

THE BEGINNING



#

105

~~DIVEYEVA, YE. B.~~
DIVEYEVA, YE. B.

DIVEEVA E. B.

Is opyta pedagogicheskoi raboty v Moskovskoi detskoi bol'nitse imeni Rusakova. (Pedagogic experience in Moscow children's hospital of the name of Rusakov) Fel'dsher & akush. No. 10 Oct 50 p. 51-4.

1. NAI

DIVEYEVA, Yu.A.

Studying the indicators of the oxidation of blood in vertebrates.
Dokl.AN Tadzh.SSR no.2:59-61 '52. (MIRA 9:9)

1.Kafedra biologii Stalinabadskogo meditsinskogo instituta i
Kafedra biokhimii Stalinabadskogo meditsinskogo instituta. Pred-
stavleno chlenom-korrespondentom AN Tadzhikskoy SSR N.F.Bereskinym.
(BLOOD--ANALYSIS AND CHEMISTRY)

DIVEYEVA-MOGILA, Yu. A.

USSR / Zooparasitology - Parasitic protozoa

G

Abs Jour: Ref Zhur - Biol., No 7, 1958, 29076

Author : ~~Diveeva Mogila, Yu. A.~~
Inst : Not given
Title : K voprosu biologii lyambliy.
Biology of Lamblia.

Orig Pub: Sb. tr. Kurskiy med. in-t, 1956, No 11, 371-374

Abstract: Microscopic examinations of samples of contents from all sections of the digestive tracts of 50 white and 17 house mice spontaneously infected by lambliasis showed that vegetative forms of lamblia are localized in the duodenum and the proximal section of the jejunum. Cysts are

Card 1/2

DIVEYEVA-NOGILA, Yu.A.

Epidemiological characteristics of opisthorchosis foci in the
Altai. Med. paraz. i paraz. bol. 32 no.6:711-714 N-D '63
(MIRA 18:1)

1. Iz kafedry obshchey biologii i parazitologii Altayskogo
meditsinskogo instituta (direktor - dotsent F.M. Kolomiytsev)
i Parazitologicheskogo otdela (zav. A.A. Shesterikova) kra-
yevoy sanitarno-epidemiologicheskoy stantsii.

DIVIC, Ljubica

Ribarsko ostrvo. Zbor gric Mat srp no.21.74-79 361.

YUGOSLAVIA

DIVLJANOVIC, Dj. [affiliation not given].

"Concerning a Particular Shipment of Horses Imported from Russia in 1837."

Belgrade, Veterinarski Glasnik, Vol 17, No 7, 1963, pp 637-639.

Abstract: The author relates the known history of the shipment of nearly 150 horses from Russia to Serbia in 1837-38, the first large shipment of horses after the liberation of the Principedom of Serbia from Ottoman overlordship, which had denied the use of horses to non-Moslems. Several of the horses died before reaching Belgrade and the princely guard in the spring of 1938.

Nine Yugoslav historical references.

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- 12 -

IANCU, A.; JAKOB, S.; DIVIN, M.; IANCU, A., Jr.; SURJANI, T.; VLADUTIJU, V.

The EEG in pediatric dystrophy. Cesk. pediat. 19 no.6:528-529
Je'64.

1. Detska klinika university v Kluzi (prednosta: prof. dr. A.
Iancu); Neurochirurgicka nemocnice v Kluzi (reditel: dr. S.Jakob).

IANCU, A., prof.; IACOB, St., dr.; IANCU, A.T., jr., dr.; DIVIN, M., dr.;
CHISU, A., dr.; RACASAN, A., dr.

EEG aspects of the hypoxia syndrome in children. *Pediatria*
(Bucur) 14 no.1:1-5 Ja-F'65.

1. Lucrare efectuata in Clinica de pediatrie nr. 1, Institutul
medico-farmaceutic, Cluj (Sef de sectie: prof. A. Iancu) si in
Clinica de neurochirurgie, Cluj (Sef de sectie: dr. St. Iacob).

DIVIN, V. A.

DIVIN, V. A. Velikii ruskii moreplavatel' A. I. Chirikov. Moskva, Geografigz, 1949. 113 p.
(Russkie puteshestvenniki) DLC: Unclass.

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

DIVIN, V. A.

USSR 600

Chirikov, Aleksei Il'ich, 1703-1748

Voyage of A. I. Chirikov to the shores of America on the packet 'St Paul'.
D.M. Lebedev. Reviewed by V. A. Divin. Priroda 41 no 4:125-128 Ap '52

9. Monthly List of Russian Accessions, Library of Congress, July 1957, Uncl.
2

DIVIN, V.A., kandidat istoricheskikh nauk.

[A. I. Chirikov, outstanding Russian navigator and scientist; on the 250th anniversary of his birth] A. I. Chirikov - vydaishohiisia russkii moreplavatel' i uchenyi (K 250-letiu so dnia rozhdeniia). Moskva, Izd-vo "Znanie," 1953.
31 p.

(Chirikov, Aleksei Il'Ich, 1703-1748)
(NLRA 6:12)

DIVIN, Vasilii Afanas'yevich; KUMKES, S.N., redaktor; NOGINA, N.I.,
tekhnicheskiiy redaktor

[To American shores; voyages and explorations of M.S.Gvozdev, the
discoverer of Northwest America] K beregam Ameriki; plavanii i
issledovaniia M.S.Gvozdeva, pervootkryvatelia Severno-Zapadnoi
Ameriki. Moskva, Gos.izd-vo geogr. lit-ry. 1956 46 p. (MLRA 9:7)
(Gvozdev, Mikhail Spiridonovich)
(America--Discovery and exploration)

DIVIN, V. A.,

"The Second Siberian-Pacific Expedition and Problems of Economic Development of the Soviet Far East" (From The History of the Struggle for the Economic Development of the North), Chronicles of the North; Yearbook of Historical Geography, History of Geographical Discoveries and Exploration of the North) v. 2, Moscow, Geografiz, 1957. 279 p. (Akademiya nauk SSSR. Kommissiya po problemam Severa).

Editorial Board: Andreyev, A. I., Belov, M. I., Burkhanov, V. F., Yefimov, A. V. (Resp. Ed.), Chernenko, M. B. (Deputy Resp. Ed.) and Shcherbakov, D. I.; Ed.: Vorontsova, A. I.; Tech. Ed.: Kosheleva, S. M.; Map. Ed.: Mal'chevskiy, G. N.

PURPOSE: The book is intended for readers interested in the Soviet Arctic.

COVERAGE: The present volume, the second of a series of three, is a collection of 27 articles by various authors presenting an historical account of the exploration and economic development of the Soviet North. A small part of the book is devoted to Arctic areas beyond the confines of the Soviet Union. The aim of the book is to contribute to an understanding of the physical geography, cartography, ethnography, and economy of the Soviet North through a historical survey of these factors. A large number of authors, explorers, scientists, travellers, pilots, navigators, etc., are cited.

DIVIN, V. A.

DIVIN, V.A.

Second Siberian-Pacific Expedition and aspects of the economic
mastery of the Far East. Ist. Sev. 2:157-175 '57. (MIRA 10:12)

1. Voenno-politicheskaya akademiya im. V.I. Lenina.
(Soviet Far East--History)

Diary, V.A.

DIVIN, V.A.

