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ACC NR: AP6011227

(A)

SOURCE CODE: UR/0413/66/000/006/0065/0065

AUTHORS: Golovko, V. N.; Shkol'nikov, B. M.; Zhitkov, N. B.; Chepurov, B. M.;  
Volkovirskiy, I. I.

ORG: none

TITLE: Frictional disk brake. Class 35, No. 179893 [announced by State Scientific  
Research and Design-Construction Institute for Petroleum Machinery Construction  
(Gosudarstvennyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut  
neftyanogo mashinostroyeniya)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 65

TOPIC TAGS: friction, well drilling machinery, drilling machine

ABSTRACT: This Author Certificate presents a frictional disk brake for, say, drill hoists. The brake consists of a casing, a shaft connected to the shaft of the drill hoist, and a friction disk. To insure the independent action of the braking moment from the rotary velocity of the hoist shaft, the immovable friction disks contain internal openings (see Fig. 1). These openings are connected to a closed circuit through which cooling liquid is circulated by, say, a centrifugal pump. To facilitate the exchange of friction sheaves, the latter are loosely held by the disks.

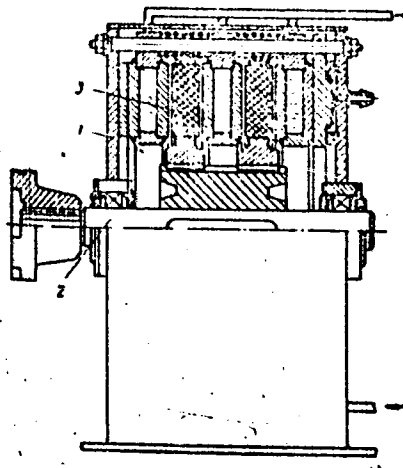
Card 1/2

UDC: 622.24.054:621.864.-783.52

L 05191-67

ACC NR: AP6011227

Fig. 1. 1 - case; 2 - shaft; 3 - friction disk.



Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 12Aug63

Card 2/2 vmb

ГОЛОВКО, В. П.

15-1957-1-96

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1,  
p 13 (USSR)

AUTHOR: Golovko, V. P.

TITLE: Change in the Molluscan Fauna of the Lower Sarmatian  
Deposits in the Vicinity of Veselyanka Village and  
the Comparison of This Fauna with That of the Same  
Deposits From Other Localities (Izmeneniye fauny  
mollyuskov otlozheniy nizhnego sarmata okrestnosti  
s. Veselyanki i sravneniye ikh s faunoy tekhn zhe  
otlozheniy iz drugikh mestonakhozheniy)

PERIODICAL: Tr. Odessk. gos. un-ta, Sb. geol. geogr. fak, 1954,  
vol 2, pp 121-139

ABSTRACT: Two horizons, differing in their mollusk population  
can be distinguished in the Lower Sarmatian deposits  
on Konka River: the lower, in which Mohrensternia

Card 1/2

Change in the Molluscan Fauna of the Lower Sarmatian Deposits in  
the Vicinity of Veselyanka Village and the Comparison of This  
Fauna with That of the Same Deposits From Other Localities  
15-1957-1-96  
APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515820014-5"

15-57-2-1345  
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 2,  
p 24 (USSR)

AUTHOR: Golovko, V. P.

TITLE: Ostracoda From the Meotian and Upper Sarmatian Deposits  
in the Village of Kubanka (O faune ostrakod iz meo-  
ticheskikh i verkhnesarmatskikh otlozheniy s. Kubanki)

PERIODICAL: Tr. Odessk. un-ta, 1955, Vol 145, ser. geol. i geogr.,  
Nr 3, pp 41-54

ABSTRACT: The author describes 12 new species of ostracoda (genera  
Ilyocypris, Kaspiocypris, Cythere, Loxoconcha, Xestole-  
beris) from the upper Sarmatian and Meotian deposits of  
the Kuyal'nitskiy estuary, 35 km northeast of Odessa.  
In the upper Sarmatian, 15 species characteristic of the  
coastal deposits of the brackish water basin are found  
together. There are no fresh water forms. The tran-  
sition to the Meotian is gradual. Almost all of the  
Sarmatian species change into the Meotian, and many new  
species are introduced. Altogether 31 species were

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Ostracoda From the Meotian and Upper Sarmatian (Cont.) 15-57-2-1345

found. The lower layers of the Meotian were deposited in a saline basin, and contain a rich ostracoda fauna. The upper layers were deposited in a less saline basin, where a part of the species died out and fresh water forms appeared. The author compares the ostracoda of the Meotian and the upper Sarmatian in the Crimean-Caucasian region and in the village of Kubanka.

Card 2/2

V. A. K.

AUTHOR: Golovko, V. P. SOV-25-58-9-58/62  
TITLE: Letter to the Editor (Nam pishut)  
PERIODICAL: Nauka i zhizn', 1958, Nr 9, p 77 (USSR)  
ABSTRACT: The author, director of the Paleontologic Museum of Odessa State University imeni I.I. Mechnikov, describes the discovery of the skeleton of a large mammoth near Odessa.  
1. Paleocology-USSR

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GOLOVKO, V.P. [Golovka, V.P.]

Southern mammoth *Elephas primigenius Jatskovi* subsp.nov. from  
alluvium of the Chichikleya River in the vicinity of Alekseyevka.  
Pratsi Od. un sbir. mol. vchen. un. 148 no.3:315-321 '58 (MIRA 13:3)

1. Nauchnyy rukovoditel' - dots. I.Ya. Hatsko.  
(Mammoth)

ZOR'KIN, I.M.; GOLOVKO, V.T.; STOROZHEV, A.D.

Hydrogeological conditions of the Berezhovo gas-bearing region  
in Western Siberia. Trudy VNIIGAZ no.22:204-322 '64.

(MIRA 17:10)

GOLOVKO, V.M., Inzh.

Controlling device for submerging reinforced-concrete piles.  
Transp. stroj. 15 no.2:28-31 i '65. (MIRA 18:3)

SHUROVSKIY, V.G.; VLADIMIROV, V.P.; GNATYSHENKO, G.I.; KUROCHKIN, A.F.;  
SHCHURNOVSKIY, Yu.A.; ADSON, M.I.; GOLOVKO, V.V.

Some physicochemical properties of charges for and the products of  
the electric smelting of Dshenkagan copper concentrates. Izv.AN  
Kazakh SSR, Ser. met., obog.i ognep. no.1:8-13 '61. (MIRA 14:6)  
(Dshenkagan—Copper—Electrometallurgy)

TSDET, A.L.; QAYEV, I.A.; SHCHERBINA, V.G.; KUR'YANOV, A.P.; BANFILOV,  
P.S.; ADSON, N.I.; GAVRILIN, V.V.

Liquative electric smelting of Dzhezkazgan copper concen-  
trates with the production of high calcium slag. Study  
Inst. met. i obog. AN Kazakh. SSR 8240-49 '63 (MIRA 17:8)

KIM, G.V.; KVIATKOVSKIY, A.N.; ABDEYEV, M.A.; GOLOVKO, V.V.

Vacuum treatment of blister copper. Trudy Akad. Nauk Kazakh SSR  
14:86-89 163. (MIRA 16:9)  
(Copper—Metallurgy) (Vacuum metallurgy)

OHAYEV, I.A.; KUROCHKIN, A.F.; TSEPT, A.L.; ADEU, N.I.; GOLUYKO, V.V.;  
KENTASOV, V.I.

Smelting of the Balkhash copper concentrates with an oxygen-  
enriched blow in cyclone furnaces. Vest. AN Kazakh. SSR 21  
no.1:27-34 Ja '65. (MIRA 18:7)

ACC NR: AP7002615 (A, N) SOURCE CODE: UR/0413/66/000/023/019/0130

INVENTOR: Golovko, V. Ya.; Spektor, L. A.; Agranat, A. R.; Mezhakov, V. ;  
Khodorchenko, A. S.; Olifir, V. P.

ORG: Ncne

TITLE: A radial plunger pump. Class 59, No. 189314 [announced by the Gorlovka  
Machine Building Plant im. S. M. Kirov (Gorlovskiy mashinostroitel'nyy zavod)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 129-130

TOPIC TAGS: hydraulic pump, fluid friction

ABSTRACT: This Author's Certificate introduces a radial plunger pump with a rotating  
cylinder block. The pump is designed for operation as a high-efficiency submerged  
unit by eliminating oil friction in the rotating components. The cylinder block is  
enclosed in a chamber with two vent holes, one to permit escape of the oil from the  
chamber under the effect of centrifugal forces, and the other to prevent the formation  
of a vacuum in the chamber by communicating with the atmosphere.

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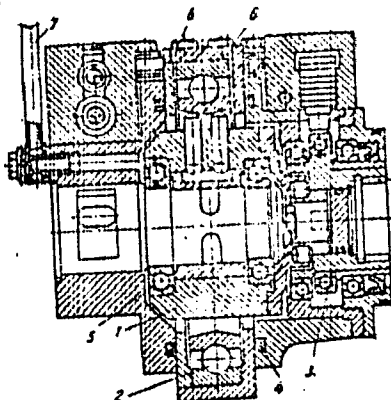
UDC: 621.653-728

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2733



ACC NR: AP7002615



1--rotor; 2--bearing; 3--shaft; 4--seal; 5--chamber; 6--hole for escaping oil;  
7--hole communicating with the atmosphere

SUB CODE: 13/ SUBM DATE: 16Dec64

Card 2/2

PODKOLZIN, P.S.; FINSKER, P.Z.; GOLOVKO, Ya.S.; GAVRISH, V.I.

Mining industry in the Ukraine on the 40th anniversary of  
the Great October. Nauch. trudy KHGI no.6:15-29 '58.

(MIRA 14:4)

(Ukraine--Mines and mineral resources)

GOLOVKO, Ya. V. [Golovko, IA.V.]

Increasing the reliability and lengthening the service life  
of food machinery. Khar. proc. no.1:60 Ja-Mr '63.  
(MIRA 16:4)

(Food machinery)

GOLOVKO, Ya.V. [Golovko, IA.V.]

