

CZECHOSLOVAKIA / POLAND

BUKOWCZYK, A.; KRAUSE, K.; WASIK, A.; Psychiatric Clinic (Klinika Psychiatryczna), Wroclaw.

"Changes in the Tolerance of Neuroleptic Drugs as a Function of the Phase of Psychosis."

Prague, Activitas Nervosa Superior, Vol 8, No 4, Nov 66, p 401

Abstract : There are two autonomic phases in the course of psychoses associated with psychomotor excitation. The effect of neuroleptics is apparent only in the parasympathetic phase. Drugs which correct the autonomic balance and promote the appearance of the parasympathetic phase seem to be very useful in the treatment of schizophrenics. Treatment of 15 patients with neuroleptics combined with scopolamines and barbiturates is discussed. 7 Western, 1 Hungarian reference. Submitted at the 8th Annual Psychopharmacological Meeting at Jesenik, 18 - 22 Jan 66. Article is in English.

1/1

70

78

KIERSNICKA, Irena; WASIK, Feliks

Problems of late conjugal syphilis. Przegl. dermat., Warsz. 8 no.4:429-433 July-Aug 58.

1. Z Kliniki Dermatologicznej A. M. we Wrocławiu Kierownik: prof. dr H. Mierzecki Z Ośrodka Konsultacyjnego Woj. Por. Sk. Wen. we Wrocławiu Konsultant: prof. dr H. Mierzecki. Adres: Wrocław, klinika Dermatologiczna A. M., Chalubinskiego 1.

(SYPHILIS, CARDIOVASCULAR
advanced conjugal syphilis, statist. (Pol))
(NEUROSYPHILIS
same)

WASIK, Feliks; KIERSNICKA, Irena

Remote results of the treatment of early syphilis with penicillin and arsenic-bismuth compounds. Polski tygod. lek. 16 no.44:1692-1694 30 0 '61.

1. Z Kliniki Dermatologicznej A.M. we Wroclawiu; kierownik: prof. dr H. Mierzecki i z Wojewodzkiej Przychodni Skorno-Wenerologicznej we Wroclawiu; dyrektor: lek. Z. Lusypinski.
(BISMUTH ARSENIC COMPOUNDS ther) (SYPHILIS ther)

WASIK, Feliks; WASIK, Renata.

Uroprecipitin reactions in some skin diseases. Przegl. dermat. 48
no.6:509-516 '61.

1. Z Kliniki Dermatologicznej AM we Wrocławiu Kierownik: prof.
dr H.Mierzecki Z I Kliniki Pediatrycznej AM we Wrocławiu Kierownik:
prof. dr H.Hirszfeldowa.
(PRECIPITINS) (DERMATOLOGY diag)

BIRECKA, Irena; WASIK, Feliks

The problem of atrophic mucosynechial bullous dermatitis of Lortat and Jacob in the light of our observations. Przegł. dermat. 49 no.3: 207-217 '62.

1. Z Kliniki Dermatologicznej AM we Wrocławiu. Kierownik: prof. dr H. Mierzecki.

(PEMPHIGUS)

LITWINSKI, Tadeusz; WASIK, Feliks:

Apropos of the Sulzberger-Gabra disease, exudative discoid and lichenoid chronic dermatosis. Przegl. dermat. 51 no.1:39-46
Ja-P '64

1. Z Kliniki Dermatologicznej Akademii Medycznej we Wrocławiu
(Kierownik doc. dr. J. Kubicz).

WASIK, J.

WALSK, J. Organization of the central carpentry shops. p. 319.

Vol. 6, No. 11, Nov. 1955.

PRZEMYSŁ DRZEWIANY.

TECHNOLOGY

Warszawa, Poland

So: East European Accession, Vol. 5, No. 5, May 1956

WASIK, J.

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

2101. REHABILITATION OF PATIENTS WITH SPINAL CORD INJURIES. A CRITICAL REVIEW OF METHODS AND RESULTS - Usprawnianie lecznicze w urazowych uszkodzeniach rdzenia kręgowego. Krytyczne omówienie metod i uzyskanych wyników na podstawie spostrzeżeń z materiału własnego - Daab J., Wasik J. and Dobosiewicz K. Z Wojewódzk. Szpit. Chir. Urazowej, Piękary Śląskie - CHIR. NARZAD. RUCHU 1957, 22/3 (359-368) Tables 4 Illus. 8

A brief statistical review of material is followed by analysis of subjects with complete paraplegia or severe paresis. Good results obtained in rehabilitation of patients with mild injuries or with injuries showing rapid disappearance of neurological symptoms might be ascribed to spontaneous improvement rather than to the treatment. Methods of rehabilitation used in the hospital are described. Stress is laid on early mobilization of the patient. After leaving the surgical ward the patient is admitted to the Rehabilitation Department. Objectives of rehabilitation, exercises, equipment employed and principles of evaluation of progress are dealt with.

(IX, 8*)

MAAB, Janusz; ELWART, Wacław; NOWAK, Ryszard; WASIK, Józef

Surgical treatment by means of osteotomy of the trochanteric region in neglected fractures of the femoral neck in old age.
Chir.narz.ruchu ortop.polska 25 no.1:37-41 '60.

1. Ze Szpitala Chirurgii Urazowej w Piekarach Śląskich. Dyrektor i Kierownik Naukowy: dr. W. Sowiński
(FEMUR NECK fract.& disloc.)

LIPINSKA, Teresa; WASIK, Jozef

Bosworth's method in surgical therapy of torn medial collateral ligament of the knee. Chir. narz. ruchu ortop. polska 27 no.2: 137-141 '62.

1. Z Wojwodzkiego Szpitala Chirurgii Urazowej w Piekarach Sl.
Dyrektor i Kierownik naukowy: dr W. Sowinski.
(KNEE wds & ir.j.)

SOBOCINSKI, Jozef, inż.; WASIAK, Marek

Electromechanical filter units for high and low bands. Prace
inst teletechn 8 no.3:109-112 '64.

1. Submitted June 1964.

HIRSZFELDOWA, H.; BLOCHOWNA, B.; COZIOROWSKI, Cz.; SASSOWA, J.; WASIK, R.

The uroprecipitation test. Polski tygod. lek. 15 no.33:1257-1260;
15 Ag '60.

1. Z I Kliniki Pediatricznej A.M. we Wroclawiu; kierownik: prof.
dr med. H. Hirszfeldowa
(RHEUMATIC FEVER diag.)
(PRECIPITINS)

HIRSZFELDOWA, Hanna; BLOCHOWNA, Boguslawa; KOZIOROWSKI, Czeslaw; SASSOWA,
Janina; WASIK, Renata--

Studies on the nature of urogen. Polski tygod. lek. 16 no.11:381-383
13 Mr '61.

