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S/004/60/000/006/001/003
A111/A026

11300

AUTHOR: Boldyrev, S.

TITLE: A New Invention

PERIODICAL: Znaniye -- Sila, 1960, No. 6, inside front cover - p. 3

TEXT: The author asserts that steel casting machines will replace expensive foundry machinery in the near future. First⁴ installations of this type began operation in Novo-Tul'sk, Sormovsk and Novo-Lipetsk plants; No. 5, 1958 of this periodical published the article "Engineer Goldobin's Crystallizer"; the latter is now successfully used in a plant at Bezhitsk near Bryansk. Vasily Vasil'yevich Kurilov, a locksmith in the Moscow "Serp i Molot" (Hammer and Sickle) Plant, was inspired by the work of Graduate Engineer Goldobin. After numerous experiments he succeeded in designing a machine, which combines the setting process and the rolling of sheets in one single operation. The installation is based on the idea of the metallurgist Bessemer and built in cooperation with Graduate Engineer Aleksandr Nikolayevich Shabanov, Chief Designer of the continuous steel casting group of the "Stal'proyekt". The machine consists of two horizontal rollers placed closely to a wedge-shaped, fireproof inlay. The

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latter closes the hearth at the bottom and prevents metal from escaping between rollers. To the left and right both rollers border on refractory walls and with the inlay form a closed vessel. The hearth is continuously supplied with liquid steel which sets on rotating, water-cooled rollers near the bottom of the vessel. The thickness of these metal sheets depends on the rotating speed of rollers, i.e., the higher the speed the thinner the sheet. Special "knives" lift the sheets off the top of the rollers. As an improvement of the present method the designers suggest that in future models the metal sheets should be removed from the bottom of the rollers, which would eliminate the danger of damage caused by rabbling. It is now up to scientists and production experts to review and complete V.V. Kurilov's former designs: a hearth fitted with a crystallizer and a "machine-wheel" with crystallizer running along a groove in the wheel rim. The former type is used abroad for casting non-ferrous metals and for steel casting tests in the GDR. These designs were favorably commented by Georgiy Ivanovich Ivantsov, Candidate of Technical Sciences and Head of the thermotechnical laboratory of the Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Main Scientific Research Institute of Ferrous Metals), and were completely rejected by an expert in the field of continuous steel casting, Graduate Engineer Mikhail Stepanovich Boychenko, Candidate of Technical Sciences. The latter's re-

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jection was based on the opinion that the necessary bending of steel bars will result in cracks. It is stated that the bar bending method is applied without adverse effects in metal plants in Western Europe and also on the machine designed by the Soviet Graduate Engineer I.Ya. Granada. There are 4 figures and 2 photographs.

Card 3/3

BOLDYREV, Sergey Nikolayevich; METANIYEVA, M., redaktor; YEGOROVA, I.,
tekhnicheskiiy redaktor

[A book about metal] Kniga o metalle. [Moskva] Izd-vo TsK VLESM
"Molodaia gvardiia," 1956. 348 p. (MLRA 9:9)
(Metallurgy--Juvenile literature)

ZEMSAKAYA, A.A., kandidat biologicheskikh nauk; BOLDYREV, S.T., kapitan
meditsinskoy sluzhby

Epidemiological role of the gamasid mites and methods for their
control. Voen.-med.zhur. no.7:53-58 J1 '56. (MLRA 9:11)
(MITES AS CARRIERS OF DISEASE)

BOLDYREV, S.T.; ZEMSKAYA, A.A.

Gamasid mites, parasites of suslike in Kazakhstan [English summary insert]. Zool.zhur. 35 no.2:190-193 F '56. (MLRA 9:7)

1.Otdel parazitologii i meditsinskey zoologii Instituta epidemiologii i mikrobiologii ANN SSSR.
(Parasites--Suslike) (Kazakhstan--Mites)

PERVOMAISKIY, G.S.; CHAGIN, K.P.; BOLDYREV, S.T.

On the mass reproduction and habitation of the ticks *Ornithodoros*
talaje Guerin-Meneville, 1849 [with English summary in insert].
Zool.zhur. 35 no.9:1303-1311 S '56. (MLRA 9:12)

1. Kafedra obshchey biologii i parazitologii Voenno-meditsinskoy
akademii imeni S.M.Kirova.
(Soviet Central Asia--Ticks) (Parasites--Water birds)

ISOLITY REV, 3-1

USSR/Zooparasitology - Acarina and Insect-Vectors of Disease
Pathogens.

G-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10105

Author : Pervomayskiy, G.S., Chagin, K.P., Boldyrev, S.T.

Inst : -

Title : Detection of New Breeding Foci of Ticks *Ornithodoros*
talaje Guerin-Meneville, 1849, in USSR.

Orig Pub : Dokl. AN SSSR, 1956, 109, No 1, 238-240

Abstract : In bird-colony nests of cormorants (*Phalacrocorax carbo*),
sea-gulls (*Larus ichtyaetus*), and pelicans, ticks were
found in masses and identified as *O. talaje* on two desert
islands of a large lake in middle Asia. Numerous deposits
of eggs, males, females and nymphs of these ticks (up to
1500-8000 items) were located in the middle fairly humid
layer of the nest. From 5 to 1000 specimens of larvae were
found on chicks of sea-gulls and cormorants. Ticks and
their deposits were also found under stones on the ground.

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Voyenno-meditsinskaya akademiya imeni S. M. Kirova. Predstavleno akademikom
Ye. N. Pavlovskim.

USSR/Zooparasitology - Acarina and Insect-Vectors of Disease
Pathogens.

G-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10105

In the laboratory the ticks readily fed on guinea pigs and humans. The birds carry the ticks to these islands on their bodies.

Card 2/2

BOLDYREV, S. T.

"The Distribution of *Ornithodoros Coniceps* Can.

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Institute of Epidemiology and Microbiology AMS, USSR, Moscow

BOLDYREV, S.T.

Ectoparasites of the yellow suslik (*Citellus fulvus* L.). Zool.
shur. 38 no.11:1757-1761 N '59 (MIRA 13:3)

1. Department of the Diseases with Natural Nidality, Institute of
Epidemiology and Microbiology, Academy of Medical Sciences of the
U.S.S.R., Moscow.

(Kazakhstan--Insects, Injurious and beneficial)
(Parasites--Susliks)

BOLDYREV, S.T.

Detection of complement-fixing antibodies of the virus of ornithosis
in the blood of the large cormorant (*Plalacrocorax carbo sinensis*).
Vop. virus 6 no.4:494 J1-Ag '61. (MIRA 14:11)
(ORNITHOSIS) (ANTIGENS AND ANTIBODIES)
(BIRDS AS CARRIERS OF DISEASE)

PETRISHCHEVA, P.A.; LEVKOVICH, Ye.N.; BOLDYREV, S.T.; ZASUKHIN,
D.N., red.; CHULKOV, I.F., tekhn. red.

[Japanese encephalitis] I Aponskii entsefalit. Moskva, Med-
giz, 1963. 178 p. (MIRA 16:12)

1. Chlen-korrespondent AMN SSSR (for Petrishcheva).
(ENCEPHALITIS)

BOLDYREV, Sergey Yevgen'yevich; GRINER, A.S., otvetstvennyy redaktor;
SUROVA, V.A., redaktor izdatel'stva; SABITOV, A., tekhnicheskii
redaktor

[Setting technical norms in the Soviet coal industry] Tekhnicheskoe
normirovanie v ugol'noi promyshlennosti SSSR. Moskva, Ugletekhizdat,
1956. 79 p. (MIRA 10:2)
(Coal mines and mining --Production standards)

BOLDYREV, T. Ye.

Sbornik Vazhneyshikh Ofitsial'nykh Materialov po Sanitarnym i Protivo-Epidemicheskim Voprosam (Collection of the Most Important Official Materials on Sanitation and Epidemic-Control Problems), second edition, Medgiz, Moscow, 1949, 1206 pp, 2 Vol.

REVAST, T. Ye.

