPCCK, S.

Contribution to a knowledge of the flora in the environs of Banska Stiavnica and Pukanec. p.5.
(BIOLOGICKE PRACE, Vol. 2, no. 9, 1956, Bratislava, Czechoslovakia.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 12, December 1957. Incl

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

ZUPCOVA, Jarmila, Dr.

Role of the mesenchyma in the process of regulation; pathogenesis of so-called Felty's syndrome. Cas. lek. cesk. 91 no.29:845-850 18 July 52.

(ARTHRITIS, RHEUMATOID,
Felty's synd., pathogen.)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KONDOR, Gyorgy; KUPCSIK, Jozsef, Dr.

On the determination of the optimal program of sugar beet transportation and processing. Elelm ipar 15 no.2:61-3 of cover F '61.

1. Magyar Tudomanyos Akademia, Kozgazdasagtudomanyi Intezet (for Kondor)
2. Marx Karoly Kozgazdasagtudomanyi Egyetem (for Kupcsik).

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPEC, Jiri, inz.

Differential transformers in the pickups of non-electric quantities. Zapravodaj VZLU no. 5:39-43 '61.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPEC, Jiri, inz.

A new pressure and acceleration measuring instrument.
Zpravodaj VZLU no.6:23-27 '61.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

23172

Z/032/61/011/007/003/003
E073/E535

6170
26180 (1139)

AUTHOR: Kupec, J., Engineer

TITLE: Potentiometric Connection of Strain Gauges Used for Dynamic Measurements

PERIODICAL: Strojírenství, 1961, Vol.11, No.7, pp.532-535

TEXT: For some dynamic measurements the universal nature of the carrier frequency amplifiers is not an advantage, for instance, if the dynamic component of the measured stress is relatively small but of greater importance than the static stress. In such cases it is advantageous to use potentiometric circuits, which are rarely used owing to the fact that they are very sensitive to fluctuations of the supply voltage and the hum. This disadvantage can be overcome by using an electronically stabilized d.c. voltage and a circuit arrangement which can be considered as a degenerated bridge with a single strain gauge R_1. If $R_1 \ll R_g$ (R_1 - strain gauge, R_2 - strain gauge or series-connected resistance, R_g - input resistance of the amplifier)

$$\Delta e_1 = E_1 - E_1' \qquad (3)$$

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where Δe_1 - output a.c. voltage which is proportional to the dynamic loading, E - voltage of the supply source and E_1' equals

$$E_1' = E \left(\frac{R_1 + \Delta R_1}{R_1 + \Delta R_1 + R_2 + \Delta R_2} \right) \qquad (2)$$

The properties of the potentiometric circuit will depend on the ratio $n = R_1/R_2$. For practical purposes the following two cases are of primary importance:

1. $n = 1$, i.e. the resistance of the strain gauge R_1 is the same as that of the resistor R_2;
2. $n \ll 1$, i.e. the resistance of the strain gauge R_1 is much smaller than R_2.

For case 1 the potentiometric circuit yields the highest output voltage. For case 2 the output voltage is much lower but the disturbing effect of the residual a.c. voltage is also very considerably reduced. In contrast to bridge circuits, potentiometric circuits must be fed by a direct current of high stability

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without any disturbing residual a.c. components. One source can be used for supplying a number of strain gauge circuits. In the case of measurements on rotating parts, slip-ring connections have to be used and the fluctuations in the contact resistance bring about fluctuations in the derived voltage. This influence can be reduced very considerably by feeding both the strain gauge and the amplifier from the same supply source, using a circuit as shown in Fig.4, in which the grounding is also effected via a slip-ring. The influence of the ratio $n = R_1/R_2$ on the percentual error in the output voltage ΔE_1 for the case of a constant current flow through the strain gauge is plotted in Fig.5 for various qualities of the slip-ring contacts. For a maximum permissible error of 1% in the case of a 600 ohm strain gauge, the maximum permissible change in the contact resistance for $n = 0.1$ is 60 mΩ and for $n = 0.05$ it is 240 mΩ. For dynamic measurements with strain gauges connected into a potentiometric circuit, a simple three-stage resistance amplifier has been built. The output is through a transformer to enable matching with the oscillograph loop. The ratio $n = R_1/R_2$ has been so

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Potentiometric Connection of ... Z/032/61/011/007/003/003
E073/E535

chosen that for feeding a 600 Ohm strain gauge, the same stabilized d.c. source can be used as for feeding the anode circuit of the amplifier. The voltage on the strain gauge (10 V) can be regulated by means of a variable resistance. The amplifier has a strong negative feedback for the purpose of equalizing the frequency characteristic, which is a straight line in the range of 3 c.p.s. to over 1 kc/sec. The amplifier can be supplemented with a reference voltage, an output current limiter and an indicating instrument with a pointer. The basic circuit of this amplifier is shown in Fig.6. There are 6 figures and 4 references: 2 Czech and 2 non-Czech.