1. Z I Kliniki Pediatrycznej A.M. we Wroclawiu; kierownik: prof. dr
med. H. Hirszfeldowa.

(POLYSACCHARIDES urine) (RHEUMATISM urine)

WASIK, Feliks; WASIK, Renata

Uroprecipitin reactions in some skin diseases. Przegl. dermat. 48
no.6:509-516 '61.

1. Z Kliniki Dermatologicznej AM we Wrocławiu Kierownik: prof.
dr H.Mierzecki Z I Kliniki Pediatrycznej AM we Wrocławiu Kierownik:
prof. dr H.Hirszfeldowa.
(PRECIPITINS) (DERMATOLOGY diag)

~~HASIK, Zenon~~, mgr inż. (Lodz)

Research stand for tube combustion chambers. Ciężki masz
przepływ no.43/44:69-7) '63.

P/0000/62/000/000/0175/0190

ACCESSION NR: AT4025432

AUTHOR: Wasik, Zenon (Master engineer)

TITLE: Method for the experimental determination of the effect of the blade profile shape upon steam turbine efficiency under actual working conditions

SOURCE: Konferencja "Technika Pomiarowa w Ciepłych Maszynach Przepływowych" (Conference on "Measurement technique in thermal flow machines"). Lodz, 1962, 175-190

TOPIC TAGS: turbine, steam turbine, turbine blading, blade profile, steam turbine efficiency, turbine indicated efficiency, turbine internal efficiency

ABSTRACT: Differentiations of the single blade ring's indicated efficiency and determination of the effect of new blade profile types on the efficiency of the entire turbine as well as of a change in the swallowing capacity and steam expansion characteristics require a reduction in the measurement error to below one percent. In connection with this, author attempted to develop a suitable methodology of measurement in conjunction with the use of typical instruments and measuring devices. Experiments were carried out on the TP2
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ACCESSION NR: AT4025432

turbine, which is a simplex, impulse-type, counter-pressure turbine. Two types of tests were carried out. One of these was with a rotor containing the old-type blading with sharp entrance edges, while the other was with the new type blading with rounded edges. Selection of measuring method was based on error theory. The indicated efficiency of counter-pressure turbine can be determined from the relationship

$$\eta_i = \frac{860 N_{el}}{G_0 (i_0 - i_{0s}) \eta_m \eta_g}$$

where N_{el} is the electric power; G_0 is the weight rate of flow; i_0 is the incoming steam enthalpy; i_{0s} is the enthalpy during isentropic steam expansion in an ideal turbine; η_m is the turbine unit's mechanical efficiency and η_g is the generator efficiency. By applying the error theory, the error of the measured quantity determined by equation (1) can be predicted by calculating the relative measurement error for the discrete values entering into the measurement aggregate. Then the average absolute error of measurement of the indicated efficiency will be determined by

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$$\Delta \eta_i = \pm \sqrt{\left(\left|\frac{\partial \eta_i}{\partial N_{st}}\right| \Delta N_{st}\right)^2 + \left(\left|\frac{\partial \eta_i}{\partial G_o}\right| \Delta G_o\right)^2 + \left(\left|\frac{\partial \eta_i}{\partial l_o}\right| \Delta l_o\right)^2 + \left(\left|\frac{\partial \eta_i}{\partial l_{st}}\right| \Delta l_{st}\right)^2 + \left(\left|\frac{\partial \eta_i}{\partial l_{st2}}\right| \Delta l_{st2}\right)^2}$$

12/

and the average relative error by

$$\delta \eta_i = \frac{\Delta \eta_i}{\eta_i}$$

13/

A detailed analysis of the measuring technique, carried out on the basis of the turbine's energy balance, led to the following expression for the turbine's efficiency

$$\eta_i = \frac{G_o^* (l_o^* - l_{st}) + G_{st} (l_{st} - l_{st2}) - G_{st2} (l_{st} - l_{st2})}{G_o^* (l_o^* - l_{st})}$$

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The measurement error of the flow rate through the turbine (normally the largest in measurements) was eliminated entirely, and the unsteady measurement

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ACCESSION NR: AT4025432

of the electric power became negligible. A special probe was used inside the turbine chamber to measure the steam parameters. It was made of 5 chromel-alumel thermocouples with uncovered thermojunctions. A control pressure gauge was connected to the probe through the cooling ring. The thermocouple wires were insulated within the probe by glass insulators and the wires were brought to the outside through a special sealing head. The steam parameters in the power plant fluctuated within the limits 22 to 25.2 atm and 395 to 415°C. Results showed that rise in efficiency with use of new type blading of about 1.6 to 2.2% was not confirmed. The flowthrough unit of the TP2 turbine is better with the old-type rotor rather than with the new one. In the case of isentropic head losses down to 35 kcal/kg, which correspond to weight rate of flow of about 22 tons/hour, the turbine with the new type blading has an efficiency higher by 0-5% than the old-type turbine. Above 22 tons/hour, it is inversely lower within the limits 0.2-5%. The findings and data obtained from these tests will be used for further studies on an experimental air turbine. Orig. art. has: 10 figures, 3 tables and 5 equations.

ASSOCIATION: Instytut Techniki Ciepłej, Zakład Turbin Ciepłych, Łódź
(Heat Engineering Institute, Department of Heat Turbines)

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ACCESSION NR: AT4025432

SUBMITTED: 0000062

DATE ACQ: 09Apr64

ENCL: 00

SUB CODE: IE, MD

NO REF SOV: 000

OTHER: 000

Card 5/5

WASIKOWA, Renata, WIKOMIRSKA-KAJETANOWICZ, Jadwiga

4 cases of acquired hemolytic anemia of infectious etiology with different clinical courses. *Pediat pol* 36 no.9:967-975 S '61.

1. Z I Kliniki Chorob Dzieci AM we Wroclawiu Kierownik: prof. dr med.
H. Hirszfeldowa.

(ANEMIA HEMOLYTIC etiol)

JUZWA, Witold; WASIKOWA, Renata; ZALEWSKA-JUZWA, Alicja; ZIOLKOWSKA, Bozena;
PARADOWSKI, Andrzej

Effect of bean diet on the ammonia, urea and electrolyte level
of the blood and urine in healthy children. *Pediat. Pol.* 40 no.7:
691-699 J1 '65.