"Immediate Problems of Soviet Hygienists in the Field of Communal Hygiene," Gig. i San.,
No. 4, 1949.

PA 163T38

BOLDYREV, T. Ye.; Prof

USSR/Medicine - Hygiene and
Sanitation
Public Health

Jan/Feb 50

"New Steps in Soviet Public Health in the Field
of Hygiene and Sanitation Antiepidemic Work,"
Prof T. Ye. Boldyrev, Corr Mem, Acad Med Sci
USSR, Dep Min of Pub Health USSR, Main State
Sanitation Insp USSR

"Sov Zdrav" No 1, pp 13-19

Discusses in some detail specific functions to
be performed by All-Union State Sanitation In-
spection USSR as determined by Soviet Government

163T38

USSR/Medicine - Hygiene and
Sanitation (Contd)

Jan/Feb 50

In Nov 49. Antiepidemic work and small details
of sanitation which took much time and energy
of specialists in State Sanitary Inspection have
been transferred to units of sanitation anti-
epidemic services, Min of Pub Health.

163T38

BOLDYREV, T.Ye., redaktor.

[Industrial waste water] Proizvodstvennye stochnye vody, no.3. Medgiz.
1952, 239 p. (MLBA 7:11D)

См. также, стр. 10

SMIRNOV, Ye.I., general-polkovnik meditsinskoy sluzhby, glavnyy redaktor; GIRGOLAV, S.S., general leytenant meditsinskoy sluzhby, otvetstvennyy redaktor; ANICHKOV, M.N., general-leytenant meditsinskoy sluzhby, redaktor; BURDENKO, M.N., general-polkovnik meditsinskoy sluzhby, redaktor; BOLDYREV, T.Ye., general-mayor meditsinskoy sluzhby, redaktor; VINOGRADOV, redaktor; VOVSI, M.S., general-mayor meditsinskoy sluzhby, redaktor; DAVIDENKOV, S.N., redaktor; DAVYDOVSKIY, I.V., redaktor; DZHANELIDZE, IU.IU., general leytenant meditsinskoy sluzhby, redaktor [deceased]; ZAVALISHIN, N.I., general-leytenant meditsinskoy sluzhby, redaktor; KROTKOV, F.G., general-mayor meditsinskoy sluzhby, redaktor; KUPRIYANOV, P.A., general-leytenant meditsinskoy sluzhby, redaktor; OEBELI, L.A., general-polkovnik meditsinskoy sluzhby, redaktor; PRIOROV, N.N., zaslužhennyy deyatel' nauki, redaktor; SHAMOV, V.N., general-leytenant meditsinskoy sluzhby, redaktor; MAKSIMENKOV, A.N., polkovnik meditsinskoy sluzhby, redaktor; BANSHCHIKOV, V.M., doktor meditsinskikh nauk, polkovnik meditsinskoy sluzhby, redaktor.

[Experience of Soviet medicine during the Great Patriotic War, 1941-1945] Opyt Sovetskoi meditsiny v velikoi otechestvennoi voine. 1941-1945 gg. Moskva, Gos. izd-vo meditsinskoi lit-ry. Vol.20., Pt.I. [Surgery]-Khirurgiya. 1952. 476 p. (MLRA 7:12)
(Continued on next card)

SMIRNOV, Ye.I., general-polkovnik meditsinskoy sluzhby, glavnyy redaktor

[Experience of Soviet medicine during the Great Patriotic War,
1941-1945. Vol. 20, Pt.I. Surgery] Card 2. (MLRA 7:12)

1. Deystvitel'nyy chlen Akademii nauk SSSR i Akademii meditsinskikh
nauk SSSR (for Anichkov, Orbeli, Burdenko) 2. Glen-korrespondent
Akademii meditsinskikh nauk SSSR (for Boldyrev, Priorov, Maksimenkov)
3. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Vino-
gradov, Vovsi, Girgolov, Davidenkov, Davydovskiy, Dzhanchidze,
Kratkov, Shamov)

(NERVOUS SYSTEM--SURGERY)

(GUNSHOT WOUNDS)

BOLDYREV, T.Ye.

Basic problems in sanitary organization of USSR. Gig. sanit., Moskva
no.8:3-11 Aug 1952. (GIML 23:2)

1. Evaluation of sanitary work in the USSR.

1. BOLDYREV, T. YE.
2. USSR (600)
4. Public Health
7. New five-year plan and our tasks. Gig.i san. No. 11 - 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1955. Unclassified.

BOLDYREV, T.Ye., glavnyy gosudarstvennyy sanitarnyy inspektor SSSR, professor.

[Purifying the atmosphere of industrial wastes] Ochistka promyshlennykh vybrosov v atmosferu. Pod red. glav. Gos. sanitarnogo inspektora SSSR T.E. Boldyreva. Moskva, Medgiz, 1953. (MLBA 7:1)

1. Russia (1923- U.S.S.R.) Vsesoyuznaya gosudarstvennaya sanitarnaya inspektsiya.

(Air--Purification)

BOLDYREV, T.Ye.

Immediate tasks in the field of purification of industrial discharges.
(In: Russia (1923- U.S.S.R.) Vsesoyuznaya gosudarstvennaya sanitarnaya inspeksiya. Ochistka promyshlennykh vybrosov v atmosferu. 1953, p.3-7) (MLRA 7:1)

(Air--Purification)

1. Glavnyi gosudarstvennyy sanitarnyy inspektor SSSR.

BOLDYREV, T.Ye.

Urgent problems of school hygiene. Gig.1 san. no.9:3-12 S '53.
(MLBA 6:8)
(School hygiene)

BOLDYREV, T.Ye., redaktor; ZHDANOV, V.M., redaktor

[Collection of principal official data on sanitary and epidemic control measures; an aid to the state sanitary inspector, the hygienist, and the epidemiologist. Vol. 3] Sbornik vazhneishikh ofitsial'nykh materialov po sanitarnym i protivoepidemicheskim voprosam; v pomoshch' vrachu-gossaninspektoru, sanitarnomu vrachu i vrachu-epidemiologu. Pod obshchei red. T.E.Boldyreva i V.M. Zhdanova. Izd. 3., dop. i perer. Moskva, Medgiz, 1954. Vol. 3.
(MIRA 8:7)

1. Russia (1923- U.S.S.R.) Ministerstvo zdravookhraneniia.
(Epidemiology) (Public health)

SHTENBERG, Abram Il'ich; GELLER, Grigoriy Moiseyevich; KATSPRZHAK, Yekaterina Fedorovna; VYALKIN, V.I., redaktor; BOLDYREV, T.Ye., professor, redaktor; MOLCHANOVA, O.P., professor, redaktor; SACHEVA, A.I., tekhnicheskiy redaktor.

[Calculation tables on the chemical composition and nutritional value of food products] Raschetnye tablitsy khimicheskogo sostava i pitatel'noi tsennosti pishchevykh produktov. Pod red. T.E.Boldyreva i O.P.Molchanovoi. Moskva, Gos. izd-vo med. lit-ry, 1954. 234 p. (MLBA 8:1)

(Food--Analysis)

BOLDYREV, T. Ye.

SMIRNOV, Ye.I., general-polkovnik meditsinskoy sluzhby, redaktor; YE-
 LANSKIY, N.N., zasluzhennyy deyatel' nauki, professor, general-ley-
 tenant meditsinskoy sluzhby, redaktor; ANICHKOV, N.N., general-leyte-
 nant meditsinskoy sluzhby, redaktor; BURDENKO, N.N., general-polkov-
 nik meditsinskoy sluzhby, redaktor [deceased]; BOLDYREV, T. Ye., ge-
 neral-mayor meditsinskoy sluzhby, redaktor; VINOGRADOV, V.N., redaktor;
 VOVSI, M.S., general-mayor meditsinskoy sluzhby, redaktor; GIRGOLAV, S.S.,
 general-leytenant meditsinskoy sluzhby, redaktor; DAVIDENKOV, S.N., re-
 daktor; DAVYDOVSKIY, I.V., redaktor; DZHANELIDZE, Yu.Yu., general-
 leytenant meditsinskoy sluzhby, redaktor [deceased]; ZAVALISHIN, N.I.,
 general-leytenant meditsinskoy sluzhby, redaktor; KROTKOV, F.G., ge-
 neral-mayor meditsinskoy sluzhby, redaktor; ORBELI, L.A., general-
 polkovnik meditsinskoy sluzhby, redaktor; KUPRIYANOV, P.A., general-
 leytenant meditsinskoy sluzhby, redaktor; PRIOROV, N.N., redaktor;
 SHAMOV, V.N., general-leytenant meditsinskoy sluzhby, redaktor;
 MAKSIMENKOV, A.N., polkovnik meditsinskoy sluzhby; BANSCHCHIKOV, V.M.,
 professor, polkovnik meditsinskoy sluzhby.