Midshipman Nikifor Poluboiarinov's diary of his trip in India
in 1763-1764 '57. Vop. 1st. est. i tekhn. no.3:204-205 '57.
(India--Description and travel) (MIRA 11:1)

GOLOVNIN, Vasilii Mikhailovich, vitse-admiral [1776-1831]; BOGOLEPOV, V.P., red.; DIVIN, V.A., red.; LAVRENTSOVA, T.D., red.; GRISHINA, L.I., red.; CHERNYKH, M.P., mladshiy red.; KOSHELEVA, S.M., tekhn. red.; GOLITSYN, A.V., red. kart;

[Voyage of the sloop "Diana" from Kronstadt to Kamchatka carried out under the command of naval lieutenant Golovnin in 1807-1811] Puteshestvie na shliupe "Diana" iz Kronshtadta v Kamchatku, sovshemoe pod nachal'stvom flota leitenanta Golovnina v 1807-1811 godakh. Moskva, Gos. izd-vo geogr. lit-ry, 1961. 479 p.

(MJRA 14:9)

(Golovnin, Vasilii Mikhailovich, 1776-1831)
(Voyages and travels)

DIVIN, V.A., polkovnik, kand.istoricheskikh nauk

History of the immortal deed of a great people ("History of the
civil war in the U.S.S.R." Reviewed by V.A.Divin. Mor. sbor. 44
no.2:90-96 F '61. (MIRA 14:4)

(Russia—Revolution, 1917-1921)

ДИВАН, ... исторический запас, канд. исторических наук

3 pages of the unfading glory of the Russian Navy. Mor. sbor. 47
no. 8:35-38 Ag '64. (MTRA 18:7)

GO. OVNIN, Vasilii Mikhailovich (1776-1831); DIVIN, V.A., otv. red.;
MARTVEYEVA, G.Ye., red.; KIR'YANOVA, Z.V., mlad. red.

[Captain of the Navy Golovnin's voyage around the world on
the sloop of war "Kamchatka" in 1817, 1818 and 1819] Pute-
shestvie vokrug sveta, sovershennoe na voennom shliupe
"Kamchatka" v 1817, 1818 i 1819 godakh flota kapitanom
Golovninym. Moskva, Mysl', 1965. 383 p. (MIRA 18:9)

NOVIKOV, S.A.; DIVNOV, I.I.; IVANOV, A.G.

Nature of the "impact zone" in iron and steel. Fiz. met. i
metalloved. 20 no.1:133-135 J1 '65.

(MIRA 18:11)

DIVINSKA, D.

Expert hangren. p. 113.

MOST. (Spolok slovenskych spisovatelov a umelcov) Cleveland Czechlovakia.
Vol. 2, no. 3, 1955.

Monthly List of East European Accessions (EEAI), LC, Vol. 9, No. 2, Feb. 1960.
Uncl.

SAL'MAN, Ye.M.; DIVINSKAYA, B.I.

Probability of radar determined precipitation. Trudy GGO
no.159:40-47 '64. (MIRA 18.12)

DIVINSKAYA, B.I.

Methods for determining the frequency of thunderstorms at a
point and on limited areas. Trudy GGO no.159:79-84 '64.
(MIRA 18:12)

L 58473-65 EWT(1)/FCC/EEG(L)

RB/GH

ACCESSION NR: AT5012360

UR/2531/65/000/173/0034/0052

12
11
BT/1

AUTHOR: Diyinskaya, E. Sh.

TITLE: The analysis of cloud and precipitation fields from radar observations

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 173, 1965. Voprosy radiometeorologii (Problems in radiometeorology), 34-52

TOPIC TAGS: radar cloud observation, storm cloud reflectivity, cloud dynamics, cloud spread, precipitation field analysis, meteorological radar, weather forecasting

12

ABSTRACT: The paper discusses data from meteorological radar observations, radar methods of observation and processing of data, the analysis of characteristics of radar signals from cloud and precipitation fields, and the characteristics of the fields of upper cloudiness limits and their use in forecasting. Tests confirmed the relationship between the geometric size of the radar cloud and precipitation echo fields and the type of weather. For otherwise equal synoptic conditions, the geometric size of a storm cloud radar pattern is up to twice as large as that of one from nonstorm clouds. In the case of storms, the dispersion of the upper radar-echo limits is considerably larger than from ordinary clouds.

Cord 1/2

L 58473-65

ACCESSION NR: AT5012360

Changes in the characteristics of the radar pattern precede changes in weather and can be used for the determination of tendencies during the development of cloud systems. Orig. art. has: 3 formulas, 8 figures, and 4 tables.

ASSOCIATION: Glavnaya geofizicheskaya observatoriya im. A. I. Voyeykova, Leningrad (Main Geophysical Observatory)

SUBMITTED: 00

ENCL: 00

SUB CODE: ES, DC

NO REF SOV: 015

OTHER: 000

llc
Card 2/2

L 12984-66 FSS-2/EWT(1)/FCC RB/GW/WR

ACC NR: AR6000799

SOURCE CODE: UR/0169/65/000/009/B017/B017

SOURCE: Ref. zh. Geofizika, Abs. 9B157

AUTHOR: ^{SS} Divinskaya, B. Sh.; ^{SS} Sal'man, Ye. M.

35
B

TITLE: Singularities in the patterns of radio echo signals from clouds and precipitation in various synoptic situations

^{24,55} CITED SOURCE: Tr. Gl. geofiz. observ., ^{SS} vyp. 159, 1964, 70-78

TOPIC TAGS: synoptic meteorology, radio echo, cloud cover, atmospheric precipitation, meteorologic radar, atmospheric front

TRANSLATION: An analysis of the singularities in the patterns of radio echo signals in zones of cloudiness and precipitation, and a comparison on these data with synoptic maps of the region where the radar station was located showed that intense fronts are located at the maximum distance of radar detection. Passage of these fronts through the radar region may be predicted several hours in advance.

SUB CODE: 04, 17

Card 1/1 HW

IND: 551 502 01

BARON, M.S., kand. med. nauk; DIVINSKAYA, S.L. (Kiyev)

A case of cysticercosis of the brain. Vrach. delo no.4:417-419
Ap '59 (MIRA 12:7)

i. Kiyevskaya psikhonevrologicheskaya bol'nitsa im. akad. Pavlova
(nauchnyy rukovoditel' raboty - prof. Ya.P. Frumkin).
(BRAIN--DISEASES) (TAPEWORMS)

SHAROV, M.A.; BURUNOV, V.Ye.; DIVINSKIY, A.A.; KHARCHENKO, N.P.;
CHERKASHIN, A.S.; CHULKOV, A.F.; KOSOROTOV, B.V., red.

[DT-75 tractor] Traktor DT-75. Moskva, Kolos, 1965. 258 p.
(MIRA 18:7)

ACC NR: AP6008122

UR/2531/64/000/159/0040/0047

AUTHOR: Sal'man, Ye. M. (Candidate of Physico-mathematical Sciences); Divinskaya, B.I.

CRG: none

TITLE: Probability of radar detection of precipitation ¹²⁴

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B+1

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 159, 1964
Voprosy radiometeorologii (Problems in radiometeorology), 40-47

TOPIC TAGS: ~~radar precipitation detection, radar thunderstorm detection, combined~~
~~radar range meteorologic radar, atmospheric precipitation, storm,~~
~~signal to noise ratio, probability~~

ABSTRACT: Problems of probability and reliability of precipitation detection by the use of high meteorological potential radars are discussed. The signal-to-noise ratio, (S/N), associated with radar observation of a precipitation event at a range R, was taken as the criterion of detection probability. The probability, p, that (S/N) ≥ 1 was considered as the probability of detection. For given precipitation types, e.g. cold front thunderstorms, given synoptic conditions, given equipments, etc, this probability will depend on range only, so that one may write

$$p[(S/N) \geq 1] = f(R) = p(R) \tag{1}$$

if under R is now understood the maximum range for which (S/N) is still exceeding 1.