1. Z Zakladu Fizjologii AM we Wroclawiu (Kierownik: prof. dr.
A. Klisiecki) i z I Kliniki Pediatricznej AM we Wroclawiu
(Kierownik: prof. dr. med. T. Nowakowski).

10112
No. 1, 1953
Mechanics, electronics
& power

WASILENKO, E.

10112

10112

621 317 753 : 621 5 031

Wasiłenko E. Compensation of Errors of the Schering Bridge. *Przebieg uchybów w mostku Scheringa*. *Przebieg Elektrotechniczny*, no. 4, 1952, pp. 150-153, 5 figs., 2 tabs.

This article deals with a method of improving the accuracy of measurement by means of the common Schering bridge. The method is contingent on the introduction of a correction for errors due to earth capacitances C_{11} and C_{12} , computed in accordance with the formula $\Delta \lg \epsilon_1 = \omega R_1 C_{11} - \omega R_2 C_{12}$. In the example quoted for operating the method the correction is of the order of 10^{-3} ... $10^{-2}\%$. Errors due to time constants of resistances R_1 and R_2 can be disregarded for resistances of a few hundred ohms. This method of corrections makes possible the determination of small loss factors (e.g. $\delta = 0.01\%$) within a tolerance range of a few per cent.

WASILENKO, E.

4067. Preventive tests on instrument transformers.
E. WASILENKO. *Przeglad elektrotech.*, 31, No. 2-3, 265-72 (1955) In Polish.

The author reviews different methods of detection of moisture and inception voltage of internal discharges in transformer insulation. The capacitances and $\tan \delta$ are defined. The tests on twelve 20 kV voltage and current transformers are tabulated. The tests consisted of (1) capacitance and $\tan \delta$ as a function of voltage; (2) coefficient of absorption as a ratio of resistances at 5 v d.c. after 15 and 60 sec; (3) dielectric strength and $\tan \delta$ of oil; (4) one-minute test at 48 and 64 kV. The tests are discussed and some of the important conclusions are: (a) the characteristics of $\tan \delta$ and capacitance as a function of voltage (0.25-1.5 kV) are very important and give a basis for deciding the quality of insulation, (b) the value of $\tan \delta$ must not exceed 15-20%, (c) the curve $\tan \delta = f(t)$ gives only a general indication of internal discharges, (d) $\tan \delta$ and capacitance as a function of time are good indicators of moisture content, (e) good quality of oil does not always mean good solid insulation, (f) the detection of moisture is better done by $\tan \delta$ than by resistance comparison, (g) the permissible amount of moisture depends on the type of transformer.

M. W. MAKOWSKI

EE

Handwritten initials

Wasi/enko E.

2482. NEW TUBE KLYDONOGRAPH. 621.217.724
 B. B. Kozlov and E. Wzalis. 3
 Arch. elektrotach. (Warsaw), Vol. 6, No. 1, 61-64 (1957). In Polish, with summaries (1 p.) in Russian and (2 p.) in English.
 These consist of glass tube with two electrodes, one on each side of the tube wall, placed in a weatherproof housing; the photographic film being wrapped round the tube. The short-tube klydonograph has a voltage range of 4-25 kV and is suitable for measuring steepness of between 0.4-50 kA/ μ sec when used in conjunction with a suitable inductance coil, while the long-tube klydonograph is intended for the measurement of surge voltages of the order of 2 kV; both instruments being designed for use without a potential divider. The impulse-voltage calibration of the short-tube klydonograph is described and the calibration curves and catalogue are given. The probable accuracy of voltage estimation with this instrument is determined as $\pm 50\%$.
 E. M. Dembinski

WASILENKO, E.

"Lighting conductors" by L.V. Rihaneck. Reviewed by E. Wasilenko.
Przegl elektrotechn 39 no.4:167 Ap '63.

SZPOR, Stanislaw; WASILENKO, Eugeniusz; SAMULA, Jan; DYTROWSKI, Edmund;
SUCHOCKI, Jerzy; ZABOROWSKI, Bohdan.

Results of lightning recording in Poland. Przegl elektrotech
40 no.3:117-121 Mr'64

1. Zaklad Wysokich Napiec, Politechnika, Gdansk.

WASTLEV, W. [Vesilev, V.]

Age variation in the interspaces between the disks of the neck region. Doklady BAN 17 no.5:511-514 '64

1. Lehrstuhl für Anatomie am Medizinischen Institut Sofia. Vorgelegt von D.Kadanoff [Kadanov, D.], Korrr.-Mitglied der Akademie.

WASILEW, W.

Senile changes in the cervical intervertebral disks. Dokl. Bolg. akad. nauk 17 no.5:511-514 '64.

1. Vorgelegt von D. Kadanoff, korr. Mitglied der Akademie.

WASILEW, W.

Biomechanical investigating of the cervical vertebrae. Dozl.
Bolg. akad. nauk 17 no.6:593-596 '64.

1. Vorgelegt von D. Kadanoff, korr. Mitglied der Akademie.

POPOFF, N.; WASILEWA, A.

Cases of immunothrombocytopenia in children. *Pediat. polska* 34 no.8:
1077-1084 Aug 59.

1. Z II Miejskiego Szpitala dla Dzieci w Sofii Kierownik: dr med. P.
Bielopitoff.

(THROMBOPEMIA, in inf. & child)

WASILEWICZ, J.

Gospodarka Zbozowa - Vol. 6, no. 4, Apr. 1955.
For expansion of the activities of trade-unions. p. 1.

Technical equipment of a grain elevator. p. 17.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955
Uncl.

WASILEWSKA, Alina

Serum level of pyruvic acid after the administration of some hypoglycemic drugs. Pol. tyg. lek. 20 no.27:1013-1014 5 J1 '65.

1. Z II Kliniki Chorob Wewnętrznych AM w Białymstoku (Kierownik: prof. dr. Jakub Chlebowski).

WASILEWSKA, Alina; ZABLOCKA, Irena

A case of agranulocytosis after pyrimidon administration. Polski tygod. lek. 14 no.19:865-867 11 May 59.

1. Z II Klin. Chor. Wewn. AM im J. Marchlewskiego w Gialymstoku; kierownik: prof. dr J. Chlebowski. Adres: Bialystok, II Klin. Chor. Wewn. A. M.

(AMINOPYRINE, inj. eff.

agranulocytosis, case report (Pol))

(AGRANULOCYTOSIS, etiol. & pathogen.
aminopyrine, case report (Pol))

CHLEBOWSKI, Jakub; ROSTAFINSKA, Jadwiga; WASILEWSKA, Alina

Atypical diabetic coma. 2 case reports. Wlad. lek. 18 no.5:
425-427 1 Mr '65

1. Z II Kliniki Chorob Wewnetrznych, AME (Kierownik: prof. dr.
J. Chlebowski).

TETER, Jerzy; WASILEWSKA, Barbara; STERNADEL, Zdzisław

Evaluation of the estrogenic activity in ovarian tumors of the folliculoma type. Endocr. pol. 12 no. 6:648-661 '61.