ASSOCIATION: VZLÚ Letňany

Card 4/6

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPEC, Jiri, inz.

Differential transformer in the measurement techniques. Slaboproudy obzor 22 no.11:667-671 N '61.

1. Vyzkumny a zkusebni letecky ustav, Letnany.

(Electric transformers) (Mensuration)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

4/059/62/000/002/007/009
D236/D308

AUTHOR: Kupec, Jiří, Engineer

TITLE: Method of strain gaging of dynamic processes with steady amplitude

PERIODICAL: Zpravodaj VZLÚ, no. 2, 1962, 53-55

TEXT: The sinusoidal output voltage of the strain gage bridge is applied to an oscilloscope; the oscillograms of the bridge with an without load are compared and made to coincide by adjusting the bridge to static loads previously known. The amplifier is not affected. Conditions of applicability of this method to non-sinusoidal voltages are indicated. There are 5 figures.

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Z/059/62/000/005/004/006

56

AUTHOR: Kupec, Jiri, Engineer

TITLE: Application of the Hall effect in measurement technique

SOURCE: Letnany, Vyzkumny a Zkusebni Letecky Ustav. Zpravodaj VZLU no. 5, 1962, 11-16

TEXT: Some applications of Hall generators in the pick-up of mechanical parameters are discussed. The principle of the Hall effect is explained, and the Hall generator, its function and principal characteristics in test technique are described. The semiconductor best suited for this application is indium ardenide, while indium antimonide is suitable. The advantages of Hall's generators are: the potential is created even in a steady magnetic field, their internal resistance is extremely small, and they have a high sensitivity. The lay-out of a Hall generator as active pick-up and its connection in the circuit of a differential transformer are described. In a circuit of this type the Hall voltage is proportional to the moments of the magnetic circuit part of the transformer and, therefore, it is possible to design seismic pick-ups for the measurement of mechanical vibrations in connection with simple electronic RC-amplifiers, when used in the pick-ups of revolutions, the Hall generators offer a great advantage.

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Application of the Hall effect...

in making the pick-up voltage output independent of the number of revolutions. From the above it may be deduced that with the help of Hall generators it may be possible to design new types of pick-ups of mechanical parameters. Orig. art. has 14 figures, 12 equations and 19 references.

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E197/E435

AUTHORS: Kupec, J., Engineer, Michvok, Z., Engineer

TITLE: Pressure and acceleration transducers incorporating differential transformers

PERIODICAL: Strojírenství, v.12, no.4, 1962, 293-297

TEXT: The purpose of the article is to describe the principles of operation and the application of differential transformers as transducers for measuring pressure and acceleration. In the introduction the authors discuss the advantages and drawbacks of piezoelectric transducers, strain gauges and differential transformers, the latter being the simplest and most robust, described as gaining popularity abroad. They continue to discuss both the open and the closed magnetic circuit types and the associated bridge circuits and quote as representative output voltages: 0.5 mV/μ for the former and up to 10 mV/μ for the latter per 1 V feed voltage. An example of open magnetic circuit design consists of a cylindrical former, 18 mm long, 20 mm diameter, with 3 coils, the two outer of 1300 turns of copper wire 0.08 mm diameter, the middle one of 650 turns of

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E197/E435

Pressure and acceleration ...

0.1 mm diameter. At a feed voltage of 3 V and 3000 c/s, the sensitivity was 0.1 mV/μ. A closed magnetic circuit design adapted from a miniature transformer had a centre coil of 250 turns of 0.1 mm copper wire and 2 coils of 600 turns 0.05 mm. Size of laminations 8 x 16 mm, output about 8 mV/μ (at an unstated frequency). When used in a pressure transducer the first example mentioned had - at mains frequency - an output of 2.5 mV/at, with a membrane suitable for 0 to 10 at, and 0.2 mV/at with a membrane suitable for 0 to 50 at. A high pressure housing for a range from 0 to 800 at is also described and illustrated. When applied to accelerometers the average damping factor should be between 0.6 to 0.7, preferably 0.64, and a transducer with an open magnetic circuit which was used in the range 0 to 10 g had a sensitivity of 10 mV/g. Size of unit: 38 mm dia, 58 mm long, weight 170 g. A closed magnetic circuit accelerometer had the dimensions 25 x 40 x 15 mm, weight less than 40 g, sensitivity 25 mV/g, resonance frequency 380 c/s, and was suited for measurements in the range 0 to 150 c/s. The authors briefly describe and illustrate a carrier frequency measuring amplifier,

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E197/E435

Pressure and acceleration ...

3000 c/s, feed voltage 3 V, with an output of ± 5 mA into a 10 ohm load, suited for an oscillograph type 5T and states that the unit proved to be very stable and satisfactory. There are 15 figures.