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L 41714-00
ACC NR: AT6008122

Because of difficulties of theoretical computation of (1), due to an actual multiplicity of meteorological and equipment factors, some of them not readily assessable, a statistical approach to the problem was taken. At a high power radar station in the central European territory of the SSSR, systematic statistical observations of precipitation events were organized. Every 15 minutes between 9 A.M. and 9 P.M., a photo was made of the radar PPI scope depicting a 300 km radius area. These photographs were then compared with overlays containing actual event records registered by a network of 98 conventional meteorological stations. $p(R)$, the probability of detection, was defined as the ratio of radar (n), to network (m) registered events. Integral and differential probabilities of detection were derived and are presented in graphs. It is seen that, for example, thunderstorms dangerous to air traffic - those related to the passage of warm or occluded fronts - are certain to be detected at ranges up to 240 km. For cold front thunderstorms, 100% certainty of detection takes place up to 200 km., and for inter-air-mass (local) thunderstorms, - only to 160 km. A similar dependence can be discerned in the case of showers, where the certain detection ranges are considerably lower. The influence of vertical extension of the events can also be seen in the maximum of diurnal variation of average detection ranges, which occur for showers between 3 and 6 P.M., i.e during the growth period when showers attain their greatest height. Orig. art. has: 3 figures, 5 formulas and 4 tables.

SUB CODE: 04, 17

SUBM IATE: 00

ORIG REF: 001

OTH REF: 000

Card 2/2 *ULR*

L 26475-66 EWT(1)/FCC GW

ACC NR: AT6008127

UR/2531/64/000/159/0079/0084

AUTHOR: Divinskaya, B.I.

28
BT1

ORG: None

TITLE: On the methodology for the determination of thunderstorm frequency at a point and within limited areas

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 159, 1964. Voprosy radiometeorologii (Problems in radiometeorology), 79-84

TOPIC TAGS: meteorology, storm, meteorologic observation, statistic distribution

ABSTRACT: This paper is concerned with the determination of probabilities of thunderstorm occurrence in a day, or in n days in a given month, at one observation point, or within circular areas of a given radius. The analysis was developed on the basis of yearly statistical maps listing average observed numbers of days with thunderstorms per month. If the occurrences of thunderstorms during the summer are random events with a relatively small probability, then their distribution should be Poissonian. This hypothesis was tested on a 54 years series of meteorological observations in Leningrad and in an adjacent area of a 300 km radius. The test criterion was the approximate equality of the mathematical expectation and of the dispersion of the statistical series for June, July, and August; and for the whole season, in the area. The

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L 26475-66

ACC NR: AT6008127

test confirmed an approximate Poissonian distribution. Hence, the probability $p(x_i)$ of occurrence of x_i days in a given month is given by

$$p(x_i) = \frac{a^{x_i} \cdot e^{-a}}{x_i!} \quad (1) \text{ where } a = \bar{x} \text{ is the distribution parameter.}$$

Plots of theoretically expected and actually observed number of days in a month with thunderstorms were drawn. Comparison confirmed the validity of the approach. The analysis was then extended to include the probabilities of occurrence of at least one thunderstorm in a day, over areas enclosed by various radii, from 20 km (which was found to be the limit of observation by a conventional meteorological station) to 300 km. Probability curves are presented in tables and figures, as a function of the area radius. This information is given for three summer months, for Leningrad, Kalinin and for the First Volga district. For example, within an area of a 250 km radius, the probability of at least one thunderstorm a day at Kalinin in August is 70%; at Leningrad, it is 50%. In the Volga district, in July, this probability is much higher, 80% for only a 175 km radius area. Orig. art. has 3 figures, 7 formulas and 4 tables.

SUB CODE: 04,12/ SUBM DATE: None/ ORIG REF: 003

Card 2/2

PB

L 26466-66 EWT(1)/FCC/FSS-2 GW/WR

ACC NR: AT6008126

UR/2531/64/000/159/0070/0078

AUTHOR: Divinskaya, B.Sh.; Sal'man, Ye.M. (Candidate of Physico-mathematical Sciences)

33
BTI

ORG: None

TITLE: Characteristics of radar echo patterns of clouds²⁴ and precipitation in various synoptic situations

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 159, 1964. Voprosy radiometeorologii (Problems in radiometeorology), 70-78

TOPIC TAGS: meteorologic radar, weather forecasting, atmospheric precipitation, synoptic meteorology, radar picture

ABSTRACT: Relations between synoptic weather situations and radar echo patterns in vertical and horizontal planes are studied. The objective nature of radar information and its instantaneous receipt are of great interest in weather forecasting. Radar observations of cloudiness and precipitation zones were conducted in the summer of 1962. Horizontal pictures were obtained on the IKO indicator (= PPI radar scope) with full scale ranges of 300 and 100 km every 15 minutes. Height/range radar echo pictures were obtained on the IDV indicator (= E radar scope) in full scale ranges of 5/10, 10/20 and 20/40 km, every hour. The E-scope cross sections were, as a rule, made in the directions along and perpendicular to the leading flow, and also perpendicular

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L 26466-66

ACC NR: AT6008126

to the approaching fronts. Typical photographs (such as shown here in Figs. 1 and 2) are presented. Altogether, 5000 PPI and 2000 E-scope photographs were obtained, co-

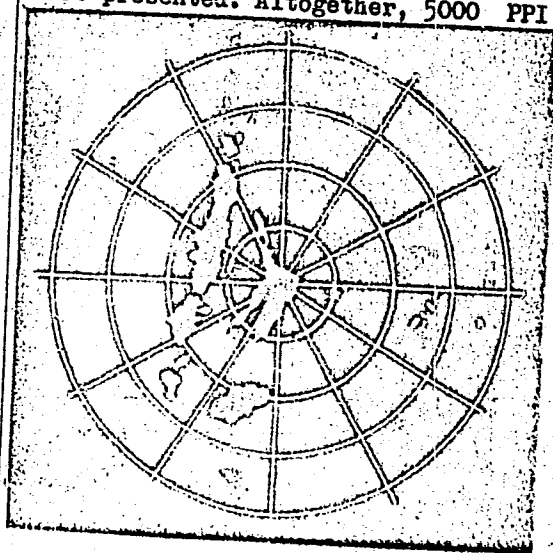


Fig. 1. Cold front clouds and precipitation picture, PPI scope.



Fig. 2. Warm front clouds and precipitation picture, PPI scope.

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ACC NR: AT6008126

vering 27 intermass days, 14 cold front days, 10 warm front days and 7 occluded front days of cloudiness and precipitation. The obtained pictures are discussed in detail, for the above four synoptic classes. It is concluded that the specifics of radar echo pictures of clouds and precipitation are closely related to the condition of their development and to their synoptic class. The relation:

$$t = S/v \quad (1)$$

where S - frontal distance at detection time, v - velocity of front approach, and t - the warning or prediction time interval, - is substantiated. The radar pictures can be used for synoptic analysis at limit ranges with a 100% certainty of the detection of cloudiness and precipitation zones related to a given synoptic situation. Prognosis of sharp weather changes can be made precise and can carry a reliable warning of several hours. Orig. art. has: 7 figures, 1 formula.