Basic trends for the modernization of the automatic IZ "Iris" coffee  
wrapping machine. Kharch.prom. no.4:11-13 O-D '63. (MIRA 17:1)

GOLOVKO, Yu.V.

Difficultly obtainable materials should be saved. Mashinostroi'tel'  
no.7:35 J1 '63. (MIRA 16:9)  
(Machinery industry—Management)

ГОЛОВКО, Ян.В. [Golovko, IA.V.]

... automatic SERVA machine for twist wrapping of wires. (cont.)  
publ. no.3:13-16 31-S '65. (1965:18:0)

GOLOVKO, Ya.V. [Holovko, IA.V.]

Increasing the reliability and lengthening the service  
life of food machinery. Khar. prom. no.4:56-59 O-D '65.  
(MIRA 18:12)

GOLOVKO, Ye.M., inzh.; TSIREL'SON, G.I., inzh.

Machine for the manufacture of cardboard and paper from paper  
stock. Bum. prom. 37 no.7:19-23 J1'62. (MIRA 17:2)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-konstruk-  
torskiy institut bumagodelatel'nogo mashinostroyeniya.



GOLOVKO, Ye.M.

Ways to modernize the cardboard and papermaking machinery. Bum. prom.  
37 no.8:3-6 Ag '62. (MIRA 17:2)

1. Glavnyy inzh. Tsentral'nogo nauchno-issledovatel'skogo i proyektno-konstruktorskogo instituta bumagodelatel'nogo mashinostroeniya.

SEMFNEVA, A. S.; GOLOVKO, YE.G.

Physiology, Pathological

Shortened P-Q interval in a child in visceral transposition as revealed by an electrocardiogram. A. S. Slepneva, YE.G. Golovko. Klin. med. 30 no. 7, 1952

Monthly List of Russian Accessions, Library of Congress, December 1955. UNCLASSIFIED.

GOLOVKO, K.S.N., insh.; TSIREL'SON, G.I., insh.

New design of the dampening attachment for papermaking machines.  
Dun.prom. 34 no.1:21-22 Ja '59. (NIRA 12:1)  
(Papermaking machinery)

GOLOVKO, Ye. N.

Manufacture first-class machinery for the paper industry.  
Bum. prom. 36 no. 11:4-6 N '61. (MIRA 15:1)

1. Glavnyy inzh. Tsentral'nogo nauchno-issledovatel'skogo  
instituta bumagodelatel'nogo mashinostroyeniya.  
(Papermaking machinery)

EYDLIN, Isak Yakovlevich. Prinsipali uchastiye VANCHAKOV, V.M., insh. [deceased]; LATVINOV, M.D., insh.; KOZULIN, N.A., doktor tekhn. nauk, prof., ofitsial'nyy retsentsent; GOLOVEO, Ye.M., insh., ofitsial'nyy retsentsent; KLOPOV, V.M., insh., ofitsial'nyy retsentsent; BHDOTSKIY, A.I., kand. tekhn. nauk, dots., red.; KHIVRICH, Ye.D., red. isd-va; GRECHISHCHEVA, V.I., tekhn. red.

[Papermaking and finishing machines] Bumagodelatel'nye i ot-delochnye mashiny. Izd.2., perer. idp. Moskva, Goslesbum-indat, 1962. 686 p. (MIRA 16:5)  
(Papermaking machinery)

YESSHIN, Vladimir Lvovich, kand. tekhn. nauk; NIKOLAI, Vasily Grigoriyevich;  
SILININ, Akin Konstantinovich; ZHIGVET, Ye.M., red.

[Repair of the technological equipment of woodpulp and paper  
enterprises] Remont tekhnologicheskogo oborudovaniia tsel-  
lulozno-bumazhnykh predpriiatii. Moskva, Lesnaia promysh-  
lennost', 1965. 120 p. (NIRA 14:9)

KUZNETSOV, Pavel Grigor'yevich; GOLOVKO, Ye.V., otv.red.; CHASOVIKOVA,  
M.I., tekhn.red.

[Filing machine] Opilovochnyi stanok. Alma-Ata, TSentr.in-t  
nauchno-tekhn.informatsii, 1959. 26 p. (MIRA 13:9)  
(Machine tools)

MARKOVICH, Mark Mikheylovich; GOLOVKO, Ye.V., otv.red.; CHASOVIKOVA,  
Z.I., tekh.red.

[Use of solar energy in the U.S.S.R. and abroad; possibilities  
of the use of solar energy in Kazakhstan] Ispol'zovanie sol-  
nechnoi energii v SSSR i za rubezhom i perspektivy ee ispol'zova-  
niia v Kazakhstane. Alma-Ata, TSentr.in-t nauchno-tekh.infor-  
matsii, 1959. 28 p. (MIRA 13:11)

(Solar energy)



SECHEDROVITSKIY, S.S., kand.tekhn.nauk; KOPEYKINA, N.N., inzh.; TARAPIN, V.N.,  
inzh.; GOLOVKO, Z.I., inzh.; KISELEVSKIY, S.I., inzh.;  
GOLOVANOV, A.I., inzh.

Universal loader limiter. Bezop.truda v prom. 5 no.7:16-19  
Jl '61. (MIRA 14'6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut stroitel'nogo  
i dorozhnogo mashinostroyeniya.  
(Cranes, derricks, etc.—Safety appliances)

GOLOVKOV, G.A.; KONRADT, A.G.

Combined rearing of carp and whitefish on a commercial carp farm. Trudy sov. Ikht. kom. no.14:59-68 '62. (MIRA 15:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut ozernogo i rechnogo rybnogo khozyaystva (GosNIORKh).  
(Moldavia—Carp)  
(Moldavia—Whitefishes)

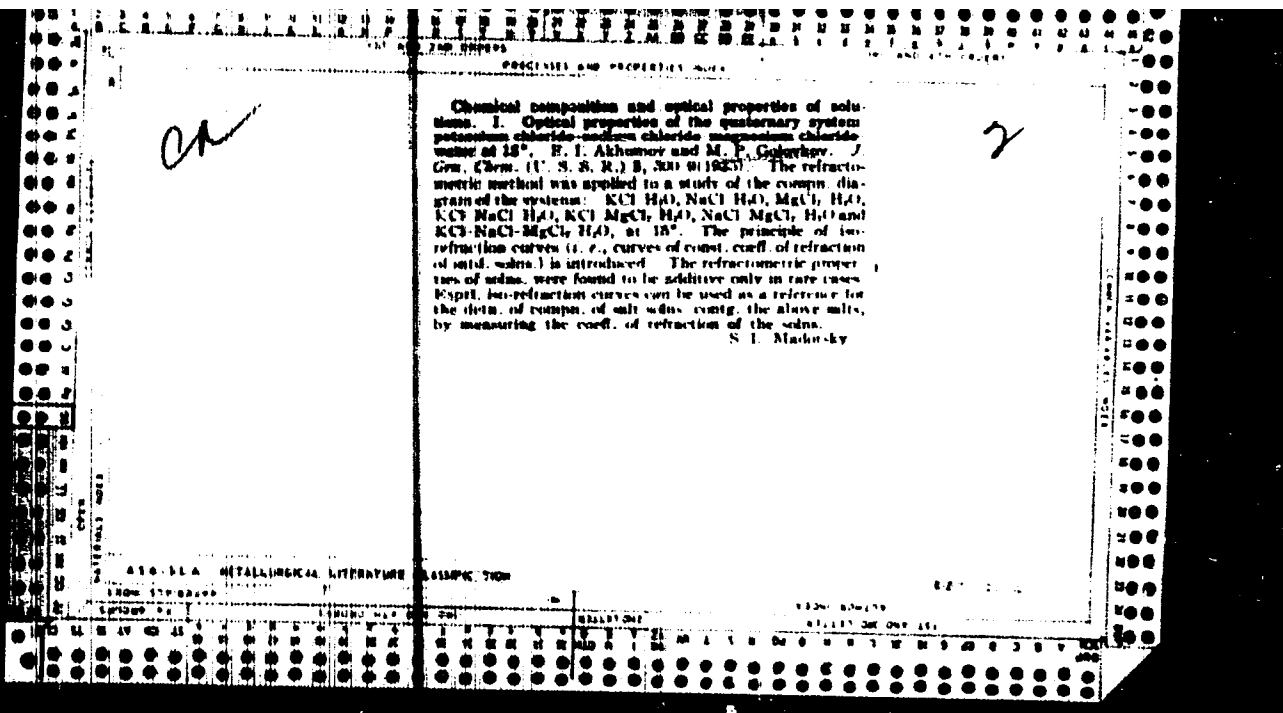
GOLOVKOV, Georgiy Aleksandrovich; KUZ'MIN, Anatoliy Nikolayevich;  
POTEMKINA, N.S., red.; POLUYEKHINA, N.I., tekhn. red.

[Biology of Coregonus peled and the biotechnics of its  
cultivation] Biologiya peljadi i biotekhnika ee razvede-  
niia. Moskva, Rybnoe khoziaistvo, 1963. 52 p.  
(MIRA 17:3)

GOLIKOV, G.D.

Vneklassnaia rabota po khimii (Extra-curricular work in chemistry). Moskva, Uchpedgiz, 1953. 31 p. (Opyt peredovogo uchitelia).