ASSOCIATION: VZLÚ-Letňany

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

Z/041/63/000/002/003/005
E192/E135

AUTHOR: Kupec, Jiří, Engineer

TITLE: Differential transformer for measuring the dynamic behavior of mechanical quantities

PERIODICAL: Strojnický časopis, no.2, 1963, 173-180

TEXT: An induction-type transducer is in the form of a differential transformer. Basically, such a transformer consists of an a.c. fed primary winding and two secondary windings which are coupled inductively with the primary. The coupling can be varied by changing the position of the transformer core or its magnetic shunt and this varies the output voltage of the secondaries. Normally, the secondaries are connected in anti-phase. The transformer core is either of the open type or forms a closed magnetic circuit. If the core moves inside the coil the output voltage in the center position of the core is null. As the core is shifted from the center a difference voltage of the two secondaries is obtained at the output. The transformer can be represented by an equivalent circuit consisting of a resistance R_1 and an inductance L_1 in the primary; the secondaries are

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represented by two inductances L_2, two resistances R_2 and a load resistance R_g; the mutual inductances between L_1 and the two secondaries are M_1 and M_2. Analysis of the circuit shows that if $R_g \rightarrow \infty$, the output voltage of the transducer is:

$$U_2 = \frac{U_1(M_1 - M_2)\, j\omega}{R_1 + j\omega L_1} \qquad (6)$$

where U_1 is the a.c. voltage applied to the primary. Eq.(6) shows that the sensitivity of the transducer is primarily dependent on the coupling coefficient between the windings. An open-core transducer was investigated experimentally and it was found that a linear response (as a function of the core position) could be achieved by careful and accurate manufacture of the transformer and by making the coils comparatively long. A shunted-core transformer was used to produce an accelerometer (transducer) for frequencies of up to 150 c/s and accelerations of 0.01-20 g. The transducer weighed 30 g and was used for the investigation of the effect of vibrations on aircraft components. The accelerometer has the following advantages as compared with piezoelectric

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Differential transformer for ... Z/041/63/000/002/003/005
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transducers; it can be used for static and dynamic measurements; it can be calibrated directly during operation, and is little influenced by parasitic capacitances. A special drive, amplifier and detector circuit for the accelerometer was developed. The paper was read at the Second State Conference on Machine Dynamics.
There are 10 figures.

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KLABOCH, L., inz.; DUFEK, Jaroslav, inz.; HAJEK, E., doc., inz.; REZNICEK, I., inz.; ROD, F., inz.; DRDA, J., inz.; MATOUSEK, B., inz.; KOUSAL, P., inz.; MANDA, V.; CAIS, O., inz.; NOVAK, S.; URBAN, S.; HANKE, M., inz.; VOKURKA, V., inz.; FOGL, J., inz.; HROMIR, M., inz.; SOLIN, J., prof., inz.; SLEZAK, A., inz.; TITLBACH, Z., inz.; DREXLER, J., inz.; HORNA, O., inz.; KUPEC, J., inz.

Discussion on tensiometry. Zpravodaj VZLU no.2:37-46, 69-80 '62.

1. Vyzkumny a zkusebni letecky ustav (for Dufek, Reznicek, Manda, Cais, Drexler and Kupec). 2. Statni vyzkumny ustav tepelne techniky (for Klaboch, Rod, Drda, Matousek, Titlbach). 3. Ceske vysoke uceni technicke (for Hajek, Solin). 4. Ustav pro vyzkum motorovych vozidel (for Hanke, Vokurka, Fogl, Hromir). 5. Vyzkumny ustav matematickych stroju (for Horna). 6. Moravan, n.p., Otrokovice (for Kousal). 7. Mikrotechna, Holesovice (for Novak). 8. Zavody V.I.Lenina (for Urban). 9. Svermovy zavody, Vyzkumny ustav (for Slezak).

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

L 47083-66 GG

ACC NR: AP6005511 (A) SOURCE CODE: CZ/0078/66/000/001/0027/0027

AUTHOR: Kupec, Jiri (Engineer; Prague); Cekal, Stanislav (Chvalkov)

ORG: none

TITLE: Automatic electronic switching circuit. CZ Pat. No. PV 294-65

SOURCE: Vynalezy, no. 1, 1966, 27

TOPIC TAGS: electronic circuit, switching circuit, delay circuit, flip flop circuit

ABSTRACT: An electronic circuit connection pattern designed for automatic change-over control of several functional circuits (e.g. AND gates of several measuring circuits linked to a single measuring instrument) has been introduced. The functional circuits are arranged in groups where all the inputs of one group circuits are connected to a common bus and through it to the group's flip-flop circuit. Each group is also provided with a delay circuit. The connection is arranged in such a way that each delay circuit is linked to its group flip-flop, and, via the change-over switch to the neighboring group's flip-flop. The last group's delay circuit, besides being linked with its own flip-flop, is connected to a mono-stable circuit whose output is linked, via a circuit breaker and the chang-over switch, back to the input of the first group's flip-flop. [KP]

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

L 02363-67

ACC NR: AP6005510 (A) SOURCE CODE: CZ/0078/66/000/001/0027/0027

INVENTOR: Kupec, Jiri (Engineer; Prague); Cekal, Stanislav (Chralkov)