SUB CODE: 04, 17/

SUBM DATE: None/

ORIG REF: 002 /

Card 3/3

PB

ACC NR: AP6025989

SOURCE CODE: UR/0079/66/036/007/1244/1246

AUTHOR: Divinskaya, L. P.; Limanov, V. Ye.; Skvortsova, Ye. K.;
Putyatina, G. M.; Starkov, A. V.; Grinshteyn, N. I.; *Nifant'yev, E. Ye.*

ORG: Central Scientific Research Disinfectant Institute (Tsentral'nyy
nauchno-issledovatel'skiy dezinfektsionnyy institut)

TITLE: Search for bactericidal preparations among organophosphorus
compounds

SOURCE: Zhurnal obshchey khimii, v. 36, no. 7, 1966, 1244-1246

TOPIC TAGS: bactericide, ^{organic} ~~organophosphorus~~ compound, organophosphonum
chloride, alkylaminophosphonate chloride

ABSTRACT:

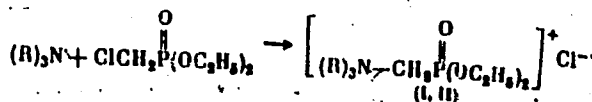
In a search for new bactericides, eight new ~~organophosphorus~~ ^{organic} compounds were
synthesized and their bactericidal properties studied. The reaction of

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UDC: 547.271

ACC NR: AP6025989

diethyl chloromethylphosphonate with tertiary amines at 120—150° yielded diethyl dimethylaminomethylphosphonate ethochloride (I), mp 179°C, and diethyl dimethylaminomethylphosphonate ethochloride (II), mp 178°C:



At 130°, decyl chloride reacts with phosphorous hexaethyltriamide to form phosphonium salt III, mp 217°C (see table). Compounds IV and V were obtained under similar conditions. At 160° in nitrogen atmosphere, tri-(hydroxymethyl)phosphine reacts with cetylphosphonium bromide or octadecyl phosphonium bromide to form the corresponding bromides (VI). The reaction of tri(hydroxymethyl)phosphine with decyl chloride at 180°C gave VII and with octadecyl chloride under similar conditions yielded VIII. Composition and bactericidal activity of the new compounds are shown in the table.

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ACC NR: AP6025989

Table 1. Antibacterial activities of tertiary salts

No.	Compound	Toward e. coli	Toward staph. aureus
I	$[(C_2H_5)_3N-CH_2PO(OC_2H_5)_2]Cl$	0.5% 20 min.	0.5% 15 min.
II	$[(C_2H_5)_3N-CH_2PO(OC_2H_5)_2]Cl$	0.5% 30 min.	0.25% 20 min.
III	$[(C_2H_5)_2N_2PC_{10}H_{21}]Cl$	1% not active	1% not active
IV	$[(C_2H_5)_2N_2PR]Br$	1% not active	1% not active
V	$[(C_2H_5)_2N_2PR]Br$	1% not active	1% not active
VI	$[(HOCH_2)_2PR]Br$	1% not active	1% not active
VII	$[(HOCH_2)_2PC_{10}H_{21}]Cl$	1% not active	1% 20 min.
VIII	$[(HOCH_2)_2PR]Cl$	1% 45 min.	1% 45 min.
IX	$[(HOCH_2)_2R]Cl$	1% 30 min.	1% not active.

* R is a mixture of $C_{10}H_{23}$, $C_{17}H_{35}$, $C_{18}H_{37}$.

Orig. art. has: 1 table.

[W.A. 50; CBE No. 10]

SUB CODE: 0706/SUBM DATE: 29May65/ ORIG REF: 005/ OTH REF: C01

Card 3/3

PROCESSES AND PROPERTIES INDEX

Preparation of pure urea. A. Divinski and V. Rozhevich. *Khim. Farm. Prom.* 1944, No. 2, 201. CaCN₂ is decompl. with H₂SO₄, the CaSO₄ filtered off, the filtrate treated with air, the Fe(OH)₃ filtered off, the filtrate acidified with H₂SO₄ and hydrolyzed at 50-5°. Excess acid is removed with chalk and the soln. evapd. to dryness. Tech. urea is purified by extrn. with acetone in a Soxhlet app. Leo Nasarevich

ASB-21A METALLURGICAL LITERATURE CLASSIFICATION

ASB-21A METALLURGICAL LITERATURE CLASSIFICATION

A.F. DIVINSKI

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10

3-Amino-4-hydroxybenzoic acid. A. A. Kuznetsov and A. F. Divinski. *Org. Chem. Ind. (U.S.S.R.)* 1, 92 (1957). The purification of 3-amino-4-hydroxybenzoic acid (I), suitable for the production of mivarsan and control, is based on the insol. of its HCl and Na salts and the soly. of the contaminating oxidation products in concd. NaCl soln. The method was successfully applied to the prepn. of I from 3,4-O,NiH₂C₆H₃Ac₂H₂ (II) by reduction with alk. glucose by the method of Fréres and Meyer (Ger. pat. 455,050), and with FeCl₂ in NaOH soln. (cf. Johnson and Adams, *C. A.* 17, 2274). To 261 g. (1 mol.) II with 700 g. (17.5 mols.) NaOH in 1 l. H₂O is gradually added, with stirring, about 840 g. (5.6 mols.) FeCl₂ in 2 parts of H₂O until a drop of the soln. on filter paper becomes colored, and the Fe(OH)₃ is filtered off. The following procedures of purification of I are used in the 2 methods of reduction. The filtrate after neutralization with HCl to litmus paper is treated with 100 cc. of 80% AcOH, the ppt. is filtered off with suction and washed with H₂O, giving 70-80% I. This is dissolved in 80 cc. HCl dild. with 450 cc. H₂O, the soln. is boiled with C for 5 min., the filtrate is treated with 100 g. NaCl, the HCl is filtered off, recrystd. from hot H₂O and decompd. with Na₂CO₃ and NaOAc. Crude I, obtained by reduction of II with alk. glucose, is more easily freed from the resinous matter by recrystn. of its Na salt. I (170 g.) dissolved in 10% Na₂CO₃ is pptd. with 80 g. NaCl and the Na salt of I is decompd. with AcOH.

Chas. Blane

AS-55-A METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

17

CA

Acetylsulfanylguanidine. A. F. Divinskii and R. I. Vorob'eva. U.S.S.R. 64,480, April 30, 1945. Acetylsulfanyli chloride is condensed with guanidine salts in a pyridine base as solvent. The product, purified by recrystall. from water, has therapeutic properties. M. Hosh

All-Union Chemical-Pharmaceutical Inst.

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

RECOMMENDATION

RECOMMENDATION

DIKOVSKIY, A. F.

67T24

USSR/Chemistry - Esters, Sulfur Compounds May 1948
of
Chemistry - Alkyl Group

"Research on the Reaction of Phosphorous Thio Esters With Haloid Alkyls and Acyls," A.F. Divinsky, M.I. Kabachnik, V.V. Sidorov, 4 pp

"Dokl. Akad. Nauk SSSR, Nov Ser" Vol IX, No 6

Tabulates results of experiments. Data obtained established that it is entirely possible to carry out the reaction of thio esters with acids of trivalent phosphors with haloid alkyls and acyls. This reaction can be traced by means of Arbusov's

USSR/Chemistry - Esters, Sulfur Compounds May 1948
of (Contd) 67T24

theory of regrouping, and by the method of observing the atom of bivalent sulfur. Submitted by Academician A.N. Nesmeyanov 18 Mar 1948.