[Experience of Soviet medicine during the Great Patriotic War, 1941-
 1945] Opyt sovetskoi meditsiny v velikoi otechestvennoi voine.
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1. Deystvitel'nyy chlen Akademii nauk SSSR i AMN SSSR (for Anich-
 kov, Burdenko, Orbeli) 2. Deystvitel'nyy chlen AMN SSSR (for Vi-
 nogradov, Vovsi, Grigolav, Davidenkov, Davydovskiy, Dzhanelidze,
 Krotkov, Kupriyanov, Shamov)
 (Extremities(Anatomy)--Wounds and injuries) (Gunshot wounds)

BOLDYREV, T. Ye.

GINZBURG, G.R., kandidat meditsinskikh nauk (Moscow)

"Collection of important official data on sanitation and epidemic control." T.E.Boldyrev [professor], V.M.Zhdanov [professor], eds. Reviewed by G.R.Ginsburg. Fel'd. i akush. no.7:62-63 J1 '54.

(MLRA 7:7)

(EPIDEMIOLOGY)

(PUBLIC HEALTH)

BOLDYREV, T. Ye., general-mayor meditsinskoy sluzhby, professor, redaktor; ...
ZHUKOV, G. I., gvardii mayor meditsinskoy sluzhby, redaktor.

[Experience of Soviet medicine in the Great Patriotic War of 1941-1945] Opyt sovetskoi meditsiny v velikoi otechestvennoi voine 1941-1945 gg. Moskva, Medgiz. Vol. 32. 1955. 162, 216, 97 p.

(MLRA 9:3)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Boldyrev)

(WORLD WAR, 1939-1945--MEDICAL AND SANITARY AFFAIRS)

KROTKOV, F.G., general-mayor meditsinskey sluzhby, redaktor; BOLDYREV, T.Ye., redaktor; ROGOZIN, I.I., redaktor; VISKOVSKIY, S.V., redaktor [deceased]; ROZHDESTVENSKIY, V.M., redaktor.

[Soviet medicine during the Great Patriotic War, 1941-1945] Opyt sovetskoi meditsiny v velikoi otechestvennoi voine 1941-1945 gg. Moskva, Gos.izd-vo med.lit-ry. Vol.33. 1955. 283 p. [Microfilm] (MLRA 9:6)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Kretkov) (World War, 1939-1945--Medical and sanitary affairs)

BOLDYREV, T.Ye., professor

Chinese folk medicine. Zdorov'e 2 no.7:26-28 J1 '56. (MLBA 9:8)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR.
(CHINA---MEDICINE)

BAKULEV, A.N., glavnyy red.; ANICHKOV, N.N., red.; BOLDYREV, T.Ye., red.;
BRUSILOVSKIY, L.Ya., red.; BYKOV, K.M., red.; VASILENKO, V.Kh.,
red.; VINOGRADOV, N.A., red.; GRASHCHENKOV, N.I., red.; DAVYDOVSKIY,
I.V., red.; ZDRODOVSKIY, P.F., red.; KAVETSKIY, R.Ye., red.;
KOCHERGIN, I.G., red.; KROTKOV, F.G., red.; KUPRIANOV, P.A., red.;
LEBEDINSKIY, A.V., red.; MALINOVSKIY, M.S., red.; MAN'KOVSKIY, B.N.,
red.; NESTEROV, A.I., red.; ORBELI, L.A., red.; PAVLOVSKIY, Ye.N.,
red.; SEVERIN, S.Ye., red.; SKRYABIN, K.I., red.; SMIRNOV, Ye.I.,
red.; TIMAKOV, V.D., red.; TUR, A.F., red.; SHABANOV, A.N., red.

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N.N.Anichkov i dr. Moskva, Gos.izd-vo med.lit-ry. Vol.3.
B - Bogolepova. Izd.2-oe. 1957. 1176 columns. (MIRA 11:1)
(MEDICINE--DICTIONARIES)

BOLDYREV, T.Ye., red.; SHTENBERG, A.I., red.

[Hygiene of nutrition] *Gigiiena pitania*. Izd. 2-oe, perer. i dop.
Pod red. T.E.Boldyreva i A.I.Shtenberga. Moskva, Medgiz, 1957.
387 p. (MIRA 11:5)
(FOOD HANDLING--HYGIENIC ASPECTS)

BOLDYREV. T.Ye., professor

~~CONFIDENTIAL~~
Patriotic movement for protecting of the public health in the
Chinese People's Republic. Gig. i san. 22 no.4:48-52 Ap '57.
(MLRA 10:9)

- 1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR
(PUBLIC HEALTH,
in China (Rus))

CHU, Yen; KRYUKOV, M.V. [translator]; BOLDYREV, T.Ye., red.,

[Achievements of ancient Chinese medicine] Dostizhenia
drevnekitaiskoi meditsiny. Perevod s kitaiskogo M.V.Kriukova,
pod red. T.E.Boldyreva. Moskva, Medgiz, 1958. 84 p. [Translated
from the Chinese] (MIRA 12:6)

(MEDICINE, CHINESE)

BAKULEV, A.N., akad., glavnyy red.; ANICHKOV, N.N., red.; BOLDYREV, T. Ye., red.;
BRUSILOVSKIY, L. Ya., prof., red.; BYKOV, K.M., red.; VASILENKO,
V. Kh., red.; GRASHCHENKOV, N.I., prof., red.; DAVYDOVSKIY, I.V., red.;
ZIRODOVSKIY, P.F., red.; KAVETSKIY, R. Ye., red.; KOCHERGIN, I.G., red.;
KROTKOV, F.G., red.; KUPRIYANOV, P.A., red.; ~~LEBEDINSKIY, A.V., red.~~;
MALINOVSKIY, M.S., red.; MAN'KOVSKIY, B.N., red.; NESTEROV, A.I., red.;
ORBELI, L.A., red.; PAVLOVSKIY, Ye.N., red.; SEVERIN, S.E., red.;
SKRYABIN, K.I., red.; SMIRNOV, Ye.I., red.; TIMAKOV, V.D., prof., red.;
TUR, A.F., red.; SHABANOV, A.N., prof., red.

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Izd. 2. Moskva, Gos. nauchnoe izd-vo "Bol'shaia sovetskaya
entsiklopediya." Vol. 7. [Gynatresia -burning. 1958. 1120 columns]
Ginatrezia-gorenie. [Phonograph record to accompany the article
"Golos" (voice of laryngectomees)] Grammofonnaya plastinka k stat'e
"Golos" (golos liaringektomirovannykh bol'nykh), [Three-dimensional
viewer] Oчки-svetofil'try. (MIRA 11:12)

(MEDICINE--DICTIONARIES)

BAKULEV, A.N., glavnyy red.; ANICHKOV, N.N., red.; BOLDYREV, T.Ye., red.;
BRUSILOVSKIY, L.Ya., red.; BYKOV, K.M., red.; VASILENKO, V.Kh.,
red.; GRASHCHENKOV, N.I., red.; DAVYDOVSKIY, I.V., red.;
ZDRODOVSKIY, P.F., red.; KAVETSKIY, P.Ye., red.; KOCHERGIN, N.G.,
red.; KROTKOV, F.G., red.; KUPRIYANOV, P.A., red.; LEBEDINSKIY,
A.V., red.; MALINOVSKIY, M.S., red.; MAN'KOVSKIY, B.N., red.;
NESTEROV, A.N., red.; ORBELI, L.A., red. PAVLOVSKIY, Ye.N., red.;
SEVVRIN, S.Ye., red.; SKRYABIN, K.I., red.; SMIRNOV, Ye.I., red.;
TIMAKOV, V.D., red.; TUR, A.F., red.; SHABANOV, A.N., red.;
GRISHINA, L.A., tekhn. red.