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



18

*Ca*

Physicochemical analysis in the technology of mineral salts. Crystallographical study of aluminum hydroxide obtained at the experimental plant of GIKKh. *M. P. Goloskov. Dokl. Akad. Nauk SSSR, Ser. Khim. Nauk, 1965, 171, 1205.* The synthesis Al(OH)<sub>3</sub> resembles natural gibbsite in its optical and crystallographic properties. Photomicrographs. Application of crystallographical methods (ed analysis) in chemical practice. *M. P. Goloskov and P. K. Karpov. Ibid. 10, 12.* The bakelite solidification studied in various articles is composed of the crystals of trimethylolamine. Crystals of sodium isocyanide dodecahydrate. *O. M. Amelchuk and M. P. Goloskov. Ibid. 11, 17.* Geometrical and optical studies showed that Na<sub>2</sub>P(CN)<sub>2</sub> crystallizes with 10, and not with 12 mole. of H<sub>2</sub>O, as claimed by Bunce (1916). *Ibid. 10, 1100.* Production of phosphorus pentoxide. *M. P. Goloskov, V. A. Kiselev, M. S. Mikhaleva and A. P. Orskhov. Ibid. 17, 30.* By the modified Kurlow process, P<sub>2</sub>S<sub>5</sub> is obtained in 96% yield by passing dry, powdered P into melted S in a C<sub>2</sub> atm., with stirring, at the initial temp. of 125° and final temp. of 400°. Its thermodynamic heating of the powder, P<sub>2</sub>S<sub>5</sub>, at 330° for 6 hrs., the unchanged portions of P and S are converted into P<sub>2</sub>S<sub>5</sub>, while the excess of S is either expelled or dissolved with the formation of a solid soln. in minute crystals. The product is characterized by striated fracture, yellow color, optical isotropy, homogeneous texture, m. 262°, d. 2.082, n<sub>D</sub> 1.418 and sol. in 10 parts of CS<sub>2</sub> at 0°. The ammoniates of sodium and calcium cyanides and chlorides. *H. H. Vash'ev, M. P. Goloskov and A. I. Luttinger. Ibid. 30, 3, of 1-4, 29, 0.* Complex reciprocal system of sodium and thallium nitrate, chloride and sulfate. *N. P. Lushnaya. Ibid. 17, 61.* The reciprocal system, NaCl-NaNO<sub>3</sub>-Na<sub>2</sub>SO<sub>4</sub>-TlCl-TlNO<sub>3</sub> connected by the equation of double decompn., was studied by the method of thermal analysis. The spatial diagram of the complex system is represented by a tetrahedral prism in which the temp. is expressed by isothermic planes, which are the projections of the temp. factor on the prism of the components. In accordance with the thermochem. calcs. the reaction of double decompn. is irreversible in the direction of the formation in the 1st instance of TlCl and then Na<sub>2</sub>SO<sub>4</sub>. Hence, the spatial diagram is intersected by 2 stable sections into 4 tetrahedrons, 2 of which

*see other side* →

ALL-USA METALLURGICAL LITERATURE CLASSIFICATION

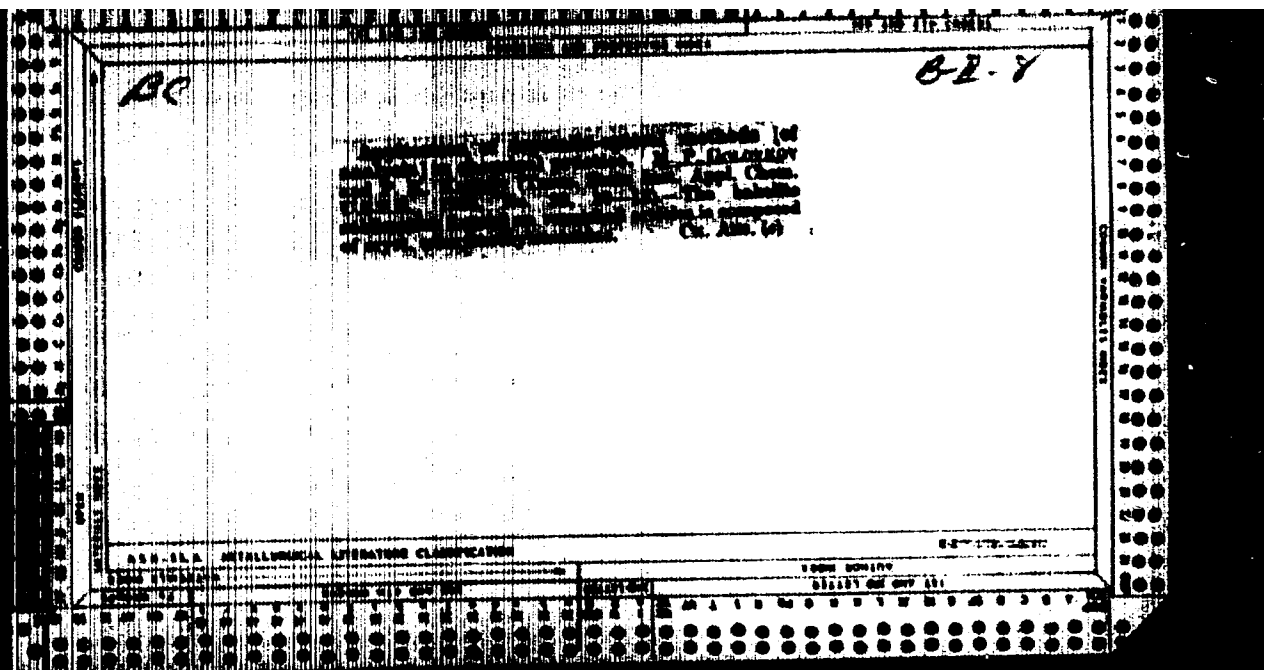
GROUP 1-9	GROUP 10-20	GROUP 21-30	GROUP 31-40	GROUP 41-50	GROUP 51-60	GROUP 61-70	GROUP 71-80	GROUP 81-90	GROUP 91-00

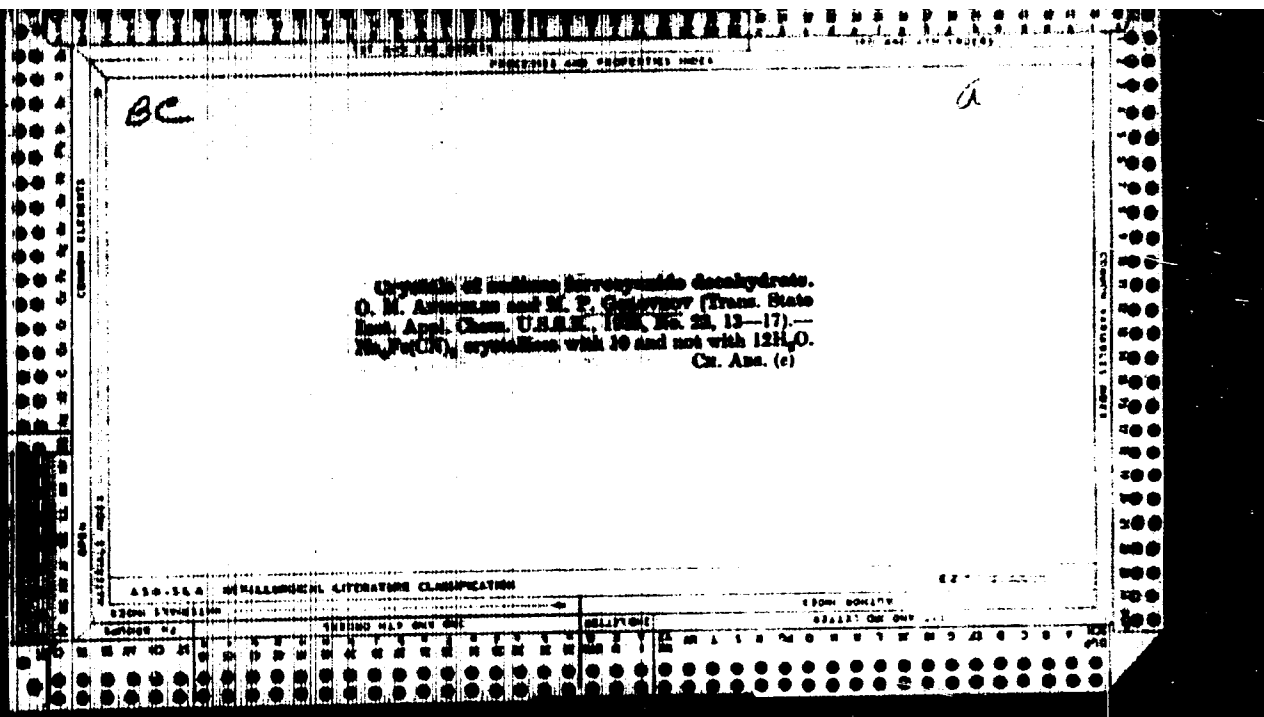
are rectangular and the third at the center is acute-angled. The stable systems represent the ternary eutectic systems, and the tetrahedrons (the simple quaternary systems). In the second, as well as in the tetrahedrons, all the lines are simultaneously present, but, because of the irreversibility of the reactions, they are grouped into 3 or 4 components actually present. Ternary system  $KCl-KNO_3-K_2SO_4$ . K. I. Kur'mina. *Ibid.* (3) 6. The system  $K_2SO_4-KNO_3$  was studied by the method of solubility of the last crystals. Six internal sections of the system  $KCl-KNO_3-K_2SO_4$  are shown. A Poysson triangle is drawn, showing the mutual solubility of the investigated components. The general eutectic is 31% with the (solub.)  $K_2SO_4$ , 1,  $KCl$  10.7% and  $KNO_3$  82.2%. Physicochemical conditions of the crystallization of potassium chlorate at 0° and -10°. A. I. Zaslavskii. *Ibid.* 67-84. The eutectics of the reciprocal system  $2KCl + CaCl_2$  at 0° and -10° were detd.

