Solid - state detectors for ...

pulse-height, the signal - to - noise ratio and the energy resolution upon the load resistance and bias voltage. The best resolution observed was approx. 7%; however, it is stated that it may be due to a contribution from the thickness of the alpha-source. Professor G.N. Flerov is mentioned in connection with the advice given to the authors. There are 9 figures and 9 references: 1 Soviet-bloc and 8 non-Soviet-bloc . The most recent references to the English-language publications read as follows: G. Dearnaley and A.B. Whitehead, Nucleonics, 19, N 1 (1961); T.A. Love, et.al., ORNL Report, 3016, 1960; Avivi and Vavin, Rev. Sci. Instrum. v. 31, N 3 (1960).

ASSOCIATION: Instytut badań jądrowych PAN, Warszawa, Dział techniki reaktorowej (Institute of Nuclear Research, PAS, Warsaw, Reactor Engineering Division)

SUBMITTED: June, 1961

Card 2/2

CHWASZCZEWSKA, Janina; CHWASZCZEWSKI, Stefan; DYBOWSKI, Kazimierz

Silicon nuclear radiation detectors. Przegl elektroniki 3 no.6:349-352 Je '62.

1. Zaklad I-B Fizyki Jadrowej i Zaklad IX - Instytut Badan Jadrowych, Warszawa.

CHWASZCZEWSKI, Stefan

Interaction of the high-frequency electromagnetic field with the plasma cylinder. Nukleonika 7 no.6:369-377 '62.

1. Institute of Nuclear Research, Polish Academy of Sciences, Warsaw, Department of Nuclear Technology.

CHWASZCZEWSKI, S.

ACCESSION NR: AP4015318 P/0046/64/004/001/0019/0029

AUTHOR: Chwaszczewski, S. (Khvashchevski, Stefan)

TITLE: Probe measurements of characteristics of plasmoids from a coaxial injector

SOURCE: Nukleonika, v. 4, no. 1, 1964, 19-29

TOPIC TAGS: plasma probe measurements, coaxial plasma injector, electron temperature, plasma density, plasmoid velocity

ABSTRACT: The coaxial Marschall-type injector (Marschall, J.: Phys. of Fluids 3, 135, 1960) was used by the authors for the study of plasmoid acceleration. The parameters of emitted plasmoids were measured at the trigger point. The discrepancy between results obtained here and those of other researchers can be explained by the evident existence of two kinds of plasmoids, namely slow and fast ones. A gas wave is infused into the injector through a valve, whereupon a discharge takes place and the generated plasma is accelerated out of the tube by action of a magnetic field. The construction of the injector is shown in Fig. 1 of Enclosure 1; its operating characteristics are: supply current frequency - 210 kc, discharge current per volt of initial capacitor voltage - 6 amp (during maximum

Card 1/3

of the first half-period), working voltage of injector capacitor - up to 15 kv. Under normal conditions, the volume of gas entering through the valve per pulse was found to increase at a fast rate with increasing valve capacitor voltage. The velocity of plasmoids was measured by means of two probes and analyzed on the oscilloscope. In addition, time-distance diagrams were plotted which show the difference between slow and fast plasmoids. The electron temperature of each type was determined on the basis of the probe current-voltage characteristics. The plasma density was measured in a similar manner and calculated by the classical method (Lev, L., "Osnovny*ye protsessy* elektricheskich razryadov v gazach" - Basic Processes of Electrical Discharges in Gases, Gos. Izd. Tekhn. Teor. Literatury*, Moscow, 1950) in relation to the ion velocity. The radial distribution of plasma density was established by means of five probes located within the central zone of the chamber. On the basis of all these measurements, it is possible to select the optimum performance parameters for the injector. This, in turn, will facilitate the design of a system for further plasma acceleration.

"The authors considers it his pleasant duty to thank Lecturer I. M. Podgorny*y for suggesting this subject and for his valuable council." The original article contains 9 figures and 5 formulas.

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000309210015-0"

ACCESSION NR: AP4015318

ASSOCIATION: Instytut badan' jadrowych, Wydzial fizyki reaktorow (Institute of Nuclear Research, Department of Reactor Physics), Warsaw-S'wierk

SUBMITTED: 25Oct63 DATE ACQ: 13Mar64 ENCL: 04

SUB CODE: PH, SD NO REF SOV: 001 OTHER: 005

Card 3/3

L 45052-65 EWT(m) Peb DIAAP

ACCESSION NR: AP5014460 PO/0046/64/009/11-/0897/0900

20
19
B

AUTHOR: Chwaszczewski, Stefan; Dybowski, Kazimierz

TITLE: Neutron impulse generator 19

SOURCE: Nukleonika, v. 9, no. 11-12, 1964, 897-900

TOPIC TAGS: neutron, pulse generator/IGN-200 pulse generator

Abstract: This communication describes model IGN-200 neutron impulse generator designed and built at the Institute. It is intended for the study of neutron diffusion in multiplying and moderating media. The wide range of generated impulse lengths and of their rate of repetition make the instrument suitable for other applications too. The neutrons are produced by bombarding a tritium target with accelerated deuterons; the neutron flux is modulated by modulating the deuteron flux in the accelerator. The generator output is 10 neutrons per microsecond, their energy is 14 Mev, the impulse width ranges from 1 microsecond to infinity, their rate of repetition can vary from 0 to 1.5 Ko. The apparatus contains an ion source of the THONEMANN type, and is provided with a power supply, steering, controls,

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L 45052-65

ACCESSION NR: AP5014460

a cooling system, a vacuum system and a meter panel. The diffusion parameters of neutrons in water were already measured with satisfactory results. "The authors extend their thanks to Master Engineer W. Dabek for his valuable consultation by the construction of the generator." Orig. art. has 4 figures.

ASSOCIATION: Instytut Badan Jadrowych, Warsaw-Swierk (Institute of Nuclear Research)

SUBMITTED: 10Mar64 ENCL: 00 SUB CODE: NP

NO REF SOV: 000 OTHER: 000 JPRS

Card 2/2 TMB

CHWAT, M.

Progress in the field of protective nutrition in industry with special reference to aromatic nitro and amino compounds. Med. pracy 4 no.3:223-228 1953. (CIML 24:5)

1. Of the Institute of Industrial Medicine (Director -- Prof. E. Paluch, M. D.) in Lodz.

PALUCH, E.; CHWAT, M.; PALUCH, J.

Attempted application of conditioned reflex method for determination of threshold concentrations of carbon disulfide in experimental animals. Acta physiol.polon 6 no.1:57-64 1955.

1. Z Instytutu Medycyny Pracy w Lodzi. Dyrektor: prof. dr E. Paluch.

(REFLEX, CONDITIONED,
determ of threshold concentration of carbon disulfide in animals)
(CARBON DISULFIDE, toxicity,
threshhold concentrations in animals, conditioned reflex technic of determ.)

ALICHNIEWICZ, Andrzej; CHWAT, Stefan; GAWINSKA-OSTROWSKA, J.

Polips of the stomach. Polski tygod. lek. 10 no.8:230-233 21 Feb 55.

1. Z II klin. chir. A.M. w Lodzi; kier. prof. dr. J.Rutkowski, i z II. klin. chor. wewn. A.M. w Lodzi; kier. prof. dr. J.Jakubowski.

(STOMACH, neoplasms
polypi, diag. & pathol.)
(POLYPI
stomach, diag. & pathol.)

CHWAT, Stefan

Kidneys transplantation. Polski tygod. lek. 10 no.31: 1034-1036 1 Sept 55.

1. Z II Kliniki Chirurgicznej A.M. w Lodzi; kierownik: prof. dr. J. Rutkowski.
(KIDNEYS, transplantation.

CHWAT, Stefan

Kidneys transplantation. Polski tygod. lek. 10 no.32: 1063-1066 8 Aug 55.

1. Z II Kliniki Chirurgicznej A.M. w Lodzi; kierownik: prof. dr. J. Rutkowski. Panstw. Szpital Kliniczny A.M. w Lodzi, II Klin. Chirurg., ul. Sterlinga nr 1/3.
(KIDNEYS, transplantation)

CHWAT, Stefan; ZALECH, Henryk

Intestinal obstruction in women after small pelvis operation.
Polski przegl.chir. 27 no.7:695-696 July '55.

1. Z II Kliniki Chirurgicznej A.M. w Lodzi. Kierownik: prof. dr J. Rutkowski.

(INTESTINAL OBSTRUCTION, etiology and pathogenesis
small pelvis surg.)
(PELVIS
small surg.causing intestinal obstruct.)

CHWAT, Stefan

Value of aspiration of the prostate. Polski przegl.chir. 27 no.10:1003-1008 Oct. '55.

1. Z II Kliniki Chirurgicznej A.M.w Lodzi Kierownik: prof. dr. J. Rutkowski. Lodz, ul. Jaracza 4.
(PROSTATE,
biopsy, value)
(BIOPSY,
prostate, value)

CHWAT, S.