[Great Medical Encyclopedia] Glav. red. A.N. Bakulev. Chleny red.
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Vol.6. Vul'va - Ginantrop. Izd.2. 1958. 1184 columns. (MIRA 11:9)
(Medicine--Dictionaries)

GORDIN, B.L.

"Food hygiene", edited by T.E. Boldyrev and A.I. Shtenberg.
Reviewed by B.L. Gordin. Voprit. 17 no.5:85-87 S-0 '58

(MIRA 11:10)

(FOOD HANDLING)

(BOLDYREV, T.E.)

(SHTENBERG, A.I.)

BAKULEV, A.N., glav. red.; ANICHKOV, N.N., red.; BOLDYREV, T.Ye., red.;
BRUSILOVSKIY, L.Ya., red.; BYKOV, K.M., red.; VASILENKO, V.Kh., red.;
VINOGRADOV, N.A., red.; GRASHCHENKOV, N.I., red.; DAVYDOVSKIY, I.V.,
red.; ZDRODOVSKIY, P.F., red.; KAVETSKIY, P.Ye., red.; KOCHERGIN,
I.G., red.; KROTKOV, F.G., red.; KUPRIYANOV, P.A., red.; LEBEDINSKIY,
A.V., red.; MALINOVSKIY, M.S., red.; MAN'KOVSKIY, B.N., red.;
NESTEROV, A.I., red.; ORBELI, L.A., red.; PAVLOVSKIY, Ye.N., red.;
SEVERIN, S.Ye., red.; SKRYABIN, K.I., red.; SMIRNOV, Ye.I., red.;
TIMAKOV, V.D., red.; TUR, A.F., red.; SHABANOV, A.N., red.;
KALINICHEV, V.A., tekhn. red.

[Great medical encyclopaedia] Bol'shaia meditsinskaia entsiklopediia.
___ [Phonograph record to accompany the article on "Congenital heart
disease"] Grammofonnaia plastinka sodержit zapis' zvukovykh iavle-
nii k stat'e "Vrozhdennyye poroki serdtsa." Glav. red. A.N. Bakulev.
Chleny red. kollegii N.N. Anichkov i dr. Izd. 2. Moskva, Gos. izd-vo
med. lit-ry. Vol. 5. Vezikula - Vulkanizatsiia. 1958. 1248 columnas.
(MEDICINE--DICTIONARIES) (MIRA 11:7)

~~BOLDYREV, T.Ye., BESSMERTNYI, B.S., SHATROV, I.I., TYRKOVA, Ye.S.~~

Relation between social and biological factors in the epidemic process.
Zhur.mikrobiol. epid. i immun. 29 no.6:112-117 Je '58 (MIRA 11:7)
(EPIDEMIOLOGY,
soc. & biol. aspects of epidemic (Rus))

BEZDENEZHNYKH, I.S.; BOLDYREV, Tikhon Yefimovich, red.

[Ornithosis; epidemiology and prophylaxis] Ornitozy; epidemiologiya
i profilaktika. Moskva, 1959. 117 p. (MIRA 13:8)
(ORNITHOSIS)

BOLDYREV, T. Ya.; SHATROV, I.I.; ANAN'IN, V.V.; BESSMERTNYI, B.S.; OLSUF'YEV, N.G.;
FAVOROVA, L.A.; MITEL'MAN, S.L.; OSADCHIYEVA, A.L.

"Epidemiology," edited by G.IA.Zmeev. Reviewed by T.E.Boldyrev
and others. Zhur.mikrobiol.epid. i immun. 30 no.4:134-138
Ap '59. (MIRA 12:6)

(EPIDEMIOLOGY) (ZMEEV, G.IA.)

BOLDYREV, T.Ye.; ALEKSANYAN, A.B; SHATROV, I.I.; KORSHAKOVA, A.S.; LEYTMAN,
M.Z.; FROLOV, V.I.; KOVALEVA, N.I.

Studies on the effectiveness of an alcoholic dysentery vaccine based
upon extensive epidemiological observations. Zhur.mikrobiol.epid. i
immun. 30 no.7:3-7 J1 '59. (MIRA 12:11)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.
(DYSENTERY, BACILLARY - immunology)
(VACCINES)

KORSHAKOVA, A.S.; BOLDYREV, T.Ye.; ALEKSANYAN, A.B.; SHATROV, I.I.; LEYTMAN, L.V.; FROLOV, V.I.; SEMINA, N.A.; DEVOYNO, L.V.; SIZINTSEVA, V.P.; RATURINA, L.M.; ABAKAROV, U.A.; GRINAVTSEVA, V.P.; MEDZHIDOV, V.; KORSHUNOVA, N.A.

Studies on the reactogenic properties of Gamaleia IEM polyvaccine.
Zhur.mikrobiol.,epid.i immun. 30 no.11:37-41 N '59. (MIRA 13:3)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.
(DYSENTERY BACILLARY immunol.)
(TYPHOID immunol.)
(PARATYPHOID FEVERS immunol.)
(TETANUS immunol.)
(VACCINATION)

BOLDYREV, T.Ye., prof., red.; BELIKOV, Georgiy Petrovich, red.

[First All-Russian Conference of Epidemiologists, Microbiologists, and Specialists in Infectious Diseases, June 1957] Pervais Vserossiiskaia konferentsiia epidemiologov, mikrobiologov i infektsionistov. Pod obshchei red. T.E.Boldyreva. Moskva, Vseros.nauchn. i med.ob-vo epidemiologov, mikrobiologov i infektsionistov, 1959. 298 p. (MIRA 13:11)

1. Vserossiyskaya konferentsiia epidemiologov, mikrobiologov i infektsionistov. 1st. Kuibyshev, 1957. 2. Chlen-korrespondent AMN SSSR (for Boldyrev).

(EPIDEMIOLOGY--CONGRESSES)

BOLDYREV, T.K.

Organization and methods of study of the efficacy of the prophylactic preparations in an epidemiological trial. J.hyg.epidem., Praha 4 no.3:292-295 '60.

1. Gamaleya Institute of Epidemiology and Microbiology, Dept. of Bacteriology, Moscow.
(VACCINES)

report presented

at The International Epidemiological Symposium, Prague 22-26 Feb. 1960.

Corresponding member of the Academy of Medical Sciences USSR.

"The Organization and Methods of study of the Effectiveness of Prophylactic in the
Epidemiological Experiment"

(Voyenno-Meditsinskiy Zhurnal, No 6, 1960)

BOLDYREV, T.E.

The organization and methods for testing of the activity of prophylactic preparations in epidemiological trials. Cesk.epidem. mikrob.imun.9 no.5/6:402-405 J1'60.