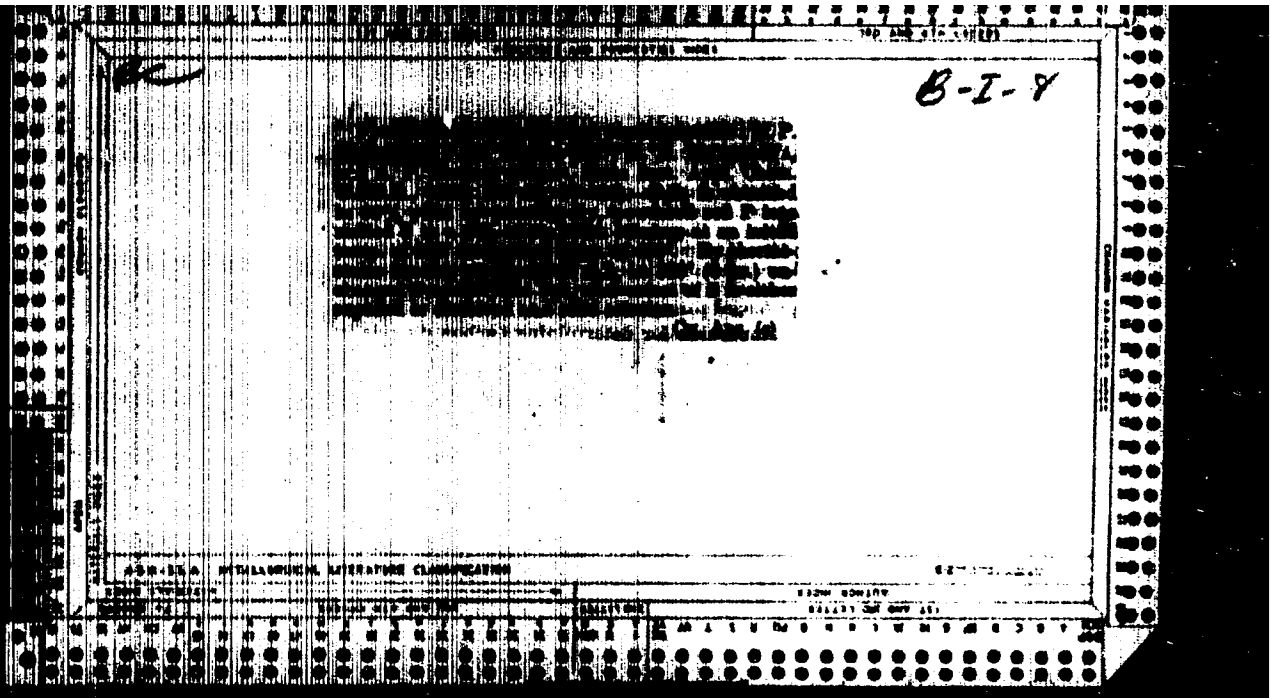
To learn the conditions of  $KClO_3$  crystals in the production with  $Ca(OH)_2$  and  $Cl_2$ . Curves and tables are given for the yields of  $KClO_3$  sep'd. by crystals in relation to the composition of the reaction mixt. and temp. It is shown that under suitable conditions the yield of  $KClO_3$  can be increased to 93.8% at 0° and 94.5% at -10°. Binary system ammonium chloride-water. K. I. Akhmedov and B. B. Vasil'ev. *Ibid.* 85. Solub. of  $NH_4Cl$  in  $H_2O$  at  $100-215^\circ$  is tabulated. Isotherm of equilibrium of reciprocal system potassium chloride-calcium chloride at 25° in aqueous solution. V. B. Kurov. *Ibid.* 86-88. The solub. of the system:  $2KCl + Ca(ClO_3)_2$ ,  $2KCl + CaCl_2$  at 25° and the solub. relations of  $CaCl_2$ ,  $2KCl + CaCl_2$  at 25° and the solub. relations of  $CaCl_2$  (cf. within the temp. range of -40° to 200° were detd. (cf. C. A. 26, 8282). Sodium and potassium carbonate and bicarbonate in aqueous solutions. A. G. Burgomet, B. B. Vasil'ev and S. B. Simov. *Ibid.* 97-100. Methods of prep. of  $Na_2CO_3$  and  $K_2CO_3$  in the same, obtained in the production of  $Al(OH)_3$  from Khibin nephelins were studied. The isotherm for the system  $NaHCO_3-KHCO_3-H_2O$  was detd. at 0°. The system  $Na_2CO_3-K_2CO_3-H_2O$  was studied by the polythermic method at -87 to 25° and by the isothermic method at 80-120°. A good separation of Na and K can be effected from the ground residues treated with  $CO_2$ , because  $NaHCO_3$  and  $KHCO_3$  form no solid solns. (usual results were obtained by partial