1. I Klinika Poloznictwa i Chorob Kobietych A.M. w Warszawie
Kierownik: prof. dr T. Bilski.
(OVARIES neopl) (GRANULOSA CELL TUMOR physiol)
(ESTROGENS physiol)

BULSKI, Tadeusz; TETER, Jerzy; WASILEWSKA, Barbara

Virilizing tumor from ovarian hilus cells with adrenal characteristics. Ginek. pol. 34 no.2:265-273 '63.

1. Z I Kliniki Położnictwa i Chorob Kobietych AM w Warszawie
Kierownik: prof. dr T. Bulski.
(OVARIAN NEOPLASMS) (LEIOMYOMA) (VIRILISM)

STERNADEL, Zbigniew; TETER, Jerzy; WASILEWSKA, Barbara

Clinical aspects of ovarian tumors composed of granulosa cells.
Ginek. Pol. 35 no.2:219-226. Mr-Apr '64.

1. Z I Kliniki Położnictwa i Chorób Kobietych Akademii Medycznej
w Warszawie (Kierownik: Prof. dr. med. T. Sulski).

PONIATOWSKA, Teresa; WASILEWSKA, Barbara

Malignant mixed uterine tumors. Ginek. Pol. 36 no.3:341-350
Mr '65.

1. Miejski Szpital Ginekologiczno-Polozniczy w Warszawie
(Dyrektor Szpitala: dr. med. B. Pawlak).

ZELAWSKI, Włodzimierz; WASILEWSKA, Danuta; KACZKOWSKI, Jerzy

On the ferricyanide method of determining reducing sugars. Chem anal 6
no.5:882-884 '61.

1. Katedra Fizjologii Roslin i Katedra Biochemii, Szkoła Główna Gospo-
darstwa Wiejskiego, Warszawa.

ZWIERZ, Jozef; KONARSKA, Danuta; MEDRALA, Jozef; WASILEWSKA, Eleonora

A focus of swine leptospirosis as a source of human Weil's disease.
Polski tygod. lek. 16 no.39:1496-1499 25 S '61.

1. Z Zakładu Badań nad Leptospirozą Instytutu Weterynaryjnego we Wrocławiu; kierownik: prof. dr Jozef Zwierz i z Oddziału Zakaznego Szpitala Powiatowego w Głogowie; ordynator: dr med. Jozef Medrala.

(WEIL'S DISEASE transm) (SWINE dis)

ZWIERZ, Jozef; KARMANSKA, Krystyna; KONARSKA, Danuta; WASILEWSKA, Eleonora

Area irrigated with sewage. Its hygienic and sanitary evaluation.
VI. Examination of the fauna from irradiated fields for the carriage
of Leptospira during 1957-1959. Acta microbiol. pol. 10 no.4:447-
456 '61.

1. Z Zakladu Badan nad Leptospiroza Instytutu Weterynarii we Wroclawiu.
(SEWAGE microbiol) (LEPTOSPIRIA)
(RODENTS microbiol)

WASILEWSKA, HELENA
RAFALOWICZ, Adam.; Wasilewska, Helena.

Clinical observations on the course of cardiac defects during pregnancy, labor and delivery. Polski tygod. lek. 12 no.26:986-988
24 June 57.

1. Z Oddzialow Wewnetrznych Centralnego Klinicznego Szpitala M. S. W. w Warszawie, ordynatorzy prof. dr. med. Stefan Kublick; i dr Zdzislaw Krzywicki. Adres: Warszawa, ul. Wolowska; Cent. Kl. Szpit.

(CARDIOVASCULAR DEFECTS, CONGENITAL, in pregnancy,
eff. on course of pregn., labor & delivery (Pol))

(PREGNANCY, complications,
cardiovasc. defects, congen., eff. on course (Pol))

WASILEWSKA, H.
RAFALOWICZ, Adam.; WASILEWSKA, Helena.

Observations on the clinical course of cardiac defects in pregnancy, labor, and delivery. Polski tygod. lek. 12 no.30:1146-1150 22 July 57.

1. Z Oddzialow Wewnetrznych Centralnego Szpitala M. S. W; ordynatorzy: prof. dr. med. S. Kubicki i dr. Z. Krzywicki. Adres: Warszawa, Inst. Gruzlicy Plocka 26.

(CARDIOVASCULAR DEFECTS, CONGENITAL, in pregnancy,

preg., labor & Delivery (Pol))

(PREGNANCY, in various diseases;

cardiovasc. defects, congen., pregn., labor & delivery (Pol))

Wasilewska, Halina

OWSIŃSKA, Izabella; WASILEWSKA, Halina

Value of association streptomycin and hydrazine therapy of cutaneous tuberculosis. Polski tygod. lek. 12 no.45:1732-1736 11 Nov 57.

1. (Z Kliniki Dermatologicznej P. A. M. w Szczecinie; kierownik: doc. dr Henryk Prochacki). Otrzymano: 12.I.1957; adres: Szczecin, ul. Powstancow 72. Państw. Szpital Kliniczny Nr 2, Klin. Dermatol.
(TUBERCULOSIS, CUTANEOUS, therapy,
isoniazid with streptomycin (Pol))

OWSINSKA, Izabela; WASILEWSKA, Halina

Behavior of the temperature curve in Jarisch-Herzheimer-Lukasiewicz reaction following the administration of penicillin in patients with early syphilis. Prsegl.derm.,Warsz.46 no.4:363-370 JI-Ag '59.

1. Z Kliniki Dermatologicznej P.A.M. w Szczecinie. Kierownik:
doc.dr. H. Prochacki.
(SYPHILIS ther.)
(PENICILLIN ther.)

[POLAND

KUBICKI, Stefan, WASILEWSKA, Helena, and NOWAKOWSKI, Artur; Division of Internal Diseases (Oddzial Chorob Wewnetrznych) (Director: Prof. Dr. med. Stefan KUBICKI) and Surgical Division (Oddzial Chirurgiczny) (Director: Dr. med. Edmund WISNIEWSKI) of the Central Clinical Hospital (Centralny Szpital Kliniczny) MSW [Ministerstwo Szkolenia Wyzszego, Ministry of Higher Education] in Warsaw.

