

ZAVATE, Olga; DOGARU, Maria; CONSTANTINESCU, N.; FRANCHE, Maria; SECU, A.
OVANESCU, Al.; BESLEAGA, E.

Research on recurrences of exanthematous typhus. III.
Comparative evolution of serological tests in typhus
recurrences and primary infections. Stud. cercet.
inframicrobiol. 15 no.3:245-253 '64.

CONSTATINESCU, N.; ZAVATE, Olga; MORARU, Aneta

The protective capacity of rabies antiserum, administered by various routes, in relation to the date of rabies infection. Stud. cercet. inframicrobiol. 13 no.3:367-373 '62.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R.
(RABIES VACCINE) (RABIES) (GAMMA GLOBULIN)

CONSTANTINESCU, N.; BERCOVIGI, C.; ZAVATE, Olga; PETRESCU, Iulia; DAMATIRCA, D.;
PLACSIM, Al.; ROZENBOIM, Etyy

A hydric epidemic of epidemic hepatitis preceded by dysentery.
Stud. cercet. inframicrobiol. 13 no.4:443-448 '62.
(HEPATITIS, INFECTIOUS) (WATER POLLUTION)
(DYSENTERY, BACILLARY)

CONSTANTINESCU, N.; GEPLEANU, M.; MICU, I.; BIRZU, N.; ZAVATE, O.;
MORARU, A.

Modified rabies virus strains isolated from human cases of meningo-
encephalomyelitis with an atypical course in rabies. Stud. cercet.
inframicrobiol. 12:167-174 Supplement '61.
(RABIES virology) (ENCEPHALOMYELITIS virology)
(MENINGOENCEPHALITIS virology)

NICOLAU, S.St, academician; ZAVATE, O.; CONSTANTINESCU, N.; MICU, I.;
BIRZU, N.; RUSU, Florica; OVAHESCU, Al.

Research on viral infectious hepatitis (V.I.H.) transmitted by
parenteral route. Stud. cercot. inframicrobiol. 12 no.4:421-435
'61.

(HEPATITIS, INFECTIOUS transmission)
(INJECTIONS complications) (HOSPITALS)

NICOLAU, St.S., academician; CONSTANTINESCU, N.; BIRZU, N.; ZAVATE, O.;
MIGU, I.; TEODOROVICI, Gr.

The comparative course of human rabies in patients treated or not
treated with anti-rabies vaccine and the therapeutic directives
called for. Stud. cercet. inframicrobiol. 12:133-143 Supplement
'61.

(RABIES immunology)

(VACCINE THERAPY)

ZAVATE, O.; CONSTANTINESCU, N.; BIRZU, N.; OANA, C.; PANAITESCU, Gh.;
MIHAIL, AL.

Inframicrobial infectious hepatitis in family environment. Studii
cerc inframicrobiol Special issue-supplement to 12:285-294 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R. si Insti-
tutul de igiena, Iasi.

(HEPATITIS, INFECTIOUS)

NICOLAU, St.S., academician; CONSTANTINESCU, N.; CAJAL, N.; BIRZU, N.;
ZAVATE, O.; MORANU, A.

The variability of rabies fixed virus. The comparative pathogenic
and immunogenic activity of the "Pasteur" and "Babes" strains.
Stud. cercet. inframicrobiol. 12:145-155 Supplement '61.
(RABIES virology)

NICOLAU, St. S., acad.; ZAVATE, O.; CONSTANTINESCU, N.; MICU, I.; BIRZU, N.;
RUSU, Florica; OVANESCU, Al.

Viral infectious hepatitis (V.I.H.) transmitted parentally. Studii
cern inframicrobiol 12 no.4:421-435 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R. si Institutul
de igiena, Iasi. 2. Membru al Comitetului de redactie si redactor
responsabil "Studii si cercetari de inframicrobiologie" (for Nicolau)

+

CONSTANTINESCU, N.; CEPLEANU, M.; MICU, I.; BIRZU, N.; ZAVATE, O.;
MORARU, A.

Strains of the modified rabic virus, isolated from human meningo-
encephalomyelitis with a course atypical of rabies. Studii cerc
inframicrobiol Special issue-supplement to 12:167-174 '61.

1. Institutul de inframicrobiologie al Academiei R.P.R. si Institutul
de igiena, Iasi.

(HYDROPHOBIA) (ENCEPHALOMYELITIS)

NICOLAU, St. S., acad.; CONSTANTINESCU, N.; EIRZU, N.; ZAVATE, O.

Immunity in rabies determined by the peritoneal test of rabies virus neutralization. Stud. cercet. inframicrobiol., Bucur. 11 no. 1: 9-19 '60.
(RABIES, immunology)

CONSTANTINESCU, N.; CAJAL, N.; BIRZU, N.; CEPLEANU, M.; ZAVATE, O.

Experimental rabies infection in the Syrian hamster. Stud.
cercet. inframicrobiol., Bucur. 11 no. 1:61-72 '60.

1. Comunicare prezentata la Institutul de 'inframicrobiologie al
Academiei R.P.R. in sedinta din 16 septembrie 1959.
(RABIES experimental)

RUMANIA / Microbiology. Microbes, Pathogenic to Man and Animals. Bacteria. Spirochaeta. F

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19622
Author : Constantinescu, N.; Zavate, O.; Stoenescu, A.;
Leibovici, B.
Inst : Academy of Sciences RPR, Faculty of
Medicine
Title : Leptospirosis in Man as a Result of
Infection from a Swine
Orig Pub : Studii si cercetari stiint. Acad. RPR Fil.
Iasi Med., 1956, 7, No 1, 211-219

Abstract : 620 swine and 214 pig-tenders were examined
in 5 Moldavian pig farms. Infection was
caused by the local strains of Leptospira
pomona 396, brought about by the formation
of agglutinins in L. pomona (Praga).

Card 1/2

64

RUMANIA / Microbiology. Microbes, Pathogenic to Man and F
Animals. Bacteria. Spirochaeta.

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19622

Antibodies in swine were found in 60-90%;
in men, in 14-75% of the cases. The pig-
tenders were infected directly from the pigs
by way of urine. Children were infected
while bathing in stagnant water reservoirs,
where swine had bathed. In the case under
consideration, transmission of the leptospirosis
by rats is excluded. -- Z. A. Yakubovich

Card 2/2

Abstract [Authors' English summary modified]: The authors
studied 106 rats caught in food enterprises to determine the
percentage of carriers of pathogenic and conditionally patho-
genic bacteria. Of these, 6.2 percent were carriers of *S. typhi-murium*, 1.8 percent of *S. typhi-murium*. Among
the conditional pathogenic species, the rats were carriers of
Arizona, Citrobacter, Aerobacter and Enterococcus species, the
latter represented by *Str. faecalis* in 74 percent of the strains.
Approximately 8.5 percent of the animals showed potentially
entero-pathogenic coli-like organisms.