30
B

ORG: none

TITLE: [Circuit of an electronic switch] CZ Pat. No. PV 293-65

SOURCE: Vynalezy, no. 1, 1966, 27

TOPIC TAGS: electronic switch, electronic circuit

ABSTRACT: An electronic switch circuit for the series conductive coupling of several measuring points with one measurement instrument in which blocking circuits in accordance with pulses from generators fill the function of coupling several measurement points with one measurement instrument is described. The distinguishing feature of the device is that between the pulse generator and the counter and between the blocking circuits which are assembled in groups, are connected logical "and" circuits, a monostable circuit and a multistable multivibrator in such a way that the outputs from the counter and from the monostable circuit are connected to the inputs of the blocking circuits of all the groups in the same order as the corresponding logical "and" circuit, and the outputs from the individual positions of the multistable

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L 02364-67

ACC NR: AP6005510

multivibrator lead to the individual groups of blocking circuits at the group bus bar. The other inputs of all the blocking circuits in the group are connected to the group bus bar. At the same time the outputs of all the blocking circuits of all groups are connected by bus bars to the input of the measurement instrument.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPEC, Karel (Jihlava, 1. maje 7.)

Serial arteriography in bone tumors. Cesk. rentg. 12 no.1:43-45 Mar 58.

1. Centralni rig oddeleni MUNZ v Jihlave, prednosta MUDr K. Kupec.
(BONE AND BONES, neoplasms
diag., serial arteriography (Cz))
(ANGIOGRAPHY
arteriography, serial, diag. value in bone tumors (Cz))

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPEC, Karel; NOVAK, Jan

Peptic ulcer of the greater curvature. Cesk. rentg. 13 no.2:108-110 Apr 59.

1. Mestsky ustav narodniho zdravi v Jihlave--mestska poliklinika, rentgenologicke oddeleni, prednosta MUDr. Karel Kupec. Krajsky ustav narodniho zdravi v Jihlave--krajska nemocnice, chirurgicke oddeleni, prednosta prim. MUDr. Jan Vojta.
(PEPTIC ULCER, case reports,
of greater curvature, x-ray (Cz))

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPENKO, P., polkovnik

Suddenness in the attack. Voen. vest. 37 no.4:84-87 Ap '58.
(MIRA 11:4)
(Attack and defense (Military science))

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPENOV, D., inzh.; POKRIVNISHKI, V., inzh.; VLAKHOVSKI, M., inzh.

Polishing of porcelain insulators for the 60 and 110 kv. circuit breakers. Mashinostroene 11 no.11:16-20 N '62.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPENOV, D., inzh.; VLAKHOVSKI, M., inzh.

Wet polishing of procelain insulators for the 60 and 110 kv. low-level oil switches. Mashinostroene 12 no.1:22-25 Ja '63.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPENOV, D., inzh.; PRANGOV, L., inzh.

An industrial method of obtaining silver-cadmium alloy for electric contacts. Mashinostroene 12 no. 11:20-22 N '63.

1. Mashinno-elektrotekhnicheski institut.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPENOV, D., inzh.;TODOROV, G., inzh.

Technology of the production of contact bimetal copper-silver.
Min delo 18 no. 2:29-33 F '63.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPENOV, Dimitur, inzh.; TODOROV, Georgi, inzh.

The contact elements for the low-voltage breakers made of contact bimetallic copper-silver. Elektroenergiia 13 no.9:21-24 S '62.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPENOV, D. K.

"On calculating the resultant retentive force of single-phase electromagnetic alternating current with sh-form magnetic system."

ELEKTROENERGIIA, Sofiia, Bulgaria, Vol. 9, no. 10/11, Oct./Nov. 1958.

Monthly List of East European Accessions Index (EEAI), The Library of Congress, Volume 8, No. 8, August 1959.

Unclassified

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPENOV, D.K.

Retentivity of the biphase and three-phase electromagnets.
Godishnik mash elekt 7 no.2:31-41 '60. (publ. '61).

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPENOV N.

SHEYTANOV, M.

Bulgaria

Higher Military Medical Institute, Department of Epidemics and Hygiene (VVMI-Katedra po voenna epidemiologiya i khigiena), Sofia; Chief: N. Kupenov, Prof.

Sofia, Khigiena i Zdraveopazvane, No 3, 1966, pp 288-291.

"Distribution of Proteins in the Daily Food Ration."

