KRATOCHVIL, J.

"The biocoenotic development of the Koog foreland" by B. Heydemann. Reviewed by J. Kratochvil. Cas entom 60 no.1/2:172 '63.

KRATOCHVIL, Jaromir, inz.

Determining the development of profitableness. Podnik organizace 17 no.1:12-14 Ja '63.

1. Ministerstvo hutniho prumyslu a rudnych dolu.

KRATOCHVIL, Jaroslav

H-8d

CZECHOSLOVAKIA/Chemical Technology, Chemical Products and Their Application, Part 2. - Elements, Oxides, Mineral Acids, Bases, Salts. - Other Elements, Oxides, Mineral Acids, Bases, Salts.

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 33076.

Author : Zdeněk Hoštálek, Jaroslav Kratochvíl.
Inst : Not given.
Title : Method of Direct Preparation of Alkali-Earth Metal Iodides with Iodine.

Orig Pub: Chem. průmysl, 1956, 6, No 12, 485-489.

Abstract: The method of preparation of alkali-earth metal iodides by a direct reaction among I_2, metallic Fe and alkali-earth metal carbonate in accordance with the equation $3CaCO_3 + 2Fe + 3I2 = 3CaI_2\ 2Fe(OH)_3 + 3CO_2$ was studied. The technology of the industrial production of CaI2

Card : 1/2

KRATOCHVIL, Jaroslav, dr.

Role of the Permanent Technical Glass Exhibition in Sazava.
Sklar a keramik 13 no.8:199 Ag '63.

1. Sdruzeni podniku technickeho skla, Sazava.

KRATOCHVIL, Jaroslav, inz.

A mine road of 1,100 meters driven by the PK-3k cutter loader at the Dukla mine within 31 working days. Uhli 6 no.11:385-386 N '64.

1. Scientific Research Institute of Coal, Ostrava-Radvanice.

KRATOCHVIL, Jiri, ing. C.Sc.; MAREK, I., prof. dr. ing. DrSc.

Preliminary static calculation of arch dams. Inz stav 13 no. 2: 108-113 '65.

Static solution of arch dams on the basis of the cylindrical shell bending theory. Ibid.:113-115

1. Chair of Hydrotechnology of the Faculty of Building of the Higher School of Technology, Brno (for Kratochvil).

[redacted], F.

Kratochvil, J.; Rosicky, B.

"The Bionomy And Taxonomy Of The Ixodorus Genus Of Lice Livin[illegible] In Czechoslovakia." P. 57. (Zoologicke A Entomologicke Listy. Vol. 1, No. 1, 1 52, Praha.)

So: Monthly List of East European Accessions, Vol. 3, No. 1. Library of Congress, [illegible], Unc.

KRATOCHVIL, J.

Kratochvil, J. Chrousti a bojs nimi. Za red. J. Kratochvila zpracov li J. Kratochvil (et al. 1. vyd.) Praha, Nakl. Ceskoslovenske akademie ved, 1953. 153 p. (Ceskoslovenska akademie ved. Veda mani zivot. Sekce biologicka, sv. 3) (Cockchafers and the fight against them. 1st ed. illus., fold. maps, bibl.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 11, Nov. 1955, Uncl.

KRATOCHVIL, J.

Present day state of Czechoslovak zoology. Chekh.biol. 2 no.3:129-137 Je '53. (MLRA 7:4)
(Czechoslovakia--Zoology) (Zoology--Czechoslovakia)

KRATOCHVIL, J.

ROSICKY, B., KRATOCHVIL, J.

Synanthropy of mammals and role of synanthropic and exotropic rodents in natural foci of diseases. Chekh biol 2 no.5:283-295 O '53. (KRAL 3:7)

1. Institut biologii ChSAN, parazitologiya, Praga, i Institut zoologii VShZ, Brno.
(RODENTS,
*transm. of infect. dis.)
(COMMUNICABLE DISEASES, transmission,
*carriers, rodents)

KRATOCHVIL, J.

gicke Listy. Praha. East Vol. 3, no. 1, Mar. 1954) (Zoologicke a Entomolo-

BARDOS, V.; BREZINA, R.; HYMPAN, J.; KMETY, E.; KRATOCHVIL, J.; LIBIKOVA, H.; MICICKA, O.; MILOSOVICOVA, A.; ROSICKY, B.; SOMODSKA, V.

A complex survey of infection foci in Eastern Slovakia in 1953. Bratisl. lek. listy 34 no.10-11:1166-1195 Oct-Nov 54.

1. Za Zoologickeho ustavu Vysokej skoly polnohosp. v Brne, prednosta prof. dr. J.Kratochvil, z Virologickego ustavu CSAV v Bratislave, riaditel' akademik D.Blaskovic, z Biologickeho ustavu CSAV v Prahe, riaditel akademik I.Malek, z Oblastneho ustavu epidemiologie a mikrobiologie v Bratislave, riaditel dr. J.Karolcek, z Neurologickej kliniky PLFSU v Kosiciach, prednosta doc. dr. J.Hympan, z KHESu v Kosiciach, riaditel dr. J.Kratochvil, z Hygienickeho ustavu LFSU v Bratislave, prednosta akademic V.Mucha

(ENCEPHALITIS, EPIDEMIC, epidemiology in Czech., foci survey in E.Slovakia)
(LEPTOSPIROSIS, epidemiology in Czech., foci survey in E.Slovakia)

[illegible], J.; [illegible], J.

The root vole (Microtus oeconomus), [illegible] of the fauna from the glacial period in Czechoslovakia. [illegible]. Contents: [illegible]. Prague, Czechoslovakia. PRICE,. Prag. Vol. 27, no. 3, 1955.

SOURCE: East European Accessions List, (EEAL), Library of Congress Vol. 5, no. 12, December 1956.

KRATOCHVIL, J.

Oldest systematic work concernin the vorte rates of Moravia and Silesia. p. 135. Brno. Moravske museum. CASOPIS. ACTA. Brno. Vol. 40, 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

The snow mouse Microtus (Chionomys) [illegible] in the Petra Mountains. [illegible] PRAG. Proc. Vol. 72, no. 2, [illegible].