67T24

KOMKOV, Y.P.; DIVINSKIY, A.F.; LOGINOVA, O.A.

Production of glutamic acid from natural substances. Izv.vys.uceb.
sav.; pishch.tekh. no.1:56-62 '59. (MIRA 12:6)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy promysh-
lennosti, kafedra organicheskoy khimii.
(Glutamic acid)

KOMKOV, I.P.; DIVINSKIY, A.F.

Synthesis of glutamic acid. Izv.vys.ucheb.zav.; pishch.tekh.
no.3:39-47 '59. (MIRA 12:12)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy
promyshlennosti. Kafedra organicheskoy khimii.
(Glutamic acid)

KOMKOV, I.P.; DIVINSKIY, A.F.

New emulsifier for making chalk paper. Bum. prom. 36 no.9:35
S '61. (MIRA 15:1)

1. Moskovskiy tekhnologicheskoy institut myasnoy i molochnoy
promyshlennosti.

(Papermaking machinery)

S/153/62/005/006/008/015
E021/E306

AUTHORS: Komkov, I.P., Divinskiy, A.F., Petrova, O.A. and Belen'kiy, M.A.

TITLE: Elimination of pitting in bright nickel-plating electrolytes

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Khimiya i khimicheskaya tekhnologiya, v. 5, no. 6, 1962, 951 - 953

TEXT: An attempt was made to eliminate pitting during bright nickel-plating by additions of surface-active materials to the electrolyte. Twelve phosphoro-organic compounds were prepared by the interaction of various alcohols with phosphorous pentoxide. Similar sulphur-organic compounds were also prepared by the interaction of secondary higher aliphatic alcohols with sulfuric acid. Sodium salts of the compounds were made and tested as additives to the electrolyte. It was shown that the sodium salts of mono- and di-heptyl esters of phosphoric acid prevented pitting only in a short interval of concentration of the order of 0.015 g/l. Pitting occurred if the concentration was increased. Additions of
Card 1/2

Elimination of pitting

S/153/62/005/006/008/015
E021/E306

secondary alkyl sulfates of sodium prevented the occurrence of pitting. The surface tension of the bright nickel electrolyte, consisting of nickel sulfate 250-300, sodium chloride 10-15, boric acid 35, coumarine 1 and paratoluene sulfamide 2 g/l., was 70 dynes/cm. Addition of 0.1 g/l. sodium alkylsulfates decreased the surface tension to 30 dynes/cm. Addition of sodium alkylsulfates made possible the production of bright nickel coatings not requiring polishing and without pitting. It was recommended that a daily correction to the electrolyte of 0.1 ml./l. anti-pitting agent should be used to maintain stable working of the bath.

ASSOCIATION:

Kafedra organicheskoy khimii, Moskovskiy
tehnologicheskiiy institut myasnoy i molochnoy
promyshlennosti i tsentral'nyy nauchno-issle-
dovatel'skiy institut vspomogatel'nykh i
zapasnykh detaley k tekstil'nomu oborudovaniyu
(Department of Organic Chemistry, Moscow Technological
Institute of the Meat and Milk Industry and Central
Scientific Research Institute of Accessories and Spare
Parts for Textile Equipment)

SUBMITTED: July 3, 1961
Card 2/2

KOMKOV, I.P., prof.; RYBALTOVSKIY, O.V., dotsent; DIVINSKIY, A.F., kand.
khim. nauk; CHERNOVA, L.V., laborantka; KHATIN, M.G., prof.;
SHUSTOV, Yu.P.

Preparation D-33 as an activating agent for chlorophos.
Veterinariia 41 no.2:58-59 F '64. (MIRA 17:12)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy promyshlennosti (for Komkov, Rybaltovskiy, Divinskiy, Chernova).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy sanitarii (for Khatin).
3. Glavnyy veterinarnyy vrach sovkhoza "Iskra" Moskovskoy oblasti (for Shustov).

ZIKMUND, J.; DIVIS, J.

Mucoproteins in inflammations of the uterine adnexa. Cesk.
gynek. 29 no.3:196-198 Ap'64

1. II. gyn.-por.klin.fak.vseob.lek. KU v Praze; prednosta:
prof.dr. J.Lukas, DrSc.

*

BUDINSKA, B.; DIVIS, J., TRNKA, V.

On the problem of disability in inflammations of the uterine
adnexa. Cesk. gynek. 29 no.3:226-227 Ap'64.

I. I.gyn.-por. klin.fak.vseob.lek. KU v Praze (prednosta: prof.
dr. K.Klaus, DrSc.) a II. gyn.-por. klin.fak. vseob. lek. KU
v Praze (Prednosta: prof.dr. J.Lukas, DrSc.).

*

DIVINSKI~~Y~~, A. V.

The General Electrotechnical repairs. The annotation book of an
electrotechnician. Compsed by V. D. Nickellurg and A. V. Divinskii.
(Glavelektroprommontazh.) 111p.

Publisher: State Printing House of the Machine Construction Literature

City: Moscow

Date: 1950

Available: Library of Congress

Source: Monthly List of Russian Accessions, V. 3, No. 12, page 839

KOMKOV, I.P.; DIVINSKIY, A.V.

Glutamic acid, its properties and use. Izv.vys.ucheb.zav.; pishch.
tekh. no.5:20-28 '59. (MIRA 13:4)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy
promyshlennosti, kafedra organicheskoy khimii.
(Glutamic acid)

DIVINSKIY, J., inz.

Self-closing tongs for handling porous concrete panel blocks
made in low molds. Stavivo 41 no.5:158-159 My '63

1. Strojstav, n.p., Bratislava.

AUTHORS: Consultants: Butkevich, K. S., Engineer, SOV/67-59-3-24/27
Brodyanskiy, V. M., Candidate of Technical Sciences,
Divinskiy, T. Z., Engineer

TITLE: Answers to the Readers (Otvety chitatelyam)

PERIODICAL: Kislorod, 1959, Nr 3, p 53 (USSR)

ABSTRACT: Comrade Astaf'yev from Stalino, Donbass, asked the following questions: 1) Is it possible to replace the bronze bushes of the cylinders of the I and the II stage of the oxygen compressor 2RK-1.5/220 by bushes of stainless steel? Answer: yes, by bushes of stainless steel of the type 1Kh18N9T. 2) Which kind of bronze must be used for the production of the above mentioned bushes and how can the load stability of the bronze bush be increased? Answer: stability may be increased by chromium plating. In this case the type of the bronze is not important, also lithium-silicon-nickel of the type KL80-3L may be used. (K. S. Butkevich gave the answers).
Comrade Sandrov from the Katav-Ivanovsk, Chelyabinsk Oblast', asked the questions: 1) Is it possible to apply a filter with a back-pressure valve to a tube which conducts the oxygen

Card 1/3

Answers to the Readers

SOV/67-59-3-24/27

which has penetrated through the stuffing box of the pump for liquid oxygen into the condenser? Yes, this arrangement would be very useful, only the valve must be applied behind the filter in order to prevent its pollution. 2) Must a unit of apparatus be inspected by the Gosgortekhnadzor after a carried out modification? Answer: no, this is not necessary. (V. M. Brodyanskiy gave the answers).