Co-authors:

STAVREV, P.
STAMENOVA, R.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

BULGARIA

KUPENOV, Prof. N., Colonel of the Medical Service

"Bacterial Aerosols and the Intentions of Imperialists with Respect to the Use of Bacteriological Weapons"

Sofia, Voenno Meditsinsko Delo, Vol 21, No 5, Oct 66, pp 57-60

Abstract: A review of USA publications dealing with biological warfare indicates that particular stress in research in this filed conducted in the USA and other imperialistic countries is placed on infectious agents in the form of aerosols. The volume of open publications on biological warfare is large; if one considers that there also must be an extensive number of classified publications, one comes to the conclusion that research in this field is being conducted on an extensive scale. The fact that many USA medical men refuse to participate in biological warfare research is indicative of the purpose of this research and of the intentions which exist with respect to the eventual use of its results. In view of these intentions, there are substantial reasons for taking measures designed to protect the armed forces and the population against microbiological agents spread in the form of aerosols in the case of possible war. Five references (all USA). Manuscript received 22 May 66.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPENOV, N.; GOTEV, N.; SYMNALIYEV, M. [Symnaliev, M.]; TOMOV, A.; KHRISTOV, Iv.; BAYEV, V. [Baev, V.]; DOBREVA, Yev. [Dobreva, Ev.]; MICHEV, T.; CHEKHLAROV, V.

Natural tularemia focus in Bulgaria. Zhur. mikrobiol., epid. i immun. 41 no.4:124-131 Ap '64. (MIRA 18:4)

1. Kafedra voyennoy epidemiologii i gigiyeny Sofiyskogo vysshego voyenno-meditsinskogo instituta, Bolgariya.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

MARKOV, M., polkovnik meditsinskoy sluzhby; KUPENOV, N., polkovnik meditsinskoy sluzhby; PETROV, M., podpolkovnik meditsinskoy sluzhby; OBRETENOV, O., podpolkovnik meditsinskoy sluzhby

Competition in the field of living conditions, health protection and cultural recreation and control of infectious diseases in the Bulgarian Peoples Army. Voen.-med. zhur. no.3:16-19 '65.
(MIRA 18:11)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

RUMANIA

KUPENOV, N., Prof. Colonel; BAEV, D., Lieutenant-Colonel; PETROV, M., Lieutenant-Colonel; and ELENKOV, G., Lieutenant-Colonel (People's Republic of Bulgaria)

"Considerations on the Importance of Serum Hepatitis in the Bulgarian People's Army"

Bucharest, Revista Sanitara Militara, Vol 16, Special No., 1965; pp 292-294

Abstract: Data on infectious serum hepatitis in Bulgaria, especially in the Bulgarian People's Army: 1957 to 1964 the incidence ranged from 140 in 1963 to 202 in 1961; by month (total all 8 years) from 71 in June to 144 in August; total all 8 years, 1,306 cases. Contamination with needles used in vaccination, laboratory tests, and transfusions seem to be the mode of transmission. 2 tables.

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Epidemiology

BULGARIA

KUPENOV, N., and PETROV, M., Colonels of the Medical Service; BAEV, V., and ELENKOV, G., Lieutenant-Colonels of the Medical Service.

"Epidemiology of Infectious Hepatitis in the People's Army"

Sofia, Voenno Meditsinsko Delo, Vol 21, No 1, Feb 66, pp 51-56

Abstract: The epidemiology of infectious hepatitis in the Bulgarian army in 1953-1964 was studied. During this period there was a slightly rising trend in the incidence of infectious hepatitis in the Bulgarian army and in Bulgaria in general. The study indicated that individual cases of the disease among military personnel, which were more frequent than those associated with localized outbreaks in the army, were due primarily to contacts with the civilian population. Investigation of sanitary conditions in detachments in which epidemic outbreaks occurred led to the conclusion that the principal mechanism of transmission was intestinal. The outbreaks generally occurred in the summer months, when intestinal diseases were prevalent. In some detachments, occurrence of infectious hepatitis preceded or accompanied outbreaks of dysentery. There were no indications that infectious hepatitis in the army was transmitted by the air droplet mechanism or by inoculation into the blood stream. Tables and graphs, 16 references(4 Bulgarian, 2 Western). Russian summary.

1/1

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPER A.I. and GRENNAUS, G. I.

Gor'kovsk Oblast Inst Epidemiology and Microbiology, (-1944-).

"Reaction of uroagglutination in Typhus exanthematicus."

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 1-2., 1944.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPER, A-I.

64

14

Determination of ferricyanides in water. A. I. Kuper. *Gigiena i Sanit.* 12, No. 9, 11-14(1947).—The iodometric method can be used for concns. above 10 mg./l. Lower concns. give errors of 2-3%. A colorimetric method was developed for such cases: this is based on formation of Turnbull blue and is sensitive to 0.2 mg./l. of $Fe(CN)_6$. A 100-ml. sample is treated with 0.5 ml. 1:5 HCl and 0.5 ml. 10% $FeSO_4$; after 30 min. the color is compared with standards of $K_3Fe(CN)_6$ prepd. simultaneously. The results agree (abs. values) within 0.02-0.0003 mg. with the known values. If the test water is colored, suitable color compensation must be used in the standards. G. M. K.