SOURCE: East European Accessions List, (EEAL), Library of Congress Vol. 5, no. 12, December [illegible]6.

KRATOCHVIL, Josef

Pouzita zoologie. Cast 2. Obratlovci. (Applied Zoology. Vol. 2 Vertebrates. 2d rev. and enl. ed.) For the students of the faculties of agronomy and economics. Prague, SPN, 1957. 172 p.

Bibliograficky katalog, CSR, Ceske knihy, No. 33. 24 Sept 57. p. 716.

KRATOCHVIL, Josef

Pouzita zoologie. Cast 1. Bezobratli. (Applied Zoology. Vol. 1. Invertebrates; a university textbook. 2d rev. and enl. ed. tables) For the students of the faculties of agronomy and economics. Prague, SPN, 1957. 239 p.

Bibliograficky katalog, CSR, Ceske knihy, No. 33. 24 Sept 57. p. 716.

KRATOCHVIL, J.: [redacted]

SCIENCE

Periodical PRACE. Vol. 30, no. 9, 1958.

KRATOCHVIL, J.: [redacted] Results of the zoological expedition to Bulgaria organized by the Czechoslovak Academy of Sciences. Pt. 1. p. 371.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959.
Unclassified

KRATOCHVIL, J.

SCIENCE

Periodical PRACE. Vol. 30, no. 9, 1958.

KRATOCHVIL, J. Spiders Cyphophthalami and Laniatores in Bulgaria. p. 372.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959.
Unclassified

KRATOCHVIL, JOSEF, ed.

Hrabos poini. Microtus arvalis. (Josef Kratochvil a spolupracovnici. L. vyd.)

Praha, Czechoslovakia, Nakl. Ceskoslovenske akademie ved, 1959. 359 p.

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

KRATOCHVIL, Y.

Description of new family of harvestmen (Giljaroviinae, Nemastomatidae) with a key to the genera of Nemastomatidae. Zool.shur. 38 no.9:1344-1352 S '59. (MIRA 13:1)

1. Zoologicheskiy institut Vysshey shkoly sel'skogo i lesnogo khozyaystva (Brno, Chekhoslovakiya).
(Phalangida)

KRATOCHVIL, Josef, prof., dr. (Brno, Jiraskova 47)

On morphology of Caeculus echinipes (Acarina, Caeculidae). Cas entom 59 no.2:174-182 '62.

1. Institut de zoologie de l'Universite d'agriculture, Brno.

L 11393-65 Pa-4 AFTC(b)/AMD
ACCESSION NR: AP4049756 Z/0049/64/000/007/0562/0564

AUTHOR: Kratochvil, J.

(B)

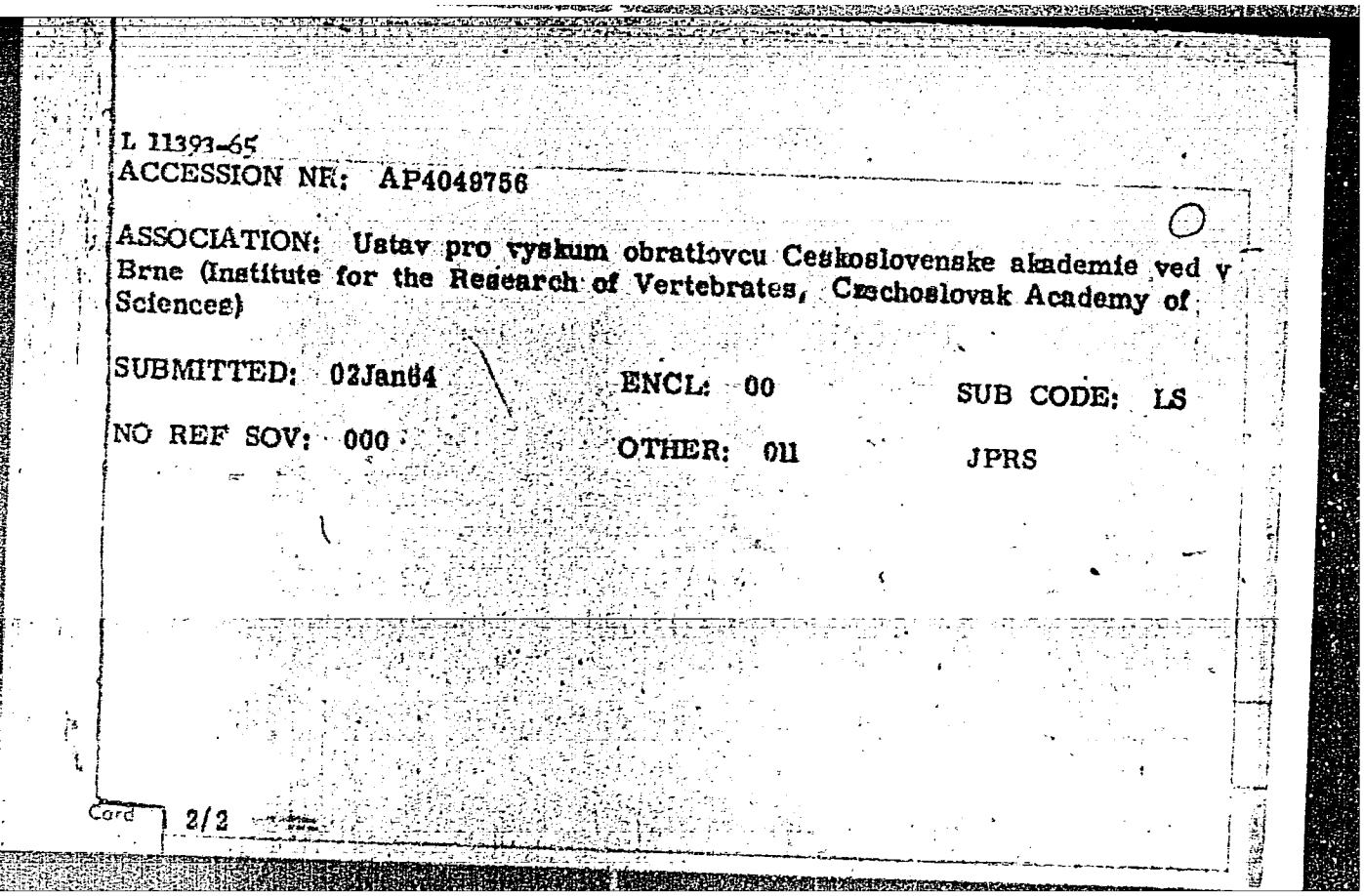
TITLE: Studies of Kahmann (1961) and Ferianc (1963) dealing with the occurrence of Apodemus Agrarius