Includes 3 tables and 11 references, of which 7 Rumanian,
2 Russian and 2 Western. -- Manuscript submitted 8 May 1965.

L 04494-57

ACC NR: AP6033621 (A) SOURCE CODE: RU/0023/66/011/005/0431/0435

AUTHOR: Birzu, Alexandrina (Doctor); Besleaga, Virginia -- Beshlyaga, Virginia (Doctor); Zavate, Olga (Doctor); Hutu, I. (Doctor); Khutsu, I. (Doctor); Iluca, V. -- Iluka, V. (Technical assistant); Varlan, V. -- Vyrilan, V. (Technical assistant)

ORG: Institute of Hygiene, Iasi (Institutul de igiena)

17
B

TITLE: Rattus norvegicus as a pathogen carrier

SOURCE: Microbiologia, parazitologia, epidemiologia, v. 11, no. 5, 1966, 431-435

TOPIC TAGS: animal disease, experiment animal, epidemiology, carrier state, pathogenic microbe

ABSTRACT: The state of pathogenic germs and conditioned pathogenic germ carriers were investigated in 106 rats captured in meat packing plants. It was found that 15.09% of the animals were carriers of S. enteritidis Gartner, and 1.8 % of S. typhimurium. Rats are carriers of conditioned pathogenic germs of the following genera and strains: 'Arizona', Citrobacter, Aerobacter, and Enterococcus with predominance of Str. faecalis in 74% of the cases. Of the examined animals, 8.5%

Card 1/2

L 04494-67

ACC NR: AP6033621

showed potentially entero pathogenic coli-like germs, of types O₁₂₅ B₁₅ and O₁₂₆ B₁₆. Orig. art. has: 3 tables. [Based on authors' abstract] [W.A. So] 0

SUB CODE: 06/ SUBM DATE: 08May65/ ORIG REF: 005/ SOV REF: 002/
OTH REF: 004/

Card 2/2 *e of*

BOGOMOL, G.M.; SEMECHKO, I.M.; ZAVATSKAYA, P.Z.

Characteristics of the physical and mechanical properties of card-board moulded on a multicylinder machine. Bum. 1 der. prom. no.1:10-16 Ja-Mr '65. (MIRA 18:10)

M

Country : USSR
Category: Cultivated Plants. Fruit. Berries.

Abs Jour: PZhDiol., No 11, 1958, No 49111

Author : Zavatskaya, Ye.

Inst : Voronezh Agric. Inst.

Title : Conducting Remote Hybridization of Quince Utilizing
an Apple and Pear Pollen Mixture.

Orig Pub: Zap. Voronezhsk. s.-kh. in-ta, 1956, 23, No 2,
185-188

Abstract: Pollination of quince with pollen mixtures of 4
varieties of apple and 2 varieties of pear trees
was conducted at the Voronezh Institute of Agricul-
ture during 1953-1955. The viability of the pollen
was determined by germination for 24 hours in 10%

Card : 1/2

"Selectivity of the Pollinization of Fruit-Bearing Plants." Cand Agr Sci, Voronezh
Agricultural Inst, Voronezh, 1953. (RZhBiol, No 8, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational
Institutions. (12)
SO: Sum. No. 556, 24 Jun 55

Электричество
BULOVSKIY, Pavel Ivanovich; POVALYAYEV, Andrey Vladimirovich; SOKOLOV,
A.I., inzhener, redaktor; TULIN, A.S., redaktor; ZAVATSKIY, B.F.,
inzhener, retsenzent; CHISTYAKOVA, A.V., tekhnicheskiy redaktor

[Technology of installing electric measuring instruments] Tekhno-
logiya sborki elektroismeritel'nykh priborov. Moskva, Gos.izd-vo
obor. promyshl., 1955. 303 p. (MLRA 9:2)
(Electric meters)

PANASENKO, Vasilii Grigor'yovich; KUBAFEV, K.P., retsenzent; ZAVATSKIY, M.A., retsenzent; SVIRIDOV, N.P., retsenzent; KHABAROV, L.N., retsenzent; NIKIFOROV, A.S., red.

[Study of materials used in carpentry and furniture manufacture] Materialovedenie stoliarno-mebel'nykh proizvodstv. Moskva, Lesnaia promyshlennost', 1964. 204 p. (MIRA 18:3)

ZAVAZAL, Vladimir, MUDr.; MALY, Vladimir, Mg., Mat.; KAZMAR, Antonin, MUDr.;
Technicka spoluprace: Zdena Konstantova.

Epidemiology and prevention of tetanus. I. Epidemiological study
of tetanus in the Districts. Sborn. lek. 58 no.7:149-160 Sept 56.

1. Ustav pro mikrobiologii Lekarske fakulty v Praze, pob. v Plzni,
prednosta doc. Dr. Vlad Wagner - Ustav organizace zdravotnictvi
Lekarske fakulty v Praze, prednosta prof. Dr. Vaclav Prosek - KHES,
epidemiologicke oddeleni v Plzni, tehdejsi prednosta Dr. Antonin Kazmar.

(TETANUS, epidemiol.
in Czech. (Cz))

ZAVAZAL, Vladimir, Prim., MUDr.; ZDARIL, Jaroslav, MUDr.; Technicka
spoluprace: Zdena Konstantova.

Epidemiology and prevention of tetanus. II. Carriers of *Clostridium*
tetani in humans. Sborn. lek. 58 no.7:161-164 Sept 56.

1. Ustav pro mikrobiologii Lekarske fakulty v Praze, pob. v Plzni,
prednosta doc. Dr. Vladimir Wagner- Infekcni oddeleni KUNZ v Plzni,
prednosta Dr. Jaroslav Zdaril.

(*CLOSTRIDIUM TETANI*,
intestinal incidence in humans (Cz))

(*INTESTINES*, bacteriology,
Clostridium tetani, incidence in humans (Cz))

ZDARIL, Jaroslav, Prim., MUDr.; ZAVAZAL, Vladimír, MUDr.

Epidemiology and prevention of tetanus. III. Postoperative tetanus by autoinfection. Sborn. lek. 58 no.7:165-168 Sept 56.

1. Infekční oddělení KUNZ v Plzni, přednosta MUDr. J. Zdaril -
Ústav pro lékařskou mikrobiologii Lek. fakulty KU v Praze, pobočka
v Plzni, přednosta doc. Dr. Vlad. Wagner.

(TETANUS, etiol. & pathogen.

postop. tetanus caused by autoinfect. after rectal surg.
(Cz))

(SURGERY, OPERATIVE, compl.

postop. autoinfect. tetanus after rectal surg. (Cz))

MIKOLAS, Vladimír; SAUER, Josef; ZAVAZAL, Vladimír; MALY, Vladimír, Statistické zpracování.