Enlargement of urinary bladder with ileal loop. Postepy chir. 3:75-83 1956.

1. Z II Kliniki Chirurgicznej A.M. w Lodzi Kier. prof. dr. J. Rutkowski.
(BLADDER, surg.
substitute bladder with ileal loop, indic. & technic (Pol))

CHWAT, Stefan

Diagnostic puncture of the prostate in cancer. Urol. polska 9:47-49 1956.

1. Z II Kliniki Chirurgicznej A.M. w Łodzi. Kierownik prof. dr. J. Rutkowski.
(PROSTATE, neoplasms,
puncture, diag. value (Pol))

CHWAT, S.

RUTKOWSKI, Jerzy; CHWAT, Stefan; ADAMSKI, Stanislaw

A case of excision of pulmonary lobe due to a late single metastasis of renal cancer. Urol. polska 10:99-107 1956.

1. Z II Kliniki Chirurgicznej A. M. w Lodzi. Kierownik: prof. dr J. Rutkowski.

(LUNG NEOPLASMS, Case reports
metastatic from kidney, nephrectomy & lobectomy (Pol))
(PNEUMONECTOMY, in var. dis.
cancer, metastatic from kidney, lobectomy (Pol))
(KIDNEYS, neoplasms
metastasis to lung, nephrectomy & lobectomy (Pol))

CHWAT, S.

RUTKOWSKI, Jerzy; CHWAT, Stefan

Pararenal tumors. Urol. polska 10:135-148 1956.

1. Z II Kliniki Chirurgicznej A. M. w Lodzi. Kierownik prof. dr J. Rutkowski.

(KIDNEYS, neoplasms
pararenal tumors (Pol))

CHWAT S.

EXCERPTA MEDICA Sec.9 Vol.12/4 Surgery April 1958

2384. PATHOGENESIS AND PREVENTION OF OCCUPATIONAL VESICAL TUMOURS - Patogeneza i zwalczanie zawodowego raka pęcherza moczowego - Chwat S. II.Klin. Chir. A.M., Łódź - MED.PRACY. 1957, 8/3 (159-180) Tables 2 Illus. 2

New facts concerning the aetiology and pathogenesis are reported; the role of benzidine and beta-naphthylamine in the aetiology of occupational cancer of the urinary bladder is discussed in particular. During the period 1950-1955, 250 cystoscopies were carried out in 162 workers employed in different departments of an amino-dyes factory, which examinations revealed 4 cases of papilloma and 7 cases of cancer. After several years 3 patients had recurrences of the disease, 4 died. Among 30 workers in the benzidine department papilloma was diagnosed in 2 and cancer in 5. All other cases of tumour were found among persons employed in other production departments, where carcinogenic factors were few and sporadic, depending on the kind of production. Among 19 workers exposed to naphthylamine, no case of tumour was found. The exposure period of persons with urinary bladder tumour lasted for from 4 to 30 yr., the latent period from 4 to 31 yr. Pre-cancerous changes in the urinary bladder were found in 20 persons, 6 of them being workers in the benzidine department. Clinical symptoms, the principles of early diagnosis, methods of treatment and prognosis of urinary bladder tumours are discussed. The necessity of technical and medical measures in the prophylaxis is emphasized.

(IX, 5,16,17)

CHWAT, S.; PIETRASZUN, R.

Conservative therapy of suppurations of the prostate. Polski przegl. chir. 29 no.1:39-44 Jan 57.

1. Z II Kliniki Chirurgicznej A.M. w Lodzi Kierownik: prof. dr. J. Rutkowski. Lodz. ul. Jaracza 4. = Adres autorow.
(PROSTATITIS, therapy,
antibiotics & drain. in purulent cases (Pol))
(ANTIBIOTICS, therapeutic use,
prostatitis, purulent, with drain. (Pol))

KOZLOWSKI, Jan; GWIEZDZINSKI, Zenon; CHWASTEK, Marian

Value of Schneider's medium in the diagnosis of Trichomonas infection. Przegl.derm. Warsz. 47 no.6:487-493 N-D '60.

1. Z Zakladu Dermatologii i Wenerologii Studium Doskonalenia Lekarzy w Bydgoszczy, Kierownik: dr J.Kozlowski.
(TRICHOMONAS INFECTIONS diag)

CHWIALKOWSKA, Cecylia

Thrombus in aortic aneurysm simulating mediastinal tumor. Polski tygod.lek. 10 no.24:810-811 13 June '55.

1. Z Zakladu Radiologii A.M. w Lodzi; kierownik; prof. dr med. Wladyslaw Trzetrzewinski) Lodz.ul.Zamenhofa 38 m. 24.

(AORTIC ANEURYSM, complications,
thrombus, simulating mediastinal tumor)
(THROMBOSIS, complications,
aortic aneurysm with intramural thrombus simulating mediastinal aneurysm)
(MEDIASTINUM, neoplasms,
simulated by thrombus in aortic aneurysm)

CHWIALKOWSKA, Cecylia; LIPINSKA, Hanna

Case of pulmonary cyst with circulatory changes. Polski przegl.radiol.19 no.4:221-227 Oct-Dec 1955.

1. Z III Kliniki Chorob Wewnetrznych A.M. w Lodzi. Kierownik: prof. dr med. W. Markert i z Zakladu Radiologii A.M. w Lodzi Kierownik: prof. dr med. Trzetrzewinski. Lodz. ul. Zamenhoffa 38 m. 24.

(LUNGS, cysts,
congen.,causing pulm.heart dis.)
(PULMONARY HEART DISEASE, etiology and pathogenesis,
congen.cyst of lung)
(CYSTS,
lung, causing pulm.heart dis.)

CHWIALKOWSKA, Cecylia; KWIATKOWSKA, Maria

Syphylitic aneurysm of thoracic aorta with gastric cancer.
Polski tygod. lek. 11 no.8:370-371 20 Feb 56.

1. Z Zak. Radiologii A M. kier. prof. dr. med. Wladyslaw Trzetrzewinski i z III Kl. Chirur. A M w Lodzi; kier. prof. dr. med. W. Tomaszewicz Lodz, ul. Zamenhofa 38/24.
(STOMACH, neoplasms,
with syphilitic aneurysm of aorta. (Pol))
(AORTIC ANEURYSM, etiology and pathogenesis,
syphylis, with cancer of stomach. (Pol))
(SYPHILIS, CARDIOVASCULAR, complications,
aortic aneurysm with cancer of stomach. (Pol))

CHWIALKOWSKA, C.; LAUSZ, H.; VOGEL, A.; SZENDIZKOWSKI, S.

Case report of megacolon. Polski przegl. radiol. 22 no.4:211-216 July-Aug 58.

1. Z Zakladu Radiologii A. M. w Lodzi Kierownik: prof. dr W. Trzetrzewinski z III Kliniki Chirurgicznej A. M. w Lodzi Kierownik: prof dr. W. Tomaszewicz i z Zakladu Anatomii Patologicznej A. M. w Lodzi Kierownik: prof Dr. A. Pruszczynski.

(MEGACOLON, case reports
x-ray manifest. & histopathol. (Pol))

620. **Difficulties in the diagnosis of aortic aneurysm** Trudnosci rozpoznawcze tetniakow tetnicy glownej. CHWIALKOWSKA C. and KURNATOWSKI A. Zakl. Rentgenol. i Radiol.; Anat. Patol., Lodz *Pol. Przegl. radiol.* 1959, 23/2 (79–91) Illus. 21

The authors present a survey of the clinical, radiological and pathological-anatomical signs given by aneurysm of the thoracic aorta. Among 29 cases of thoracic aneurysm observed at autopsy, a clinical diagnosis had been established only in 5 cases, and had been suspected in 3 others. The authors present 11 cases of aortic aneurysm with discrepancies in the clinical and radiological diagnosis. The particular methods of the radiological examination of such cases are presented in detail.

Marciniak - Wroclaw (XIV, 18)

CHWIALKOWSKA, Cecylia; WISNIEWSKA-ROSZKOWSKA, Kinga

A case of esophageal diverticulosis. Pol. przegl. radiol. 28 no.3:257-259 My-Je '64

1. Z Zakladu Rentgenowskiego szpitala imeni Dr. K. Jonschera w Lodzi (Kierownik: lek. med. C. Chwialkowska) i z Oddzialu Wewnetrznego " szpitala imeni Dr. K. Jonschera (Ordynator: dr. med. S. Multanski).

KOCTUMBAS, Joanna; CHWIALKOWSKA-GWIZD, Bozena

Rehabilitation in a case of ectromelia. Chir. narzad. ruchu ortop. Pol. 30 no.3:323-328 '65.

1. Z Sanatorium Rehabilitacyjno-Ortopedycznego we Wroclawiu (Dyrektor: dr. Z. Krynicki).

CZERNY, Karol, mgr.; CHWIALKOWSKI, Henryk, mgr.