Comrade Reznikov asked the question: May the supply of an enterprise with liquid oxygen be organized with a monthly consumption of 30,000 normal-m³ of gaseous oxygen? Which device may be used for the transportation and the gasification of liquid oxygen and where may the plan for a gasification plant be obtained? Answer: works with so-called oxygen consumption may be supplied with liquid oxygen by means of automobile tanks of the type ST-1300 with a volume of 1300 l, which is sufficient to cover the 24 hours' demand, daily from a near oxygen plant. The apparatus of the type UGZhK-1 which was worked out by the Giprokislorod is recommended for the oxygen gasification for industrial purposes. More accurate data on this plant are given. The plan of this apparatus will be available in the Central Institute of Type Planning

Card 2/3

Answers to the Readers

SOV/67-59-3-24/27

(in Moscow, Spartakovskaya 2) at the beginning of the second half of every year.

Card 3/3

L 3740-65 EPA(a)-2/EWT(m)/EPF(n)-2/EWA(d)/EPR/EWP(t)/EWP(b) Pa-4/Pt-10/Pu-4
LJP(c) 130/JD/AM/JG

4C

ACCESSION NO: AP4049500

S/0128/64/000/011/0037/0039

48
B

AUTHOR: Benderskiy, L. S. (Engineer); By*atrov, A. M.; Vasil'yev, N. V.;
Gorelikov, V. D.; Fom'kov, V. M.; Divinskiy, Yu. L.; Yermolayev, V. A. (Engineer);
Kosyakov, V. M.; Fedotov, V. V. (Engineer)

TITLE: Obtaining high-grade castings from magnesium alloys by filtering the
liquid metal

SOURCE: Liteynoye proizvodstvo, no. 11, 1964, 37-39

TOPIC TAGS: magnesium alloy, magnesium base alloy, foundry technology, alloy cast-
ing, metal filtration

ABSTRACT: A method of obtaining high-grade castings from magnesium alloys by
filtering the liquid metal was investigated. The effectiveness of filtering liquid
alloy ML5 and the effect of filtration on the chemical composition, mechanical
properties and structure of the alloy were determined. The investigations showed
that there are no flux and slag inclusions in the fractures. The author concludes
that defects from flux and slag inclusions are reduced by a factor of 12-15, and
final flow is reduced by a factor of 7-8. The optimum ratio between the total area
of grid openings and the total area of the cross section of the risers should be no
less than 5:1. The recommended height of the filter is 60-80mm. Orig. art. has: 7
Card 1/2 figures and 1 table.

VASIL'YEV, N.V.; DIVINSKIY, Yu.L.; KNAKHOVSKIY, A.A.; FADEYEV, N.P.

Overall mechanized unit for the production of fluv. Biul.tekh.-
ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform 17 no.11:31-
32 N '64. (MIRA 18:3)

VASIL'YEV, N.V., inzh.; DIVINSKIY, Yu.L., inzh.; KNAKHOVSKIY, A.A., inzh.;
FADEYEV, N.P., inzh.

Equipment for the preparation of flux. Lit. proizv. no.11:
19-20 N '65. (MIRA 18;12)

Davis, C.I.

VDetermination of traces of naphthalene in city gas.
C. I. Davis, *Paliss* 37, 108-71(1952).—Two methods are outlined for the detn. In the older titrimetric method naphthalene is combined with picric acid and the complex is titrated with 0.1N NaOH. In the newer colorimetric method the intensity of the color complex of naphthalene with picric acid is measured either on a Hilger spectrophotometer with 608 red Ilford filter or in a comparator box matching the color of an unknown sample against a known color couen. J. Lederer

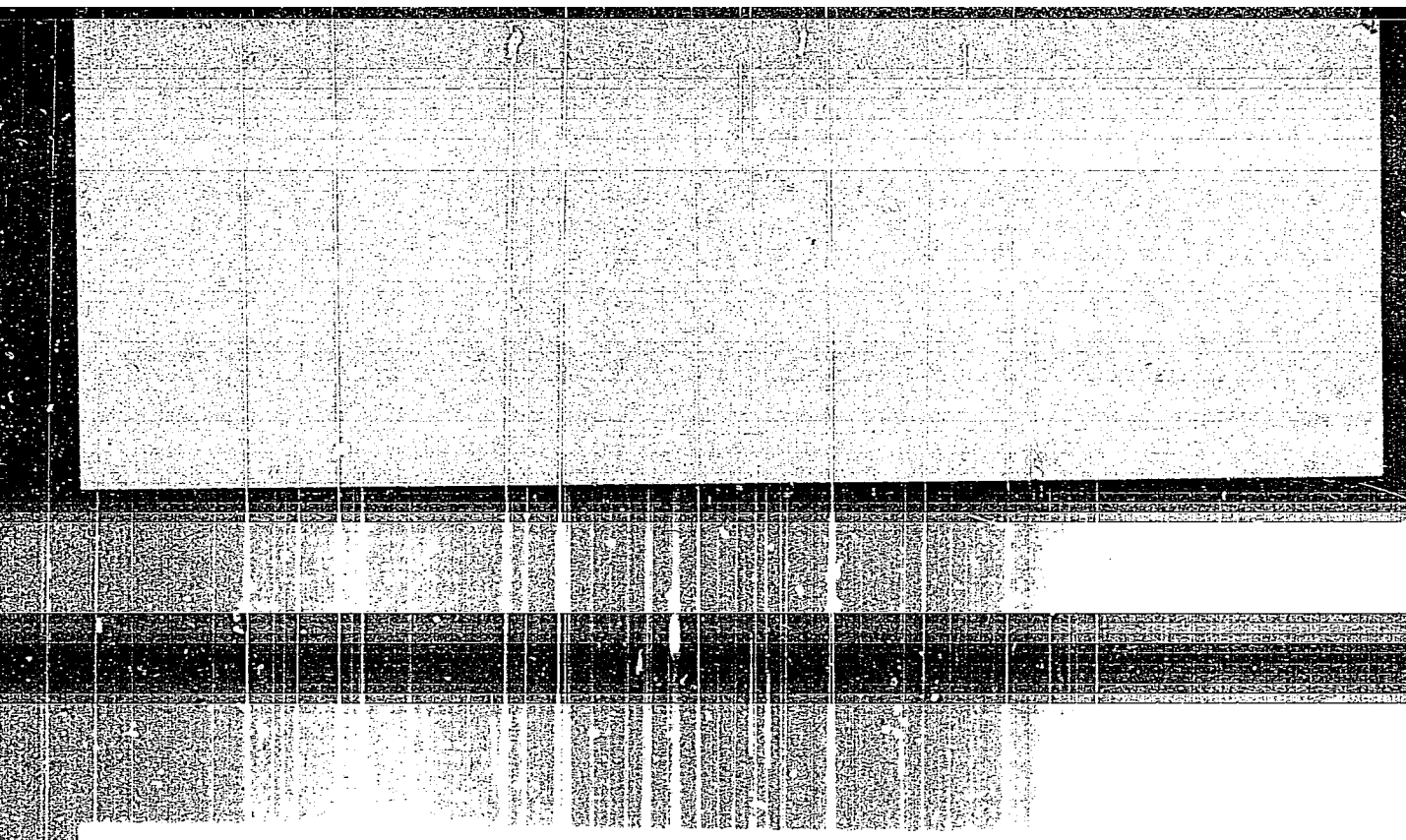
Excretion of nitrogen in feces. J. Pechár, B. Diviš,
Z. Piáček, J. Hájek, and B. Kozlovská (Ústav pro výzkum
v lékařské fyzice, Prague). *Sborník patofyziol. ústavu a ústavu*
3, 37-43 (1951).--Examn. of 7000 persons (healthy and ill)
revealed that excretion of N in feces is not const. even on a
standard diet and its amt. does not depend on the N con-
tent in food. J. J. Urbánek

DIVIS, Frantisek

Fledge of the socialist work brigades in the meat industry.
Prům potravin 13 no.5:276 My '62.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410510001-9



APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410510001-9"

Divis, J. ...