Prevention of puerperal mastitis with gential violet. Cesk. gyn. 22/36 no.8:568-572 Dec 57.

1. Gyn. por. klinika v Plzni, prednosta prof. Dr Vl. Mikolas Ustav mikrobiol. immunol. LFKU v Plzni, prednosta doc. Dr J. Zahradnický.

(GENTIAL VIOLET, ther. use

puerperal micrococcal mastitis, prev. (Cz))

(PUERPERIUM, COMPL.

micrococcal mastitis, prev. by gential violet (Cz))

(MASTITIS, prev. & control

gential violet prev. of micrococcal puerperal mastitis (Cz))

(MICROCOCCAL INFECTIONS, prev. & control)

IAVICKA, Josef; ZAVAZAL, Vladimir

Clinical experiences with agglutination of colloidium particles sensitized with gamma globulin in the blood of patients with progressive polyarthriti-
tis. Cas. lek. cesk. 98 no.4:104-107 23 Jan 59.

1. Klinika chorob vnitřnich lékařské fakulty v Plzni. Prednosta prof. dr.
K. Bobek. Ustav pro mikrobiologii a imunologii lékařské fakulty v Plzni.
Prednosta doc. dr. J. Zahradnicky. J. L., Plzen, interni klinika.

(ARTHRITIS, RHEUMATOID, Immunol.

hemagglut. of colloidium particles sensitized by gamma
globulin (Cz))

(HEMAGGLUTINATION, in various dis.

rheum. arthritis, hemagglut. of colloidium particles sensi-
tized by gamma globulin (Cz))

KALALOVA, D.; MECL, A.; PROKOP, J.; MALY, V.; WAGNER, V.; ZAVAZAL, V.
Technicka spoluprace Sovakova, A.

Immunological findings in pregnancy toxemias. I. Tissue antibodies in pathological and normal pregnancies. Cas.lek.ceck. 98 no.38:1189-1192 18 S '59.

1. Porodnicka klinika Statni fakultni nemocnice v Plzni, prednosta prof.dr. Vl. Mikolas, Interni klinika Statni fakultni nemocnice v Plzni, prednosta prof.dr. K. Bobek, Ustav organizace zdravotnictvi v Praze, prednosta prof.dr. F. Prosek. Bakteriolog-serologicke odd. nemocnice na Bulovce, prednosta doc.dr. Vl. Wagner.
(PREGNANCY TOXEMIAS immunol.)

ZAVAZAL, Vladimir; LAVICKA, Josef; stasticke hodnoceni MALY, Vladimir;
technicka spoluprace NAVRATILOVA, Jindra

Serological diagnosis of progressive arthritis. Cas. lek. cesk. 101
no.35:1049-1055 31 Ag '62.

1. Ustav pro lekarskou mikrobiologii a epidemiologii lekarske fakulty
KU v Plzni, prednosta doc. dr. J. Zahradnický. Klinika chorob vnitřních
lekarske fakulty KU v Plzni, prednosta prof. dr. K. Bobek.
(ARTHRITIS RHEUMATOID)

L 20525-66

ACC NO

ABSTRACT: ...
... Institute for Microbiology and Epidemiology, Budapest, Hungary.

Source: Vojenske zdravstvenike listy, no. 1, 1964, p. 22

TOPIC TAGS: titrimetry, microchemical analysis equipment, hematology, blood serum

ABSTRACT: The authors describe their experience with a microtitration apparatus of Hungarian manufacture, designed in 1950 by Takatsy. Description of the apparatus is given; operating instructions included with the instruments are reviewed and suggested improvements in operational technique described. The speeding up of the work is evaluated. Orig. art. has: 1 table. [JPRS]

SUB CODE: 07, 06 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 002

Card 1/1 13K

UDC: 616.15-078.73[544.33]

CZECHOSLOVAKIA

UDC 616.2-097.2-02:576.88.28

TOMSIKOVA, A.; ZAVAZAL, V.: Institute of Microbiology and Epidemiology, Medical Faculty, Charles University (Ustav pro Mikrobiologii a Epidemiologii Lek. Fak. KU)., Plzen, Head (Prednosta) Docent Dr J. ZAHRADNICKY; Station for Treatment of Allergic Diseases, Faculty Hospital (Alergologicka Stanice Fakultni Nemocnice), Plzen, Head (Vedouci) Docent Dr V. ZAVAZAL.

"Participation of Mycotic Flora in the Development of Respiratory Allergies. II. Importance of Cultivation, Serological and Allergological Findings."

Prague, Casopis Lekarů Ceskych, Vol 105, No 31, 9 Aug 66, pp 827 - 833

Abstract [Authors' English summary modified]: Relationship between mycotic flora and respiratory allergies was investigated in 751 patients with bronchial asthma, 185 with vasomotor rhinitis, 154 with chronic bronchitis, and 417 healthy subjects. Patients carried more yeasts and molds than healthy subjects; penicillia were found most frequently. Nasal cavity contained the greatest number of microbes. Antibody response was stronger in patients than in controls. 12 Figures, no references. (Manuscript received Jan 66).
1/1

TOMSIKOVA, A.; ZAVAZAL, V.; MALY, V.; NOVACKOVA, D.; NOVA, H.

The role of mycotic flora in the origin of respiratory allergies.
I. Experiences with yeast and fungal allergens. Cas. lek. cesk.
104 no.16:425-433 23 Ap '65

1. Ustav pro mikrobiologii a epidemiologii lekarske fakulty
Karlovy University v Plzni (prednosta: doc. dr. J. Zahradnicky)
a Ustav organizace zdravotnictvi fakulty vseobecneho lekarstvi
Karlovy University v Praze (prednosta: prof. dr. F. Prosek)

ZAVAZAL, Vladimir . Technicka spoluprace KRAUSOVA, Marcela.

Evaluation of the antistreptolysin-O and antistreptohyaluronidase
in the serology of rheumatic fever. Plzen. lek. sborn. 23:19-29
'64

1. Ustav pro mikrobiologii a epidemiologii lekarske fakulty
University Karlovy se sidlem v Plzni (prednosta: doc. dr. J.
Zahradnický): Ustav organizace zdravotnictvi lekarske fakulty
University Karlovy v Praze (prednosta: prof. dr. V. Prosek) a
Alergologicka stanice Statni fakultni nemocnice v Plzni.

ZAVAZAL, Vladimir; NOVA, Hana

Results of specific treatment of hay fever. Plzen. lek. sborn.
24:77-82 '64.

1. Ustav pro mikrobiologii a epidemiologii lekarske fakulty
University Karlovy v Plzni (prednosta: doc. dr. J. Zahradnický)
Alergologicka stanice Statni fakultni nemocnice v Plzni.

ZAVAZAL, Vladimir; DORT, Vaclav

The course of the immunological reactivity in convalescents after acute rheumatism and its relation to clinical findings in prolonged follow-up. Acta univ. carol. [Med] Suppl. 15:147-152 '61.