"Clinical Evaluation of 30 Cases of Gall Bladder Cancer."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 13, 25 Mar 63, pp 470-474.

Abstract: [Authors' English summary modified] An analysis of 30 cases of gall bladder cancer brought authors to the conclusion that "Early cholecystectomy" should be performed in patients suffering from cholelithiasis because of the frequently coexisting cancer and the fact that at present it is the only way to bring about improvement in these tumors, which have heretofore eluded treatment. There are ten (10) references, of which one (1) is Polish, and the other Western.

[1/1

KUBICKI, Stefan; LATALLO, Zbigniew; KACNER, Joanna; DOROBA, Krystyna;
WASILEWSKA, Helena.

Evaluation of the antithrombin test and the starch tolerance
test in the diagnosis of pancreatic diseases. Pol. tyg. lek.
19 no.42:1593-1596 19 0 '64

1. Z Oddziału Chorob Wewnętrznych Centralnego Szpitala Kli-
nicznego MSW w Warszawie (kierownik: prof. dr. med. Stefan
Kubicki) i z Laboratorium Centralnego Szpitala Klinicznego
MSW w Warszawie (kierownik: dr. farm. Mieczysław Trzaski).

WASILEWSKA, Irena; KREPSKA, Hanna

Separation of thiamine phosphate esters by the method of paper chromatography. Acta pol. pharm. 28 no.5:371-376 '61.

1. Z Instytutu Farmaceutycznego w Warszawie Dyrektor: dr P.Nantka-Namirski.

(VITAMIN: B1 rel cpds)

(CHROMATOGRAPHY)

ZWOLINSKA, Zofia; ZADUMINSKI, Marian[deceased]; WASILEWSKA, Irena;
KROWCZYNSKI, Leszek

Effect of the quality of the raw material and of the method
of preparation on the stability of aqueous solutions of
thiamine HCl for injections. Acta pol. pharm. 20 no.4:339-344
'63.

1. Z Zakladu Farmacji Stosowanej Instytutu Farmaceutycznego w
Warszawie Kierownik: doc. dr L. Krowczynski.
(THIAMINE) (CHEMISTRY, PHARMACEUTICAL)

ZADUMINSKI, Marian [deceased]; WASILEWSKA, Irena, KROWCZYNSKI, Leszek;
KREPSKA, Hanna

Observation on the stability of cocarboxylase hydrochloride.
Acta pol. pharm. 20 no.5:399-403 '63.

1. Z Instytutu Farmaceutycznego w Warszawie.

*

BUCHOWICZ, J.; WASILEWSKA, Lidia D.; WITECKI, J.; REIFER, I.

The anabolic pathway of uracil in higher plants. Acta biochim. pol.
10 no.1:67 '63.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences,
and Central College of Agriculture, Warszawa.
(NO SUBJECT HEADINGS)

WASILEWSKA, L.

Tylenchus (*Tylenchus*) *biłoghi* Andrassy, 1958 in Poland (Nematoda, Tylenchidae), *Bull. acad. pol. sci. (Biol)* 13 no.3:163-165 '65.

1. Submitted November 11, 1964.

Ditylenchus medicaginis sp. n., a new parasitic nematode from Poland (Nematoda, Tylenchidae). *Ibid.*:167-170

1. Submitted December 1, 1964.

WASILEWSKA, L.

A new complexometric method for the determination of organic bases. Acta pol. pharm. 20 no.2:211-212 '63.

(CHEMISTRY, PHARMACEUTICAL) (PAPAVERINE)
(CHLORPROMAZINE) (PROMETHAZINE)
(IMIPRAMINE) (SUCCINYLCOLINE)

I 21911-66 ELT(m)/EPF(n)-2

ACC NR: AP6014465

SOURCE CODE: PO/0046/65/010/011/0661/0668

AUTHOR: Florkowski, Tadeusz--Flerkowski, T.; Koslara, Andrzej--Kosyara, A.;
Wasilewska, Marta--Vasilevska, M. 49
BORG: Nuclear Engineering Institute, AGH, Krakow (Instytut Techniki Jadrowej AGH)TITLE: Comparison of radioisotope bremsstrahlung sources for excitation of the characteristic radiation in elements of A less than or equal to Z less than or equal to 50

SOURCE: Nukleonika, v. 10, no. 11, 1965, 661-668

TOPIC TAGS: bremsstrahlung, radioisotope, titanium, zirconium, promethium, x ray

ABSTRACT: Results of measurements for the determination of the detection efficiency of the characteristic x rays of light elements excited by the three bremsstrahlung sources $^3\text{H}/\text{Ti}$, $^3\text{H}/\text{Zr}$ and $^{147}\text{Pm}/\text{Al}$ are described. The detection of characteristic x rays of elements, which have the atomic number lower than 20 was performed in the hydrogen and helium atmosphere, what appreciably increases the total detection efficiency. The authors thank Prof.-Dr. L. Jurkiewicz for valuable advice and discussions on the carrying-out of the measurements as well as Dr. K. Ostrowski for discovery of the new type of proportional counter. Orig.art. has: 9 figures and 1 table. NA

SUB CODE: 18, 20 / SUBM DATE: 000064 / ORIG REF: 001 / OTH REF: 002

Card 1/1 MDS

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Folliculoma. Endokr. Pol. 13 no.2:199-207 '62.

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prof. dr T. Bulski.

(GRANULOSA CELL TUMOR case reports)
(OVARIES neopl)

WASILEWSKA, Wanda; PRIKHARA, Mariya [Pryhara, Mariia] [translator]

[Under the sky of China] Pid nebom Kytsiu. Kyiv, Radians'kyi
pys'mennyk, 1956. 346 p. Translated from the Polish.

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LEDOCHOWSKI, Zygmunt; LEDOCHOWSKI, Andrzej; CHIMIAK, Andrzej; DUTKIEWICZ,
Barbara; BOGUCKA, Maria; WISOCKA, Barbara; SOKOŁOWSKA, Teresa;
WASIELEWSKI, Czesław; STEFANIAK, Lech

Research on tumor-inhibiting compounds. I. Synthesis of some
N,N-dimethyl-1, n-diaminoalkanes. Roczniki chemii 33 no.6:1291-1298 '59.
(EEAI 9:9)

1. Katedra Technologii Srodkow Leczniczych Politechniki, Gdansk i
Pracownia Nr 8 Zakladu Syntezy Organicznej Polskiej Akademii Nauk
Gdansk.