SOURCE: Biologia, no. 7, 1964, 562-564

TOPIC TAGS: zoology, ecology, bionomics, mammal, mouse, river, rodent

Abstract: The author believes that KAHMANN's theory that the expansion of Apodemus takes place upwards, against the flow of the river Morava is not yet proved. It seems, that not even at Zitny Ostrov the occurrence of the mouse has been fully established. Existence of the mammal in Austria, and in the South of Slovakia is discussed. It is stated that the occurrence of a small mammal at a given time should be considered as a dynamic, not static factor, because the number of animals of a kind may very drastically according to circumstances from one period to another.

Card 1/2



L 11393-65
ACCESSION NR: AP4049756

ASSOCIATION: Ustav pro vyskum obratlovcu Ceskoslovenske akademie ved v Brne (Institute for the Research of Vertebrates, Czechoslovak Academy of Sciences)

SUBMITTED: 02Jan64 ENCL: 00 SUB CODE: LS

NO REF SOV: 000 OTHER: 011 JPRS

Card 2/2

KRATOCHVIL, Josef

The male sex organ of Spalax leucodon hungaricus Nehring, 1897. Acta theriolog 8 no.1/16:189-206 '64.

1. Institute of Vertebrate Zoology of the Czechoslovak Academy of Sciences, Brno.

KRATOCHVIL, K.

Diagnosis and treatment of [illegible] carcinoma. K. Kratochvil
([illegible] Wschr., 1953 65, [illegible])

KRATOCHVIL, K.

A Czechoslovak supersonic apparatus for determining the mechanical properties of concrete roadways. p. 242. (Inzenyrske Stavby, Vol. 5, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957, Uncl.

KRATOCHVIL, Karel

Reconstruction of a magnetic roasting line. Sbor Vyzk ust Mnisek 4:63-75 '64.

1. Research Institute of the Zelezorudne doly a hrudkovny National Enterprise, Mnisek.

PSYCHIATRIA NEUROL Dec 10 Vol.9/6 Psychiatrie June 56

1047. KRATOCHVÍL L. Okresní Úst. národního zdraví Písek. Epilepsie v těhotenství. Záchvaty typu petit mal jako indikace k interrupci gravidity. Petit mal seizures as indication for interruption of the pregnancy. ČAS. LÉK. ČES. 1954, 93/44 (1223-1224)

A woman of 22 years had petit mal seizures since the age of 12 years. In the 4th month of pregnancy the seizures increased and it was not possible to control them by drugs. Symptoms of brain oedema began to be manifest. After interruption of the pregnancy the seizures disappeared immediately. Even 3 weeks after the laparotomy the patient was quite well. The drug treatment was continued. The EEG findings were at that time normal. Henner - Prague (VII)

KRATOCHVIL, Ludek, inz.; UHRICEK, Vladimir, inz.

Outlook for heavy motor trains. Automobil 6 no.12:370-373 D '62.

HERMACH, Jaroslav; KRATOCHVIL, Ludek, inz.

Operational experiences with the Skoda RTO-K prototype and its economic evaluation. Automobil 7 no.2:42-44 F '63.

1. Vyzkumny ustav dopravni, Praha.

KRATOCHVIL,L.

"The Mechano-Therapy of Disc Dislocation with Employment of Intravenous Narcosis."

SO: Neurol. a psych., Prague, Vol. 16 (1953), No. 4, pp. 214-213.

KRATOCHVIL, L., Dr.; MLADEK, Dr.; PODLAHA, Dr.

Problem of differential diagnosis of non-paralytic form of poliomyelitis. Prakt. lek., Praha 35 no.17:392-393 5 Sept 55.

1. Z infekcniho oddeleni (prednosta MUDr. RNDr. F. Mladek) a neurologickeho oddeleni (prednosta MUDr. L. Kratochvil) OUNZ-nemocnice v Pisku.
(POLIOMYELITIS, differential diagnosis non-paralytic)

KRATOCHVIL, L.; MACHACEK, M.

Craniocerebral injuries in children resembling extracerebral hematomas. Acta chir. orthop. traum. cech. 26 no.2:108-110 Mar 59.

1. Neurologicke oddeleni OUNZ Pisek, prednosta MUDr L. Kratochvil Chirurgicke oddeleni OUNZ Pisek, prednosta MUDr. M. Machacek.
(BRAIN, wds. & inj.
craniocerebral inj. in child., differ. diag. from extracerebral hematoma (Cz))
(HEMATOMA, in inf. & child
extracerebral hematoma, differentiation from craniocerebral inj. (Cz))

PODLAHA,M.; KRATOCHVIL,L.

Familial dysplasia of the metaphysis — Pyle's disease. Cesk. rentgen. 18 no.3:203-207 My'64.

1. Ustredni rentgenologicke oddeleni OUNZ v Pisku;(vedouci: MUDr. M.Podlaha) a Neurologicke oddeleni OUNZ v Pisku (vedouci: MUDr. L.Kratochvil).

*

KRATOCHVIL, L.

Subacute van Bogaert's sclerosing encephalitis with remittent course. Cesk. neurol. 27 no.5:349-351 S '64.

1. Neurologicke oddeleni Obvodniho ustavu narodniho zdravi v Pisku, (vedouci MUDr. L. Kratochvil).

KRATOCHVIL, Lubomir

CZECH

Paper electrophoresis in agricultural biochemistry. II. Separation and quantitative estimation of fractions of casein prepared according to Hammarsten. Milan Kuráček and Lubomír Kratochvíl (Vysoká škola zemědělská, Výzkumný ústav pro mlékárenství, Prague). *Sborník Československé Akad. Zemědělské Věd, Sér. A*, 27, 353-62(1954); cf. *C.A.* 48, 5250c. —Proteins of cow milk were investigated by paper electrophoresis (I). Proteins of whey, unlike the fractions of casein, are easily separable by I. Suitable conditions were found for the sepn. of the fractions of casein by I. I analysis of casein shows the presence of 3 components, which is in agreement with the results of classical electrophoresis by Tiselius (*C.A.* 46, 562g). The existence of gamma casein, doubted by some investigators, was confirmed by I. Quant. evaluation of the paper electrophoregrams by densitometry and after elution is in agreement with the classical electrophoresis by Tiselius. Jan Micka

KRATOCHVIL, L.