Observations made on Danish pharmacy. Farmacja Pol 16 no.20: 425-428 O '61.

CHWIALKOWSKI, Henryk

New methods for the qualitative evaluation of surgical plaster.
Acta pol. pharm. 18 no.6:499-507 '61.

1. Z Katedry Farmacji Stosowanej Akademii Medycznej w Lodzi
Kierownik: prof. dr F. Modrzejewski.
(PLASTER OF PARIS)

CHWIALKOWSKI, H., dr.farm.

The problem of pharmaceutical cadres. Farmacja Pol 18 no.1:9-10 Ja '62.

MIERKA, Vladimir, dr (Czechoslovakia); CHWIALKOWSKI, Henryk, dr farm.

Ultrafiltering and ultrafilters. Farmacja Pol 19 no.7:136-137 10 Ap '63.

CHWIALKOWSKI, Henryk, dr. farm.

A certain experiment. Farmacja Pol. 19 no.17/18:374; 25 S'63

MIERKA, Vladimir; ERICHLEB, Milosz (Czechoslowacja); CHWIALKOWSKI, Henryk.

Preparing apyrogenic solutions by ultrafiltration. Farmacja Pol. 19 no.19/20:401-403;25 O'63.

CHWIALKOWSKI, Henryk

Studies on the degree of swelling of various fibers employed for dressings. Acta Pol. pharm. 22 no.1:43-48 '65.

1. Z Wojskowej Akademii Medycznej w Lodzi.

PRZEDPELSKI, Stefan; CHWIALKOWSKI, Jerzy.

Mechanical obstruction following gastrectomy. Polski tygod.lek. 10 no.40:1305-1306 3 Oct 55.

1. Z oddzialo chirurgicznych Szpitala im. J.Dabrowskiego w Plocku. Plock, Szpital Miejski, ul. Kosciuszki 28.

(STOMACH, surgery,
postop. intestinal obstruction)
(INTESTINAL OBSTRUCTION?
postgastrectomy)

PRZEDPELSKI, Stefan; CHWIALKOWSKI, Jerzy

Regional anesthesia in surgical treatment of acute intestinal obstruction. Polski przegl. chir. 27 no.12:1206-1210 Dec 55.

1. Z Oddzialu Chirurgucznego Szpitala Miejskiego w Plocku Plock, Szpital Miejski im. J. Dabrowskiego.
(INTESTINAL OBSTRUCTION, surg.
anesth., regional)
(ANESTHESIA, REGIONAL, in various dis.
intestinal obstruct. surg.)

CHWIALKOWSKI, Jerzy

PRZEDPEŁSKI, Stefan; CHWIALKOWSKI, Jerzy

Treatment of perforated gastric and duodenal ulcer. Polski przegl. chir. 29 no.4:363-368 Apr 57.

1. Z Oddzialow Chirurgicznych Szpitala Miejskiego w Plocku. Adres autora: Plock, ul. Kosciuszki 28.
(PEPTIC ULCER, perforation, surg. (Pol))

PRZEDPELSKI,Stefan; CHWIALKOWSKI, Jerzy

Our experiences in the treatment of acute cholecystitis. Pol. tyg. lek. 20 no.4:140-141 25 Ja '65

1. Z Oddzialow Chirurgicznych Szpitala Miejskiego w Plocku.

PRZEDPELSKI, Stefan; CHWIALKOWSKI, Jerzy

Subcapsular hematoma of the liver. Pol. przegl. chir. 37 no.1: 55-56 Ja '65

1. Z Oddzialow Chirurgicznych Szpitala Miejskiego w Plocku.

BOROWSKA-LEHMAN, J.; KAMINSKA, M.; CHWIALKOWSKI, J.

Staphylococcal ulcero-polypous endocarditis in a 12-month old infant. K Kardiol. Pol. 5 no.2:123-128 '62.

1. Z I Kliniki Pediatrycznej AM w Gdansku i z Zakladu Anatomii Patologicznej AM w Gdansku Kierownik: prof. dr nauk med. W. Czarnocki.

(STAPHYLOCOCCAL INFECTIONS in inf & child)
(ENDOCARDITIS in inf & child)

MALECKA-DYMNICKA, St.; CHWIALKOWSKI, J.; ZIELINSKA, A.

Paroxysmal tachycardia in a 4-year-old girl probably due to Ebstein's syndrome. Pol. tyg. lek. 17 no.44:1713-1717 29 O '62.

1. Z I Kliniki Chorob Dzieciecych AM w Gdansku; kierownik: prof. K. Erecinski i z Zakladu Radiologii AM w Gdansku; kierownik: prof. dr W. Grabowski.
(EBSTEIN'S ANOMALY) (TACHYCARDIA PAROXYSMAL)

CHWILCZYNSKI, Jan

The export of pharmaceuticals. Przem chem Special issue: 43-44 '58.

CHWILOC, P.

Welded frames for wheels of a mobile loading platform.

P. 171. (Przeglad Spawalinictwa, Vol. 8, no. 7, July 1956, Warszawa, Poland)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7,no. 2,
February 1958

CHWIROT, R

BANDURSKI, Albin; CHWIROT, Roman

Unusual case of post-traumatic arteriovenous fistula of the neck.
Klin.oczna 25 no.1:49-58 1955.

1. Z Oddzialu Chirurgicznego Szpitala Wojewodzkiego w Zielonej Gorze Ordynator: dr. med. A. Bandurski i z Oddzialu Ocznego. Ordynator: dr med. R. Chwirot.
(ARTERIES, CAROTID, fistula
arteriovenous, jugulocarotid, traum.)
(VEINS, JUGULAR, fistula,
arteriovenous, jugulocarotid, traum)
(FISTULA, ARTERIOVENOUS,
jugulocarotid, traum.)

CHWIROT, Roman

A case of Crouzon's disease (dysostosis craniofacialis). Klin.oczna 29 no.3:305-309 '59.

1. Z Kliniki Ocznej A. M. w Poznaniu Kierownik: prof. dr med. A. Kwaskowski.
(HYPERTELORISM case reports)

CHWIROT, Roman

On methods for clinical determination of color of the optic papilla. Klin. oczna 32 no.4:403-406 '62.

1. Z Kliniki Ocznej Pomorskiej AM w Szczecinie. Kierownik: prof. dr med. W. Starkiewicz.
(OPTIC NERVE) (OPHTHALMOSCOPY)

CHWIROT, Roman

Complete extirpation of a post-traumatic cyst of the iris adherent to the cornea and the lens. Klin. oczna 33 no.1: 63-68 '63.

1. Z Kliniki Ocznej Pomorskiej AM w Szczecinie Kierownik: prof. dr med. W. Starkiewicz.
(IRIS) (EYE INJURIES) (CYSTS)
(SURGERY, OPERATIVE) (CORNEA)
(LENS, CRYSTALLINE)

CHWIROT, Roman

Histomorphological changes following experimental section of the optic nerve in the dog. Roczn. pom. akad. med. Swierczewski 9:293-308 '63.

1. Z Kliniki Okulistycznej Pomorskiej Akademii Medycznej Kierownik: prof. dr med. Witold Starkiewicz.
(OPTIC NERVE) (HISTOLOGY) (PHYSIOLOGY)

CHWISTEK, A.

Modernization of the carbide plant in Chorzow. Przem chem 41 no.10:598 O '62.

CHWISTEK, A.

Realization of the resolutions of the 10th Plenum of the Central Committee of the Polish United Workers Party by the Nitrogen Work in Chorzow. Przem chem 41 no.10:598 O '62.

CHWISTECKA, W.

Poliomyelitis viruses on the cultures of human tissues. I. Culture of virus poliomyelitis of Lansing type. J. Morzycki, W. Chwistecka, M. Morzycka, J. Georgiades, and Z. Kawecki (*Bull. Inst. Marit. trop. Med., Gdansk*, 1953, 5, 33—37).—Virus poliomyelitis of the Lansing type multiplies on human embryonic tissues and on the myoma cultured by Maitland's method and by the roller-tube method. It does not multiply on the placenta tissue after physiological parturition, nor on embryonic mouse tissues. The roller-tube method enables certain characteristic changes of the tissue cells, indicating the presence of virus, to be made after 3—4 days only. With immune serum it is possible to inhibit specifically the action of the virus on the tissue culture. B. VIRUS.

CHWISTECKA, W.

MORZYCKI, J.;CHWISTECKA, W.;MORZYCKA, M.;GEORGIADES, J.;KAWECKI, Z.

Studies on poliomyelitis virus in human tissue culture. Med. dosw. mikrob. 5 no.4:439-448 1953. (CIML 25:5)

1. Of the State Institute of Marine and Tropical Medicine in Gdansk.

CHWISTECKA, W.