(Tumors) (Amino group) (Paraffins) (Methyl group)

WASILEWSKI, Gracjan

Heating of slide bearings. Przegl kolej mechan 15 no.8:245-246
Ag'63

1. Central Car Management, Warsaw.

WASI LEWSKA, I

✓ Chromatography of alkaloids on filter paper. Z. Mar-
 gidański, A. Szymańska, and I. Wasilewska (Inst. Leków, War-
 saw). *Acta Polon. Pharm.* 2, 35-34 (1955).—Filter-paper
 chromatography was used to detect and classify alkaloids in
 compounded medicines (5-10 γ). Use was made of What-
 man filter papers Nos. 1, 40, or 41, a soln. A (25 BuOH:5
 AcOH:12 H₂O), soln. B (60 BuOH:10 HCl:19 H₂O), and a
 modified Dragendorff soln. for the development of the alka-
 loid on the paper. The D soln. consisted of Bi nitrate
 0.85 g., AcOH 10 ml., H₂O 4 ml. mixed with KI 8 g., and
 H₂O 20 ml.; 10 ml. of this soln. was then dild. with 5 ml.
 AcOH and 24 ml. H₂O. The resulting R_f values of the as-
 cending chromatograms were found to be in soln. A: morphine
 0.63-0.67, diosmine 0.70-0.72, papaverine 0.87, heroin
 0.77, cotarnine 0.70, narcotine 0.83, codeine 0.64-
 0.66, eucodal 0.57; in soln. B: morphine 0.62-0.67, dio-
 mine 0.83-0.87, heroin 0.71-0.84, papaverine 0.87-0.95,
 narcotine 0.84-0.93, dicodine 0.71-0.77, codeine 0.72-0.75,
 cotarnine 0.71, eucodal 0.68, paracodine 0.71. 35 refer-
 ences. L. J. Piotrowski

MA 2

2

CHRZANOWSKI, Jan; BODZINSKA, Irena; WASILEWSKA, Jadwiga

Utility of certain function tests in viral hepatitis. Polski
tugod. lek. 15 no.18:669-672 2 My '60.

1. Z Kliniki Chorob Zakaznych A.M.w Lodzi, kierownik: doc. dr. med.
Jan Chrzanowski.

(LIVER FUNCTION TESTS)

(HEPATITIS INFECTIOUS)

WASILEWSKI, G; SZMIDT, K.

DAKO brakecontrol valves. p. 118.

PRZEGLAD KOLEJOWY MECHANICZNY. Warszawa, Poland, Vol. 10, no. 4, Apr. 1958.

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Uncl.

SZMIDT, Kazimierz, inż.; WASILEWSKI, Gracjan, mgr inż.

Electropneumatically controlled brakes on the railroads in the
U.S.S.R. Przegl kolej mechan 13 no.2:43-44, 53-55 F '61.

WASILEWSKI, Gracjan

Contemporary rolling stock of the railroads of the Soviet Union.
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1. Centralny Ośrodek Badań i Rozwoju Techniki Kolejowej, Zakład
pojazdów szynowych, Warszawa.

TOURNELLE, Edmund; WASILEWSKI, Gracjan

The 2,5 T railroad scoop crane. Przegl kolej mechan 14 no.12:
375-378 D '62.

1. Centralny Ośrodek Badań i Rozwoju Techniki Kolejnictwa, Warszawa.

WASILEWSKI, J.

"Planowanie w zakładach na przewy samochodów i stacjach obsługi"
(Planning in repair plants of motor cars and service stations), by J. Wasilewski.
Reported in New Books (Nowe Książki), No. 15, August 1, 1955

WASILEWSKI, Jerzy, mgr inż.

Catalytic oxidation of ethylene to ethylene oxide. Wiad
chem 17 no.11:631-645 N°63.

1. Kierownik pracowni, Instytut Ciężkiej Syntezy Organicz-
nej, Hłachownia Śląska.

WASILEWSKA, L.

MARGASINSKI, Z; SZYMANSKA, A.; WASILEWSKA, L.

Paper chromatography of alkaloids. Acta Poloniae Pharm. 12 no.2:
65-84 1955.

1. Institut Lekow, Warszawa.
(CHROMATOGRAPHY,
of alkaloids)
(ALKALOIDS, determination,
chromatography)

POLAND/Chemical Technology. Chemical Products and Their
Applications. Chemical Wood Products. Hydrolysis
Industry.

H

Abs Jour: Ref Zhur-Khim., No 8, 1959, 29057.

Author : Wasilewska, M. and Krach, H.

Inst :

Title : Investigation of Changes Occurring in Woods Dried
in Organic Liquids.

Orig Pub: Przemysl Drzewny, 2, No 8, 1-8 (1958) (in Polish)

Abstract: The rate of drying of the wood with the above
process is determined by the rate of diffusion of
the moisture from the inner layers of the wood to
the surface; hence the process proceeds at a con-
stantly changing rate. Toluene appears to be the

Card : 1/2

POLIND/Chemical Technology. Chemical Products and Their Applications. Chemical Wood Products. Hydrolysis Industry.

II

abs Jour: Ref Zhur-Khim., No 8, 1959, 29057.

most effective heat-transfer agent, compared to air, and the drying process proceeds faster in toluene vapor. This, however, has a negative effect on the quality of the dried product (the wood shows internal stresses and a nonuniform moisture distribution). The utilization of toluene is indicated for the drying of small-size wood. Drying in toluene vapor is most suitable for the predrying of very wet wood to a moisture content corresponding to the saturation moisture content of the fiber. -- Ye. Gurvich.

Card : 2/2

246

WASILEWSKA, Z.

Determination fo the quantity of dust, tar, and water in gas from gas producers.

Biuletyn. p.1.

(HUTNIK, Vol. 24, No. 1, Jan. 1957, Katowice, Poland,)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 10, October 1957. Uncl.

WASILEWSKI, A.

Pocket dosimeter signaling doses larger than 25 mr. p. 242

NUKLEONIKA. (Polska Akademia Nauk. Komitet do Spraw Pokojowego Wykorzystania
Energii Jądrowej)
Warszawa. Vol. 3, no. 2, 1958

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Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, no. 6, June 1959
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~~WASILEWSKA~~ Alina; OBRZUT, Ambrozy A.

Oscillometric index and intramuscular and surface temperature of the lower extremities in diabetic patients. Polski tygod. lek. 15 no.39;1486-1490 26 S '60.

1. Z II Kliniki Chorob Wewnętrznych A.M. im. J. Marchlewskiego w Białymstoku; kierownik: prof. dr med. J. Chlebowski i z I Klin. Chirurgicznej AMB.; kierownik: z-ca prof. dr med. F. Olenski
(DIABETES MELLITUS physiol)
(BODY TEMPERATURE)

WASILEWSKI, E.