Manufacturing butter according to Mileshin's method. p. 202, SOVETSKA VEDA: POTRAVINARSTVI (Ceskoslovenska akademie ved. Chemicka sekce) Praha, Vol. 3, No. 3, 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 1955

[redacted], L.

"Homogenization of milk in milk pumps and its effect on the degree of milk separation in cream separators."

[redacted]. Praha, Czechoslovakia. Vol. 6, no. 10, 1956

Monthly List of West European Accessions ([illegible]), LC, Vol. [illegible], No. [illegible], Jun 59, Unclas

Country	: GDR	
Category	: Chemical Technology. Chemical Products and Their Applications. -- Food Industry.	H-28
Abs. Jour.	: R. Zh. - Khim., No. 11, 1959	40540
Author	: Kratochvil, L. and Vedlich, M.	
Institut.	: Not given	
Title	: Fat Losses in Buttermilk with Various Types of Cream Pasteurization Procedures	
Orig Pub.	: Milchwissenschaft, 12, No 10, 394-397 (1957)	

Abstract : The authors report on semiplant scale comparison tests on the pasteurization of milk in film pasteurizers (FP) and drum pasteurizers (DP). It has been found that the fat content in the buttermilk obtained from the cream pasteurized in DP on the average is 0.25% higher than that in buttermilk from FP processed cream. Similar plant scale tests have shown a difference of 0.20%. Investigations of the fat globule diameters have shown that DP processed cream contains a considerable proportion of globules with diameters of under 1.6 microns. DF processing results in a partial disintegration of the fat

Card: 1/2

KRATOCHVIL, L.

TECHNOLOGY

Periodicals: PRUMYSL POTRAVIN Vol. 9, No. 12, Dec. 1958

CERNA, E. : KRATOCHVIL, L. Application of protein tests in the cheece industry. p. 636

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

KUTACHEK, M. [KUTACEK, M.], KRATOCHVIL, L. [KRATOCHVIL, L.]

Paper electrophoretic investigation and sepration of milk serum proteins from healthy cows and cows infected with brucelloisis [with summary in German]. Biokhimiia 23 no.3:471-474 My-Je '58
(MIRA 11:8)

1. Kafedra khimii agronomicheskogo fakul'teta Nauchno-issledovatel'skogo instituta molochnoy promyshlennosti, Praga, Chekhoslovakiya.
(PAPER ELECTROPHORESIS)
(MILK--ANALYSIS)
(BRUCELLOSIS IN CATTLE)

KRATOCHVIL, L.; VEDICH, M.

Improving the manufacturing process of lecithin by a deodorization process and by introducing K. Fischer's method for water determination. p. 18

PRUMYSL POTRAVIN. (Ministerstvo potravinarskyho prumyslu) Praha, Czechoslovakia. Vol. 10, no. 1, Jan. 1959

Monthly List of East European Accessions (FEAI), LV, Vol. 8, no. 7, July 1959
Uncl.

KRATOCHVIL, Lubomir, inz., Sc.C.; VEDLICH, Miloslav

Churning butter from stored cream. Prum potravin 13 no.9:473-479 S '62.

1. Vyzkumny ustav mlekarensky, Praha.

KRATOCHVIL, Lubomir, inz.; VEDLICH, Miloslav

Controlling the water content in butter in the continuous production of the Czechoslovak 4 MVC churn. Prum potravin 14 no.5:257-261 My '63.

1. Vyzkumny ustav mlekarensky, Praha.

KRATOCHVIL, Lubomir, inz., CSc.; VEDLICH, Miloslav

Storing butter made in continuous churns in retail trade packages.
Prum potravin 14 no.8:400-406 Ag '63.

1. Vyzkumny ustav mlekarensky, Praha.

KRATOCHVIL, Lubomir, inz., CSc.; VEDLICH, Miloslav

Effect of the cream temperature and other factors on the consistency of butter. Prum potravin 14 no. 12:626-628 D '63.

1. Vyzkumny ustav mlekarensky, Praha.

KRATOCHVIL, Lubomir, inz. CSc.;

Control of the quality of and dairy products in the German Democratic Republic. Prum potravin 15 no. 6:290-293 Je '64.

1. Institute of Dairy Research, Prague.

KRATOCHVIL, Ludek, inz.

Modern analysis of road transportation. Siln doprava 11 no.5:24 My '63.

S/273/63/000/002/002/010
A052/A126

AUTHORS: Křivan, Zdeněk, Čadek, Otto, Kratochvil, Maximilian, Kliment, Vladimír, Svátek, Jiří, Janutka, Josef, Ostrouchov, Mikuláš

TITLE: Internal combustion engine with supercharged turbocharger

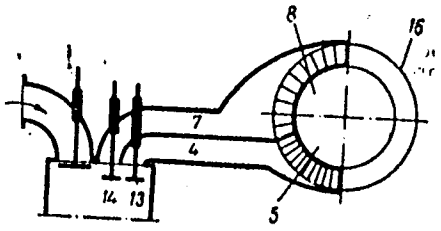
PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, 39. Dvigateli vnutrennego sgoraniya, no. 2, 1963, 11 - 12, abstract 2.39.77 P (Czech. pat., cl. 46f, 5/03, 46f, 8/02, no. 98178, January 15, 1961)

TEXT: To better utilize the energy of exhaust gases it is proposed to supply them in two streams 4 and 7 (see Fig.) to the guiding apparatus of the gas turbine 16, the blades of which have such a form in each of two sections 5 and 8 that the circumferential components of gas velocities are equal.. In a 4-cycle engine 2 exhaust valves 13 and 14 are mounted; the valve 14 opens later than the valve 13. A variant of an engine with an outlet slide valve instead of two valves is described as well as a variant of a 2-cycle engine with two channels connected to the outlet ports. There are 2 figures.