1. Katedra epidemiologie Ustavu pro doskolovani lekaru, Moskva.
(VACCINATION)

BUGROVA, V.I., kand. med. nauk; VINOGRADOVA, I.N., kand. biol. nauk;
D'YAKOV, S.I., kand. med. nauk; ZHDANOV, V.M., prof.;
ZHUKOV-VEREZHNIKOV, N.N., prof.; ZEMTSOVA, O.M., kand.
med. nauk; IMSHENETSKIY, A.A., prof.; KALINA, G.P., prof.;
KAULEN, D.R., kand. med. nauk; KOVALEVA, A.I., doktor med.
nauk; KRASIL'NIKOV, N.A., prof.; KUDLAY, D.G., doktor biol.
nauk; LEBEDEVA, M.N., prof.; PERETS, L.G., prof. [deceased];
PEKHOV, A.P., doktor biol. nauk; PLANEL'YES, Kh.Kh., prof.;
POGLAZOVA, M.N., kand. biol. nauk; PROZOROV, A.A.; SINITSKIY,
A.A., prof.; FEDOROV, M.V., prof. [deceased]; SHANINA-VAGINA,
V.I., kand. biol. nauk; VYGODCHIKOV, G.V., prof., zamestitel'
otv. red.; ADO, A.D., prof., red.; BAROYAN, O.A., prof., red.;
BILIBIN, A.F., prof., red.; BOLDYREV, T.Ye., prof., red.;
VASHKOV, V.I., doktor med. nauk, red.; VYAZOV, O.Ye., doktor
med. nauk, red.; GAUZE, G.F., prof., red.; GOSTEV, V.S., prof.,
red.; GORIZONTOV, P.D., prof., red.; GRINBAUM, F.T., prof.,
red. [deceased]; GROMASHEVSKIY, L.V., prof., red.; YELKIN, I.I.,
prof., red.; ZASUKHIN, L.N., doktor biol. nauk, red.;
ZDRODOVSKIY, P.F., prof., red.; KAPICHNIKOV, M.M., kand. med.
nauk, red.; KLEMPARSKAYA, N.N., prof., red.; KOSYAKOV, P.N.,
prof., red.; LOZOVSKAYA, Ye.S., kand. med. nauk, red.;
MAYSKIY, I.N., prof., red.; MURCMTSEV, S.N., prof., red.
[deceased];

(Continued on next card)

BUGROVA, V.I.---(continued) Card 2.

NIKITIN, M.Ya., red.; NIKOLAYEVA, T.A., red.; PAVLOVSKIY, Ye.N., akademik, red.; PASTUKHOV, A.P., kand. med. nauk, red.; PETRISHCHEVA, P.A., prof., red.; POKROVSKAYA, M.P., prof., red.; POPOV, I.S., kand. med. nauk, red.; ROGOZIN, I.I., prof. red.; RUDNEV, G.P., prof., red.; SERGIYEV, P.G., prof., red.; SKRYABIN, K.I., akad., red.; SOKOLOV, M.I., prof. red.; SOLOV'YEV, V.D., prof., red.; TRIBULEV, G.P., dotsent, red.; CHUMAKOV, M.P., prof., red.; SHATROV, I.I., prof., red.; TIMAKOV, V.D., prof., red.toma; TROITSKIY, V.L., prof., red. toma; PETROVA, N.K., tekhn.red.;

[Multivolume manual on the microbiology, clinical aspects, and epidemiology of infectious diseases] Mnogotomnoe rukovodstvo po mikrobiologii klinike i epidemiologii infeksionnykh boleznei. Otv. red. N.N.Zhukov-Verezhnikov. Moskva, Medgiz. Vol.1. [General microbiology] Obshchaya mikrobiologiya. Otv. red. N.N.Zhukov-Verezhnikov. 1962. 730 p. (MIRA 15:4)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Zhdanov, Zhukov-Verezhnikov, Vygodchikov, Bilibin, Vashkov, Gromashevskiy, Zdrodovskiy, Rudnev, Sergiyev, Chumakov, Timakov, Troitskiy).

(Continued on next card)

BUGROVA, V.I.---(continued) Card 3.

2. Chlen-korrespondent Akademii nauk SSSR (for Imshenetskiy, Krasil'nikov). 3. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Planel'yes, Baroyan, Boldyrev, Gorizontov, Petrishcheva, Rogozin). 4. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Muromtsev).

(MICROBIOLOGY)

BOLDYREV, T.Ye.; SHATROV, I.I.; BRAYNINA, R.A.; YULAYEV, S.N.

Antiepidemic measures for eradicating a focus of smallpox.
Zhur. mikrobiol., epid. i immun. 33 no.2:116-119 F '62.

(MIRA 15:3)

(SMALLPOX--PREVENTION)

BOLDYREV, V., dotsent.

The training of glass blowers. Prof.-tekh. obr. 14 no.4:31 Ap '57.
(MIRA 10:4)

1. Tomskiy gosudarstvennyy universitet imeni V.V. Kuybysheva.
(Glass blowing and working)

BOLDIREV, V.

Boldyrev, V. "The navigation of the 'Vityaz'". (A naturalist's journal)". Illustrated by V. Viktorov. Znaniye - sila, 1948, No. 12, p. 11-16 (continued from Issue No. 11).

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

BOLDYREV, V.; IVANOVA, L., red.; LUKASHEVICH, V., tekhn.red.

[On the shores of the Arctic Ocean; a naturalist's notebook]
Na beragakh Poliarnogo okeana; zapiski naturalista. Saratovskoe
knizhnoe izd-vo, 1954. 119 p. (MIRA 12:3)
(Arctic region)

BOLDYREV, V.

AUTHOR: Boldyrev, V.

4-1-10/19

TITLE: Battle of Projects (Bitva proyektov)

PERIODICAL: Znaniye - Sila, 1958, # 1, pp 30 - 33 (USSR)

ABSTRACT: The author describes the construction of hydroelectric plants which have already been erected and others that are planned in the Volga-Kama area. There is a chain of water reservoirs along the entire length of the Volga and Kama rivers. About 14 hydroelectric plants in this chain with a total output of 12 million kilowatts will produce sixty billion kilowatt-hours per year. Construction has begun on six hydroelectric plants of the Volga-Kama cascade and they are already supplying the industrial areas of Moscow, the Upper Volga, the Urals, the Ul'yanov and the Kuybyshev oblasts. Three hydroelectric plants (Stalingrad, Saratov and Votkinsk) - will start operating during the sixth Five-Year Plan.

The author tells about a visit to the Saratov hydroelectric plant, the seventh step of the Volga cascade, which is now under construction. In 1956, Nikolay Maksimovich Ivantsev was sent from the Kuybyshev construction site to build the Saratov hydroelectric plant. Ivantsev proposed to modify the project by transferring the construction site above Pustynnyy Island.

Card 1/2

Battle of the Projects

4-1-10/19

On the 28th March 1957, the Board of the Ministry of Power Plants accepted this plan and Ivantsev was appointed chief engineer. His project is now becoming a reality with the aid of a large collective of engineers.

This collective also proposed a more ideal and advanced structure for the hydroelectric plant. They decided to combine the plant and the floodgate into one unit.

The dam at Saratov will raise the water level of the Volga 14 meters. The plant will have a power output of one million kilowatts and it will be completed in the course of the sixth Five-Year Plan.

There are 5 figures.

AVAILABLE: Library of Congress

Card 2/2

AUTHOR: Boldyrev, V.

4-2-6/18

TITLE: The Earth's Blood (Krov' Semli)

PERIODICAL: Znaniye-Sila, 1958, ^{No. 33} # 2, pp 17-19 (USSR)

ABSTRACT: This is a short story of a trip along the Volga. An old professor talks on astro-climatology, future irrigation of the Volga area; the so-called Engels Plan, etc. To be continued in next edition.
There are 5 sketches.

AVAILABLE: Library of Congress

Card 1/1

BOLDYREV, V.

Future of the Caspian Sea. Znan. sila 33 no.3:10-14 Mr '58.
(MIRA 11:4)

(Caspian Sea)

BOLDYREV, V.

Let us talk about honesty. Sov.profsoiuzy 17 no.12:30-31 Je '61.
(MIRA 14:6)

1. Master tsekha No.4 liteyno-mekhanicheskogo zavoda "Lenzhilsnab."
(Moscow—Foundry) (Labor and laboring classes)

BOLYBEN, V. (K. S. 1911-1971)

A program, not a group. (Soviet av. 22 nr. 3:14-15 W. 1965)

(MIRA 18:7)

1. Glavnyy inzh. Polimochavskikh lineynykh masterchikov.

7524/777 5 0 7

PAKHALOK, Ivan Filippovich; ~~BOLDYREV, Vasilii Andreovich~~; POPOVA, G.N.,
otvetstvennyy redaktor; ZAZUL'SKAYA, V.P., tekhnicheskiiy redaktor;
KOROVENKOVA, Z.A., tekhnicheskiiy redaktor

[Briquetting coal] Briketirovanie uglei. Moskva, Ugeltekhizdat,
1957. 179 p. (MIRA 10:11)
(Briquets (Fuel))

БОЛДЫРЕВ, В. П.