1. Ustav pro mikrobiologii a epidemiologii (prednosta doc. dr. J. Zahradnický) a klinika chorob detaskych (prednosta doc. dr. J. Lukes) lekarske fakulty University Karlovy se sidlom v Plzni.
(RHEUMATIC FEVER immunol)

Z/031/61/009/004/006/008
A121/A126

AUTHORS: Zavázal, Z., and Šafář, L., Engineer

TITLE: A new method of manufacturing the cooling elements of semiconductor rectifiers

PERIODICAL: Strojírenská výroba, no. 4, 1961, 188 - 189

TEXT: Described is the manufacturing process of these parts by extrusion, developed in the ČKD Stalingrad Plants. The old types of cooling elements for Ge valves UGA 10 and UGA 20, consisting of one central pin with radial cooling fins, were similar to the new design. The latter consist of several parts and are provided with silver solder. They are produced in a more simple way, the waste is negligible and they have a lower weight. They show corresponding thermal properties and a significantly lower hydraulic resistance. They are made suitable for the attachment of a rectifier element. The new manufacturing method is a cold extrusion, consisting in the following operations: preparation of the spherical cap, the cold extrusion process proper, the ejection of the completed product from the machine, and the finishing. The extrusion die of the machine (Figure 2) consists of five knives (5), two side boards (2), and two

Card 1/3

Z/031/61/009/004/006/008
A121/A126

A new method of manufacturing the

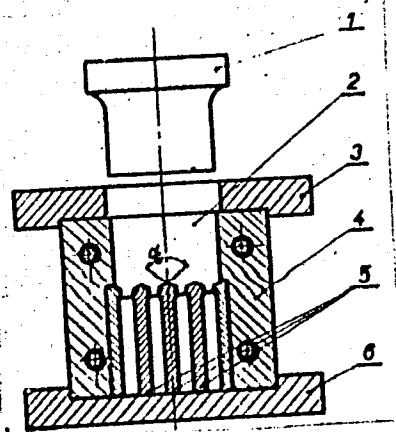
mutually locked supporting boards (4); the entire system is drawn together by two boards (3) and (6). The extruding punch (1) is rectangular. The main part of the equipment is made of Poldi 2002 material, enriched to the hardness 62 - 63 HRC. For pressing the 500 ton test press was used installed in the Technicki a zkusebni ustav stavebni (Technical and Testing Institute of Buildings) in Prague - Smichov. First, several aluminum elements have been manufactured; the initial spherical cap had the dimensions 45 x 45 x 85 and the initial hardness was about 20 HB. The pressing power used was 140 tons, the ejecting pressure 8 tons. Based on experience made with aluminum, copper elements have been pressed; the spherical cap was the same as in case of aluminum, the initial hardness was 47 HB, the pressing power about 340 tons, and the ejecting pressure 20 - 30 tons. For both materials two knife sets at a vertical angle of $\alpha = 136 - 150^\circ$ have been tested, the latter angle of 150° being the more advantageous one. The height of the lower fins reached 100 - 110 mm with both materials. The upper fins arranged parallel to the lower ones have been pressed out to a height of 40 - 50 mm, whereas the fins being at a right angle to the lower fins reached a height of 15 - 25 mm only. There are 4 figures, 1 table and 3 Soviet-bloc references.

ASSOCIATION: ČKD Praha, n. p., závod Stalingrad (ČKD Prague, People's Enter-
Card 2/3

Z/031/61/009/004/006/008
A121/A126

A new method of manufacturing the
prise, Stalingrad Plant)

Figure 2: Schematic diagram of extrusion die: 1 - 6 see in the abstract.



Card 3/3

L 44805-66

ACC NR: AP6006152 (A)

SOURCE CODE: CZ/0078/65/000/010/0011/0011

INVENTOR: Soucek, Jiri (Engineer; Benesov u Prahy); Hapl, K. (Vlasim); Saus, F. (Benesov u Prahy); Skvor, J. (Engineer; Uvaly); Bezouska, V. (Pruhonic); Hrdlicka, J. (Prague); Pokorny, O. (Prague); Zavazal, Z. (Prague); Svetana, J. (Prague)

ORG: none

72
B

TITLE: (Thermal expansion compensator for semiconductor system) CZ Pat. No. PV 1827-64

SOURCE: Vynalezy, no. 10, 1965, 11

TOPIC TAGS: electrode, semiconductor device, thermal expansion

ABSTRACT: The electrode of the housing of a semiconductor system which is vacuum (hermetically) tight secured by means of the electrical insulating part to the base housing forming the other electrode which has positioned inside it a channel or duct sealed from the outside to which is introduced inside the housing a positioned expansion member constituting an electrical connection between the electrode and the semiconductor system feature in the device described here. The electrodes protrude from the housing in such a way that to the expansion member fixed to it can be secured deformation electrodes from the outside and that a conductor can be attached to them

Card 1/2

L 44805-66

ACC NR: AP6006152

0
from the outside. This arrangement is distinguished by the fact that the electrodes and the conductor connected to it are enclosed by the housing fixed to the conductor and the deformation electrode. The deformation of the housing at the point where it touches the electrode proceeds to such a depth that the electrode and expansion member are deformed simultaneously.

SUB CODE: 09~~20~~/ SUBM DATE: 31Mar64

Card 2/2

blg

Subject : USSR/Engineering AID P - 4830
Card 1/1 Pub. 11 - 3/13
Authors : Paton, B. E. and V. A. Zavdskiy
Title : Impulse arc ignition in automatic and manually operated
induction arc welding.
Periodical : Avtom. svar., 3, 26-35, Mr 1956
Abstract : The authors describe an open arc impulse ignition in
automatic and semi-automatic shielded arc welding. They
present two impulse generator circuits, and results of
several experimental weldings with the appropriate
deductions. Eight oscillograms, 4 drawings and 1 photo.
Two Russian references (1951-54).
Institution : Electrowelding Institute im. Paton
Submitted : 5 Ja 1956

USSR/ Miscellaneous - Radio in the Arctic

Card 1/1 - cont. By - 3, 3a

Authors : Gavdeev, I.

Title :

Periodical :

Abstract : A vivid description of the successive stages in the development of radio in the Arctic.

Submitted : ...

Approved, L.
USSR/Miscellaneous - Staff

ZAVEDYEV, I.

Notes from the ice floe station. Radio no.9:10-12 8'55. (MLRA 8:11)
(Arctic regions--Radio)

ZAVEDEYEV, I.

ZAVEDEYEV, I.

Notes from the ice floe station. Radio no.6:13-14 Jo '55.
(Arctic regions--Radio) (MLRA 8:8)

Zarokov, I.

ZAVEDEYEV, I.