4727. DETERMINATION OF HYDROCYANIC ACID IN ALLACRINATIN GAS. Divis, L. (Palliva (Fuel, Fraguos), 1954, vol. 34, 276-281; from abstr. in Chem. Abstr., 1955, vol. 49, 9258). Four methods are described, which depend on absorption of the acid in alkaline ferrous sulphate solution; a mixture of sodium and nickel carbonates; alkaline bromine solution; and sodium hydrosulfide solution, respectively. The last method, which is calorimetric, is claimed to be the most accurate. (L.)

U

MIT

DIVIS, I,

1958. PARAMETERS FOR TUBULAR COOLERS (FOR THERM GAS). Divis, I.
F. J. Paliva (Sci., Technol., Feb. 1956, vol. 30, 44-50). (L).

DIVIS, J.

Research on irrigation in Czechoslovakia. p. 160.

Vol. 4, no. 5, May 1954
VODNI HOSPODARSTVI
Praha, Czechoslovakia

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

DIVIS, J.

DIVIS, J. Research on land reclamation in Austria. p. 276

Vol. 35, no. 10, Oct. 1956

VODNI HOSPODARSTVI

TECHNOLOGY

Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

DIVIS, J.

Assessment of water losses in irrigation canals. p.119.
(Vodni Hospodarstvi, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

DIVIS, J.

Irrrometer, an instrument for measuring soil moisture. p. 421.

VODNI HOSPODARSTVI. (Ministerstvo energetiky a vodního hospodarství a
Vedecká technická společnost pro vodní hospodarství) Praha, Czechoslovakia.
No. 10, Oct. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11,
November 1959.

Uncl.

DIVIS, J.

Our experiences with irrigation in Roudnice. p. 507.

VODNÍ HOSPODARSTVI. (Ministerstvo energetiky a vodního hospodářství a
Vedecká technická společnost pro vodní hospodářství) Praha, Czechoslovakia,
No. 11. Nov. 1959

Monthly List of East European Accession (EEAI), LC Vol. 9, no. 2,
Feb. 1960.

Uncl.

DIVIS, J.

Irrigation installations in the German Democratic Republic. p. 544.

VODNÍ HOSPODÁŘSTVÍ. (Ministerstvo energetiky a vodního hospodářství a
Vědecká technická společnost pro vodní hospodářství) Praha, Czechoslovakia,
No. 12, Dec. 1959.

Monthly List of East European Accession (EEAI), LC Vol. 9, no. 2,
Feb. 1960

Uncl.

DIVIS, Jiri, inz. dr.

Irrigation systems with pressure piping in Italy. Vodni hosp
13 no.8:3 of cover. '63.

DIVIS, J.

Prof. MUDr Jiri Scheiner. Gastroenterologia bohema 4 no.5-6:233-237
Dec 50. (CLML 20:6)

DIVIS, J.
181

Neurol. Klin., Karlovy Univ. a II chir. Klinika, Praha. Dalsi klinicke zkusenosti s lecbou myotonii myasthenisaci New experimentns in the clinical treatment of myotonia by myasthenization Cas. Lek. ces. 1951, 90/1 (22-28) Graphs 10 Tables 1

Myasthenic thymus was implanted in 10 cases of myotonia (7 cases of Thomsen's disease and 3 cases of dystrophic myotonia). Myasthenic serum was used in 5 cases of myotonia for treatment. The improvement after implantation of thymus was striking in 4, slight in 4, and nil in 2 cases. Jirout - Prague

SO: EXCERPTA MEDICA, Vol. 5, No. 1, Sec. VIII, Jan. 1952

DIVIS, J.

90th anniversary of the Spolek ceskych lekaru. Ces. lek. cesk.
90 no.50: 1495-1496 14 Dec. 1951 (GLML 21:3)

DIVIS, J.;KVEFON, J.

Application of folsin in labor. Cesk. gyn. 17 no.9-10:493-499 1952.

(CJML 23:4)

1. Of the Second Obstetric-Gynecological Clinic (Head--Prof. J. Inkas,
M. D.) of Charles University in Prague.

DIVIS, J., Akademik

Prof. dr Herman Sikl. Cesk.gastroenter. 9 no.1:80 Mar 55.
(OBITUARIES,
Sikl, Herman)

DIVIS, Jiri, Akademik

Akademik Jan Bedrna. Cas. lek. cesk. 95 no.42:1158-1159
19 Oct 56.

(OBITUARIES
Bedrna, Jan (Cz))

DIVIS, Jiri, Dr.

Vicarious **bleeding** from the rectum in primary amenorrhea.
Cesk. gyn. 2I no.4:273-275 June 56.

1. Z por. gyn. oddeleni cs. nemocnice v Condzinu, Severni Korea.
(AMENORRHEA, complications,
rectal hemorrh. & genital hypoplasia (Cz))
(RECTUM, hemorrhage,
in amenorrhea with genital hypoplasia (Cz))
(GENITALIA, FEMALE, abnormalities,
hypoplasia with amenorrhea & rectal hemorrh. (Cz))
(ABNORMALITIES,
hypoplasia of female genitalia, with amenorrhea &
rectal hemorrh. (Cz))

Divis, J.

T-5

CZECHOSLOVAKIA/General Problems of Pathology - Tumors.

Abs Jour : Ref Zhur - Biol., No 3, 1958, 12811

Author : Divis, J., Zak, F.

Inst : Not given

Title : Fibrous Leiomyoma of the Lung in a Child.

Orig Pub : Rozhl. chirurg., 1956, 35, No 9, 531-537

Abstract : No abstract.

Card 1/1

DIVIS, Jiri, Akademik

Academician Arnold Jirasek & the International Surgical Society.
Rozhl. chir. 36 no.7:429-431 July 57.

(BIOGRAPHEES

Jirasek, Arnold (Cz))

(SURGERY

contribution of Arnold Jirasek (Cz))

DIVIS, Jiri, Dr. (Praha 15, Prochaskova 12.)

Case report on the treatment of cervical tuberculosis. Cesk. gyn.
23 [37] no.3:229-231 Apr 58.

1. Gyn. por. oddeleni cs. nemocnice G. K. v Gonszinu, Korea.
(TUBERCULOSIS, FEMALE GENITAL, ther.
isoniazid. PAS & Streptomycin in cervical tuberc., case
report (Cz))

TRNEKA, Vaclav; DIVIS, Jiri; PANTOVA, Bozena

Applications of Lesnoi's classification of disability evaluation
in gynecological inflammations. Cesk.gyn.25[39] no.8:581-585 0'60.

1. Katedra gyn.por.fak. vseobecneho lek. KU, Praha.
(GYNECOLOGY)
(DISABILITY EVALUATION)

DIVIS, K.

"Methods for insulating dynamo plates in electric machinery." Elektrotechnik, Praha, Vol. 9, No. 2, Feb. 1954, p. 45.

SO: Eastern European Accessions list, Vol. 3, No. 11, Nov. 1954, L.C.

DIVIS, Karel, inz.