128-58-4-12/18

AUTHORS: Boldyrev, V.A.; Kotomchanina, M.S.; Itskovich, Ye.A., Engineers

TITLE: Use of Oil-Less "BTK" "Core Binder for Magnesium Castings"
(Primeneniye bezmaslyanogo krepitelya "BTK" dlya magniyevogo lit'ya)

PERIODICAL: Liteynoye Proizvodstvo, 1958, No. 4, p 26 (USSR)

ABSTRACT: The oil-less core binder "BTK" - which can replace the scarce oil binders "4 GU", "4 GR" and the "S" oil - consists of 40-45% low-melting petroleum asphalt of "BN-2" or "BN-3" grade, and 60-55% kerosene solvent "TS-1" (Tuymazinskiy). This oil-less binder has a low gas-generating capacity, and the quality of castings has improved since it is used; it is 10 times less expensive than "4 GU". The short article gives information on the composition of the core mix with which the new binder is used, and on the "BTK" binder production process.

AVAILABLE: Library of Congress

Card 1/1 1. Castings 2. Core composition-Economic aspects

PROCESSES AND PROPERTIES INDEX

JUN 1951

AMS/A+B

551.580.012

2.6 113
 Vozruchayin, N. K. and Bokharyev, V. B. Izmeneniye vegetativnykh protsessov v organizme pri prebyvanii v vysokogor'nykh p'ovol'nyakh. [Changes in some vegetative functions of an organism in high mountain climates.] (In Trudy I Khirurgicheskoi Ekspeditsii Akademii Nauk, SSSR, i Vsesoyuznogo Instituta Eksperimental'noi Meditsiny 1931 i 1935. [Reports of the Ekspeditsii 1941 and 1945.] Moscow, 1936. p. 419-440. 12 tables, 22 refs. Summary in English p. 419-440. [14. Nauka, SSSR, Komissiya po izucheniю stratofery, Tom II.] DLC: Frequency of pulse rate, blood pressure and respiration in a recumbent position, length of time the breath can be held, the radiostatic test, pulse rate after muscular work and red dermographism were investigated in 6 subjects at elevations of 2250 m, 4250 m and 5350 m. The vegetative functions are altered noticeably at elevations of 2200 m. The variability of the vegetative functions is greater at moderate elevations than at higher altitudes. After prolonged stay at high altitudes the changes become more marked and show no tendency to return to the initial level. The authors stress the importance of individual variations. Subject Heading: Mountain meteorology, Physiological climatology, Ekibura Expedition, U.S.S.R.--I.L.D.

METALLURGICAL LITERATURE CLASSIFICATION

E-2-100-100-100

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

111 AND 120 CODES

PROCESSES AND PROPERTIES INDEX

ca

Holay...

The relation of humoral and parabolic inhibition. II.
The interaction between neurohumoral and metabolites.
V. D. Holayev. Arch. sci. biol. (U. S. S. R.) 44, No. 1
2, 61-80 (in English 80-81) (1930). W. A. Perlzweig

111 AND 120 CODES

ASB-SLA METALLOGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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BOLDYREV, V. B.

"The interrelation between humoral (chemical) and electrical transmission of excitation"
(p. 65) by Boldyrev, V. B.

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologie) Vol. XII, No. 1, 1940

BOLDYREV, V.B.

Role of lability and polarization potentials in vagal inhibition
of the heart. Uch.zap.Len.un. no.164:104-125 '54. (MLRA 10:3)
(HEART--INNERVATION) (INHIBITION) (VAGUS NERVE)
(ELECTROPHYSIOLOGY)

ZLOBIN, Konstantin Vasil'yevich; BOLDYREV, V.B., red.; RULEVA, M.S., tekhn.
red.

[Physiology of singing in prevention of diseases of the throat
among singers] Fiziologiya penia v profilaktike zabolevanii
golosa pevtsov. [Leningrad] Gos. izd-vo med. lit-ry, Leningr.
otd-nie, 1958. 135 p. (MIRA 11:10)

(THROAT-DISEASES)

(SINGING)

BOLDYREV, V.D., inzhener

Railroad track and track management in the U.S.S.R. during the past
30 years. Tekh.zhel.dor.6 no.11:25-29 N'47. (MLRA 8:12)
(Railroads--Track)

IGIDYREV, V.F.; BELIAYEV, N.M.; BUKHCEM, A.N.; POTOV, P.V.; SAVZDARG, E.E.;
SVENIDENKO, I.A.; T'PIKOV, V.K.

"Fight against Pests and Diseases of Agricultural Plants" (Bor'ba s vreditelyami i bolezniami sel'skokhozyaystvennykh rasteniy), OGIZ, K., 1933.

Bor'ba s bolezniami sel'skokhozyaystvennykh kul'tur, Vol. 4, 1953.
(Works of the Institute of Entomology and Phytopathology of the Ukrainian Academy of Sciences)

BOLDYREV, V. F., ED.

Principles of the Protection of Plants from Pests and Diseases, vol. 1, State
Publishers of Kolkhoz and Sovkhoz Literature, Moscow, 1936, 773 pp. 423 B635

SO: SIRA SI 90-15; 15 Dec 1953

BOLDYREV, V.F.

"Tettigonidae, katydid subfamily (Phaneropterinae)" by G.IA.Bei-Bienko (from "Fauna SSSR," new series, no.59: Orthoptera, vol.2, no.2, 1954). Reviewed by V.F.Boldyrev. Ent.oboz.35 no.4:960-962 '56.

(Katyids)

(Bei-Bienko, G.IA.)

(MLRA 10:2)

ACC NR: AP7003609 SOURCE CODE: UR/0185/66/011/012/1277/1285

AUTHOR: Boldyshev, V. F.

ORG: Physicotechnical Institute, AN URSSR, Khar'kov (Fizyko-tekhnichnyy instytut AN URSSR)

TITLE: Furri Sommerfeld Maue approximation

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 11, no. 12, 1966, 1277-1285

TOPIC TAGS: wave function, electron, Coulomb field, approximation error

ABSTRACT: The author gives a general derivation of the wave functions of an electron in the Coulomb field for the Furri—Sommerfeld—Maue approximation. The approximation error is estimated. The error decreases linearly with an increase in the moment of partial waves. The author thanks Academician O. I. Akhiezer for his valuable discussions. Orig. art. has: 44 formulas. [Author's abstract] [NT]

SUB CODE: 20/SUBM DATE: 30Mar66/ORIG REF: 004/OTH REF: 005/

Card 1/1

30747

S/546/61/000/111/001/002
E032/E414

3,5100 (2905)

AUTHORS: Belousov, S.L., Boldyrev, V.G.
TITLE: On the forecasting of the geopotential in the upper atmosphere
SOURCE: Moscow. Tsentral'nyy institut prognozov. Trudy, no.111. 1961. Voprosy dinamicheskoy meteorologii, 3-12

TEXT: In the first part of this paper, the authors put forward a method for the short-range forecasting of the geopotential in the upper atmosphere. The effect of the lower-lying levels is taken into account by formulating the corresponding boundary conditions at the lower boundary of the region under investigation. The problem is solved for the layer which lies above the mean level of the atmosphere. The latter is identified with a certain isobaric surface (for example 700 mb). The geopotential of the mean level is looked upon as a known function of time, which is found independently of the forecast for the mean level, as described by Ye.N.Blinova (Ref.1: Hydrodynamic Theory of Pressure Waves. Temperature Waves and Centres of Atmospherical Activity, DAN SSSR, v.39, no.7, 1943). The forecast is based on the

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E032/E414

On the forecasting of ...