Reports from a drifting station. Radio no. 11:6-7 N '54. (MLRA 7:12)
(Arctic regions--Radio stations)

ZAVEDEYEV, I.

"Notes from a Drifting Station," Radio, No.4, 1955. pp 14-17

Summary translation D 287691, 11 Aug 55

ZAYEDDEV, I.

USCR,

Card

Authors : Zayedeev, I.

Title : Notes from a floating station

Periodical : Radio , 14-15, Apr 1975

Abstract : A vivid description of the successive steps in the erection of an Arctic

Institution : ,....

Submitted :

ZAVEDYEV, I.; KURKO, K.

In the Arctic icelands. Radio no.9:6-7 S '54. (MLRA 7:9)
(Arctic regions) (Radio)

ХАВЕДЕЙЕВ, И., мастер радиолыбительского спорта.

Training high-speed radio operators. Radio no.10:46-48 0 '53.

(MLBA 6:10)

(Radio operators)

ZAVEDNYUK, V.F., aspirant

Killing the May beetle. Zashch. rast. ot vred. i bol. 9
no.7:43 '64.

(MIRA 18:2)

1. Ukrainskiy nauchno-issledovatel'skiy institut zashchity
rasteniy.

ZAVEDNYUK, V.F., inzh.-lesopatolog

Controlling the moth *Operophtera brassata* in Ternopol'
Province. Zashch. rast. ot vred. i bol. 7 no.12:27-29
D '62. (MIRA 16:7)

1. Ternopol'skiy lesosashchitnyy rayon.
(Ternopol' Province—Trees—Diseases and pests)
(Ternopol' Province—Measuring worms—Extermination)

ZAVELEV, A.I.

Using the method of the relation of potential gradients. Razved. i
okh. nedr 26 no.6:45-48 Ja '60. (MIRA 15:7)

1. Respublikanskiy gosudarstvennyy institut po proyektirovaniyu
vodokhozyaystvennogo i meliorativnogo stroitel'stva RSFSR.
(Electric prospecting)

ZAVELEV, G.

Soviet machinery exports. Vnesh.torg. 41 no.5:36-39 '61.

(Machine-tool industry)

(Russia--Commerce)

(MIRA 14:4)

ZAVELEV, G.

Soviet machine-tool industry and exports [with English summary in
insert]. Vnesh. torg. 28 no.7:21-25 '58. (MIRA 11:8)
(Machine-tool industry) (Russia--Commerce)

ZAVELEV, G.

Machine- Tool Industry

Market for machine tools in capitalist countries. Vnesh. torg. 22 No. 8, 1952

Monthly List of Russian Accessions, Library of Congress, December 1952 Unclassified

ZAVELEV, G.

Market for metal cutting machine tools in underdeveloped countries
[with summary in English, p. 31]. Vnesh. torg. 26 no.10:12-13
0 '56. (MLRA 9:12)

(Machine tools)

ZAVELEV, Gerasim Il'ich, kand.tekhn.nauk; GOR'KOVA, A.A., vedushchiy red.;
MUKHINA, E.A., tekhn.red.

[Nemetallicheskie fiterovki dlia apparatury nef'tianoi i nef'te-
khimicheskoi promyshlennosti. Moskva, Gos.nauchno-tekhn.izd-vo
neft. i gorno-toplivnoi lit-ry, 1960. 149 p. (MIRA 13:3)
(Petroleum refineries--Equipment and supplies)
(Protective coatings) (Reinforced concrete)

ZAVELEV, G. I.

S/852/62/000/000/017/020
B106/B101

AUTHORS: Bedritskiy, N. A., Belkind, F. I., Veshenkova, M. S.,
Vanetsova, A. M., Cvirts, R. A., Zavelev, G. I., Skachkov,
N. I.

TITLE: Use of polymer materials and nonmetallic protective coatings
in petrochemical industry

SOURCE: Primeneniye polimerov v antikorrozionnoy tekhnike. Ed. by
I. Ya. Klinov, and P. G. Udyma; Moscow, Mashgis, 1962, Vses.
sovet nauchno-tekhn. obshchestv. 122 - 130

TEXT: With a view to introducing plastics as a constructional material for machines used in the petroleum industry, equipment developed by the Gipro-neftemash was examined and some mechanical plants were inspected. Polymer materials have been found suitable for units and components of petroleum installations. Plastics have been recommended for components and fittings of pumps, in accordance with plans worked out. The materials best suited are AP-4B (AO-4V) and AP-4C (AO-4S) glass-reinforced plastics. Cements based on furyl resins have been developed for reaction vessel liners in
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B106/B101

Use of polymer materials ...

petroleum industry. Varnish colors on the basis of modified furyl resins, and Bakelite varnish with fillers on a metallized base, proved suitable as anticorrosive coatings. Copolymers of polyethylene with polypropylene and fluoroplast-3 are most suitable for coatings based on powdered plastics. A coating made up of a metallized aluminum and zinc layer covered with a XB-77 (KhV-77) "perchlorvinyl" varnish has been developed to protect the springs of safety valves from corrosion, thereby lengthening the life of these springs approximately 7 times. This varnish is used also for protective coats on the inner surfaces of vessels for petroleum and petroleum products containing sulfur. As such coatings are easily destroyed by steaming, it is recommended to replace this by a mechanical wash, using an M-3 (M-3) machine. The Giproftemash and neftekhimicheskiy kombinat (Petrochemical Combine) developed a new anti-corrosion treatment for telescopic holders. For this purpose a liquid cement based on industrial oil, petroleum bitumen, or the extract obtained by aircraft oil refining have been used in combination with polyacetylenes or synthetic rubber. Eight brands of this protective liquid have been developed, which is not injurious to health. Its application is much less expensive than that of protective coatings using "perchlorvinyl" varnishes. Finally it is recommended that

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Use of polymer materials ...

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B106/B101

the production of the protective liquid for telescopic gas holders in Donets Basin, along the Volga, and in Baku should be organized; also that steel tubes having their flanges protected against corrosion by Φ -10 (F-10) furyl varnish should be produced in one of the tube-rolling mills and that their delivery to the petroleum and chemical industries should be organized. Furthermore, it is recommended that coatings combining Bakelite varnish with inert fillers on a metallized base should be used to protect parts of the equipment and apparatus in petro-chemical and petroleum processing industries. Large plants are to be equipped with installations for repairing and processing nonmetallic material.

Card 3/3

ZAVELEV, G. I.

Dissertation: --"Anticorrosion Cement Insulation for Petroleum Thermal Cracking Apparatus." Cand Tech Sci, Moscow, Chemicotechnological Inst, Moscow 1953.
W-30928

SO: Referativnyy Zhurnal, No. 5, Dec 1953, Moscow, AN USSR (~~SI 5555~~)

ZAVELEV, L.A.