"Kontrola produkcji w przemyśle cukierniczym" (Production control in the sugar industry), by E. Wasilewski. Reported in New Books (Nowe Książki), No. 15, August 1, 1955

Wasiłowski, E.

POLAND / Chemical Technology. Chemical Products and H
Their Application. Lacquers. Paints. Coat-
ings.

Abs Jour: Ref Zhur-Khimiya, No 9, 1959, 33407.

Author : Wasiłowski, E.

Inst : Not given.

Title : New Varnish Coatings for Ships.

Orig Pub: Budown. okrot., 1957, 2, No 12, 309.

Abstract: For the painting of ships, coatings (C) having a polyvinyl base are recommended in place of oil paints, which resist inadequately the action of acids, alkalis, and oxidizing agents. C consist of a layer of a two-componental chemically active priming, an intermediary layer of red lead combined with a polyvinyl derivative base and an upper layer of vinyl C of the required color.

Card 1/2

780

WASILEWSKI, G.

Change of methods of repairing freight cars.

P. 204. (PRZEGLAD KOLEJOWY MECHANICZNY) (Warszawa, Poland) Vol. 9, no. 7, July, 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

WASILEWSKI, J.

"A method of group analysis in planning; some experiences of groups analyzing plans for 1953" p. 4 (MOTORYZACJA, Vol. 8, no. 1, Jan. 1953, Warszawa, Poland)

SC: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress
August, 1953, Uncl.

WASILEWSKI, J.

"Planning the Production of the Technical Automobile Service." p. 41,
(MOTORYZACJA, Vol. 9, No. 2, Feb. 1954. Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC,
Vol. 3, No. 12, Dec. 1954, Uncl.

WASILEWSKI, J.

New method of making openings in deposits for underground
gasification of coal. Wiadom gorn 10 no. 5:169-172 My '59.

GASZTYCH, Dionizy; WASILEWSKI, Jerzy; KUBICA, Zofia

Obtaining of ethylene oxide by direct oxidation of ethylene.
Przem chem 41 no.2:54-57 P '62.

1. Instytut Ciezkiej Syntezy Organicznej, Blachownia Slaska

GASZTYCH, Dionizy; WASILEWSKI, Jerzy; KUBICA, Zofia

Preparation of ethylene oxide by direct oxidation of ethylene.
Przem chem 41 no.2:54-57 F '62.

1. Instytut Ciezkiej Syntezy Organicznej, Blachownia Slaska.

WASILEWSKI, K.

5167. CRITICAL COMPARISONS
 Wasilowski, K. (Prace Inst. Mech.
 1954, (7)). Three methods of det
 the Protodyakonov method, the shot
 of working the coal with a cutter
 often insufficient for practical p
 coefficient, such as Protodyakonov
 drilling method is also inadequate
 the properties of the drilling tool
 resistance to cutting, brittleness,
 time and magnitude, is regarded as
 acceptable method of determining w

OF METHODS OF DETERMINING WORKABILITY OF COAL.
 Gorn. (Contr. Inst. Mech. Min., Poland).
 mining workability are considered, namely
 hole drilling method, and Lyubimov's method
 tool. The conclusion is reached that it is
 proposes to determine only one relevant
 strength coefficient. The shot-hole
 because the speed of drilling depends on
 Lyubimov's method, which determines
 and variations in resistance to cutting in
 a first step towards a unified and generally
 stability.
 N.C.B.

WASILEWSKI, K.

"Making Sand-lime (silica) Bricks." p. 20, (BUDOWNICTWO WIEJSKIE, Vol. 5, no. 1, Jan./Feb. 1953, Warszawa, Poland)

SO: Monthly Lists of East European Accessions, LC, Vol. 3, no. 5, May 1954; Uncl.

WASILEWSKI, K.

"Foundations for farm buildings. (To be contd.)," *Eudownictwo Wiejskie*, Warszawa, Vol 6, No 2, Mar./Apr. 1954, p. 16.

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

WASILEWSKI, K.

"Foundations for Farm Buildings. (To be contd.)", P. 24. (BUDOWNICTWO WIEJSKIE, Vol. 6, No. 3, May/June 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

WASILEWSKI, K.

"Foundations for Farm Buildings", P. 12, (BUDOWNICTWO WIEJSKIE, Vol. 6,
No. 6, Nov./Dec. 1954, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 4, No. 3,
March 1955, Uncl.

WASILEWSKI, K.

"Technology of Painting", P. 249, (PRZEGLAD BUCOGLANY, Vol. 24, No. 8,
August 1954, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 4, No. 3,
March 1955, Uncl.

WASILEWSKI, K.

For economical management of lumber in rural building. p.24
(Budownictwo Wiejskie, Vol. 8, no. 2, Jan. 1956, Warsaw)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

WASILEWSKI K.

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The problem of prefabrication in rural buildings.

p. 7 (Budownictwo Wiejskie) Vol. 7, No 4, July/Aug., 1955, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

WASILEWSKI, Kazimierz

Mechanized plastering. Inst org i mechan bud prace 9 no.43:3-56 '61.

CA

13

Researches on heat-insulating materials. LUDWIK WASILEWSKI AND MACIEJ MACZYNSKI. *Przemysl Chem.* 16, 73-83(1939).—The Poenigen app. was modified in design to yield more accurate results. After a careful evaluation, the newly standardized app. was used for measuring the heat insulating properties of several (Polish) domestic insulating materials. Among others these coeffs. of heat cond. were found: cork pasted with casein 0.044; expanded cork 0.037; cork pasted with asphalt 0.037; diatomaceous brick 0.053; siliceo-asbestos mass 0.078; magnesite-asbestos mass 0.069; glass wool 0.036. Increase of heat cond. depends not only on the properties of the material itself but also on the size of its pores. A simple app. is described for making rapid rough measurements of the heat cond. of various materials.

A. C. ZACHIN

AS 15-314 METALLURGICAL LITERATURE CLASSIFICATION

Microfilm frame containing a document page. The page is titled "Wankowski, L., and Zaleski, J. Z. ROTARY FURNACE FOR EXTRACTION OF ALUMINIUM SALTS FROM CLAY." and contains a detailed chemical process description. The frame includes various indexing labels such as "1ST AND 2ND LETTER", "AUTHOR INDEX", "3RD AND 4TH ORDERS", "WATERMARK INDEX", "1ST AND 2ND ORDERS", "PROCESS AND PROPERTY INDEX", and "COMMON LIBRARY".