MORZYCKI, Jerzy; CHWISTECKA, Wiktoria; MORZYCKA, Maria

Studies on poliomyelitis virus in human tissue culture. II. Culture of poliomyelitis virus Brunhilde and Leon. Med. dosw. mikrob. 6 no.4:359-366 1954.

1. Z Instytutu Medycyny Morskiej Akademii Medycznej w Gdansku.
(POLIOMYELITIS VIRUS, culture,
tissue culture, human tissue)
(TISSUE CULTURE,
culture of polio. virus, human tissue)

C HW ES+ EC KP, W

3138. Simple method of preparing serum dialysate for tissue culture. E. Borowski, W. Chwistecka, and Z. Kurylo-Borowska (*Bull. inst. mar. trop. Med., Gdansk*, 1955, 6, 211—223 (State Inst. of Marine and Trop. Med., Gdansk).—Beef plasma was dialysed and then dried at room temp. *in vacuo*. The product was dissolved in Hank's soln. This provided a better culture fluid for human embryo skin than did Hank's soln. alone. (Polish, English summary) H. G. BEVAN.

Med 3

CHWISTECKA, WIKTORIA

POLON

Toxicity of tetain. Stefan Kryński, Wiktoria Chwistecka, Edward Borowski, and Eugeniusz Becla (Inst. Med. Morskiej, Gdańsk, Poland). *Med. Doświadczalna i Mikrobiol.* 7, 155-57(1955).—*Bacillus pumilus* growing on a glucose-potato medium at 28° produces after 12-24 hrs. an antibiotic, tetain (I), with max. yield after 72 hrs. I cannot be extd. directly from the medium; it is adsorbed on charcoal, eluted with BuOH, and purified by the countercurrent distribution method. I decomp. below 100°, is yellow and hygroscopic, stable in H_2O soln., insol. in ether, $CHCl_3$, acetone, benzene, PrOH, and BuOH, sol. in H_2O, H_2O-satd. PhOH, and ethylene glycol. I has no free amino acid groups or S, does not ppt. with protein-pptg. agents, has pos. ninhydrin reaction, contains 8% N, and HCl hydrolyzate after 18 hrs. has 7.8% amino N. Intravenously 10 mg. I does not kill white mice. I. Z. Roberts

Chwistecka, W.

Investigation of the antibiotic tetain. S. Krynski, E. Borowski, W. Chwistecka, B. Becla, H. Kowir, and M. Treis (Zaklad Mikrobiol., Inst. Med. Morskiej, Gdansk). *Acta Pol. Pharm.* 12, 85-9(1955).—Tetain, an antibiotic, was obtained from glucose-potato broth inoculated at 28° with *Bacillus pumilus* which, however, did not ferment maltose or xylose and hydrolyzed gelatin to a greater degree than normal. The inoculated medium was centrifuged after 72 hrs., adjusted to pH 9.5 with Na_2CO_3, treated with 2% active C, the activity eluted with BuOH, concd. by vacuum distn., purified by adsorption on alumina, eluted with H_2O, and finally subjected to Craig counter-current distributions with the phases H_2O satd. with PhOH and PhOH satd. with H_2O until a pure product was obtained. After removing PhOH, AcOH, and CO_2 the sample was refrigerated and the colorless crystals discarded. From 1 l. of culture approx. 5 mg. of pure tetain was obtained. It was pale yellow, formless, very hygroscopic, heat labile in the dry state with greater stability in soln.; was insol. in Et_2O, $CHCl_3$, petr. ether, acetone, C_6H_6, BuOH, PrOH; sol. in MeOH, EtOH, H_2O, PhOH satd. with H_2O, ethylene glycol; had no free acid or NH_2 groups; was not pptd. by Cu, Pb, Reinecke salt, Na tungstate, picric acid; had no S, had 8% N, 7.8% amino N, gave pos. ninhydrin test, dialyzed through a collodion membrane, was insensitive to trypsin, slightly inactivated by serum, slightly toxic, not hemolytic, active against *Shigella*, *Salmonella*, *Proteus*, *Klebsiella*, *Micrococcus pyogenes* var. *aureus*, non-hemolytic streptococci. It was most active against *Shigella dysenteriae*.

L. J. Piotrowski

(5)

CHWISTECKA, Wiktoria

Affinity of poliomyelitis virus to fatty tissue. Bull. Inst. Marine Trop. M. Gdansk 7:p.58-59; Russian transl. p.59-60; English transl. p. 60-61 1956.

1. Z Panst. Inst. Med. Mors. Trop. w Gdansku.
(POLIOMYELITIS VIRUS, culture,
tissue culture, affinity to fatty tissue (Pol; Rus; English))
(TISSUE CULTURE,
cultivation of polio. virus, affinity to fatty tissue
(Pol; Rus; English))
(FATTY TISSUE,
affinity of polio. virus in tissue culture (Pol; Rus; English))

CHWISTECKA, Wiktoria; LALKO, Janina; BUTLER, Anna

Preservation of the reserve tissue material for investigations with poliomyelitis virus. Bull. Inst. Marine Trop. M. Gdansk 7:62-66; Russian transl. p. 67-70; English transl. p. 70-73 1956.

1. Z Panst. Inst. Med. Mors. i Trop. w Gdansku.
(TISSUE CULTURE,
cultivation of polio. virus, preserv. of tissue
(Pol; Rus; English))
(POLIOMYELITIS VIRUS, culture,
tissue culture, preserv. of tissue (Pol; Rus; English))

EXCERPTA MEDICA Sec 4 Vol 12/1 Med. Micro. Jan 59

232. HIBERNATION OF He-La CELLS INFECTED WITH POLIOMYELITIS VIRUS - Chwistecka W. Inst. of Marine Med., Gdansk - BULL. INST. MARINE ~~MED. GDANSK~~ 1957, 8/1-2 (21-24) Graphs 1 Tables 1

HeLa cells infected with type I poliomyelitis virus strain Ursula were kept at different temperatures. The cultures kept at 36° C. were destroyed in 24 hr. Those incubated at 32° C. showed the final effect of destruction on the 2nd day. At 28° C. there was a pronounced cytopathological effect after 7 days. Room temperature (20° C.) was critical for the HeLa cells, both inoculated and control cultures perishing after 7 days. Infected cultures which were kept at 4° C. for 14 days showed no cytopathological effect. When these tubes were transferred to 36° C. no signs of degeneration were observed in the next 3 weeks, although the cells were susceptible to a repeated inoculation with the same strain.

Versteeg - Leyden (L, 4)

CHWISTECKA, WIKTORIA

IALKO, Janina; CHWISTECKA, Wiktoria

Tissue culture of human He-La sarcoma with application to studies on poliomyelitis virus. Bull. Inst. Marine M. Gdansk 8 no.1-2:25-30 1957.

1. Z Instytutu Medycyny Morskiej w Gdansku.

(TISSUE CULTURE
of HeLa cells for polio. virus research (Pol))
(POLIOMYELITIS VIRUS, culture
on HeLa cells, tissue culture of cells (Pol))

GEORGIADES, J.; CHWISTECKA, W.

Attempts to obtain immune sera from rabbits for poliomyelitis virus diagnosis. Bull. Inst., Marine M. Gdansk 8 no.1-2:31-34 1957.

1. Z Instytutu Medycyny Morskiej w Gdansku.
(POLIOMYELITIS, immunol.
immune sera from rabbits for polio. virus diag. (Rus))

CHWISTECKA, WIKTORIA

GEORGIADES, Jerzy; CHWISTECKA, Wiktoria

Attempted production of immune sera on rabbits for diagnosis of poliomyelitis virus. Bull. Inst. Marine M. Gdansk 8 no.1-2:35-36 1957.

1. Z Instytutu Medycyny Morskiej w Gdansku.
(POLIOMYELITIS, diagnosis,
serol., prod. of immune sera on rabbits (Pol))

Chwistecka, Wiktoria

CHWISTECKA, Wiktoria

Application of glass cylinders to the colorimetric method for investigations on toxicity. Bull. Inst. Marine M. Gdansk 8 no.1-2:49-50 1957.

1. Z Instytutu Medycyny Morskiej w Gdansku.
(COLORIMETRY, appar. & instruments
glass cylinders applied to colorimetric method of toxicol. research on living tissues in vitro (Pol))

CHWISTECKA, W.

CHWISTECKA, W.; IALKO, J.

Preservation of tissue material for investigations on poliomyelitis virus. Bull. Inst. Marine M. Gdansk 8 no.3-4:189-193 1957.

1. (From the Institute of Marine Medicine, Gdansk).
(POLIOMYELITIS VIRUS, culture
freeze prep. of human tissue for virus culture, technic)

CHWISTECKI, Stanislaw, inz.; SZUBA, Wiktor, mgr inz.

Application of economical steel swedges in electrical assembling engineering. Wiad elektrotechn 28 no.7:221-222 Jl '61.

1. Elektromontaz PRE-2, Katowice.

CHWISTECKI, Stanislaw, inz.; SZUBA, Wiktor, mgr inz.