ARNOL'DOV, Arnol'd Isayevich, kandidat filosofskikh nauk: ZAVELEV, L.A.
redaktor; GUBIN, M.I., tekhnicheskiy redaktor.

[Development of science in people's democracies] Razvitie nauki
v stranakh narodnoi demokratii. Moskva, Izd-vo "Znanie," 1957.
46 p. (Vsesoiuznoe obshchestvo po rasprostraneniu politicheskikh
i nauchnykh znaniy. Ser.2, no. 10) (MIRA 10:6)
(People's democracies--Science)

SHAFIR, Mark Arkad'yevich; ZAVELEV, L.A., red.; APROSHCHENKO, L.Ye.,
tekhn.red.

[Democratic dictatorship of the people in China is one of the
forms of the dictatorship of the proletariat] Demokraticheskaia
diktatura naroda v Kitae - odna iz form diktatury proletariata.
Moskva, Izd-vo "Znanie," 1959. 47 p. (Vsesoiuznoe obshchestvo
po rasprostraneniuiu politicheskikh i nauchnykh znanii. Ser.2.
Filosofia, no.5) (MIRA 12:6)
(China--Politics and government)

IGNATOV, A.I. kandidat filosofskikh nauk; ZAVELEV, L.A., redaktor;
ISLEN'YAVA, P.G., tekhnicheskiy redaktor

[Antithesis of science and religion] Protivopozhnost' nauki
i religii. Moskva, Izd-vo "Znanie" 1955 31 p. (Vsesoiuznoe obshche-
stvo po rasprostraneniю politicheskikh i nauchnykh znaniy. Ser. 3,
no.5) (MLRA 8:12)

(Religion and science)

BUDREYKO, Nikolay Andreyevich, kandidat filosofskikh nauk; ZAVELEV, L.A.,
redaktor; ISLENT'YEVA, P.G., tekhnicheskiiy redaktor.

[M.V.Lomonosov, great scientist and materialist, founder of Russian
science; in connection with the 200th anniversary of Moscow State
University] M.V.Lomonosov - velikii uchenyi-materialist, osnovopolozh-
nik russkoi nauki; k 200-letiyu Moskovskogo gosudarstvennogo univer-
siteta imeni M.V.Lomonosova. Moskva, Izd-vo "Znanie", 1955. 47 p.
(Vsesoiuznoe obshchestvo po rasprostraneniю politicheskikh i nauch-
nykh znaniy, Ser.2, no.6.) (MIRA 8:4)
(Lomonosov, Mikhail Vasil'yevich, 1711-1765)

FEL'ZENBAUM, V.G., kand. ekonom. nauk; DAVYLOVA, F.I., inzh.; LEYTUSH,
T.L., inzh.; ZAVELEV V.G., inzh.

Promote fully the production and use of nonmetal pipes.
Stroi. mat. 10 no.9:10-11 My '64. (MIRA 17:9)

1. Nauchno-issledovatel'skiy institut asbesta, slyudy,
asbestotsementnykh izdeliy i proyektirovaniya stroitel'stva
predpriyatiy slyudyanoy promyshlennosti (for Leytush, Zavelov).

DAVYDOVA, F.L.; LEYTUSH, T.L.; FEL'ZENBAUM, V.G.; ZAVELEV, V.A.

One and a half times more pipes from the same raw material.
Stroi. mat. 9 no.10:5-7 0 '63. (MIRA 16:11)

STAROBINETS, I.S.; ZAVELEVA, A.Z.

Characteristics of natural gases in western Uzbekistan. Uzb. geol.
zhur. no.6:65-74 '60. (MIRA 14:1)

1. Institut geologii i razrabotki neftyanykh i gazovykh mestorozh-
deniy AN UzSSR i trest "Uzbekneftegazrazvedka."
(Uzbekistan—Gas, Natural)

ZAVELEVA, F.D., kand.med.nauk

Course of pulmonary tuberculosis, according to data from the
Clinic for Pulmonary Tuberculosis in Adults of the Yakut Branch
of the Tuberculosis Institute of the Academy of Medical Sciences
of the U.S.S.R. Vop. epid. i klin. tub. 5:78-89 '58.

(MIRA 14:12)

(TUBERCULOSIS)

ZAVELEVA, F.D., kand.med.nauk; POPOVA, S.I., klinicheskiy ordinator

Combination of peripheral tuberculous lymphadenitis and tularemia
(notes from practice). Vop. epid. i klin. tub. 5:253-254 '58.
(MIRA 14:12)

(LYMPHATICS—TUBERCULOSIS) (TULAREMIA)

ASSEYEV, D.D., prof.; AL'TSHULER, N.S., kand.med.nauk; ZAVELEVA, F.D.,
kand.med.nauk

Experience with a total examination of the population of the city
of Klin. Probl.tub. 38 no.8:16-23 '60. (MIRA 14:1)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza
(dir. V.F. Chernyshev, zam. dir. po nauchnoy chasti prof. D.D.
Aseyev).

(KLIN—TUBERCULOSIS—DIAGNOSIS)

L 32187-66 EWP(m)/EWT(1)/EWP(e)/EWT(m)/EWP(j)/EWP(v) IG/WV/RH/WH

ACC NR: AP6010861

SOURCE CODE: UR/0421/66/000/001/0161/0167

AUTHOR: Zavelevich, F. S. (Moscow)

93
91
13

ORG: none

TITLE: Combustion of graphite in a boundary layer with chemical equilibrium

SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 1, 1966, 161-167

TOPIC TAGS: laminar boundary layer, high temperature EFFECT, metal combustion, GRAPHITE, CHEMICAL EQUILIBRIUM, AIR FLOW

ABSTRACT: The present work is devoted to the theoretical investigation of the mechanism of carbon loss in a case of air flow around an object with an equilibrium boundary layer. The influence of various components on the process of heat and mass exchange are studied over a large temperature (up to 8000°C) and pressure range. Stationary flow of high temperature air, with five atomic and molecular components, around the critical point of the object is studied. It is assumed that graphite sublimates in the form of diatomic molecules. Laminar boundary equations with these assumptions are determined and their solution is obtained numerically, using Lennard-Jones potentials. The applicability of this model is discussed and compared with the frozen boundary layer model. The results, in graphic form, give the chemical component concentrations of air constituents and their reaction products with carbon as functions of the temperature. Most calculations are carried out at pressures of 10 bars since only weak dependence on

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L 32187-66

ACC NR: AP6010861

2

pressure is found. The author thanks N. A. Anfimov for his constant interest in the work and for valuable advice in the performance of the work. The author also thanks I. S. Yepifanovskiy for a fruitful discussion of the results. Orig. art. has: 7 figures, 16 formulas.

SUB CODE: 20/ SUBM DATE: 10May65/ ORIG REF: 006/ OTH REF: 004

LS

Card 2/2

ZAVELEVICH, G. S.