CASE-SEA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPER, A.I., kandidat biologicheskikh nauk

Sanitary characteristics of the Kama River in the region of discharge of industrial sewage from an aniline dye plant. Gig. i san. 22 no.2:61-62 F '57 (MLRA 10:4)

1. Iz Nauchno-issledovatel'skogo sanitarnogo instituta imeni Erismana.

(SANITATION
in Russia, problems)

(WATER
river pollution due to discharges from aniline dye plant, sanitation problems in Russia)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

GURVICH, L.S., kand.med.nauk; KUPER, A.I., kand.biologicheskikh nauk

Presence of phenols in sewage from oil refineries. Gig. i san. 25 no.3:105-106 Mr '60. (MIRA 14:5)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta sanitarii i gigiyeny imeni F.F. Erismana Ministerstva zdravookhraneniya RSFSR.
(SEWAGE) (PHENOLS)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

BUTLEROV, A.M.; KEKULE, A.; KUPER, A.S.; MARKOVNIKOV, V.V.; BYKOV, G.V. [translator]; LIBERMAN, A.L. [translator]; RAYTMAN, L.A. [translator]; KAZANSKIY, B.A., red.; GUSEVA, A.P., tekhn. red.; GUS'KOVA, O.M., tekhn. red.

[Centennial of the theory of chemical structure] Stoletie teorii khimicheskogo stroeniia; sbornik statei. By A.M. Butlerov i dr. Moskva, Izd-vo Akad. nauk SSSR, 1961. 146 p. (MIRA 14:12)
(Chemical structure)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPERA, D.

Abstract seperation. In French. p. 105.
(Glasnik Matermaticko-fizicki I astronomski, Vol. 11, No. 2, 1956. Zagreb, Yugoslovia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957, Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPERA, G.

Yugoslavia (430)

Science-Periodicals

Rational numbers as ordered triplets of natural itegers. Text in English p. 133. Hrvatsko prirodoslovno drustvo. GLASNIK MATEMATICIO-FIZICKI I ASTRONOMSKI. Zagreb. (Five no. a year; bulletin on mathematics, physics, and astronomy issued by the Croatian

East European Accessions List, Library of Congress, Vol. 2, No. 6, June 1953. Unclassified.

"Card 1 of 2"

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPERA, G.

Yugoslavia (430)

(continued) Society of Natural Sciences
French, English, or German summaries).
Serija II, Vol. 7, No. 3, 1952.

East European Accessions List, Library of Congress
Vol. 2, No. 6, June 1953. Unclassified.

"Card 2 of 2"

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPERA, G.

Some principles of induction. In English. p. 1

Srpska akademija nauka. Matematicki institut. PUBLICATIONS. Beograd, Yugoslavia. Vol. 8, 1955

Monthly list of East European Accessions (EEAI) LC, Vol. 8, 1959

Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPARA, S.

"Peano's Transformations and Suslin's Problem." p. 175, (GLASNIK MATEMATICKO-FIZICKI I ASTRONOMSKI, Vol. 8, no. 3, 1953. Zagreb, Yugoslavia.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPERA, S.

Convex functions. In English. p. 89.
(Glasnik Matematicko-fizicki I astronomski, Vol. 11, No. 2, 1956, Zagreb, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

GORBACHEV, D.F.; KUPERBERG, A.B.

Provide the sugar industry with modern equipment. Sakh. prom. 36 no.7:5-7 Jl '62. (MIRA 17:1)

1. Smelyanskiy mashinostroitel'nyy zavod.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPERBERG, L.B.

New type of atomatic voltage regulator for small electric power stations. Spirt.prom. 22 no.2:27-29 '56. (MLRA 9:8)

1. Kiyevskiye elektromekhanicheskiye masterskiye tresta Ukrsakhremsnab.

(Voltage regulators)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

HOLSZTYNSKI, W. (Warszawa); KUPERBERG, W. (Szczecin)

On certain properties of tetrahedrons. Rocz wiad matem 6 no.1:13-16 '62.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

UMANSKIY, V.Ya.; KUPERMAN, A.A. (L'vov)

Device for lifting the bottom pads of a pneumatic press.
Shvein. prom. no.2:35 Mr-Ap '63. (MIRA 16:8)

(Pressing of garments—Equipment and supplies)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

VLASOV, M.A.; KUPERMAN, A.L.

Results of the testing of lug-type tires for standard ZIL and GAZ trucks. Avt.prom. no.9:23-25 S '61. (MIRA 14:9)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.
(Motortrucks--Tires)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

L 13224-63 BDS/EWT(d)/EWT(1)/FCC(w) ASD/ S/044/63/000/003/047/047
AFFTC/ESD-3/APGC Pg-4/Pk-4/Pl-4/Po-4/Pq-4 IJP(C)/JXT(IJP)/GG

80

AUTHOR: Kuperman, A. M.

TITLE: Elimination of noise during input of information into a controlling digital computer 16

PERIODICAL: Referativnyy Zhurnal, Matematika, No. 3, 1963, 72, Abstract 3V72 (Sb. Diskretn. Preobrazovateli i Telemekhan. Ustroystva dlya Upravlyuyushchikh Vuchisl. Mashin. Khar'kov, 1961, 65-76).