Application of economical steel swedges in electrical assembling engineering. Wiad elektrotechn 28 no.8:256-257 Ag '61.

CHWISTEK A.

POL.

546.172.E.07 : 661.525

3310

Chwistek A. Preparation of Nitrous Oxide by Thermal Decomposition of Ammonium Nitrate.

„Otrzymywanie podtlenku azotu drogą termicznego rozkładu saletry amonowej". Przemysł Chemiczny. No. 2, 1954, pp. 87—90, 3 figs.

A description is given of the decomposition of technical ammonium nitrate by direct heating of melted salt, and in a continuous process by introducing 70% aqueous solution of NH_4NO_3 into the mixture of KNO_3 and $NaNO_3$. In addition to the main reaction, some side reactions were observed, resulting in the formation of higher nitrogen oxides and nitric acid. From the direct decomposition was obtained gas containing 75.5% of N_2O, and from the continuous process — 81% of N_2O. The optimum temperature of decomposition on a laboratory scale was found to be 255—265°C. The catalytic influence of Cl^- ions on the decomposition of NH_4NO_3 was investigated, the observation being made that the presence of small quantities of Cl^- ions in a reaction medium varies the equilibrium in the direction of side reactions.

E.I.

CHWOJNOWSKI, A.; RUNGE, S.; ANDRZEJEWSKI, T.

"Infectious Bronchopneumonia of Foals." p. 507, (MEDYCYNA WETERYNARYJNA, Vol. 8, No. 11, Nov. 1952, Warszawa, Poland.)

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

CHWOJNOWSKI, A.; RUNGE, S.; DZIUBEK, T.

"From Anatomopathologic Casuistry. 1. A Calf, an Octoped Monster. 2. Serous Cyst of the Hepatic Capsule in a Calf. 3. Sarcoma of the Gum in a Dog.) p. 502, (MEDYCYNA WETERYNARYJNA, Vol. 9, No. 11, Nov. 1953, Warszawa, Poland.)

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

Country : POLAND
Category : General Biology. B
Individual Development. Fertilization.
Abs. Jour : RZhBiol., No. 3, 1959, No 9669

Author : Chwojnowski, A.; Wadrjchowicz, St.
Institut. : -
Title : A Primigravida Abdominal Bigeminal Pregnancy in a Rabbit.

Orig Pub. : Med. weterym., 1955, 11, No 12, 736-738

Abstract : No abstract.

Card: 1/1

POLAND/General Problems of Pathology. Tumors. Experimental Therapy. U-4

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 93960

Authors : Chwojnowski, A.; Wedrychowicz, St.
Inst : Not given
Title : Pathological and Anatomical Casuistry of Skin Tumors of the Goose.

Orig Pub : Med. weteryn., 1956, 12, No. 14, 233

Abstract : No abstract given

Card 1/1

CHWOJNOWSKI, A.; LOSINSKI, T.; DZIUBEK, T.; WEDRYCHOWICZ, St. (Poznan)

Milk ring test of the milk of cows immunized in adult age with strain 19. Rocz nauk roln wet 70 no.1/4:213-215 '60.
(EEAI 10:9)

(Milk) (Cattle) (Immunity) (ABR test)

POLAND

CHWOJNOWSKI, Alfons, Prof. Dr., Director of the Chair of Zoohygiene (Katedra Zoohigieny) of the WSR [Wyzsza Szkola Rolnicza, Higher School of Agriculture] in Poznan

"Conditions for Increasing Milk Production of Cows."

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 19, No 5, May 63, pp 229-234.

Abstract: Reviewing findings in this field, the author urges improved living conditions for cows, such as pleasanter sheds, sunshine, good care, better utilization of existing feed supplies, prevention of disease or nervous upsets, and frequent pregnancies as means to increase milk production of cows, as well as the proper training of sufficient personnel to bring about such conditions. There is no listing of references, although names of Soviet and Western researchers in the field are cited in the body of the article.

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L 36555-66 EWT(1)/EWP(e)/EWT(m)/EEC(k)-2/EWP(t)/ETI IJP(c) WH/WW/JD

ACC NR: AP6015761 (A,N) SOURCE CODE: UR/0048/66/030/005/0766/0768

AUTHOR: Anaskin, I.F.; Stoyanova, I.G.; Chyapas, A.F.

ORG: none

TITLE: An electron interference microscope and electron interferometer based on the UEMV-100 electron microscope /Report, Fifth All-Union Conference on Electron Micoscopy held in Sumy 6-8 July 1965/

SOURCE: AN SSSR. Izvestiya, Seriya fizicheskaya, v. 30, no. 5, 1966, 766-768

TOPIC TAGS: electron microscope, interferometer, prism

ABSTRACT: The authors very briefly describe an electrostatic biprism attachment for a UEMV-100 electron microscope, which makes it possible to operate the instrument as an electron interferometer or as an electron interference microscope. The electrostatic biprism consists of an approximately 1 micron diameter quartz fiber with a metallic coating, maintained at a positive potential of a few volts. This biprism together with a slotted diaphragm is mounted in the electron beam. For use as an electron interference microscope it is advantageous to mount the biprism as close to the objective lens as possible. It was possible to achieve satisfactory operation with the biprism as close as 3 cm to the objective gap. Photographs are presented showing

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ACC NR: AP6015761

the interference fringes obtained in the measurement of the thickness of a film, and in the measurement of the contact potential between lead and chromium. For the latter measurement, lead was deposited on part of the chromium plated quartz fiber. Orig. art. has: 5 figures.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 001/ OTH REF: 006

Card 2/2 MLP

CHYBA, E.; CHUDACEK, J.; MOLEK, J.

Production of high-pressure vessels. p. 208.

STROJIRENSKA VYROBA. (Ministerstvo tezkeho strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskych stroju) Praha, Czechoslovakia. Vol. 7, no. 5, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 10, Oct. 1959. Uncl.

VITOVSKA, A.; CHYBA, J.

Traumatic aneurysm of the central mesenteric artery successfully operated on. Cesk. gastroent. vyz. 15 no.3:183-188 My '61.

1. Chirurgicka klinika LFH, prednosta prof. dr. Emerich Polak Ustav patologicke anatomie LFH, prednosta doc. dr. Josef Stolz.
(MESENTERIC VESSELS wds & inj) (ANEURYSM surg)

MALINA, Lubor; CHYBA, Jiri

An unusual case of multiple Malherbe's epithelioma with scrotal localization. Cas. Lek. Cesk. 101 no.15:464-467 13 Ap '62.

1. Dermatovenerologicka klinika v Praze-Vinohradech, zast. prednosta MUDr. Q. Hornstein. Patologickoanatomicke oddeleni v Praze-Vinohradech, prednosta doc. dr. J. Stolz.

(SCROTUM diseases)

CHYBA, J.; JIRAN, B.

Mixed embryonic tumor of the liver in an adult. Cas. lek. cesk. 101 no.35:1070-1073 31 Ag '62.

1. Chirurgicka klinika fakulty hygienicke KU v Praze, prednosta prof. dr. E. Polak. Patologickanatomicky ustav lekarske fakulty hygienicke KU v Praze, prednosta doc. dr. J. Stolz.
(LIVER NEOPLASMS) (NEPHROBLASTOMA)

HAJEK, S.; GREGORA, Z.; STEFAN, J.; KRAL, Z.; CHYBA, J.; RUZICKA, L.; DOBRKOVSKY, M.; DOLEZALOVA, J.

Analysis of 147 fatal thermic injuries. Acta chir. plast. 5 no.3:193-204 '63.

1. Medical Faculty of Hygiene, Charles University, Prague (Czechoslovakia) Department of Pathology and Forensic Medicine Director: Doc. J. Stolz, M.D. Department of Health Organization, Medical Faculty of Hygiene, Prague Director: Prof. F. Blaha, M.D. The Burns Unit of the Clinic of Plastic Surgery, Charles University, Prague Director: Academician F. Burian.
(BURNS) (MORTALITY) (PATHOLOGY)
(ACCIDENT PREVENTION)

DVORAK, Vaclav; SCHREIBER, Bedrich; NOVOTNY, Antonin; CHYBA, Jiri

Thromboembolic complications in malignant tumors. Acta Univ. Carol. [med.] (Praha) 9 no.5:403-414 '63

1. Porodnicko-gynekologicka klinika lekarske fakulty hygienicke University Karlovy v Praze (prednosta: doc. MUDr. J. Padovec); II. interni klinika lekarske fakulty hygienicke University Karlovy v Praze (prednosta: prof. MUDr.J.Syllaba), a Ustav pro patologickou anatomii lekarske fakulty hygienicke University Karlovy v Praze (prednosta : doc. MUDr. J.Stolz)

SCHREIBER, B.; NOVOTNY, A.; DVORAK, V.; CHYBA, J.

Thromboembolic disease. II. Thromboembolic complications of myocardial infarct. Cas. lek. cesk. 102 no.5:125-130 1 F '63.