Card 1/2

Internal combustion engine with supercharged S/273/63/000/002/002/010
A052/A126

Figure



A. Zhukov

[Abstracter's note: Complete translation]

Card 2/2

KRATOCHVIL', M., inzh.

Present state of the development of two-cycle diesel engines in Czechoslovakia. Izv.vys.ucheb.zav.; mashinostr. no.4:59-71 '59. (MIRA 13:4)

1. Predstavitel' Nauchno-issledovatel'skogo dizel'nogo instituta, Praga, Chekhoslovakiya.
(Czechoslovakia--Diesel engines)

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81704.

Author : Kratochvil M , Frejka J.
Inst
Title : The Reaction Between Silicon Tetrachloride With Tetrahydrofuran.

Orig Pub: Chem. listy, 1958, 52, No 1, 151-152.

Abstract: By the reaction of $SiCl_4$ with tetrahydrofuran (I) in the presence of catalytic amount of concentrated HCl, tetra[kis-]*(4-chlorobutoxy)-silane (II) is formed, together with 1-chlorobutanol-4, and a mixture of chlorobutoxy silanes. After boiling 1.25 moles of I with 0.25 moles of $SiCl_4$ and 1 ml of concentrated HCl for 6 hours, an additional 0.5 moles of I is added to the mixture with intensive cooling.

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*[sic]

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81704.

II is obtained in a 19% yield, b.p. 206-208°C./ 1.5 mm., $n^{20}D$ 1.4650, d^{20}_{4} 1.175 The reaction does not take place in the absence of HCl. In the presence of $AlCl_3$, $SbCl_3$ or $ZnCl_2$ (10-15%), mainly the polymerization of I takes place.

Card : 2/2

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81639

Author : Kratochvil M., Frejka J
Inst :
Title : The Preparation of the Acid Chloride, 3-CHlorotetrahydro-furfuryl Acetic Acid

Orig Pub: Chem. listy, 1958, 52, No 1, 152-153.

Abstract: The acid chloride (II) of 3-chlorotetrahydrofurfuryl acetic acid (IIa) was obtained by the reaction of 2,3-dichlorotetrahydrofuran (I) with ketene in the presence of 0.1% anhydrous $ZnCl_2$. The catalyst in the amount of > 5% leads to the polymerization of I. Once more 0.5 moles of I is passed through the reaction column with the addition of 0.01 grams of calcined $ZnCl_2$ dissolved in 20 ml ether at 30°C and

Card : 1/2

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81639

introducing ketene at the rate of 11-12 grams per hour, and the main fraction was distilled (44 grams) with a boiling point of 105-105.5°C./11 mm , $n^{20}D$ 1 4876, d^{20}_{20} 1.2694 Methyl ester (II-a) of (II-b) was obtained from the crude reaction mixture by the addition of 50 ml of anhydrous methanol and boiling for 30 minutes Afterwards the acetic acid formed is distilled at normal pressure; 2-methoxy-3-chlorotetrahydrofurane (from the unreacted I), b.p. 60-63°C/28 mm , and II-b, yield 54%, b.p 108-109°C./ 9 mm., $n^{20}D$ 1 4652, d^{20}_{20} 1 2592 II-b was also obtained in a 98 3% yield by boiling 10 grams of the separated II for 30 minutes with 2 grams of anhydrous methanol.

Card : 2/2

KRATOKHVIL, M.

KRATOKHVIL [Kratochvil], M.

Reactions of chlorinated furanidine. Part 2: Synthesis of substituted 2-alkoxy-3-chlorotetrahydrofurans. Coll Cz Chem 25 no.5:1351-1358 My '60.

1. Voroshilovgradskaya akademiya im. A.Zapototskogo, Brno.

S/081/62/000/024/047/073
B106/B186

AUTHOR: Kratochvíl, M.

TITLE: Reactions of chlorinated furanidines. III. Unsaturated acetals of the furanidine series. IV. Synthesis and properties of some β-chloro-alkoxy-tetrahydrofurans

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1962,354 - 355, abstract 24Zh261 (Collect. Czechosl. Chem. Communs, v. 27, no. 2, 1962, 465-467 [Ger.; summary in Russ.]; no. 3, 742 - 750 [Russ.; summary in Ger.])

TEXT: III. From 2-R-5-R'-furanidines [Ia R = $Cl(CH_2)_2O$, Ib R = Cl, Ic R = R' = Cl; R, not denoted are always H] the corresponding derivatives are obtained (Id R = CH_2 = CHO; Ie R = CH_2 = $CHCH_2O$; If R = R' = CH_2 = $CHCH_2O$; Ig R = CH_2 = $CHCH_2O$, R' = Cl). 0.5 moles of Ia are stirred into a mixture of 50 g pulverized KOH and 80 ml of $N[(CH_2)_2OH]_3$ in the course of 3 hrs, the product is steam-distilled at 160-170°C (b.p. 98-105°C) and twice

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fractionated over pulverized KOH. Id, $C_6H_{10}O_2$, yield 31 %, b. p. 126 - 128°C/732 mm Hg, n_D^{20} 1.4412, d_4^{20} 0.9782 is obtained. 0.2 moles of Ia are stirred dropwise into a solution of 30 g anhydrous NaI in 160 ml anhydrous acetone in the course of 1 hr (60-70°C). It is then boiled for 4 hrs, 120 ml of acetone are distilled off, it is cooled, the salt is dissolved in water, an extraction with ether is made, and the extract is concentrated by evaporation at 30°C/45 mm Hg. The residue is treated with KOH, as described above. Id is obtained, yield 44.6 %. 25 g $CH_2{=}CHCH_2OH$ (II) is mixed with 0.05 g anhydrous $ZnCl_2$ (-10°C). A solution of 0.3 moles of Ib in 20 ml of dry ether, cooled to -10°C, is stirred dropwise into the mixture, the HCl gas is removed in vacuo, the temperature slowly raised to 60-65°C and kept there until HCl evolution is finished. Distillation gives Ie, $C_7H_{12}O_2$, yield 76 %, b.p. 46-46.5°C/12 mm Hg, n_D^{20} 1.4398, d_4^{20} 0.9696. In the same way Ig, $C_7H_{11}ClO_2$, yield 48 %, b.p. 72-73°C/10 mm Hg, 76-78°C/12 mm Hg, n_D^{20} 1.4611, d_4^{20} 1.1270, and If, $C_{10}H_{16}O_3$, yield 36 %, b.p. 94-95°C/12 mm Hg, n_D^{20} 1.4543, d_4^{20} 1.0249,

are obtained from 0.5 mole of Ic and 60 g II. A mixture of Ib and Ic, obtained by chlorination of tetrahydrofuran (III), and 60 g II give, as described above: Ie, yield 21 g, Ig, yield 12.7 g, and If, yield 21.6 g. The data of the infrared spectrum for Id are given.