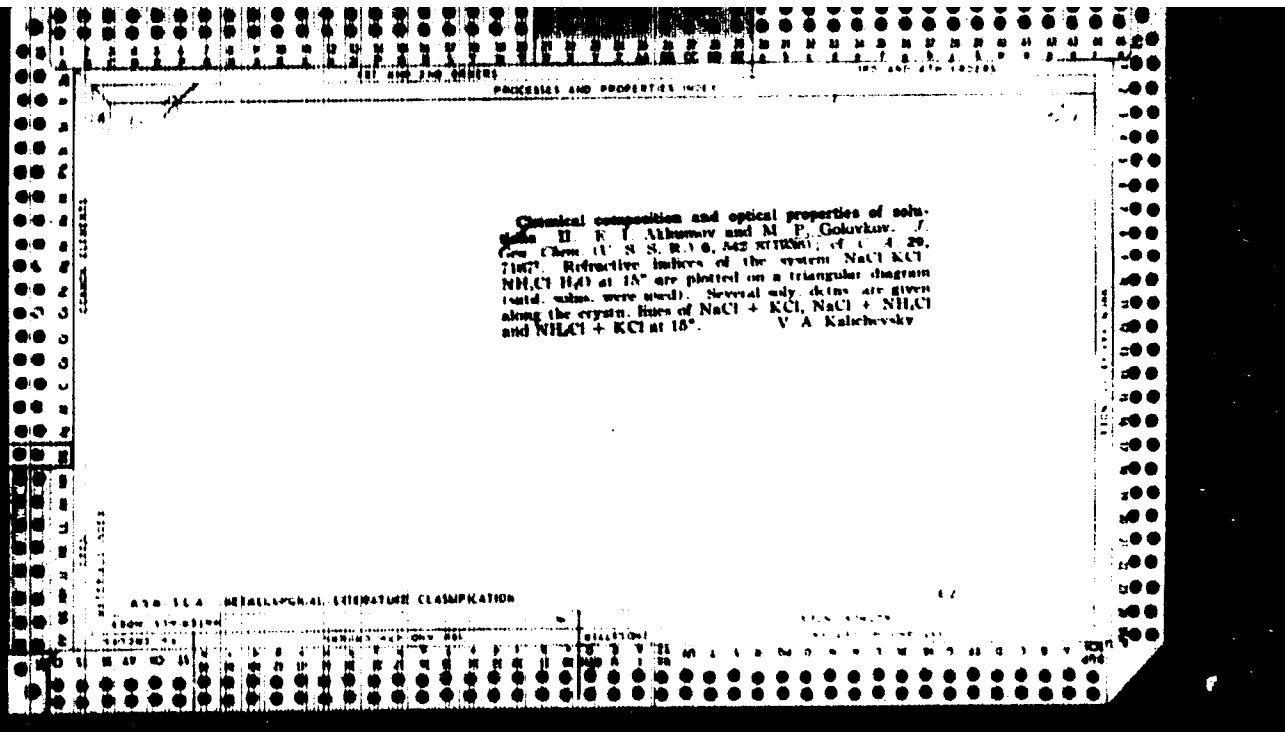


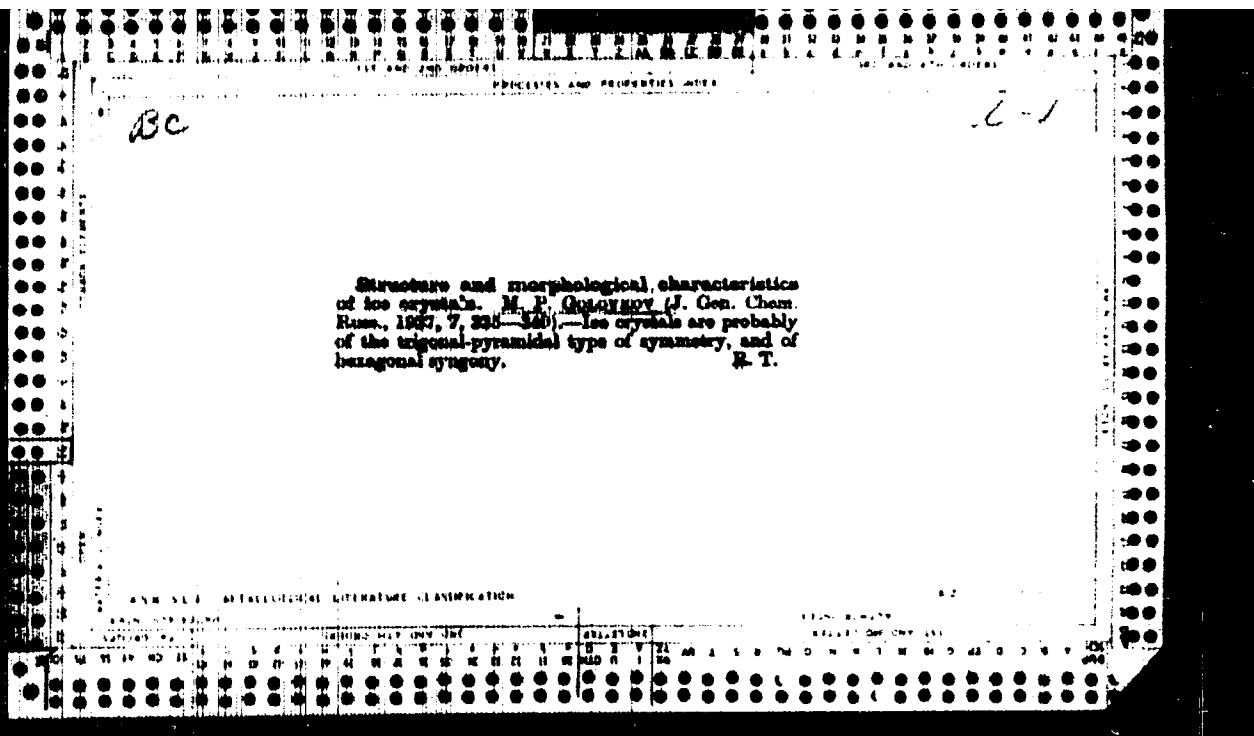


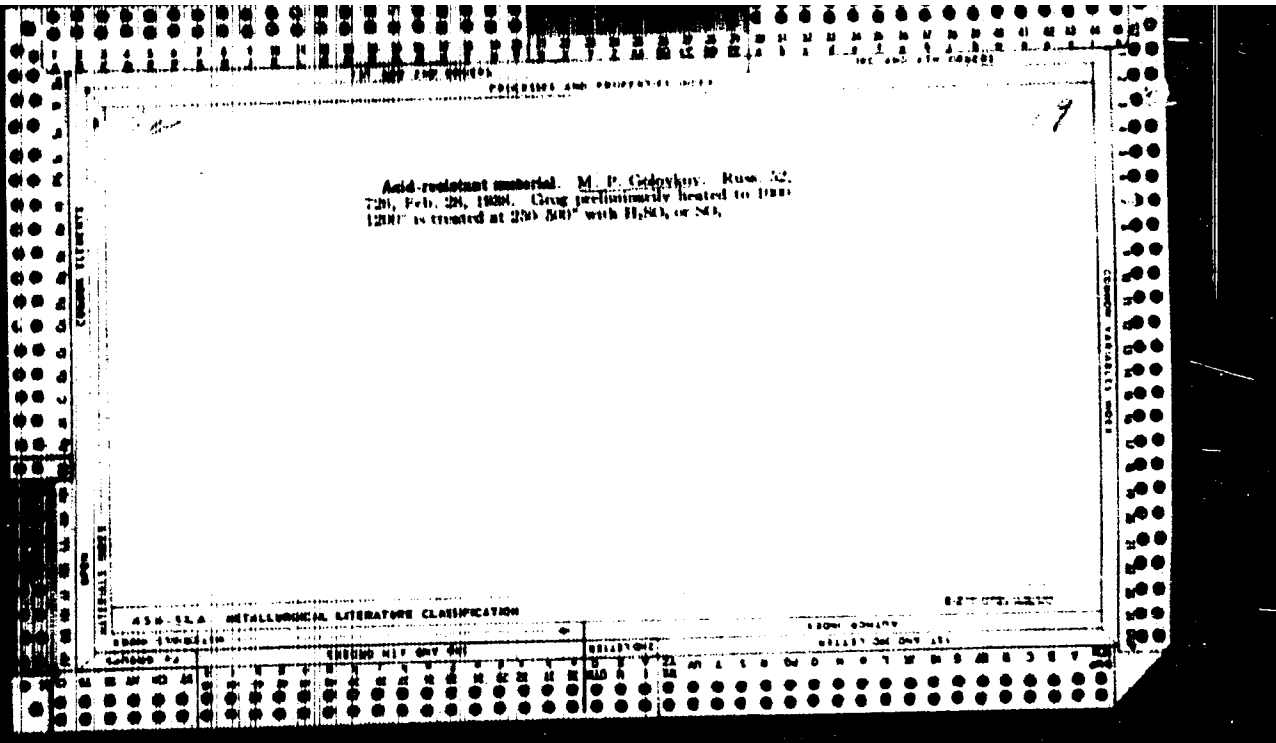


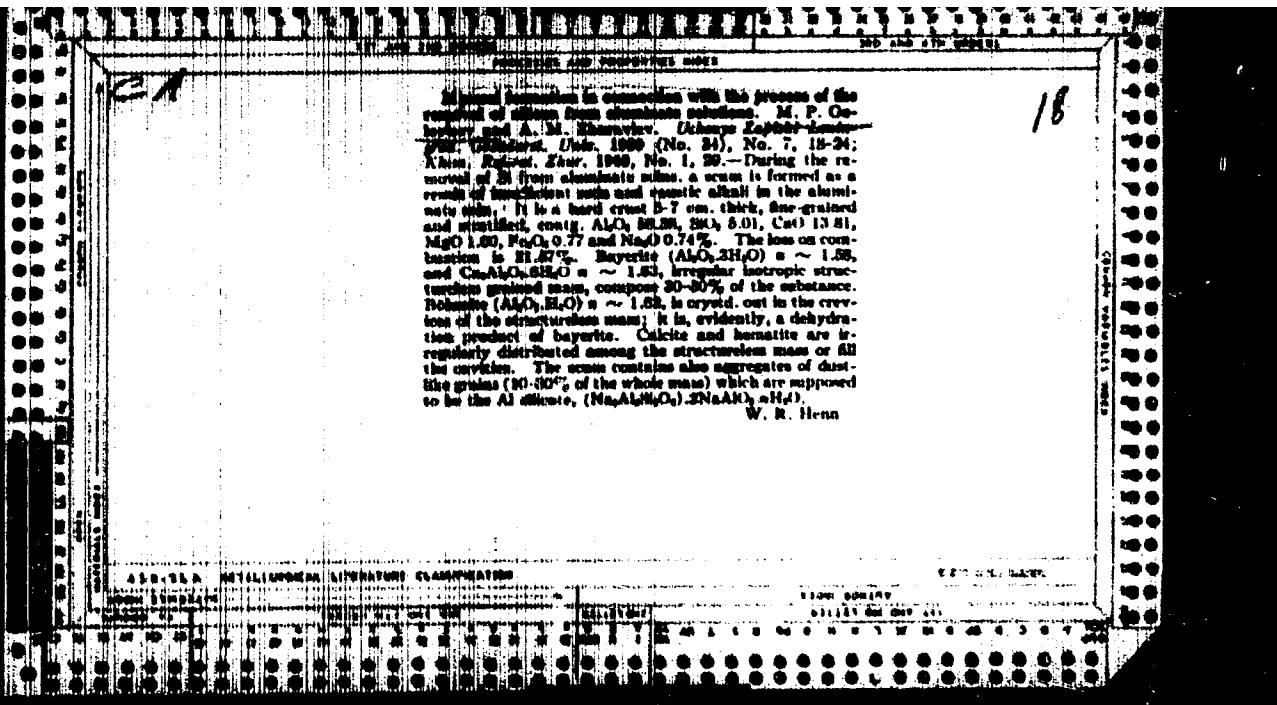












GOLOVKOV, M. P.

← O nekotorykh svoistvakh l'da, obrazuiushchegosia pri obledenanii samoleta. (Akademia Nauk SSSR. Izvestia. Seria geograficheskaja i geofizicheskaja, 1940, no.1, p.119-123, bibliography)

Summary in English.

Title tr.: Some of the characteristics of ice formed in airplane icing.

AS262.A6216 1940

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



GOLOVKOV, M. P.

Hydrochemistry of Natural Ices    Gidrokhim. materialy. 20, 1953, 46-48

The author proposes a scheme of classification of natural ices by proceeding from the principal structural types according to genetic categories of rocks and distribution of main kinds of natural ices corresponding to the microstructure due to the geochemical and thermodynamic conditions of their formation. The classification is given in the form of a diagram of petrographic structures of natural ices of diverse genesis. The author believes that his investigations can clarify the causes of periodically repeating glacial epochs on the earth. (RZhGeol, No 1, 1954)

SO: M-31128, 11 Jan 55

*Hydrochem. Inst, AS USSR, Novocherkassk*

GOLIKOV, M.F.

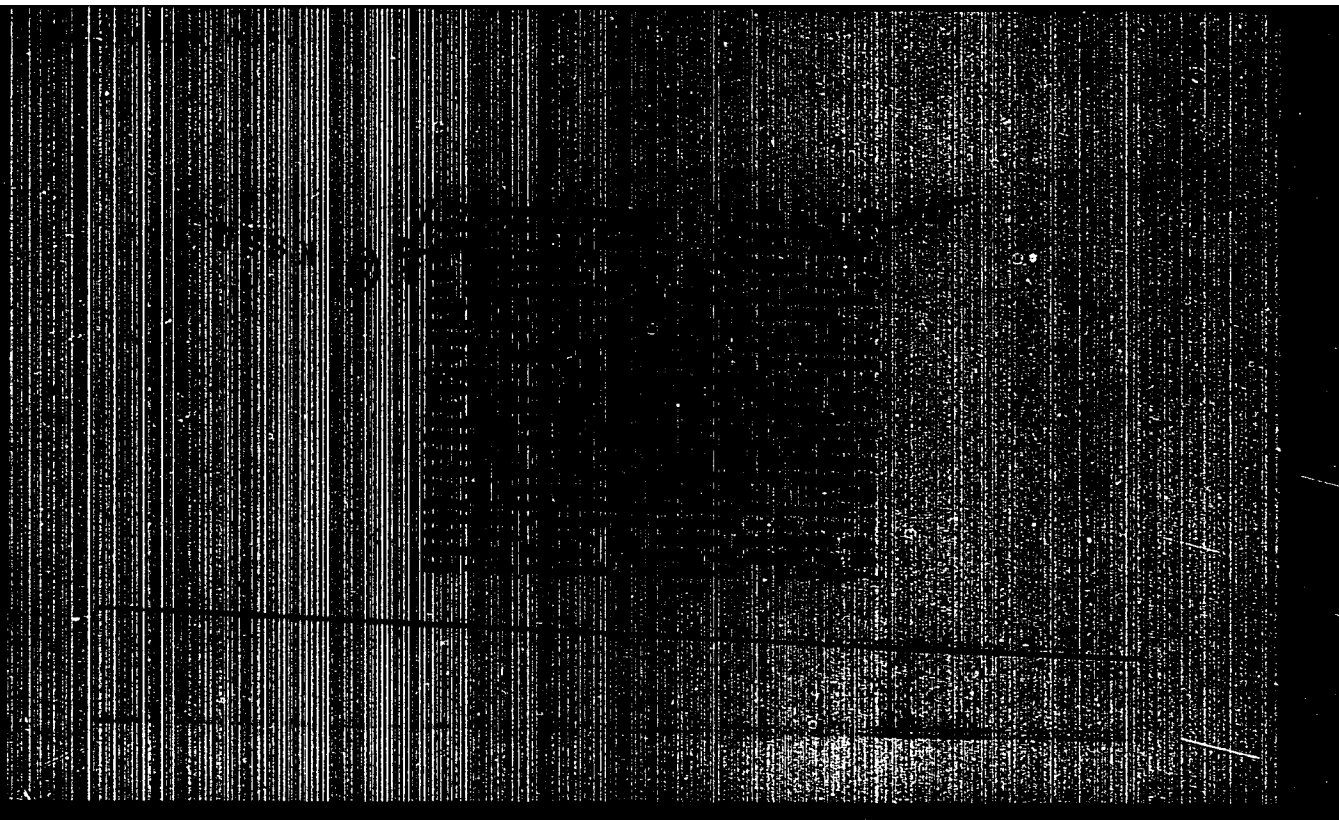
Crystallo-Petrographic Investigation of the Bottom Deposits of Lake Manychsko-Gruminskoye. *Gidrokhim. materialy*, 21, 1953, 97-113.