1. II. interni klinika fakulty hygienicke KU v Praze, prednosta prof. dr. J. Syllaba Porodnicko-gynekologicka klinika lekarske fakulty hygienicke KU v Praze, prednosta doc. dr. J. Padovec Ustav pro patologickou anatomii lekarske fakulty hygienicke KU v Praze, prednosta doc. dr. J. Stolz.

(MYOCARDIAL INFARCT) (THROMBOEMBOLISM)
(ANTICOAGULANTS)

LORENC, J.; JIRAN, B.; SKALA, J.; SEHR, A.; MISAK, J.; CHYBA, J.

On the prevention of postoperative pancreatitis. Rozhl. chir. 43 no.8:533-539 Ag '64.

1. Chirurgicka klinika (prednosta prof. dr. E. Polak, DrSc); rentgenologicke oddeleni (prednosta prof. dr. R. Blaha); Ustav patologicke anatomie (prednosta doc. dr. J. Stolz); lekarske fakulty hygienicke Karlovy University v Praze a Oddeleni klinicke biochemie fakultni nemocnice v Praze 10 (vedouci MUDr. J. Opplt.).

SCHREIBER, B.; DVORAK, V.; CHYBA,J.; NOVOTNY,A.

Thromboembolism. III. Pulmonary embolism as a cause of death. Vnitrni lek. 11 no.2:113-119 F '65

1. II. vnitrni klinika lekarske fakulty hygienicke Karlovy University v Praze (prednosta: prof. Dr. J. Syllaba); Porodnicko-gynekologicka klinika LFH Karlovy University v Praze (prednosta: doc. Dr. J. Padovec) a Ustav pro patologickou anatomii LFH Karlovy University v Praze (prednosta: doc. Dr. J. Stolz).

CHLUMSKY, J.(Praha 10, Srobarova 50); KREJCI, D.; CHYBA, J.

Chiari's disease. Cas. lek. Cesk. 104 no.51:1381-1386 17 D '65.

1. I. klinika nemocni vnitrnich lekarske fakulty Karlovy University v Praze (prednosta prof. dr. V. Jonas, DrSc.) a Ustav patologicke anatomie a hostologie lekarske fakulty hygienicke Karlovy University v Praze (prednosta doc. dr. J. Stolz). Submitted December 1964.

CZECHOSLOVAKIA UDC 616.233-006.6-033.2:616.419-006.443)-0794

CHYBA, J.; SCHREIBER, B.; OPPLT, J.; Pathological and Anatomical Institute, Med. Fac. of Hygiene, Charles University (Patologicko-Anatomicky Ustav Lek. Fak. Hygienicke KU), Prague, Head (Prednosta) Docent Dr J. STOLZ; 2nd Internal Clinic Medical Faculty of Hygiene, Charles University (II. Interni Klinika Lek. Fak. Hyg. KU), Prague, Head (Prednosta) Prof Dr J. SYLLABA; Biochemical Dept. Fac. Hospital (Biochemicke Odd. Fak. Nemocnice), Prague 10, Head (Vedouci) Dr J. OPPLT.

"Bronchogenic Carcinoma with Metastases into Bone and with Hyperplasmogenic Reticuloplasmacytic Reaction of the Marrow."

Prague, Casopis Lekaru Ceskych, Vol 105, No 41, 12 Oct 66, pp 1100 - 1106

Abstract [Authors' English summary modified]: A fatal case of the disease is described; an increased number of reticuloplasmacytes was found in the bone marrow, with some plasmablasts and signs of anaplasia similar to hemoblastic growth. Bone tissue was invaded. Uroprotein was detected in the serum, and in the exudate myelome paraprotein. Connection with malignant growth is discussed. 15 Figures, 31 Western references. (Ms. received Dec 65).
1/1

CHYBA, Lubomir

Ligation of an anomalous hepatic artery as a complication in intra-abdominal surgery. Rozhl. chir. 40 no.8:552-556 Ag '61.

1. Chirurgicke oddeleni KUNZ Karlovy Vary, prednosta prim. dr. V. Wachtfeidl.

(HEPATIC ARTERY abnorm)

CHYBA, L.

The presence of double acute abdominal incidents in the same patient. Rozhl. chir. 42 no.6:412-416 Je '63.

(ABDOMEN, ACUTE) (INTESTINAL OBSTRUCTION)
(PERITONITIS) (PEPTIC ULCER PERFORATION)
(APPENDICITIS) (PANCREATITIS)
(INTESTINAL PERFORATION)

New derivatives of chromone-2-carboxylic acid as coronary-dilatation agent. Zdeněk J. Vejdělek, Václav Trčka, Oldřich Chyba, and Hedvika Chybová (Farm. biochem. [illegible], Prague, Czech.). *Chem. Listy* 47, 575–9 (1953).—Esterification of *chromone-2-carboxylic acid* (I) yielded esters which reacted with amines to form amides of I, some of which were found to have greater coronary-dilatating action than khellin. A mixt. of 1 mole *o*-HOC_6H_4Ac, 2 moles $(EtOCO)_2$, and 23 g. Na in 500 ml. EtOH heated 3 hrs. at 60–70°, the cryst. Na salt filtered with suction, boiled briefly with 800 ml. EtOH and 140 ml. concd. HCl (or with 800 ml. 25% HCl in EtOH), the NaCl filtered off, washed with 200 ml. EtOH, and the filtrate poured into 6 l. H_2O gave 80–3% *Et ester* of I, m. 71–2° (from 50% EtOH). Hydrolysis of 10 g. ester, by refluxing 90 min. with 25 ml. EtOH and 25 ml. HCl gave 8.2 g. (95%) I, m. 239–40° (crude), 250–2° (decompn.) (from EtOH). Esterification of I with the corresponding HO compd. in the presence of H_2SO_4 gave the following esters (m.p. and % yield): *Me ester*, 113°, 78; *Bu ester*, 44°, 68; *iso-Am ester*, 51°, 60; *cyclohexyl ester*, 94° (from Me_2CO), $b_{0.4}$ 200°, 59; and *Ph ester*, 104–5° (from EtOH), 18. The *$MeSCH_2CH_2$ ester*, m. 80° (from ligroine), was prepd. in 58% yield by refluxing 0.03 mole I with 0.8 g. Na in 60 ml. EtOH 30 min., treating with 0.03 mole $MeSCH_2CH_2Cl$ in 40 ml. EtOH, refluxing 5 hrs., filtering off the NaCl, washing it with abs. EtOH, evapg. the filtrate to dryness, dissolving the residue in Et_2O, washing with 5% $NaHCO_3$, evapg. the ether, and crystg. the product. The Et ester of I (0.02 mole) allowed to stand 10 days with 0.06 mole of the amine in 50 ml. EtOH (*method A*), refluxed in 60 ml. PhMe with azeotropic removal of EtOH (*method B*), or melted with the amine at 110–20° (*method C*), gave the *amides* of I (the amine, method, % yield, and m.ps. listed): 2-aminopyridine, *A*, 79, 207–9° [*B*, 50, 210–11°; *C*, 66, 206–8° (from EtOH)]; 3-aminopyridine, *A*, 45, 202°; 4-aminopyridine, *A*, 50, 250–1°; $NHEt_2$, *B*, 81, 150–1°; $NH_2CH_2C{:}CH.CH{:}CH.N{:}CH$, *B*, 64, 210°.

M. Hudlický

CHEMICAL

3

5-Ethyl-5-(1-methylbutyl)-2-thiobarbituric acid and its sodium salt. Jaroslav Welchet, Oldřich Chyba, and Jiří Sičhárt. Czech. 85,936, Sept. 15, 1956. Adding 152 g. finely ground $CS(NH_2)_2$ and subsequently 197 g. Me ethyl-(1-methylbutyl)cyanoacetate to MeONa prepd. from 40 g. Na and 411 ml. MeOH, heating the mixt. 4 hrs. to 90°, distg. MeOH almost to dryness below 100° in vacuo, cooling the residue, dissolving in 2 l. ice-cold H_2O, filtering the soln. with 10 g. C, passing CO_2 into the soln. until pH has reached 7.5, seps. the pptd. crude imino acid (300–450 g.) and adding to a mixt. contg. 138 ml. concd. H_2SO_4 in 4 l. H_2O, boiling 2 hrs. under stirring, washing the resulting ppt. with H_2O, and drying at 60° gave 157 g. title compd., m. 157.5–59° (50% EtOH).