Use of the Ascania Gy 5 microbarometer for gravimetric measurements.
Good kart obzor 10 no.11:273-278 N '64.

1. Institute of Geodesy and Topography, Prague.

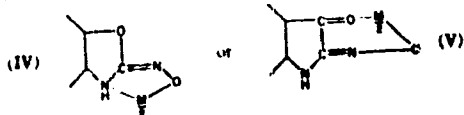
CA

metal salts of 2-oxazolone. V. Hlavinka and L. Jivik (Tech. Univ., Prague). *Collection Czechoslov. Chem. Commun.* 14, 116-20(1949)(in English).—A new analytical reagent, 2-oxazolone $C_3H_3NO_2$, $CO_2C(NO_2)NH$ (I)

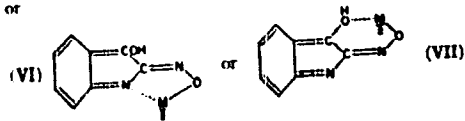
contg. 2 acid groups ($-NO_2H$ and $-NH$) permits the formation of 3 groups of colored metallic salts: (1) those showing normal valence bonds in which I acts as a dibasic acid



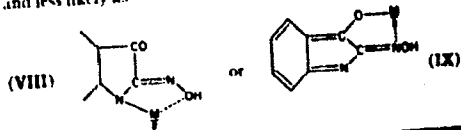
(2) salts of inner complex salt character where I acts as a monobasic acid, the $-NO_2H$ is the acid group, and the salts are formulated as



or



and less likely as



where the $-NH$ is taken as the acid group; and (3) acid salts contg. a greater no. of mols. of I per metal atom

than those of (2). Hg^{++} , Cu , and UO_2 salts are pptd. from an acid medium; Pb , Ag , Zn , and Ba salts are formed in a 10% $NaOAc$ buffered soln.; and Th , Cd , Pb , Ni , and Co salts are pptd. in an ammoniacal or alk. soln. when in each case a 0.1% aq. or 1% alc. soln. of I is added to a 5% soln. of the metal nitrate (Cl^- , SO_4^{--} , $C_2H_3O_2^-$, or ClO_4^-). The salts of Ag , Hg^{++} , Pb^{++} , Cd , Tl^+ , UO_2 , and Ba were analyzed and formulas corresponding to those of group (1) have been assigned to the derivs. of Pb , Hg , Cd , and Ag (violet), to those of group (2) to the orange-red of Tl , UO_2 , and Ba , and to group (3) to the orange-red Ag salt. The Cu , Co , and Ni salts of I in excess NH_4OH give characteristic colored solns. The Hg^{++} , Cu^{++} , and Co^{++} salts of I have been found useful in qual. analysis, while that of Pb^{++} is advantageous in gravimetric analysis.
Helen L. Whiddeu

CA

Gravimetric estimation of lead by means of α -isatin oxime. V. Hovorka and L. Diviš (Tech. Univ., Prague). *Collection Czechoslov. Chem. Commun.* 14, 473-80 (1949) (in English); cf. *C.A.* 44, 2416d. The prepn. of α -isatin oxime is described of which a 0.1% aq. soln. is used as reagent. To a soln. contg. 0.005-0.50 g. of Pb^{2+} add reagent equiv. to 1.5 times the wt. of Pb. Heat till a brown turbidity changes to a red color. Boil and add NH_4OH dropwise to prevent a turbidity forming and then 10 ml. of 0.75 *N* NH_4OH in excess. After 2 hrs. filter off the blue ppt. in a glass filtering crucible and wash with cold water, dry with $EtOH$ and Et_2O , then at 105-110° and weigh as $PbC_8H_6O_5N_2$. The ppt. is sol. in mineral acids and bases and tartrates or citrate solns. About 1.5 $\mu g.$ ppt. dissolves in one l. of water. K. G. Stone

CA

7

Microchemical detection of nitrites and nitrates. V. Hovorka and L. Diviš (Tech. Univ., Prague). *Collection Czechoslov. Chem. Commun.* 14, 495-502(1949)(in English).—The test for NO_2^- is based on the blue color formed when $\text{NO}_2^- + \text{NO}$ react with diphenylamine (I), benzidine acetate (II), or starch-KI paper (III). In a microcrucible, place 1 drop sample and 1 drop 5% HOAc; cover with a watchglass with the reagent on the underside. I is the most sensitive and has a concn. limit of $1:5 \times 10^4$. Thiosulfate interferes badly and anions which form insol. Ag salts should be removed as such. NO_2^- is detected by reducing with Zn + H_2SO_4 to NO and testing for this. Pptn. of interfering agents as Ag salts is not applicable, but NO_2^- may be removed with NaN_3 . The limit of concn. is $1:10^4$.
K. G. Stone

CA

7

Microchemical detection of mercury, copper, and cobalt by means of 2-isatoxime. V. Hovorka and L. Divil (Tech. Univ., Prague). *Collection Czechoslov. Chem. Commun.* 15, 589-600 (1950) (in English); cf. C.I. 44, 2414d. - Filter paper impregnated with 2-isatoxime alone or in the presence of NaOAc is used in spot tests for Hg, Cu, and Co. The new reagent forms (a) red to carmine colored Hg salts, insol. in weakly acid soln., (b) a water-insol. brown cupric salt, sol. in alk. and ammoniacal media where it forms a violet soln. which can be decolorized by alkali cyanides, and (c) a green cobaltous salt, sol. in excess alkali and NH_3 , yielding a dark green soln. which is stable towards cyanides. The test is more sensitive in ammoniacal soln. but Cu^{++} and Co^{++} salts interfere. In the presence of Ag^+ and Cu^{++} salts, Hg can be detected in an acetate buffer soln. if Rochelle salt is present. Anions such as Cl^- , Br^- , CN^- , SCN^- , $\text{S}_2\text{O}_3^{2-}$ interfere but can be removed by means of AgNO_3 . Cu can be detected in an ammoniacal soln.; Hg and Co salts interfere. Co^{++} salts can be detected in an ammoniacal medium in the presence of alk. tartrates. Fe^{++} , Fe^{+++} , Ni^{++} , Cr^{3+} , and Cu^{++} interfere. The interference of Hg^{++} can be avoided by the addn. of KI. O. H. M.

1901

DIVIS, LUDVIK

② 8

Rapid colorimetric determination of copper in the presence of other metal ions with 2-isatoxime methyl ether.
Ludvik Divis and Jan Skoda (Vysoká škola Chem., Prague, Czech.). Chem. Listy 48, 530-31 (1954); cf. C.A. 47, 1535a.—2-Isatoxime methyl ether (I) is used for the colorimetric microdetn. of Cu in the presence of Zn, Cd, Pb, Mn, Fe, Co, and Ni. The interference of these ions is prevented by keeping the pH at 5-7 and by the addn. of K Na tartrate (eventually KI in the presence of Hg^{++}). Cu can be detd. in the presence of 2000-fold excess of other metals. Treat sample contg. 1-20 γ Cu and other metals with 4 ml. of 30% soln. of K Na tartrate and 2 ml. 0.05% aq. I, in the presence of Hg^{++} with 1 ml. 30% aq. KI. Dil. the soln. to 10 ml., shake 2 min. with 5 ml. $CHCl_3$, and measure the absorption, using a filter with min. absorption at 540 m μ .

M. Hudlický

10-12-54

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Inst :

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Orig Pub : Prunysl potraviny, 1958, 9, No 10, 524-526.

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