In the fraction less than 0.001 mm the author observed montmorillonite, galloisite, sericite, hematite minerals, and glinozem [clayey earth] minerals. Predominant were montmorillonite and minerals of free glinozem. In the fraction 0.005-0.001 mm the content of montmorillonite, hematite minerals, and glinozem decreased and galloisite and sericite increased. This composition changed with increasing size of the fractions. (*RZhGeol*, No 1, 1954)

SO: W-31128, 11 Jan 55

"APPROVED FOR RELEASE: 09/24/2001

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APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515820014-5"

PAKIN, G.V.; GOLUBEV, M.P., vyssheshtabshchiy; KARSIKOV, V.G., inzh.

Discussion of the article "Eliminate lack of personal responsibility in servicing automatic stop devices." Avtom., telem. i svyaz' 7 no.6:45 Je '63. (MIRA 17:3)

1. Pomoshchnik revizora po bezopasnosti dvizheniya poyezdov Kavkazskogo otdeleniya Severo-Kavkazskoy dorogi (for Pakin).
2. Gornenskaya distantsiya signalizatsii i svyazi Seversko-Kavkazskoy dorogi (for Karasikov).

GOLAVKOV, M. S.

Continuous line methods for manufacturing code relays. Avtom., telem.  
i svyaz' 7 no. 2:47 P '63. (MIRA 16:3)

1. Starshiy inzh. tekhnicheskogo otdela khar'kovskogo elektrotekhnicheskogo zavoda "Transsvyaz".  
(Electric relays) (Railroads--Electric equipment)

*Golovkov, N.I.*

GOLOVKOV, N.I.

The organizing and equipping of a teaching workshop in a rural seven-year school. Politekh. sbuch. no. 5:93-94 My '57. (MIRA 10:6)  
(Workshops--Equipment and supplies) (Manual training)

GOLOVKOV, P.A., starshiy prepodavatel'

Current situation and prospects in the working of coquina quarries  
in Rostov Provinces. Trudy NPI 74:71-78 '59. (MIRA 14:3)

1. Kafedra stroitel'nogo provizvodstva Novocherkasskogo politekh-  
nicheskogo instituta.

(Rostov Province--Quarries and quarring)  
(Limestone)

GOLOVKOV, P.A.

Choosing the optimum cutting front for stonecutting machines  
operating in the quarries of Rostov Province. Trudy NPI 125:  
29-35 '61. (MIRA 15:7)  
(Rostov Province—Stonecutting)



GOLCVKOV, I. A.

Overall mechanization of the quarrying of building stone in  
Rostov Province. Trudy NPI 144:43-53 '63. (MIRA 17:8)

GOLOVKOV, P.A.

Study of the performance of the cutters of the KM-4  
stonecutting machine. Trudy NPI 145:21-27 '64. (MIRA 18:12)

GOLOVKOV, P. D.  
A

DP

Rate of crystallization of sugar in a chocolate. P. D. Golovkov. *Sibirskaya Fizika*, No. 11, 23-4 (1957).  
The crystal sugar grows proportionally to the cube of time while the basal area of the crystal grows proportionally to the time. The following formula gives the av. rate of crystal:  $K = 0.73/4.12 \times 10^{-6} t$ , where  $S$  is wt. of crystal in mg. and  $t$  is time of boiling. Since the rate of crystal decreases during the boiling, because the purity of the mother liquor decreases, the actual rate of crystal must be much higher than the av. calcd. above. V. E. Baikov



GOLOVKOV, P.D.

Crystal growth during the cooking and crystallization of massenite.  
Sakh. prom. 31 no.2:14-18 P '57. (MLRA 10:4)

1. Sakharany zavod imeni Karla Libknekhta.  
(Crystallization)

**GOLOVKOV, P.D.**

Source of sugar losses in diffusion. **Sakh.prom.** 33 no.12:21-25  
D '59: (MIRA 13:4)

1. **Sakharnyy saved imeni K. Ibbnekhta.**  
(Sugar manufacture)

MOSKALENKO, S.I.; GABOVICH, M.S.; BACHINSKIY, Yu.V.; TOMILIN, A.V.;  
MEDVEDEV, P.M.; LOMANOVA, M.M.; SOLOVYOV, P.D.; GAYDUKOV, G.I.;  
ALMYNINOV, Y.V.; STENIN, N.D.; MIRONOVA, V.V.; BELAVINSEVA,  
Ye.S.; TSVETSINSKIY, S.V.; KUCHENPURNYY, P.; KOBZAR', E.K.;  
KORHNOVA, Ye.S.; PRILEPINSKIY, V.N.; GORDEYCHUK, V.K.; SHORRIGO,  
V.F.; MISLYUK, N.

Fifty years in the sugar industry. Sakh.prom. 33 no.2:18  
P '59. (MIRA 12:3)

(Shtepan, Georgii Viacheslavovich, 1888- )

GOLOVKOV, E.S.

Foreshortening in motion-picture photography. Trudy LIKI  
no. 5:124-129 '59. (MIRA 13:12)

1. Kafedra nachertatel'noy geometrii Leningradskogo instituta  
Kinoinsbenerov. (Perspective) (Motion-picture photography)



GOLOVKOV, P.S.

Plotting three-dimensional plans of motion-picture settings for  
filming with foreshortening. Trudy LIKI no.11:85-92 '64.

(MIRA 18:10)

1. Kafedra nachertatel'noy geometrii i chercheniya Leningradskogo  
instituta kincinzhenerov.

GOLOVKIN, S.T., Cand Tech Sci -- (disa) "Study of certain  
laws of ~~production of the ~~xxxxxxxxxxxx~~ conveying~~  
charcoal gas generator" in forced ~~xxxxxxxxxx~~ performance."  
Mos, 1958, 11 pp with diagrams (Min of Higher Education  
USSR. Mos ~~Higher~~ Engineering Inst) 120 copies (sl, 23-5, 105)

GOLOVECV, S.I., starshly nauchnyy sotrudnik

Investigating the thermal conditions in zones of drying and dry  
distillation in the gasification of wood waste. Trudy TSNIIME  
no.27:71-83 '61. (MIRA 15:4)  
(Wood waste) (Wood distillation)

ZARETSKIY, M.S., starshiy nauchnyy sotrudnik; GOLOVKOV, S.I., starshiy  
nauchnyy sotrudnik

Selecting an optimal design for the use of wood waste for power  
production and chemical products. Trudy TSNIIME no.27:3-53  
'61. (MIRA 15:4)

(Wood waste) (Electric power production)

11-288126

DOC NO: A9500118 SOURCE CODE: UR/0413/66/000/002/0040/0040

INVENTOR: Chirakov, V. P.; Frolov, G. P. 1/8

ORG: none

TITLE: Transistorized dynamic flip-flop. Class 21, No. 177930

SOURCE: Izobreteniya promyshlennyye obratny, tovarnyye znaki, no. 2, 1966, 40

TOPIC TAGS: flip flop circuit

ABSTRACT: The dynamic flip-flop shown in Fig. 1 consists of a capacitor serving as a memory element, an input steering section, a feedback path, and an amplifier-pulse

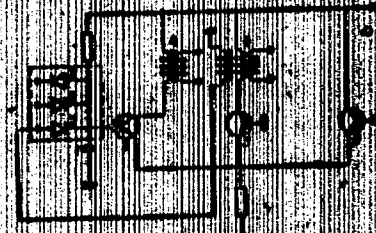


Fig. 1. Dynamic flip-flop

1 - Memory capacitor; 2 - diodes;  
3 - transistors; 4 - transformers.

Card 1/1

UFGI 621,074.3

D 17680-66

ACC NO: AP6096318

shaper. To increase the operating speed and obtain two complementary outputs, the amplifier-shaper consists of three current-switching transistors. The base of the first is linked to the capacitor, the base of the second to a d-c voltage source, and the base of the third to a synch pulse generator. The flip-flop outputs are collector-coupled transformer secondary windings. Orig. art. has: 1 figure. (80)

SUB CODE: 09/ SUB DATE: 01/04/63/ AID PRESS: 4209

FELIKH, N.A.; PRONYUSHKIN, A.V.; GOLOVKOV, V.P.; DOBROVOL'SKIY, G.V.

High-precision chronotron. Prib. i tekhn. eksp. 7 no.2:76-80  
Mr-Ap '62. (MIRA 15:5)  
(Time measurements)

GOLOVKOVA, A.G.

Materials on the geobotanical regionalization of the central Tien  
Shan. Trudy TashGU no.186:98-118 '61. (MIRA 14:12)

1. Kirgizskiy gosudarstvennyy universitet.  
(Tien Shan—Phytogeography)



37787  
S/120/62/000/002/018/047  
E192/E382

7.6000

7.5400

AUTHORS:

Pelykh, N.A., Pronyushkin, A.V., Golovkov, V.P. and  
Dobrovolskiy, G.V.