Wankowski, L., and Zaleski, J. Z. ROTARY FURNACE FOR EXTRACTION OF ALUMINIUM SALTS FROM CLAY. *Przemysl Chem.* 14, 181-88 (1937).—A rotary furnace for the continuous preparation by a modification of Rinman's method is described. A mixture consisting of 4 parts of ammonium sulfate to 1 part of alumina present in the clay is passed through a furnace, the distal three-fourths of which is maintained at 400°; where the time of passage of the reacting mass is 30 hr., 80% yields of alum are obtained, with only very small losses of ammonia. Higher temperatures cause decomposition of ammonium sulfate, but it is probable that prolongation of the duration of reaction would give practically theoretical yields. The emerging product (at about 95°) is at once placed in water, in which the alum dissolves, leaving a residue of silica, suitable for the preparation of water glass. The extract, on keeping, deposits fairly pure alum, the iron content of which is, after one recrystallization, 0.002% FeO; this degree of purity suffices for the preparation of pure aluminum.

1ST AND 2ND CODES PROCESSES AND PROPERTIES INDEX 3RD AND 4TH CODES

Ca 21

Present status of desulfurization of coke-oven gas. LUDWIG WAGLEWANG, *Freemyl Chem.* 14, 204-11(1930).—This is a crit. review of 10 methods of desulfurizing coke-oven gas now in use or on trial in Germany. The method of Petit seems most promising. The Koppers method has not yet been sufficiently evaluated on factory scale but may prove profitable later on. The future program seems to lie along the scheme of Rostin which, along with desulfurization, offers other valuable reactions between the components of coke-oven gas. A. C. ZACHLIN

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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PATENT LITERATURE AND PROPERTIES INDEX

B-I-8

MATERIALS NOTE

Loss of material and corrosion on apparatus during the preparation of solutions of ammonium nitrate. L. W. Szwarc and W. Bawarski (Przemysl Chem., 1931, 18, 61-71, 83-86).--Solutions of ammonium nitrate evolve ammonia on concentration in glass vessels; this process is most intense about 140° and ceases in slightly acid solution, so that no ammonia is lost if 0.5 g. of nitric acid per kg. of ammonium nitrate be added to the solution. In the presence of about iron the distillate contains nine times as much ammonia as in its absence; at the same time fairly large quantities of nitric acid distill over, and part of the iron dissolves. As the quantity of added nitric acid is increased, iron 0.1 to 1.0 g. per kg. of 40% solution, loss of ammonia falls from 0.4049 to 0.0069 g.; loss of nitric acid at first falls from 0.3181 to 0.1576 g.; when 0.4304 g. of nitric acid was added, and then rises to 0.0644 g. when 1.067 g. of nitric acid were added; the corrosion of iron at first rises from 0.1883 to 0.3073 g. in presence of 0.1864 g. of extra nitric acid, and falls practically to zero in higher acid concentrations, pointing to passivation of iron, the product being in these cases colorless and free from iron. Acidification of the solution by phosphoric acid (0.568 g.) gives better results than nitric acid; the loss of ammonia and nitric acid is half as great, and no corrosion takes place. Sulphuric acid, potassium hydrogen sulphate, trisodium phosphate, and calcium hydrogen phosphate are unsuitable; corrosion of iron and hydrogen phosphate are obtained in all cases. As good results as with phosphoric acid are obtained by the addition of 50 c.c. of an aqueous extract of superphosphate (350 c.c. of water to 160 g. of superphosphate) to 1 kg. of 40% ammonium nitrate. Evaporation in the presence of acid-resistant metals ("Avesta 83" and Krupp's "V2A" iron sheet) give better results in the presence of additional nitric or phosphoric acid. Evaporation in a cast-iron vessel gives unsatisfactory results when neutral solutions or solutions acidified with nitric acid are taken (considerable corrosion and loss of ammonia and nitric acid); in the presence of phosphoric acid or superphosphate extract containing 3% of sulphuric acid corrosion and loss of material are reduced to a minimum.

R. TAUZKOWSKI.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

ALPHABETIC INDEX

117 AND 118 LETTERS

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CA

PROCESSES AND PREPARATION

Material losses and corrosion of apparatus in the evaporation of solutions of ammonium nitrate. L. WASILEWSKI AND W. BADZYNSKI. *Przemysl Chem.* 15, 61-71; 83-85(1931).—Forty % NH_4NO_3 soln. was evapd. under various conditions of container or contact material, pressure, temp. and acidity or alkali. Losses of NH_3 in glass app. can be eliminated by adding a certain small excess of HNO_3 . Losses of NH_3 , HNO_3 and corrosion of container metal (Fe, Avesta 862 and Krupp VA2) in contact with the soln. in the glass evapg. flask. Excess of HNO_3 cuts down the NH_3 loss and corrosion of the metal, but of course increases the loss of HNO_3 . This can be cheaply minimized by substituting H_3PO_4 . Expts. were also performed on evapg. the soln. in cast Fe. Corrosion can be reduced very appreciably by adding H_3PO_4 or a soln. of superphosphate contg. H_2SO_4 . With 13.5 kg. superphosphate and 0.7 kg. H_2SO_4 per 1000 kg. NH_4NO_3 , a saving of 0.445 kg. NH_3 and 1.215 kg. HNO_3 is effected along with a saving of app. by the reduction of corrosion.

A. C. ZACHIN

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Application of a new method of laboratory testing of mixtures of stone, asphalt and tar. LUDWIK WAKLEWSKI AND MACIEJ MACZYNSKI. *Przemysl Chem.* 15, 124-30, 137-40 (1931).—A limestone of analytically defined properties and crushed to pass #1-20 mesh/sq. cm. served as a standard reference material. It was heated to 120° and mixed with the asphalt under test brought to the same temp. The mixt. was then briquetted hot (120°) into 60 g. samples with a pressure of 1370 kg./sq. cm. read on a precision manometer. This rather high pressure was needed to make a clear distinction between the character and behavior of different samples. A needle of 1.4-5 mm. diam. with a 45° point and somewhat similar to the needle of Vicat was made to penetrate slowly into the test briquet by the force of an applied wt. while the distance penetrated was recorded on a revolving drum. After a certain depth of penetration, completed the penetration of the rest of the briquet very rapidly. In either case showing a distinct break in the curve of time vs. distance penetrated. Although in a given series the rate of penetration varied widely the distance of penetration before failure of the briquet always occurred at the same depth. Numerically this might be expressed as the *plastic strength* of the material. By means of this app. it was possible to uncover differences in mixts. produced by the kind and proportion of stone and asphalt, and tar, to show the effect of the addn. of paraffin, and by changes sometimes produced at various temps.

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