L. J. Urbánek

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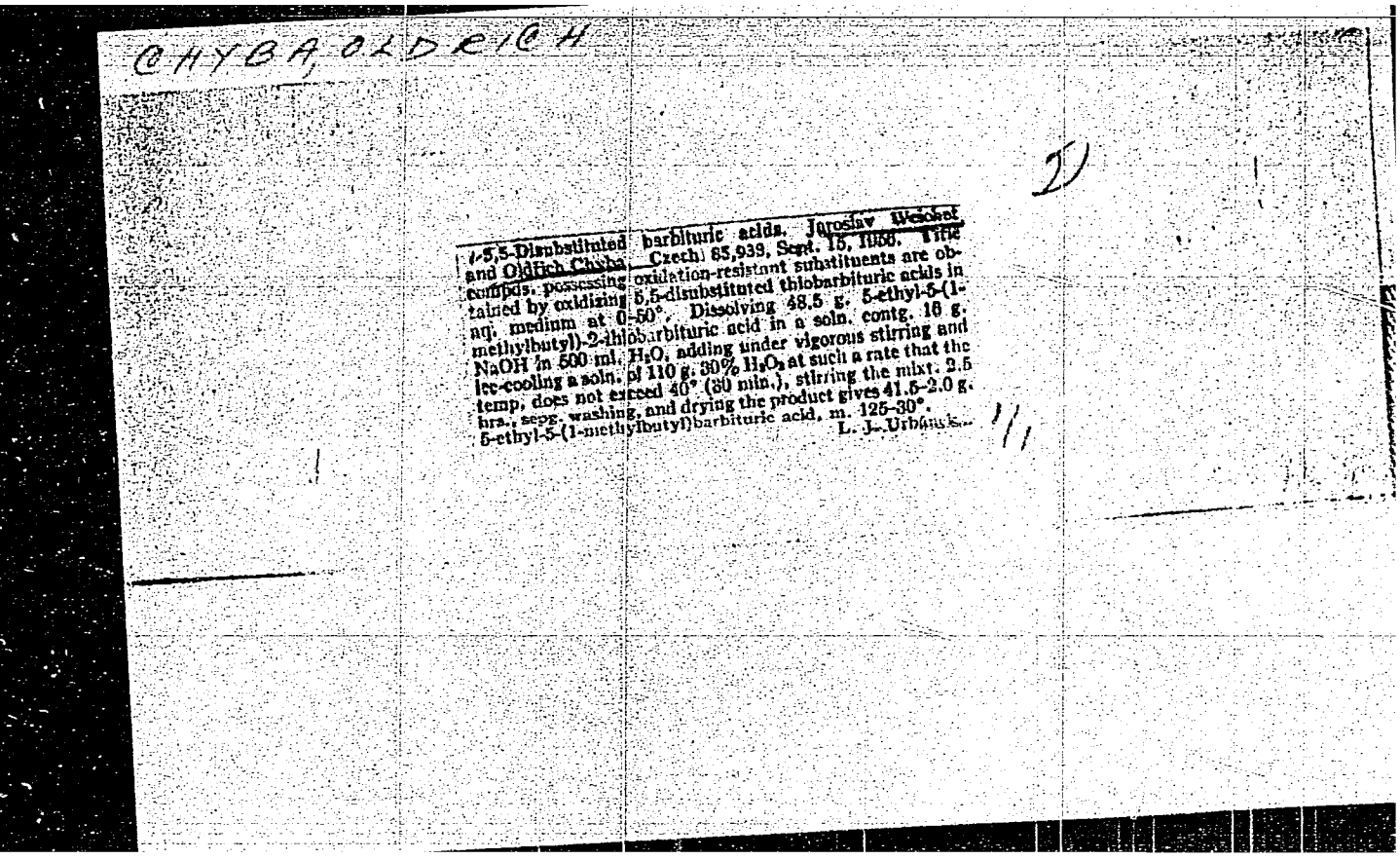

CHYBA, OLDRICH

2)

1-5,5-Disubstituted barbituric acids. Jaroslav Weichet and Oldřich Chyba. Czech. 85,939, Sept. 15, 1958. The compds. possessing oxidation-resistant substituents are obtained by oxidizing 5,5-disubstituted thiobarbituric acids in aq. medium at 0-50°. Dissolving 48.5 g. 5-ethyl-5-(1-methylbutyl)-2-thiobarbituric acid in a soln. contg. 16 g. NaOH in 500 ml. H_2O, adding under vigorous stirring and ice-cooling a soln. of 110 g. 30% H_2O_2 at such a rate that the temp. does not exceed 40° (30 min.), stirring the mixt. 2.5 hrs., sepg., washing, and drying the product gives 41.5-2.0 g. 5-ethyl-5-(1-methylbutyl)barbituric acid, m. 125-30°.
L. J. Urbánek

CHYBA, OLDRICH

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Esters of alkyl(1-methylbutyl)cyanoacetic acid. Jaroslav Weichet and Oldřich Chyba. Czech. 86,301, Mar. 15, 1957. Condensing MeCH:CHAc (I) with $NCCH_2CO_2R$ (II) gives MeCH:CHCMe:C(CN)CO_2R (III) which is hydrogenated and the product, PrCH(MeCH(CN)CO_2R (IV), alkylated to give the title compd. (V). The procedure can be simplified by leaving out the isolation of III to give IV in 65% over-all yield. I is obtained by condensing Me_2CO with MeCHO and dehydrating the resulting MeCH(OH)CH_2Ac (VI). Adding dropwise at 10–15° under stirring in 2 hrs. 440 g. Me_2CO and 176 g. MeCHO to 600 g. dry Me_2CO and 12 g. dry PhONa, stirring at 18–20° 4 hrs., and keeping the mixt. overnight, adding 6 g. finely ground $(CO_2H)_2$, stirring 1 hr., sepg. the pptd. $(CO_2Na)_2$, and distg. the filtrate *in vacuo* give 60–5% VI, b_{18} 68–78°. VI (400 g.) distd. with 0.2–0.5 g. iodine in a short column yields I, b. 120–2°, in 36–40% yield (calcd./MeCHO). Refluxing 20 g. I, 34 g. II (R = Me), 50 ml. C_6H_6 or C_2HCl_3, 2.8 g. $AcONH_4$, and 4 ml. AcOH until the sepn. of H_2O has ceased (4–5 hrs.), washing the mixt. with H_2O, evapg. the solvents, and distg. the residue give 23 g. III (R = Me), b_4 125–7°; III (R = Me) reduced in EtOH with 2–3% 10% Pd/C gives 90% IV (R = Me), b_{13} 110–21°. According to the simplified procedure, 115 g. II (R = Et), 96 g. I, and 15 g. AcONa is added to the catalyst prepd. by reducing with H 15 ml. $PdCl_2$ soln. (5% Pd) and 7.5 g. C in 200 ml. MeOH, the mixt. shaken 10–15 hrs. at room temp./160 mm. H pressure, the MeOH evapd., the residue extd. with C_6H_6, and the ext. distd. to give 104 g. pure IV (R = Et), b_{12-13} 118–21°. Adding 174 g. IV (R = Me) to 23.8 g. Na in 243 ml. dry MeOH, adding dropwise to the mixt. 125 g. EtBr at 50–60° in 30–40 min., boiling until the reaction is neutral (about 2 hrs.), distg. the MeOH, cooling, dilg. with H_2O to dissolve NaBr, extg. the oily layer with C_6H_6, and distg. give 184 g. Me ester of V (alkyl = Et), b_{18} 129–31°.

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TITLE: Ionization currents induced by alpha radiation in liquid hexane and heptane

SOURCE: Acta physica polonica, v. 30, no. 6, 1966, 927-931

TOPIC TAGS: ionization, ionization current, alpha radiation, hexane, heptane, hydrocarbon, electrometer

ABSTRACT: The purpose of the study was to find the dependence of the ionization current intensity on the activity of alpha radiation and efficiency of charge collection in liquid hexane and heptane as a function of the electric field. The results of measurements of the intensity of ionization currents induced by alpha particles from ^{239}Pu in hexane and heptane are presented. The effect of simultaneous ionization by alpha particles and gamma radiation from ^{137}Cs has been investigated. The dependence of the ionization current on activity of the source of alpha radiation

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was found to be linear. A detailed description of the measuring apparatus is available in a previous paper [Chybicki, M., Gzowski, O., Z. Phys. Chem., 1966]. The currents were measured by the compensation method with the use of a dynamic electrometer made by VEB-Dresden. The author expresses his indebtedness to Prof. I. Adamczewski for indicating the line of research, for his attentive advice and discussion during the performance of the work. Orig. art. has: 5 figures. [Based on author's abstract] [WA-095] [KS]

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Card 2/2

CHYBIK, J.

TECHNOLOGY

periodicals: RUDY Vol. 6, no. 9, Sept. 1958

CHYBIK, J. Contribution of mine research to the solution of tectonics of Barrandium. p. 298.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 5
May 1959, Unclass.