"Internal Conversion on a L-Layer at Low Excitations of Nuclei," Zhur. Eksp. i
Teoret. Fiz., 11, No. 2-3, 1941. Leningrad Physico-Technical Inst. Acad. Sci. SSSR,
-1940-.

CA

3

Internal conversion on an L -layer at low excitation of nuclei. G. B. Zavrtelevich. *J. Exptl. Theoret. Phys.* (U. S. S. R.) 11, 213-21 (1941).—Math. The ratio of the coeffs. of internal conversion on K and on L layers depends strongly on the multipolarity of the nuclear transition. This ratio is calculated for atoms with a nuclear charge $Z = 50$ and for low excitation, which justifies nonrelativistic treatment of the problem. The magnetic radiation is disregarded; as a first approximation (without spin), the interaction of magnetic radiation with electrons of zero orbital momentum is zero. As a result, in the cases under consideration, the conversion coeff. for magnetic radiation in the K shell is small and the ratio of conversion coeffs. for K and L shells large. The final formula is rather complicated but is essentially the same as the formula found in another way by Hebb and Nelson (*C. A.* 14, 7728). Applying his formula to the special case of Br^{100} isomerism and comparing with the exptl. results of Rusinov and Yousefovich (*C. A.* 14, 2203), Z. concludes that the radiation is octopolar.

M. Magat

ASB-554 METALLURGICAL 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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ZAVELEVICH, P.M.

Preparation of iron (powder) by reduction with hydrogen. P. M. Zavelevich, *Trans. Inst. Pure Chem. Reagents (Moscow)* No. 15, 51 (1957). In the prepn of Fe powder by reduction of 20 g. Fe₂O₃ with electrolytic H₂ in an elec. furnace the best results were obtained by heating the sample at 400-700° for 10 min. and at 700° for 20 min. with 4.5 parts of H₂ in excess of the theory. Equally good results are obtained by using dry powder Fe hydrate with an economy in time consumed in getting it at 700° to 1.5 h. A saving of H₂ can be effected by cooling the Fe powder to 400° instead of the usual at 80°. The reduction of Fe₂O₃ at 900° (Richards and Baxter, *Z. anorg. Chem.* 23, 215 (1900)) produces lumpy Fe conglomerates difficult to powder. Thirteen references. Chas. Blain

ZAYELEVICH, P.M.

ca

6

Preparation of silicotungstic acid. P. M. Zavelevich, *Zhur. Obshch. Khim.* 18, 1780-5(1948).—(1) By the HCl method, 100 g. $\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$ is dissolved in 400 ml. H_2O , and the boiling soln. is gradually neutralized with 95-100 ml. HCl (d. 1.12): $12 \text{Na}_2\text{WO}_4 + 14 \text{HCl} = 6\text{Na}_2\text{O} \cdot 12\text{WO}_3 + 14 \text{NaCl} + 7 \text{H}_2\text{O}$; a 3-fold excess of freshly prepd. silica gel (from 25 g. Na silicate and 35-40 ml. HCl of d. 1.05-1.06) is added, and the mixt. boiled 25-30 min, with addn. of a total of 9-10 ml. HCl (d. 1.12) to maintain a neutral reaction until completion of $\text{Na}_2\text{W}_{12}\text{O}_{40} + 11\text{H}_2\text{SiO}_3 + 6\text{HCl} = 6\text{NaCl} + 2\text{H}_2\text{O} + \text{Na}_{11}\text{H}[\text{Si}(\text{W}_6\text{O}_{21})]$. The latter compd. is shaken out with $\text{Et}_2\text{O} + \text{HCl}$; the ext. (lowermost layer) contains the acid produced by $\text{Na}_{11}\text{H}[\text{Si}(\text{W}_6\text{O}_{21})] + 4\text{HCl} = \text{H}_2[\text{Si}(\text{W}_6\text{O}_{21})] + 4\text{NaCl}$; best yields (60-65%) are obtained with about 105-110 ml. HCl (d. 1.19) per 100 g. initial Na_2WO_4 , and 600 ml. Et_2O . (2) By the HNO_3 - H_2SO_4 method, 100 g. Na_2WO_4 is dissolved in 200 ml. H_2O , and neutralized with 85 ml. HNO_3 (d. 1.14); the silica gel necessary for 100 g. Na_2WO_4 requires 60-65 ml. HNO_3 (d. 1.00); neutralization of the soln. takes 12.5-13 ml. HNO_3 (d. 1.14). The acid is obtained by extn. with $\text{Et}_2\text{O} + \text{H}_2\text{SO}_4$, the requirements (per 100 g. initial Na_2WO_4) being 60-65 ml. H_2SO_4 (d. 1.25-1.30), 650 ml. Et_2O . (3) The product obtained by the HCl method contains, on the av., 22 H_2O mols.; that prepd. by the $\text{HNO}_3 + \text{H}_2\text{SO}_4$ method, an av. of 19 H_2O .

S. Thon

Chin Gen. Chem,
 Stalin 2nd No. 19
 Res. Inst.

ZAVELENYI, M.Ya. [Zavaleen, M.IA.], kand.istor.nauk

Scientific conference on the history of medicine and the protection
of health in White Russia. Vestsi AN BSSR, Ser. biial. nav. no. 4:144-
147 '60. (MIRA 14:1)
(White Russia--Medicine--Congresses)

ZAVEL'GEL'SKIY, D. D.

PA 14.49754

USSR/Medicine - Stomach, Rupture Aug 48
Medicine - Flatulence

"Case of Gastrorrhesis Caused by Carbonic Acid Gas," D. D. Zavel'gel'skiy, Propedeutics Surg Clinic, Gor'kiy Med Inst imeni S. M. Kirov, 1 p

"Khirurgiya" No 8

Gastrorrhesis is a rare occurrence. Describes case in detail.

14/49754

ZAVEL'GEL'SKIY, L.M.

PETROV, G.S., doktor tekhnicheskikh nauk, professor; VIASOVA, K.N.,
kandidat tekhnicheskikh nauk; RODIVILOVA, L.A.; SHEYDINA, T.Z.,
inzhener; ZAVEL'GEL'SKIY, L.M., inzhener

New shoe adhesive based on polyamide resins. Leg.prom.15 no.8:
31-33 Ag '55. (MLRA 8:10)

1. Mladshiy nauchnyy sotrudnik Nauchno-issledovatel'skogo insti-
tuta plasticheskikh mass. (for Rodivilova)
(Shoe industry) (Resins, Synthetic)

GRIGOROVICH, R.P., inzhener; ZAVEL'QHL'SKIY, L.M., inzhener.

New methods and dyes for branding footwear parts. Leg. prom.16
no.1:35-36 Ja '56. (MLBA 9:6)
(Shoe industry)

ZAVEL'GEL'SKIY, L.M.