IV. By reaction of Ib and Ic with ethylene oxide (IV), propylene oxide (V), and epichlorohydrin (VI), the corresponding furanidines [In R = $O(CH_2)_2Cl$; Ii R = CH_3CHOCH_2Cl; Ik R = $ClCH_2CHOCH_2Cl$; Il R = $O(CH_2)_2Cl$, R' = Cl; Im R = R' = $O(CH_2)_2Cl$; In R = CH_3CHOCH_2Cl, R' = Cl], and Ia were obtained. The behavior of Ih-n under solvolysis conditions was studied. Ia gave I [R = $C_2H_5O(CH_2)_2O$] (Io), while 2-R-3-chlorotetrahydrofuran [VIIa R = $Cl(CH_2)_2O$, VIIb R = $ClCH_2CHOCH_3$, VIIc R = $(ClCH_2)_2CHO$] yielded the following derivatives: [VIId R = $CH_3COO(CH_2)_2O$, VIIe R = $C_2H_5O(CH_2)_2O$, VIIf R = $CH_2{=}COCH_3$, VIIg R = $CH_2{=}COCH_2OC_2H_5$, VIIh R = $HO(CH_2)_2O$)] ,as well as $CH_3COO(CH_2)_2CHClCH(OOCCH_3)O(CH_2)_2OOCCH_3$ (VIII). A mixture of 0.3 moles

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of Ib and 50 ml dry CCl_4, cooled down to -10 to -15°C is added dropwise to a mixture of 0.3 moles of IV, 10 ml CCl_4 and 0.02 g anhydrous $ZnCl_2$ (temperature not higher than -5°C). CCl_4 and ca. 2 ml VI (b.p. 40-42°C/16 mm Hg) are distilled in vacuo; the main fraction (74-78°C/10 mm Hg) gives, after repeated distillation, Ih, $C_6H_{11}ClO_2$, yield 92 %, b.p. 75 - 76°C/15 mm Hg, n_D^{20} 1.4530, d_4^{20} 1.1453. In the same way (in the case of Il-n, 0.08 g $ZnCl_2$ is used and I is added to the epoxide) Ii-n are obtained (the data are given in the following order: initial materials, their molar ratio, medium, reaction temperature in °C, product, gross formula, yield in %, b.p. in °C/mm Hg, n_D^{20}, d_4^{20}): Ib, V, 0.1:0.1, III, -5,to -20, Ii, $C_7H_{13}ClO_2$, 85, 75-76/12,1.4488, 1.0996; Ib, VI, 0.3:0.3, ether, -5 to +20, Ik, $C_7H_{12}Cl_2O_2$, 89, 110.5-111/13, 1.4739, 1.2450; Ic, IV, 0.1:0.2, CCl_4, -5 to -10, Il, $C_6H_{10}Cl_2O_2$, 29, 108-108.5/16, 1.4737, 1.2794; Ic, IV, 0.1:0.2, CCl_4, -5 to -10, Im, $C_8H_{14}Cl_2O_3$, 57,

130-131/8, 1.4740, 1.2444; Ic, V, 0.1:0.2, ether, -5 to +20, In, $C_7H_{12}Cl_2O_2$, 55, 105-106/12, 1.4870, 1.2275. The yields of Im and In in III medium amount to 13 % and 64 %, respectively. A mixture of 1 mole of III and 10 ml of CCl_4 is chlorinated for 2 hrs at -25°C (UV.irradiation), the HCl gas being removed by bubbling through dry N_2 and by vacuum. 45 g IV, 20 ml of dry CCl_4, and 0.06 g anhydrous $ZnCl_2$ are added to the mixture (temperature below -5°C); 25 g Ih, 13 g Il and 18 g Im are obtained by distillation. 0.2 moles of Ia are added to a solution of 15 g KOH in 100 ml of absolute alcohol, the mixture is heated to 60-70°C for 4 hrs, is filtered, and the precipitate is washed with ether. Distillation of the filtrate yields Io, $C_8H_{16}O_3$, yield 56.6 %, b.p. 83.5 - 84°C/15 mm Hg, n_D^{20} 1.4384, d_4^{20} 1.0412. In the same way (heating for 6 hrs), VIIa gives VIIe, $C_8H_{15}ClO_3$, yield 48.8 %, b.p. 112-114°C/14 mm Hg, n_D^{20} 1.4538, and VIIc (25 g KOH in 200 ml alcohol) VIIg, $C_9H_{15}ClO_3$, yield 59 %, b.p. 118-121°C/16 mm Hg, n_D^{20} 1.4688, d_4^{20} 1.1442. Similarly (80 ml of alcohol) one