TEXT: A general survey is given for the problem of information input. The problem of eliminating noise during input of information is examined. When information is read into a controlling digital computer, the struggle to eliminate noise should be waged chiefly at the stage of transforming a message into signals. From the standpoint of reading information into controlling digital computers, it is of interest to analyze the problem of quantizing by levels with a given probability distribution of message and noise. The problem of achieving a given level of noise elimination is stated and solved. The encoding device performs functions similar to the functions of the receiver in Kotel'nikov's theory of potential elimination of noise. On the basis of this theory the author obtains relations that establish the connection between the a priori probabilities of events, the width of quantization zones, noise intensity, and elimination of noise. One can obtain a maximum of transmitted information with given a priori probalities of messages by making us of functional transformations of messages.

Card 1/2

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPERMAN, A.M. (Leningrad)

Application of the theory of statistical decisions to some level quantization problems. Avtom. i telem. 24 no.12:1685-1691 D '63. (MIRA 17:1)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

DYTNERSKIY, Yu.I.; ALEKSANDROV, I.A.; SHEYNMAN, V.I.; VOL'SHONOK, Yu.Z.; KUPERMAN, A.M.

Investigating hydraulics and mass transfer regularities in columns with corrugated downcomerless type plates. Khim.prom. no.1:70-74 Ja '64. (MIRA 17:2)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EPR/EWP(j)/T/EWP(b) Pc-4/Pc-4/
Pa/RM/WH

ACCESSION NR: AP5004559 S/0193/64/000/009/0016/0017

AUTHOR: Zelenskiy, E. S.; Kuperman, A. M.; Kogan, A. A.

TITLE: SVAM glass-reinforced plastic with a nonwoven, oriented structure

SOURCE: Byulleten' techniko-ekonomicheskoy informatsii, no. 9, 1964, 16-17

TOPIC TAGS: synthetic material, fiberglass

ABSTRACT: Processes have been developed at the Institute of Chemical Physics, Academy of Sciences SSSR, for making nonwoven, oriented, glass reinforced plastics. The new processes combine glass-fiber pulling and binder application with fiber orientation and drawing in the binder. Preservation of the fresh intact fiber surface by the binder and strict orientation and drawing of the fibers result in maximum utilization of the strength of the monofilaments. The combination process yields the molding material Stekloshpon without intermediate operations in some instances elements of finished products are produced. Glass fibers are pulled from the bush-

Card 1/3

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L 21806-65

ACCESSION NR: AP5004559

ing of the furnace and wound parallel or at a 1—5° angle on a winder while the binder is simultaneously applied. The material is then cut into 0.1—0.5-mm sheets which can be further processed by the usual methods [illegible] Plant of Laminated Plastics [illegible] oriented glass [illegible] makes it possible to use [illegible] various types of polymer binders for producing materials with a wide range of properties

Investigations conducted at the Giprosteklo Institute and the Ivotskiy [illegible] revealed that the elimination of textile [illegible] the glass [illegible] in a stronger and less expensive material [illegible] could be further reduced by the use of furnace [illegible] of glass fiber and by the introduction of continuous highly mechanized processes.

Card 2/3

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

L 1[illegible]-65

ACCESSION NR: AP5004559

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MT

NO REF SOV: 000 OTHER: 000 FSB v. 1, no. 2

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

L 62709-65 EPF(c)/EPA(s)-2/EWA(h)/EWP(j)/EWP(k)/EWT(d)/EWT(1)/EWT(m)/EWP(h)/T/EWP(1)/EWA(d)/EWP(w)/EWP(v) Po-4/Pf-4/Pr-4/Ps-4/Pt-7/Pab EW/RM/WW/JD

ACCESSION NR: AP5019030 UR/0286/65/000/012/0065/0066

666.189 22.002.5

104
100
B

AUTHOR: Gavrilov, I. K.; Filippov, D. A.; Strukov, V. M.; Blatov, V. S.; Shalimov, A. S.; Vul, N. I.; Ivanov, A. M.; Belyakov, V. V.; Frolov, R. A.; Khantsis, R. Z.; Andriyevskaya, G. D.; Zelenskiy, E. S.; Kuperman, A. M.; Dobrovol'skiy, A. K.; Dzhereliyevskiy, A. B.