TITLE:

An instrument for high-accuracy measurement of time  
intervals

PERIODICAL:

Pribory i tekhnika eksperimenta, no. 2, 1962,  
76 - 80

TEXT:

The instrument described (type ИВМ-4 (IVI-4)) was  
designed on the principle adopted in an earlier device  
(Ref. 2 - N.A. Pelykh, A.V. Pronyushkin - PTE, no. 4, 1961, 83).  
The high relative accuracy of this instrument is due to the  
use of an oscillator and an electronic counter. The counter  
and the interrogation circuits are of the same type as those  
used in the earlier instrument. The high absolute accuracy of  
the instrument is due to the use of an oscillograph system.  
When an input pulse appears, the horizontal time bases 1 and  
2 are actuated and when these return to their rest position  
the vertical time base is triggered. The number of lines on  
Card 1/4

X

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E192/E382

An instrument for ....

the screen of the tube is therefore equal to the number of input pulses. One input pulse is recorded on each line of the time base 1. Simultaneously, timing pulses from a quartz-crystal oscillator working at 1 Mc/s and an interrogation pulse corresponding to the given input pulse are applied to this time base; the interrogation pulse is situated at the mid-point between two neighbouring pulses of the quartz-crystal oscillator. The time base 2 is used for registering the number of timing pulses received during the interval between two neighbouring interrogation pulses; the timing pulses are recorded in a binary code. The instrument comprises a special circuit which synchronously switches off the counter during three periods of the crystal oscillator; this circuit made it possible to use one counter instead of two. The counter continuously counts the pulses from the crystal oscillator before the appearance of the first pulse. However, when an input pulse appears, the time base 1 and a gating pulse generator are triggered, the gating generator producing a positive pulse of 1.5  $\mu$ s duration. This pulse is applied to a coincidence circuit which transfers

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An instrument for ...

one or two timing pulses during 1.5  $\mu$ s. The coincidence output pulse is applied to a 0.5  $\mu$ s delay line and then actuates a switching univibrator which closes the counter for the duration of three timing pulses. This time interval is sufficient for reading or interrogating the counter and recording its count. The front of the switch-off pulses is delayed by 1  $\mu$ s and then used to actuate a blocking oscillator which triggers an interrogation circuit and the time base 2. The state of the counter is indicated at the output of the interrogation circuit in the form of a train of pulses and these are applied to the vertical deflection plates of the tube and are recorded on the time base 2. The first line records a random number corresponding to the state of the counter at the instant of the appearance of the input pulse. The input pulse with a delay of 0.5  $\mu$ s is applied to the time base 1; the interrogation pulse and the 1 Mc/s time markers are also applied to this time base through a mixer. The interrogation pulse is introduced into the time base 1 in order to eliminate the ambiguity during  $\pm 1$  period of the quartz-crystal oscillator.

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An instrument for ...

S/120/62/000/002/018/047  
E192/E382

When the unblanking pulse of the time base 2 is terminated the vertical time base is actuated and the rays are shifted vertically by one step. The process is repeated during the appearance of the next pulse at the input. A block diagram of the instrument is given and its operation is illustrated by a number of wave forms. The instrument permits measurement of the individual time intervals with an accuracy of

$\pm (0.02 \mu\text{s} + 10^{-6} t_m)$ , where  $t_m$  is the measured time interval;  $10^{-6}$  represents the short-term instability of the quartz crystal. The maximum number of measured intervals is 40. There are 6 figures and 1 table.

SUBMITTED: May 4, 1961

Card 4/4

GOLOUKOVA, A.G.

GOLOUKOVA, A.G.

Materials on studying mountain tundras of the Kirghiz Ala-Tau.  
Uch.zap.Biol.-pochv.fak.Kir.un. no.3:60-66 '52. (MLRA 10:5)  
(Kirghiz range--Alpine flora)

GOLOVKOVA, A. G.

Studying Gmelin's vetchling (*Lathyrus Gmelini* Fisch) in Kirghizia.  
Uch. zap. Biol.-pochv. fak. Kir. un. no. 3:67-72 1952. (MLRA 10:5)  
(Kirghisistan--Vetchling)

GOLOVKOVA, A.G.

Survey of the vegetation of the Chon-Kemin Valley. Uch.zap.Biol.-pochv.  
fak.Kir.un. no.4:43-63 '54. (MLBA 10:5)  
(Chon-Kemin Valley--Phytogeography)

NIKITINA, Ye.V.; PROTOPOPOV, G.F.; ROZHEVITS, R.Yu. [deceased]; POPOVA, E.I.,  
KASHCHENKO, L.I.; SMIRNOV, L.A.; TKACHENKO, V.I.; YAKUBOVA, P.A.;  
GOLYKOVA, A.G.; AYDAROVA, P.A.; SHPOTA, Ye.I.; SHEVCHENKO, D.A.;  
SHISHKIN, Boris Konstantinovich, professor, doktor biologicheskikh  
nauk, nauchnyy redaktor; VVEDENSKIY, A.I., nauchnyy redaktor;  
YEVROUSHENKO, S.A., professor, g'vststvennyy redaktor; KOVALEN, V.N.,  
otvetstvennyy redaktor; SMIRBYAKOV, V.I., tekhnicheskii redaktor

[The flora of Kirghizistan; classification of the plants of  
Kirghizistan] 'flora Kirgizskoi SSR; opredelitel' rastenii Kirgizskoi  
SSR. Sest. E.V.Nikitina i dr. Frunze, Izd-vo Akademii nauk Kirgizskoi  
SSR. Vol.1. [Pteridophyta, Gymnosperms and Monocotyledons of the  
Angiosperms] Paprotnikoobraznye, golosemennye i odnodol'nye iz  
pokrytosemennykh. 1952. 103 p. Vol. 2. [Grasses and sedges] Zlaki  
i oskovyye. 1950. 315 p. Vol.3. [Arbidae - Orchidaceae] Aroidnye -  
Orkhidnye. 1951. 148 p. Vol.4. [Salicaceae - Polygonaceae] Ivovye -  
Gruchishnye. 1953. 153 p. Vol. 5. [Families: Chenopodiaceae,  
Amaranthaceae, Portulacaceae, Caryophyllaceae] Semeistva: Marevye,  
Amarantovye, Portulakovye, Gvosdichnye. 1955. 185 p. Vol. 6.  
[Families: Geratophyllaceae, Ranunculaceae, Berberidaceae,  
Papaveraceae, Capparidaceae, Cruciferae] Semeistva: Rogolistnikovye,  
Liutikovye, Barbarisovye, Makovye, Kapersovye, Krestotsvetnye. 1955.  
297 p.  
(MIRA 9:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Shishkin)  
(Kirghizistan--Botany)



GOLOVKOVA, A. G.

NIKITINA, Ye.V.; POPOVA, L.I.; AYDAROVA, R.A.; KASHCHENKO, L.I.; PROTOPOPOV,  
G.P.; UBUKMYEVA, A.U.; TKACHENKO, V.I.; KORNEVA, I.G.; OBOZOV, A.O.;  
GOLOVKOVA, A.G.; VVEDENSKIY, A.I., nauchnyy redaktor; TSYBINA, Ye.V.,  
vremennyy redaktor

[Flora of the Kirghiz S.S.R.; guide to plants of the Kirghiz S.S.R.]  
Flora Kirgizskoi SSR; opredelitel' rastenii Kirgizskoi SSR. Frunse,  
Izd-vo AN Kirgizskoi SSR. Vol.7. 1957. 642 p. (MLRA 10:9)  
(Kirghizistan--Botany)

GOLOVKOVA, A. G. Doc Biol Sci--(dis) "Vegetation of the Central Tyan'-Shan'"  
Mos, 1958, 44 pp (Mos Order of Lenin and Labor Red Banner State Univ im M. V.  
Lomonosov), 120 copies. List of author's works, pp 43-44 (15 titles)  
(KL, 14-58, 111)

- 30 -

GOLovkov, A. G.

PLATE I BOOK EXPIRATION 507/123

Pravda, University. Nauchnoye studentcheskoye obshchestvo  
Sbornik nauchnykh rabot studentov, YP. 2 (Collection of Sci-  
entific works of Students, No. 2) Prague, 1959. 99 p. 500  
copies printed.

Sponsoring Agency: Kirgizskiy Gosudarstvennyy universitet.  
Nauchnoye studentcheskoye obshchestvo.

Resp. Ed.: L. A. Spectorov, Dozent; Tech. Ed.: M. A. Yefimov.

Remarks: This book is intended for mathematicians, natural  
scientists, and philologists.

Comments: The collection of articles contains studies in natu-  
ral and mechanical physics, biology, and philology written  
by members of the Nauchnoye studentcheskoye obshchestvo  
(Students' Scientific Association) of Kirgizskiy Gosudarstvennyy  
universitet (Kirgiz State University) under the guidance of  
faculty members. References accompany each article.

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Barbosa, O. A. (Fourth-Year Student of the Division of Biology.  
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PHILOGENY

Demochukov, Y. (Second-Year Student of the Division of Zoology.  
Scientific adviser: A. V. Sapozhnikov, Candidate of Linguistics  
Sciences). Kladovyye gruppy v zimnyye dny Kochumskogo  
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Malukhina, E. N. (Fourth-Year Student of the Division of  
Biology. Scientific adviser: V. N. Kabanov, Candidate of  
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NIKITINA, Ye.V.; AYDAROVA, R.A.; KASHCHENKO, L.I.; UBUKYEVA, A.U.;  
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FILATOVA, N.S.; SHARASHOVA, V.S.; VVEDENSKIY, A.I., nauchnyy red.;  
VYKHODTSEV, I.V., red.; ANOKHINA, M.G., tekhn.red.

[Flora of the Kirghiz S.S.R.; key to the plants of the Kirghiz  
S.S.R.] Flora Kirgizskoi SSR; opredelitel' rastenii Kirgizskoi  
SSR. Sost. B.V.Nikitina i dr. Nauchn.red. A.I.Vvedenskii. Frunze,  
Izd-vo Akad.nauk Kirgizskoi SSR. Vol.8. [The carrot, dogwood, winter-  
green, heath, primrose, leadwort, olive, gentian, dogbone, milkweed,  
and morning-glory families] Semeistva: sotchichnye, kirilovye, grushan-  
kovye, versakovye, pervotsvetnye, svinchatkovye, maslinovye, gore-  
chavkovye, kutrovye, lastovnyye, v'iunkovye. 1959. 222 p. Vol.9.  
[The mint and nightshade families] Semeistva: gubotsvetnye i pasle-  
novye. 1960. 213 p. (MIRA 13:?)  
(Kirghizistan--Dicotyledons)

GOLOVKOVA, A.G.

Chemical methods of controlling weeds in pastures and meadows of  
Kirghistan. Uch. zap. Biol.-pochv. fak. Kir. un. no.7:91-119 1958  
(Kirghistan—Pastures and meadows) (2,4-D)  
(Weed control)

GOLOVKOVA, A.G.