obtains VIIf, $C_7H_{11}ClO_2$, yield 56.5 %, b.p. 92-94°C/14 mm Hg, n_D^{20} 1.4640, d_4^{20} 1.1208, from 0.125 moles of VIIb. A mixture of 0.2 moles of VIIa with a solution of 40 g CH_3COONa in 120 ml alcohol is heated to 160-165°C in sealed tubes for 6 hrs, and filtered; the distillate obtained at 120°C/752 mm Hg is removed, ether is added, and filtered. One obtains by distillation VIId, $C_8H_{13}ClO_4$, yield 63 %, b.p. 128-129°C/11 mm Hg, n_D^{20} 1.4603, d_4^{20} 1.2271. A mixture of 0.25 moles of VIIa, 5 ml of C_5H_5N and of a solution of 0.5 moles of anhydrous CH_3COOK in 120 ml alcohol is boiled for 3 hrs and treated as in the previous experiments. VIId, yield 7.1 %, is obtained. A mixture of 0.1 mole of VIId, 30 g $(CH_3CO)_2O$ and 0.2 g anhydrous $ZnCl_2$ is boiled for 4 hrs (temperature not higher than 130°C). Distillation gives VIII, $C_{12}H_{19}ClO_7$, yield 32 %, b.p. 142-144°C/3 mm Hg, n_D^{20} 1.4565, d_4^{20} 1.2090, and $CH_3COO(CH_2)_2OOCCH_3$, yield 31 %. A mixture of 7.8 g VIII with a solution of 4.5 g KOH in 30 ml water is boiled for 2 hrs, and the aqueous layer is extracted with ether. VIIh, $C_6H_{11}ClO_3$, b.p. 125 - 127°C/10 mm Hg, n_D^{20} 1.4724, d_4^{20} 1.2568 is obtained from the extract

Reactions of chlorinated ...

by distillation. For communication II: see RZhKhim, 1961, 11Zh165.
[Abstracter's note: Complete translation.]

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SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

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1. Z Ustavu uzitej anatomie, prednosta dr. M.Kratochvil, z I. chirurgickej kliniky, prednosta prof. dr. K.Carsky, a z II. chirurgickej kliniky LFSU v Bratislave, prednosta clen coresp. SAV K.Siska.

(FISTULA, experimental,
Eck's & Pavlov, technic of portacaval anastomosis in)
(VEINS, PORTAL SYSTEM, surgery,
portacaval anastomosis in Eck's & Pavlov's fistulas)
(VENAE CAVAE, surgery,
portacaval anastomosis in Eck's and Pavlov's fistulas)

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(NITROGEN, metabolism,
utilization from protein hydrolysates in dogs, determ. with Eck's & Pavlov's fistulas)
(PROTEINS,
hydrolysates, utilization of nitrogen from protein hydrolysates, determ. with Eck's & Pavlov's fistulas)

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(HYPERTENSION
pulm. in surg. pulm. dis., catheterization of heart & pulm. artery)
(LUNGS, diseases
surg., pulm. hypertension elimination by catheterization)
(HEART
catheterization in surg. pulm. dis.)
(ARTERIES, PULMONARY
catheterization is surg. pulm. dis.)

CZECHOSLOVAKIA / Human and Animal Morphology (Normal and Pathological). Blood-Vascular System. Vessels. S-5

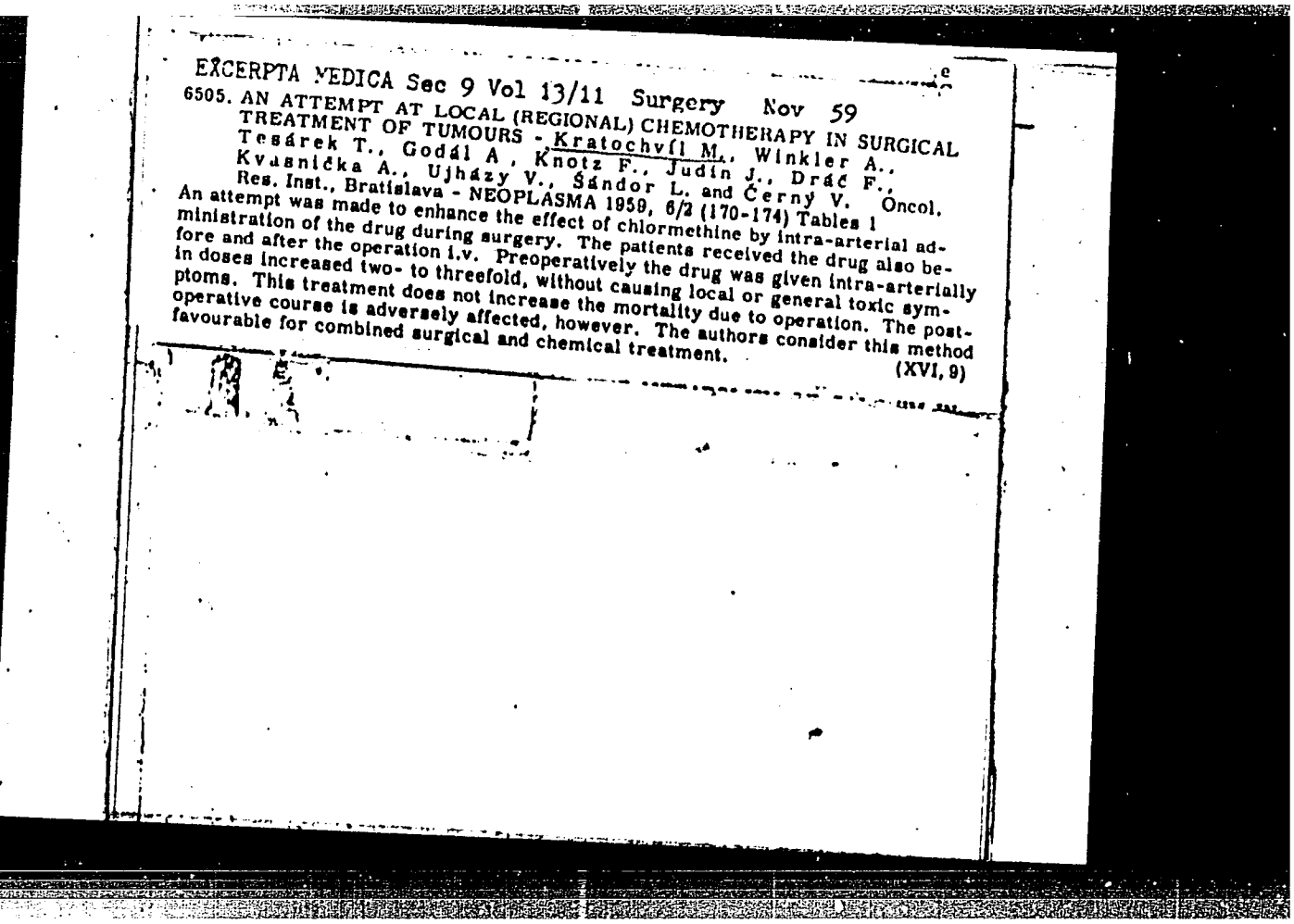
Abs Jour: Ref Zhur-Biol., No 17, 1958, 79143.