CHYBOVÁ, Hedvika

CZECH

Pyridine derivatives of pharmacological interest. VII. New esters of nicotinic acid. Zdeněk J. Vejdělek, Václav Trčka, Hedvika Chybová, and Luboš Tůma (Farm. biochem., Prague, Czech.). *Chem. Listy* 47, 49–58(1953); cf. *C.A.* 47, 11101i.—S-Substituted 2-mercaptoethylesters of nicotinic acid were prepd. by the following series of reactions: RX (X = 0.5 SO_4, Cl, Br) $\xrightarrow{A}$ $RSC(:NH)NH_2HX$ $\xrightarrow{B}$ RSH $\xrightarrow{C}$ $RSCH_2CH_2OH$ $\xrightarrow{D}$ $RSCH_2CH_2O_2CC:CH.CH:CH.N:CH$. Some of the esters had a considerable peripheral vasodilatation effect which was highest with R = Me, and lowest with R = C_6H_{13}. The branched alkyls showed the same effect as the straight-chain alkyls, and cyclohexyl approx. the same effect as Ph and pyridyl. (*A*) RX (0.11 mole) in an equal vol. of EtOH was dropped into a suspension of 0.1 mole $CS(NH_2)_2$ in 40 ml. boiling EtOH, the mixt. refluxed 6 hrs., the volatile compds. were evapd. *in vacuo*, the residue was allowed to crystallize, and the crude isothiuronium salts were crystd. from Me_2CO-petr. ether, and their picrates from H_2O (R, X, % yield, m.ps. of the HX salts and picrates given): *Et* (I), 0.5SO_4, 97, 199–201°, —; *Pr* (II), *Br*, 92, 59–61°, —; *iso-Pr* (III), *Br*, 87, 92 6°, 199°; *Bu* (IV), *Br*, 94, 68–70°, 170°; *iso-Bu* (V), Br, 99, 97°, 167–8°; *iso-Am* (VI), Br, 94, 83–5°, 170–1°; C_6H_{13} (VII), *Br*, 91, 75–8°, 148°; C_8H_{17} (VIII), *Cl*, 94, 107–9°, 134°; *cyclohexyl* (IX), —, 93, 200–2°, 174–5°; *Ph* (X), —, —; $PhCH_2$ (XI), *Cl*, 92, 149°, —; $PhCH_2CH_2$ (XII), *Br*, 92, 180–1°, —; Ph_2CH (XIII), *Br*, 92, 199–100°, 137–8°; Ph_3C (XIV), *Cl*, 90, 173–5°, 196°. (*B*) $RSC(:NH)NH_2HX$ (0.1 mole) was refluxed 2 hrs. with 0.1 *M* KOH in 150 ml. H_2O, the mixt. cooled to 10°, extd. with Et_2O, acidified with dil. H_2SO_4, extd. again with Et_2O, and the exts. were dried with Na_2SO_4 and distd. The % yields and b.ps. of RSH are listed: I, 82, 35–40°; II, 58, 60–8°; III, 41, 55–7°; IV, 69, 86–8°; V, 53, 82–4°; VI, 60, 114–16°; VII, 84, 147–52°; VIII, 70, b_3 170–90°; IX, 85, 158–60°; X, 90, 167–9°; XI, 68, 193–5°; XII, 85, b_{12} 95–6°; XIII, 51, b_1 138°; XIV, 42, b_{12} 120–5°. (*C*) $ClCH_2CH_2OH$ (0.107 mole) was added slowly (60 min.) to a boiling soln. of 0.1 mole Na in 80 ml. EtOH and 0.1 mole RSH, the mixt. heated 30 min., the EtOH distd. off, NaCl filtered, washed with three 10-ml. portions of EtOH, and the filtrate evapd. and distd. *in vacuo*. Yields and b.p./mm. of $RSCH_2CH_2OH$ are given: I, 90, 183–5°/atm.; II, 75, 95°/15; III, 64, 82–3°/12; IV, 75, 105°/10; V, 65, 101°/10; VI, 80, 110–12°/10; VII, 80, 133°/10; VIII, 85, (m. 58°), 205–8°/3; IX, 95, 137°/10; X, 53, 142–3°/14; XI, 57, 153–5°/12; XII, 80, 142°/1; XIII, 67, (m. 36–8°) 184–5°/1; XIV, 63, 140–50°/1; [picrolonate, m. 161° (from EtOH)]. (*D*) $RSCH_2CH_2OH$ (0.02 mole) in 25 ml. C_6H_6 was mixed with 0.03 mole nicotinoyl chloride in 15 ml. C_6H_6, refluxed 30 min., extd. with three 25-ml. portions dil. HCl (1:3), the soln. of the ester salt alkalinized with 20% Na_2CO_3, extd. with Et_2O, and the ext. distd. *in vacuo*; the picrates of the esters were prepd. by ppting. with picric acid, the HCl salts by ppting. with HCl in Et_2O. R, % yields, b.p./2 mm. of the ester, and m.ps. of the picrates and HCl salts are listed): *Me*, 82, 130°, 105°, 111°; I, 78, 132°, 100°, —; II, 69, 144°, 100°, —; III, 66, 138°, 117°, —; IV, 79, 140°, 80°, —; V, 85, 140°, 100°, —; VIII, 67, VI, 78, 145°, 92°, —; VII, 77, 173°, 78°, —; VIII, 67, [m. 47° (from ligroine)] 220°, 94°, 85–0°; IX, 71, 182°, 110°, 80–0°; X, 58, 188°, 158° (picrolonate), 91°; XI,

CHYBOVÁ, H.

New derivatives of chromone-2-carboxylic acid as coronary-dilatation agent. Zdeněk J. Vejdělek, Václav Trčka, Oldřich Chyba, and Hedvika Chybová (Pharm. biochem. výzkumný ústav, Prague). *Chem. listy* 47, 575-9 (1953).—Esterification of *chromone-2-carboxylic acid* (I) yielded esters which reacted with amines to form amides of I, some of which were found to have greater coronary-dilatating action than khellin. A mixt. of 1 mole *o*-HOC_6H_4Ac, 2 moles $(EtOCO)_2$, and 23 g. Na in 500 ml. EtOH heated 3 hrs. at 60–70°, the cryst. Na salt filtered with suction, boiled briefly with 800 ml. EtOH and 140 ml. concd. HCl (or with 800 ml. 25% HCl in EtOH), the NaCl filtered off, washed with 200 ml. EtOH, and the filtrate poured into 6 l. H_2O gave 80–3% *Et ester* of I, m. 71–2° (from 50% EtOH). Hydrolysis of 10 g. ester, by refluxing 90 min. with 25 ml. EtOH and 25 ml. HCl gave 8.2 g. (95%) I, m. 238–40° (crude), 250–2° (decompn.) (from EtOH). Esterification of I with the corresponding HO compd. in the presence of H_2SO_4 gave the following esters (m.p. and % yield): *Me ester*, 113°, 76; *Bu ester*, 44°, 08; *iso-Am ester*, 51°, 60; *cyclohexyl ester*, 94° (from Me_2CO), $b_{0.3}$ 200°, 59; and *Ph ester*, 101–5° (from EtOH), 18. The *$MeSCH_2CH_2$ ester*, m. 80° (from ligroine), was prepd. in 58% yield by refluxing 0.03 mole I with 0.8 g. Na in 60 ml. EtOH 30 min., treating with 0.03 mole $MeSCH_2CH_2Cl$ in 40 ml. EtOH, refluxing 5 hrs., filtering off the NaCl, washing it with abs. EtOH, evapg. the filtrate to dryness, dissolving the residue in Et_2O, washing with 5% $NaHCO_3$, evapg. the ether, and crystg. the product. The Et ester of I (0.02 mole) allowed to stand 10 days with 0.06 mole of the amine in 50 ml. EtOH (*method A*), refluxed in 60 ml. PhMe with azeotropic removal of EtOH (*method B*), or melted with the amine at 110–20° (*method C*), gave the amides of I (the amine, method, % yield, and m.ps. listed): 2-aminopyridine, *A*, 79, 207–9° [*B*, 50, 210–11°; *C*, 68, 200–8° (from EtOH)]; 3-aminopyridine, *A*, 45, 202°; 4-aminopyridine, *A*, 39, 250–1°; $NHEt_2$, *B*, 31, 150–1°; $NH_2CH_2C{:}CH.CH{:}CH.N{:}CH$, *B*, 64, 220°.

M. Hudlický

Chybowski B.

POL

Chybowski L., Kanior W. The Heating and Ventilation of Railway Carriages.

„Ogrzewanie i wentylacja wagonów kolejowych". Gaz, Woda i Technika Sanitarna, No. 6, 1954, pp. 173—176, 6 figs.

The authors have worked out a new method of heating and ventilating Third Class railway carriages, under both steam and electric traction. Owing to the high parameters of the heating factor, the use of a convector heating system is suggested. In such a system, the temperature is regulated by changing, by means of a valve operated by a lever, the amount of air flowing through the air convector. A pressurized ventilation system was employed in the compartment, using axial or centrifugal fans. The article also contains a description of the air heating apparatus, how to regulate the air temperature, and of the manner in which the air is drawn from the atmosphere and filtered.