following formula (Ref.4: Kibel', I.A., Introduction to hydrodynamic methods of weather forecasting, GTTI, M. 1957)

$$\Delta q + \frac{\partial}{\partial \zeta} \left(\zeta^2 \frac{\partial q}{\partial \zeta} \right) = F, \tag{1}$$

where

$$q = \frac{\partial H}{\partial t}; \quad F = -\frac{c^2}{ig} A_\Omega + \frac{R}{g} \frac{\partial}{\partial \zeta} (\zeta A_r),$$

and

$$A_\Omega = \frac{g^2}{p} (H, \Delta H) + \frac{g}{T} \frac{\partial H}{\partial x}, \quad A_r = -\frac{g}{R} \frac{\partial}{\partial \zeta} \left(H, \frac{\partial H}{\partial \zeta} \right)$$

The quantity ζ serves as the vertical coordinate and is equal to the ratio of the pressure at the particular level to the standard pressure at sea level. The horizontal coordinates are the dimensionless quantities x and y , the unit of length being c/ℓ where ℓ is the Coriolis parameter and $c^2 = R/g(\gamma - \gamma)RT$ (assumed constant). The Laplace operator Δ and the Jacobian (A, B) are taken in terms of the variables x, y . The boundary

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30747

S/546/61/000/111/001/002
E032/E414

On the forecasting of ...

conditions for ζ are

$$\zeta \rightarrow 0 \quad \zeta \frac{\partial q}{\partial \zeta} < \infty; \tag{2}$$

$$\zeta = \zeta_0 \quad q = q_0(x, y, t), \tag{3}$$

where the subscript 0 refers to the mean level of the atmosphere and q_0 is a known function of time. It is shown that the solution is given by

$$q = q_0 + \frac{1}{2\pi} \frac{c^2}{g} \int_0^1 \int_{-\infty}^{\infty} (A_{\Omega} - A_{\Omega_0}) G_{\Omega} dx' dy' d\xi' - \tag{8}$$

where

$$- \frac{1}{2\pi} \frac{R}{g} \int_0^1 \int_{-\infty}^{\infty} A_T G_T dx' dy' d\xi', \tag{9}$$

$$G_{\Omega} = \frac{1}{2\sqrt{\xi\xi'}} \sigma(a, r) \Big|_{a = \ln \frac{\xi}{\xi'}}^{a = \ln \frac{\xi'}{\xi}}; \quad G_T = -\xi' \frac{\partial G_{\Omega}}{\partial \xi'}$$

Card 3/7

30747

On the forecasting of ...

S/546/61/000/111/001/002
E032/E414

$$\sigma(a, r) = \frac{e^{-\frac{1}{2} \sqrt{a^2 + r^2}}}{\sqrt{a^2 + r^2}};$$

$$r^2 = (x - x')^2 + (y - y')^2.$$

The second part of the paper is concerned with the setting up of a program so that the solution given by Eq.(8) can be evaluated numerically with the aid of a computer. The integrals in Eq.(8) are computed by the method described by I.A.Kibel' (Ref.4). The technical details and the results of preliminary experiments are not given but the final formulas used in the forecast are reproduced. The final section reports preliminary results of the calculations. Fig.3 shows a typical result (a- original distribution for February 2, 1954 at 18 hours; **6** - actual distribution for February 3, 1954 at 18 hours; **B** - the predicted distribution for February 3, 1954 at 18 hours). The scheme now reported is stated to be the first step in the development of forecasting methods for the upper atmosphere. It is possible to improve this scheme within the framework of the quasi-geostrophic

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On the forecasting of ...

approximation. Thus, one must take into account the planetary boundary layer which exists in the stratosphere (Ref.4). The associated baroclinic effects will require a more detailed description of the vertical structure of the upper atmosphere. The difference between the static stability parameters in the troposphere and stratosphere must also be taken into account. A.D.Chistyakov, N.I.Buleyev, G.I.Marchuk and A.M.Obukhov are mentioned in the article for their contributions in this field. There are 5 figures, 2 tables and 6 Soviet-bloc references.

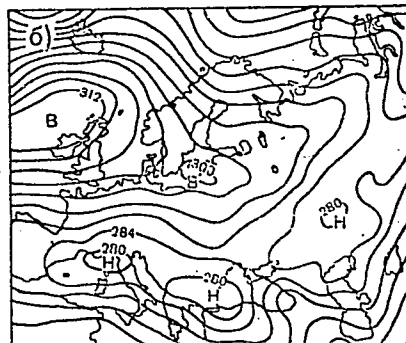
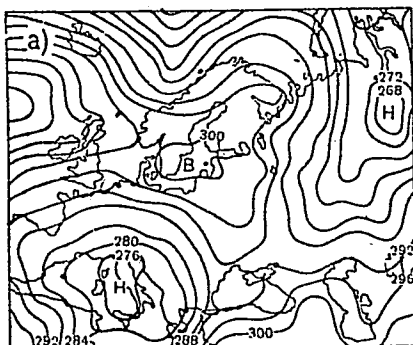
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Fig.3.

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E032/E414

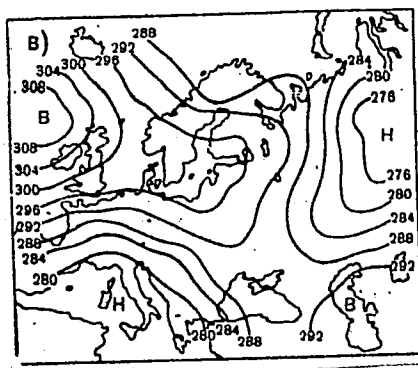


Fig.3.

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S/050/62/000/010/001/001
D218/D307

AUTHOR: Boldyrev, V.G.

TITLE: On the use of radiation measurements from satellites
in synoptic analysis

PERIODICAL: Meteorologiya i gidrologiya, no. 10, 1962, 28-34

TEXT: It is noted that although radiation phenomena have a profound effect on meteorological elements, radiation data have not been extensively used in the analysis and forecasting of weather. Satellites provide, for the first time, a means for the global study of radiation in the Earth-atmosphere system. In the present work the aim was to consider the relation between the distribution of radiation leaving the system and the synoptic situation, and to elucidate the correspondence (if any) between the distribution of the radiation escaping through the 'atmospheric window' and the temperature distribution on the underlying surface. Use was made of the 8 - 12 μ data obtained with Tiros II. Comparison of these data with synoptic charts showed that the radiation field is

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On the use of radiation ...

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in good agreement with those data on the form and position of clouds which can be deduced from analyses of the synoptic situation. Radiation charts provide information about the position of major cloud formations, although this information is not as yet sufficiently quantitative. The results of a further comparison, namely, the determination of the position of the upper boundaries of clouds from synoptic and radiation-field analyses were found to be in good agreement (and, in fact, within the limits of accuracy of the synoptic method). However, such agreement can only be obtained for continuous cloud layers. In general, the best method is to use simultaneous radiation, television and radar measurements. There are 4 figures and 1 table. ✓
B

ASSOCIATION: Tsentral'nyy institut prognozov (Central Forecasting Institute)

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L 63463-65 FSS-2/ENP(1)/FS(v)-3/ENG(v) TT/GW

ACCESSION NR: AP5019151

UR/0362/65/001/007/0696/0702
551.521.32

AUTHOR: Boldyrev, V. G.