TITLE: Winding machine. Class 32, No. 172009

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 65-66

TOPIC TAGS: glass reinforced plastic, plastic filament, fiber glass, filament winding, winding machine, filament wound article

ABSTRACT: This Author Certificate introduces a machine for fabrication of glass-reinforced plastic articles by filament winding. The machine includes a drive with a reductor and a mandrel mounted on a rotating shaft. To fabricate spherical shapes the machine is equipped with profiled guides transmitting to the mandrel a tilting motion around the vertical axis simultaneously with a rotation around the axis (see Fig. 1 of the Enclosure). Orig. art. has: 1 figure. [ND]

Card 1/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

L 62709-65

ACCESSION NR: AP5019030

4

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po aviatsionnoy tekhnike SSSR (Organization of the State Committee on Aviation Engineering, SSSR) 44,55

15

SUBMITTED: 19May64 ENCL: 01 SUB CODE: MT,IE

NO REF SOV: 000 OTHER: 000 ATD PRESS: 4064

Card 2/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

L 11260-66 (A) EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(j)/T/EWP(k)/EWA(h)/ETC(m) EM/WW/RM

ACC NR: AP5028475 SOURCE CODE: UR/0286/65/000/020/0056/0057

INVENTOR: Gavrilov, I. K.; Filippov, D. A.; Strukov, V. M.; Blatov, V. S.; Shalimov, A. S.; Vul, N. I.; Ivanov, A. M.; Belyakov, V. V.; Frolov, R. A.; Khantsis, R. Z.; Andriyevskaya, G. D.; Zelenskiy, E. S.; Kuperman, A. M.; Dobrovol'skiy, A. K.; Dzhereliyevskiy, A. B.

ORG: none

TITLE: Method of fabricating fiberglass shells. Class 32, No. 175624

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1065, 56-57

TOPIC TAGS: shell, cylindrical shell, fiberglass shell, shell fabrication, fiberglass winding, solid fuel rocket, rocket case

ABSTRACT: This Author Certificate introduces a method of fabricating shells from fiberglass wound on a pattern which is then melted out or dissolved. To increase the strength of the shell, the winding is combined with the stretching of fiber by means of a fiber guide which rotates around the pattern. [DV]

SUB CODE: 11,19 SUBM DATE: 02Jul64/ ATD PRESS: 4171

HW

Card 1/1

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPERMAN, B.I.

Species variability of the genus Triaenophorus Rud. (Cestoda, Pseudophyllidea). Trudy Zool. inst. 35:175-186 '65. (MIRA 19:1)

1. Zoologicheskiy institut AN SSSR.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPERMAN, B.I.

Epizootiology of Dictyocaulus infestation of sheep in Pskov Province. Paraz. sbor. 20:356-359 '61. (MIRA 14:9)

1. Slavkovskiy veterinarnyy otdel rayonnogo Soveta deputatov trudyashchikhsya i Zoologicheskiy institut AN SSSR.
(KARAMYSHEVO DISTRICT--NEMATODA) (PARASITES--SHEEP)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

MARKOV, N.N.; KUPERMAN, B.M.

Design of electric contact transducers used in machinery manufacture. Stan.i instr. 33 no.3:34-36 Mr '62. (MIRA 15:2)
(Transducers)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

KUPERMAN, B.M.; MARKOV, N.N.; MASHINISTOV, V.M.

Selecting materials for the measuring contacts of pickups.
Stan.i instr. 33 no.9:22-25 S '62. (MIRA 15:9)
(Measuring instruments)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

L 25828-66 EWT(d)/EWT(m)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(l) LJP(c)
ACC NR: AP6012361 JD/JT SOURCE CODE: UR/0025/65/000/010/0023/0025

AUTHOR: Kuperman, B. M. (Designer)

ORG: Interchangeability Bureau of SSSR Gosplan State Committee on Machine Construction (Byuro vzaimozamenyayemosti goskomiteta po mashinostroyeniyu pri Gosplane SSSR)

55
B

TITLE: Internal grinding and active control devices

SOURCE: Standartizatsiya, no. 10, 1965, 23-25

14

TOPIC TAGS: grinding machine, grinding, machine tool, automatic control system/ BV-4045 automatic control system, BV-4036 automatic control system, BV-4052 automatic control system, 3A227S internal grinder, LSh-1 internal grinder, 61A internal grinder

14

ABSTRACT: Because of the low stiffness of grinding wheel supports on internal grinding machines, active control of the grinding operation becomes essential for accurate results. Three of the active control methods are briefly and qualitatively discussed. For holes of 25--200 mm the most common control system consists of a hole diameter gage which remains in contact with the machined surface, a controlled feed-drive and a read-out. These are standardized units which can be adapted to particular machines such as control BV-4045 for internal grinder 3A227S (25--65 mm). For diameters larger than 200 mm the predominant inaccuracies arise from thermal

Card 1/2

UDC: 621.925.681.1/.2

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000927610001-5

L 25828-66

ACC NR: AP6012361

effects. These can be compensated by using two sensors which do not remain in the hole but which are inserted and retracted alternately with the grinding wheel. One control system based on this method (BV-4036) has been developed for internal grinder LSh-1 (3--16 mm) and has proved satisfactory under industrial conditions. To eliminate the contact forces of the measuring sensors, a no-contact control system BV-4052 has been developed for internal grinder model 61A. This uses a pneumatic thickness gage. No specific technical data are given on any of the control systems.

SUB CODE: 13/ SUBM DATE: none

Card 2/2

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