Method of moistening leather shoe uppers. Obm. tekhn. opyt.
[MLP] no.37:15-16 '57. (MIRA 12:9)
(Shoe manufacture)

Z. H. L. 1000
BADANINA, A.I.; ZAVEL'GEL'SKIY, L.M.; KOLOSOVA, G.I.; MEL'NIK, Ye.M.

Improving the appearance of artificial leather. Leg.prom.17
no.9:16-17 S '57. (MIRA 10:12)
(Leather, Artificial)

ZAVEL'GEL'SKIY, L.M.; USTINOVA, V.M.; SHEYDINA, T.S.

Synthetic glues for shoe manufacture. Kosh.-obuv.prom. no.9:
34-35 S '59. (MIRA 13:2)
(Glue) (Shoe manufacture)

ALEKSEYENKO, V.I.; CHEKRIZOVA, A.P.; MISHUSTIN, I.O.; ZAVEL'GEL'SKIY, L.M.;
L'VOVA, L.V.; SHEYDINA, T.Z.; KREKSHINA, G.L.

New quick-setting adhesive for gluing soles. Kozh.-obuv.prom.
4 no.3:18-20 Mr '62. (MIRA 15:5)

(Adhesives)
(Shoe manufacture)

VLASOVA, K.N.; CHUDINA, L.I.; ZAVEL'GEL'SKIY, L.M.; GULYAYEVA, S.I.; BAKHAREVA,
L.T.

Use of thermoplastic glue based on low-molecular polyamide resins in
shoe manufacture. Kozh.-obuv. prom. 6 no.8:30-31 Ag '64.
(MIRA 17:10)

PLINATUS, A.A.; ZAVEL'GEL'SKIY, L.M.

Chemicalization of production in shoe factories. Kozh.-obuv. prom.
7 no.8:26-27 Ag '65. (MIRA 18:9)

IRZHEVSKIY, V.P., inzh.; KOMYKO, A.I., inzh.; BATOVA, A.G., inzh.; ZAVELION,
G.Ye., inzh.; GELLER, S.L., inzh.

Automatic control of the operation of vessels in a dry ice plant.
Khol.tekh. 40 no.3:47-48 My-Je '63. (MIRA 16:9)
(Ice industry) (Automatic control)

ZAVEL'NYUK, N. F.

SINITSINA, F.F., kandidat meditsinskikh nauk; ZAVEL'NYUK, N.F.

Case of in vivo diagnosis of polycystoma of the lungs. Vrach.delo
no.4:405 Ap '57. (MIRA 10:7)

1. Gospiatal'naya terapevticheskaya klinika (sav. - prof. F.F.Playd)
Vinnitskogo meditsinskogo instituta.
(LUNGS--TUMORS) (CYSTS)

5(3)

AUTHORS:

Mazarov, I. N., (Deceased), Prostakov,
N. S., Zavel'skaya I. G., Mikheyeva, N. N.

SSSR/113-58-3-13/20

TITLE:

Heterocyclic Compounds (Geterotsiklicheskiye sovedineniya)
Synthetic Anaesthetics (Sinteticheskiye obezbolivayushchiye
veshchestva) 1-β-N-Morpholine-Ethyl-2,5-Dimethyl-4-Phenyl-
4-Propionyl-Oxy-Piperidine (1-β-N-Morfolinoetil-2,5-
dimetil-4-fenil-4-propionoksipiperidin)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimiches-
kaya tekhnologiya, 1958, Nr 3, pp 69 - 74 (USSR)

ABSTRACT:

The introduction of the morpholine residue into the
molecule of a physiologically active substance often
increases its activity and sometimes even leads to
the formation of new physiological properties. Synthetic
analgesics of high activity are known which also
contain a morpholine residue. Examples are given
(Refs 1-9). Acetate and benzoate hydrochlorides of
1-β-oxy-ethyl-2,5-dimethyl-4-piperidon as well as
the benzoate hydrochloride of 1-β-oxy-ethyl-2,5-di-
methyl-4-piperidol were synthesized for the purpose

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Heterocyclic Compounds. Synthetic Anaesthetics.

SOV/153-58-3-13/30

1-β-N-Morpholine-Ethyl-2,5-Dimethyl-4-Phenyl-4-Propion-Oxy-Piperidine

of pharmacological tests. A Schiff's base is formed in quantitative yield from piperidon and aniline: 1-β-oxy-ethyl-2,5-dimethyl-4-phenyl-imino piperidine. The substitution of the oxy group of 1-β-oxy-ethyl-2,5-dimethyl-4-piperidon by chlorine by means of thionyl chloride in dioxane dichloro ethane and chloroform without solvents using the free base of piperidon and its hydrochloride takes place under the formation of considerable amounts of resin-like substances. The hydrochloride of 1-β-chloro-ethyl-2,5-dimethyl-4-piperidon was synthesized in a yield of only 10-11%. On the other hand, the hydrobromide of 1-β-bromo-ethyl-2,5-dimethyl-4-piperidon is formed in a yield of up to 80%. Free bases of the corresponding halogen derivatives are separated from halogen hydrates due to the treatment with aqueous soda solution; the product is well soluble in ether. The free bases cannot be isolated in vacuum, as already in a slight heating or on a longer storing a crystalline, highly hygroscopic substance unsoluble

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Heterocyclic Compounds. Synthetic Anaesthetics.

SOV/153-50-3-13/30

1-β-N-Morpholine-Ethyl-2,5-Dimethyl-4-Phenyl-4-Propion-Oxy-Piperidine

in ether is precipitated from the ether solution. 1-β-N-morpholine-ethyl-2,5-dimethyl-piperidon was synthesized by heating the 1-β-bromo-ethyl-2,5-dimethyl-4-piperidon-hydrobromide with morpholine in dioxane. Furthermore 1-β-N-morpholine ethyl-2,5-dimethyl-4-phenyl-4-piperidol was isolated by the interaction of piperidon with phenyl lithium and esterified by means of propionic acid chloride. The propionate hydrodichloride of 1-β-N-morpholine-ethyl-2,5-dimethyl-4-phenyl-4-piperidol is an analog of promedol (propionate hydrochloride of 1,2,5-trimethyl-4-phenyl-4-piperidol (Ref 10) and was tested as to its anaesthetic effect. According to data supplied by the laboratory of Professor M.D.Mashkovskiy (Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut= All Union Scientific Chemical and Pharmaceutical Research Institute) the propionate hydrodichloride synthesized has a considerably stronger analgesic effect than morphine. In this effect it is equal to promedol but has a somewhat higher toxicity. Detailed results of the pharmacological

Card 3/4

Heterocyclic Compounds. Synthetic Anaesthetics.

SOV/153-58-3-13/30

1- β -N-Morpholine-Ethyl-2,5-Dimethyl-4-Phenyl-4-Propion-Oxy-Piperidine

investigations will be published separately. An experimental part follows. There are 11 references, 2 of which are Soviet.

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