*Festuca sulcata* steppe in central Tien Shan. Uch. zap.  
Biol.-pechy. fak. Kir. un. no.7:301-312 '58. (MIRA 15:10)  
(Tien Shan--Steppe flora) (Fescue grass)

KELDYSH, M.V., akademik; FEDOROV, Ye.K., akademik; ARTSIMOVICH, L.A., akademik;  
 SISAKYAN, M.P., akademik; GORSKIY, I.I.; LAPITSA, P.L.; TOK, V.A.;  
 LANDAU, L.D.; LIFSHITS, Ye.M.; SPAL'NIKOV, A.I.; MELATNIKOV, I.H.;  
 ALETSEYEVSKIY, N.Ye.; VAYNSHTEYN, L.A.; PALLADIN, A.V., akademik;  
 BATPAYEV, M.I., akademik; AMBARTSUMYAN, V.A., akademik; KUPREVICH,  
 V.F.; NUSIMELISHVILI, N.I., akademik; KARAFEYEV, K.K.; MUSTEL', E.R.;  
 MASEVICH, A.G., doktor fiz.-matem.nauk; EFRON, k.M.; MARTYNOV, D.Ya.,  
 prof.; GREGOR'YEV, A.A., akademik; MAROV, K.K., prof.; COLOVKOVA,  
A.G., prof.; FILATOVA, L.G., prof.; FEYVE, Ya.V.; SEMIKHATOV, B.N.,  
 prof.; TIL'OV, A.G.; RYCHAGOV, G.I.; BARSKAYA, V.F.; VLASOVA, A.A.;  
 BARANOVA, Ye.P.; KIBARDINA, L.A.; ISACHENKO, A.F.; IL'INA, Yu.P.;  
 DANILOV, A.I., prof.; PLAUDE, K.K.; NECPAYEVA, T.N., prof.; CHEPEK,  
 L., doktor; SZANTO, Ladislav, akademik; BELACHIK, Yozef; FAN KUOK  
 V'YEN; NYGENSEN, M.S., prof. (L'vov); STARKOV, N.; AERAMOVICH, Yu.;  
 VOSKRESHENSKIY, V.; KROPACHEV, A.; REZVOY, D., prof., (L'vov);  
 KONDRAT'YEV, V.N., akademik; LEBEDINSKIY, V.I., kand.geol.-mineral.-  
 nauk; YANSHIN, A.L., akademik

"Priroda" is 50 years old. Priroda 51 no.1:3-16 Ja '62. (MIRA 15:1)

1. Prezident AN SSSR (for Keldysh). 2. Glavnyy uchenyy sekretar'  
 Prezidiuma AN SSSR (for Fedorov). 3. Akademik-sekretar' Otdeleniya  
 fiziko-matem.nauk AN SSSR (for Artsimovich). 4. Akademik-sekretar'  
 Otdeleniya biologicheskikh nauk AN SSSR (for Sisakyan). 5. Chlen-  
 korrespondent AN SSSR, zamestitel' akademika-sekretarya Otdeleniya  
 (Continued on next card)





keto acid esters leads primarily to products resulting from  
 interaction of the keto group. Therefore, it is probable  
 that Lemire's products of reaction of  $\text{MeMgI}$  or  $\text{EtMgBr}$   
 on mesoesters are really  $\text{AcC(OH)MeC(OH)Me}$ , and  
  $\text{EtCOC(OH)EtCO}_2\text{R}$ , resp.      O. M. Kozlov

10

e7

... ..  
Steric hindrance in organomagnesium reactions.  
VIII. The synthesis of  $\alpha$ -hydroxy ketones. I. I. Lapkin  
and A. I. Gokhova (Molotov State Univ.). *J. Gen.  
Chem. (U.S.S.R.)* 19, 669-75(1949)(English transla-  
tion). --See C.A. 44, 1057a. IX. Synthesis of ketones  
by the reaction of acyl halides with organomagnesium  
compounds. I. I. Lapkin and A. V. Lyubanova. *Ibid.*  
077-86(English translation) --See C.A. 44, 1056a.  
E. J. C

**Steric hindrance in organomagnesium reactions.**  
 VIII. Preparation of  $\alpha$ -hydroxy ketones. I. I. Lapkin and A. V. Lyubimov, *Zhur. Obshch. Khim.* (J. Gen. Chem.) 19, 701 (1949); cf. C.A. 43, 188a; Fuson and Robertson, C.A. 37, 1416. — The synthesis of  $\alpha$ -HO ketones from RMgX and diketones fails only with low-mol. unbranched RMgX reagents; the majority of the latter (*o*- and *p*-substituted aryl and branched alkyl) give upon reversed order of addn. in the diketones satisfactory yields of HO ketones. Thus, 50 g. bromomethylene and 7 g. Mg in Et<sub>2</sub>O added, after reaction, to 21.5 g. Ac<sub>2</sub> in Et<sub>2</sub>O with cooling and stirring, followed by 10 hrs. heating, gave upon decompn. by 10% AcOH, followed by washing with 10% Na<sub>2</sub>CO<sub>3</sub>, 34% methylmethylacetylacetal, b<sub>p</sub> 113-18°, d<sub>4</sub><sup>20</sup> 1.0314, n<sub>D</sub><sup>20</sup> 1.5165; phenylacetone, m. 174-5° (from EtOH). Similarly, RMgX from 34.2 g. *o*-MeC<sub>6</sub>H<sub>4</sub>Br gave with 17.2 g. Ac<sub>2</sub> 82% methyl-*o*-tolylacetylacetal, b<sub>p</sub> 105-8°, d<sub>4</sub><sup>20</sup> 1.0503, n<sub>D</sub><sup>20</sup> 1.5335; phenylacetone, m. 133-7° (from EtOH). 3-Bromocyclohexene (43 g.) similarly gave 25% methyl(3-methyl-5-isopropylphenyl)acetylacetal, b<sub>p</sub> 127-30°, d<sub>4</sub><sup>20</sup> 1.0186, n<sub>D</sub><sup>20</sup> 1.5125, while 41 g. 1-BrC<sub>6</sub>H<sub>4</sub> gave 45% methyl-1-naphthylacetylacetal, b<sub>p</sub> 135-6°, (crystg. from H<sub>2</sub>O as a monohydrate, which loses H<sub>2</sub>O *in vacuo*). PhMgBr (31.4 g.) gave 30% methylphenylacetylacetal, b<sub>p</sub> 88-90°, d<sub>4</sub><sup>20</sup> 1.0918, n<sub>D</sub><sup>20</sup> 1.5347. IX. Preparation of ketones by reaction of acyl halides with organomagnesium compounds. I. I. Lapkin and A. V. Lyubimov, *Ibid.* 197 15. — The common idea of the impossibility of ketone synthesis from RMgX and RCOCl is true only for small R groups; steric hindrance in either R is sufficient to yield the desired ketones. Di-ortho-substituted derivs. of the RMgX type yield only ketones on reaction with RCOCl, while mono-ortho derivatives (primary with long chains, or secondary or tertiary derivs.) give ketones with proper technique: equal-molar proportions and reverse order of addn. RMgBr

from 20 g. bromomethylene and 7 g. Mg heated 1<sup>1</sup>/<sub>2</sub> hrs. in Et<sub>2</sub>O with 35 g. BrCl and decompd. with 10% AcOH yielded 34% phenylmethyl ketone, b<sub>p</sub> 156° (on Clemmensen reduction yields benzylmethylene, m. 30°); 2 moles RMgX failed to change the result. RMgX from 57 g. *p*-MeC<sub>6</sub>H<sub>4</sub>Br in Et<sub>2</sub>O added with ice-cooling to 40.6 g. BrCl in Et<sub>2</sub>O and treated as above gave 50% *o*-methylbenzophenone, b<sub>p</sub> 134-7°; *syn*-oxime, m. 104-5° (from petr. ether); 2 moles RMgX gives the ketone and some *o*-MeC<sub>6</sub>H<sub>4</sub>C(OH)Ph. RMgX (from 52 g. 1-C<sub>6</sub>H<sub>4</sub>Br) in Et<sub>2</sub>O added as above to 35 g. BrCl in Et<sub>2</sub>O and heated 5 hrs. gave 69% Ph-1-naphthyl ketone, b<sub>p</sub> 197-8°, m. 75° (Clemmensen reduction gave 1-benzyl-naphthalene, m. 58°). RMgX from 43 g. *p*-MeC<sub>6</sub>H<sub>4</sub>Br with 10 hrs. heating gave 40% Ph-*p*-tolyl ketone, b<sub>p</sub> 154-5°, m. 51-4° (from EtOH), while RMgX from 31.4 g. PhBr gave with 29 g. BrCl, after standing 1 hr. at room temp., 40% Ph<sub>2</sub>CO and 14% Ph<sub>2</sub>CCl (probably formed from Ph<sub>2</sub>COH and excess BrCl during the reaction), b<sub>p</sub> 160-200°, m. 110° (from C<sub>6</sub>H<sub>6</sub>). RMgX from 40 g. bromomethylene treated in Et<sub>2</sub>O with 15.7 g. AcCl in Et<sub>2</sub>O, followed by 10 hrs. heating, with stirring 3 hrs., gave 10% Me-methyl ketone, b<sub>p</sub> 99-105° (reduced by the Clemmensen method to ethylmethylene, b<sub>p</sub> 207-8°). RMgX (from 114 g. *o*-MeC<sub>6</sub>H<sub>4</sub>Br) added in Et<sub>2</sub>O to 62 g. AcCl with cooling and heated 10 hrs. gave 30% Me-*o*-tolyl ketone, b<sub>p</sub> 68-9° (Clemmensen reduction gave 2-EtC<sub>6</sub>H<sub>4</sub>Me, b<sub>p</sub> 164-5°), and 14% *o*-MeC<sub>6</sub>H<sub>4</sub>C(OH)<sub>2</sub>Ph, b<sub>p</sub> 124-8°, formed from dehydration of *o*-MeC<sub>6</sub>H<sub>4</sub>C(OH)Ph. RMgX from 52 g. 1-C<sub>6</sub>H<sub>4</sub>Br added as above to 19.5 g. AcCl with cooling, followed by 10 hrs. heating, gave 50% Me-1-naphthyl ketone, b<sub>p</sub> 122-4° (oxime, m. 136° (from dil. EtOH)), as well as 2.5% (1-C<sub>6</sub>H<sub>4</sub>)<sub>2</sub>C(OH)<sub>2</sub>, b<sub>p</sub> 160-240°, m. 106-7° (from EtOH-Me<sub>2</sub>CO).  
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