Author : Kratochvil, M., Kapeller, K., Godal, A.
Inst : Not given.
Title : Several Signs of Subterminal and Terminal Ramification of Portal and Arterial Blood Vessels in the Human Liver.

Orig Pub: Ceskosl. morfol., 1957, 5, No 3, 227-236.

Abstract: A study of the corrosive mounts of vessels of the human liver confirmed on the whole, the results of the investigations of Elias (Amer. J. Anat., 1949, 85, 379). In addition, it was established that the small partitioning veins do not proceed in parallel with the interlobar veins, but proceed away from them at under a direct an-

Card 1/2



EXCERPTA MEDICA Sec 9 Vol 13/11 Surgery Nov 59

6505. AN ATTEMPT AT LOCAL (REGIONAL) CHEMOTHERAPY IN SURGICAL TREATMENT OF TUMOURS - Kratochvíl M., Winkler A., Tesárek T., Godál A., Knotz F., Judin J., Drác F., Kvasnicka A., Ujházy V., Sándor L. and Černý V. Oncol. Res. Inst., Bratislava - NEOPLASMA 1959, 6/2 (170-174) Tables 1

An attempt was made to enhance the effect of chlormethine by intra-arterial administration of the drug during surgery. The patients received the drug also before and after the operation i.v. Preoperatively the drug was given intra-arterially in doses increased two- to threefold, without causing local or general toxic symptoms. This treatment does not increase the mortality due to operation. The postoperative course is adversely affected, however. The authors consider this method favourable for combined surgical and chemical treatment. (XVI, 9)

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(LIVER neopl.)

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Czechoslovakia

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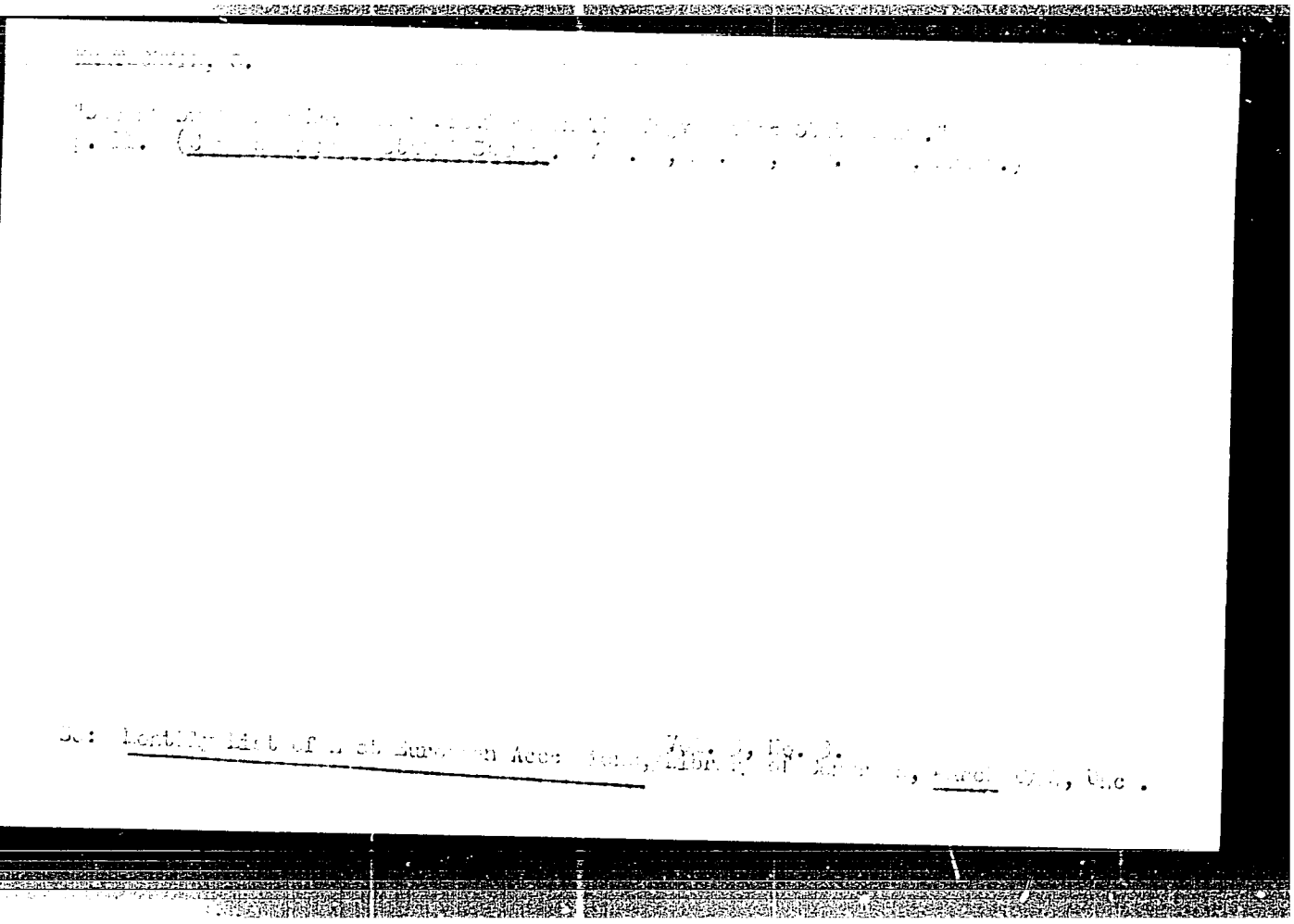

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Abs Jour : Ref Zhur - Khimiya, No 24, 1958, 83637

Author : Weigner, J.A., Kratochvil, P., Kudlacek, Vl., Havel, St.
Inst : -
Title : Para Cresol as a Side Product in the Manufacture of New Varnishes.

Orig Pub : Chem. prumysl, 1956, 6, No 6, 221-225.

Abstract : No abstract.

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(Albumins)

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