TITLE: The calculation of atmospheric transfer functions within the 8-12 micron spectrum interval for the Northern Hemisphere

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 1, no. 7, 1965, 696-702

TOPIC TAGS: weather satellite, atmospheric temperature measurement, atmospheric transfer function, transfer function chart, radiation transfer function

ABSTRACT: The measurements carried out by the "Tiros" satellite series show the importance of radiation measurements within the 8-12 μ interval (R.A. Kanel, D.Q. Wark, J. Opt. Soc. America, 51, 1961; W. Nordberg et al., J. Atmos. Sci., 19, no. 1, 1962). However, the study of the first such data indicated that the results of the temperature determination of the underlying geographical regions are often significantly below the actual readings. The atmospheric weakening of the emitted radiation leading to the above-mentioned incorrect satellite measurements can be taken care of by appropriate atmospheric radiation transfer functions, and the calculations dealing with the amounts of radiation/attenuation

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ACCESSION NR: AP5019151

in the present article are based on such a function proposed by M. S. Malkevich (Tr. GGO, no. 166, 1964)

$$P(w^*, m^*, T_0, \theta) = \frac{W_\infty}{W_0} = \frac{\int_0^\infty I_{v\infty}(\theta) k_v dv}{\int_0^\infty B_v(T_0) k_v dv} \quad (1)$$

where $I_{v\infty}(\theta)$ is the intensity of the emitted radiation of frequency ν at an angle θ to the vertical; k_ν is the spectral sensitivity of the radiation registering device; $B_\nu(T_0)$ is the Planck's function at temperature T_0 of the radiating surface assumed to be absolutely black; w^* , m^* are the effective masses of water vapor and ozone, respectively. Here k_ν is assumed $\equiv 0$ for $\nu < \nu_1$ and $\nu > \nu_2$. The radiation leaving the upper limit of the atmosphere (~ 40 km, $T_\infty \approx T$) at an angle θ within the $\nu_1 < \nu < \nu_2$ interval is calculated using the equation

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ACCESSION NR: AP5019151

$$I_{\nu_{\infty}}(\theta) = B_{\nu}(T_{\infty}) + \int_{T_{\infty}}^{T_s} \frac{dB_{\nu}}{dT} \tau dT \quad (\nu_1 = 790, \nu_2 = 1220 \text{ cm}^{-1}), \quad (2)$$

(τ = transmission function) during integration of (3) the atmosphere is subdivided into 0,5 km thick layers and the $I_{\nu_{\infty}}$ quantity is subsequently "integrated" according to (1) in $\Delta \nu = 10 \text{ cm}^{-1}$ steps. The transmission functions are

$$\tau_{\text{H}_2\text{O}} = e^{-\beta(\nu) \nu^{\alpha}}, \quad (3)$$

and

$$\tau_{\text{O}_3} = 1 - \Phi \left(\sqrt{\frac{L_{\nu}^{(m)} m^{\alpha}}{2}} \right), \quad (4)$$

where $\beta(\nu)$ is taken from F. Moller's paper (Evaluation of "TIROS III" radiation data, Interim Report, No. 1, Meteorol. Ins., Munich) and $L_{\nu}^{(m)}$ are the generalized Elsasser coefficients for the 9.6 μ ozone absorption band (V. M. Elsasser, M.F. Culbertson, Meteorol. Monographs, 4, 1960); $\Phi(x)$ is the error integral. Results presented in the form of two Northern Hemisphere atmospheric transfer function charts (for January and July, $\theta = 0$) indicate that the transfer P varies

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1. 63463-65

ACCESSION NR: AP5019151

considerably in time and space. Orig. art. has: 9 formulas, 4 figures, and 1 table. 2

ASSOCIATION: Glavnoye upravleniye Gidrometsluzhby (Main Administration of the Gidrometsluzhba) 55

SUBMITTED: 30Oct64

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SUB CODE: ES

NO REF SOV: 004

OTHER: 010

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L 63464-65 FSS-2/EWT(1)/FS(v)-3/ENG(v) TT/GW
ACCESSION NR: AP5019152 UR/0362/65/001/007/0703/0714
551.521.32

AUTHOR: Boldyrev, V. G.; Koprova, L. I.; Malkevich, M. S.
55 55 26
22
8

TITLE: The role of vertical temperature and humidity profiles during the determination of the Earth's surface temperature from outgoing radiation

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 1, no. 7, 1965, 703-714

TOPIC TAGS: weather satellite, window transparency measurement, atmospheric temperature, ^{55, 12}atmospheric humidity, atmospheric radiation absorption

ABSTRACT: Satellites of the "Tiros" series carried out measurements of the Earth's surface temperature utilizing radiation leaving the Earth through the so-called "transparency window" existing in the 8-12 μ range. However, due to various absorption effects, the errors of such measurements may be as high as 20C. Consequently, a method for the determination of the true surface temperature from satellite measurements of outgoing radiation is proposed. It is based on the use of the vertical temperature and humidity structure. Following an outline of the theory, the authors present some examples of such profiles and

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ACCESSION NR: AP5019152

vertical profiles of temperature-humidity mutual correlation coefficients for different regions of the Soviet Union and the rest of the world. Examples are worked out illustrating the proposed method; however, the general use of the proposed method presupposes further extensive research for the collection of pertinent data, particularly relative to vertical profiles in the presence of cloudiness. Orig. art. has: 25 formulas, 2 figures, and 5 tables.

ASSOCIATION: Institut fiziki atmosfery, Akademiya nauk SSSR (Institute of the Physics of the Atmosphere, Academy of Sciences SSSR) Mirovoy meteorologicheskii tsentr (World Meteorological Center)

SUBMITTED: 04Sep64

ENCL: 00

SUB CODE: SV, ES

NO REF SOV: 006

OTHER: 001

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Card 2/2

L 61734-65 EWT(1)/EWG(v) Pe-5/Pae-2 Gil

ACCESSION NR: AT5017524

UR/3118/65/000/008/0068/0075

AUTHOR: Boldyrev, V. G.

21
20
B+1

TITLE: Measurements of emergent radiation for computing temperature of the earth's surface and height of upper cloud boundaries

SOURCE: Mirovoy meteorologicheskii tsentr. Trudy, no. 8, 1965. Voprosy sputnikovoy meteorologii (Problems in satellite meteorology), 68-75

TOPIC TAGS: cloud, radiation measurement, artificial satellite, earth, surface temperature/ Tiros II satellite, Tiros III satellite

ABSTRACT: The use of satellite measurements of radiation from the earth in the 8-12 micron spectral interval for determining temperature of the earth's surface and height of upper cloud boundaries has been discussed by several authors. Results have lacked accuracy, however, because of the failure to consider loss of radiation by water vapor, ozone, and aerosols, and because of the assumption that the surface is a black body. Weakening of radiation must be considered in the light of atmospheric transfer of energy. It is suggested that the new function P of M. S. Malkevich (in press) be used:

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ACCESSION NR: AT5017524

$$P = \frac{W}{W_0} = \frac{\int_0^{\infty} I_{\infty}(\theta) k_{\nu} d\nu}{\int_0^{\infty} B_{\nu}(T_0) k_{\nu} d\nu}$$

where $I_{\infty}(\theta)$ is the emergent radiation at frequency ν and at an angle θ to the vertical, k_{ν} is the spectral transmission characteristic of the instrument measuring the radiation, $B_{\nu}(T_0)$ is the Planck function, and T_0 is the temperature of the radiating surface, assumed to be a black body. The function depends on content of water vapor and ozone in the atmosphere, the vertical temperature and moisture gradient, and the ray angle (measured against the vertical). The function was computed for different situations for different times of the year, and the results were plotted on maps. By using the function as determined for a single month, the deviation of computed temperature from actual surface temperature proved to be less than a degree (0.9°), whereas the use of an averaged function for the entire year gave a deviation of 2.0° . Testing of cloud height data was more difficult because of lack of information on actual heights, but maps drawn on the basis of temperature gradients determined as indicated, or by other means, show good agreement with weather maps and radiation maps. Data for determinations were obtained from Tiros II and Tiros III. Orig. art. has: 3 figures, 1 table, and 6 formulas.

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L 61734-65

ACCESSION NR: AT5017524

ASSOCIATION: Mirovoy meteorologicheskij tsentr (World Meteorological Center) /

SUBMITTED: 00

ENCL: 00

SUB CODE: ES, SV

NO REF SOV: 003

OTHER: 013

Card 3/3 *top*

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NN

DLC: Unclass.

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

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DLC: Unclass

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

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N.I., red.; RAKOV, S.I., tekhn.red.

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Bezop. truda v prom. 8 no.10:40-41 0 '64. (MIRA 17:11)

1. Nachal'nik laboratorii Makeyevskogo nauchno-issledovatel'skogo instituta po bezopasnosti truda v gornoy promyshlennosti (for Boldyrev).
2. Donetskiiy nauchno-issledovatel'skiy ugol'nyy institut (for Khimchenko).