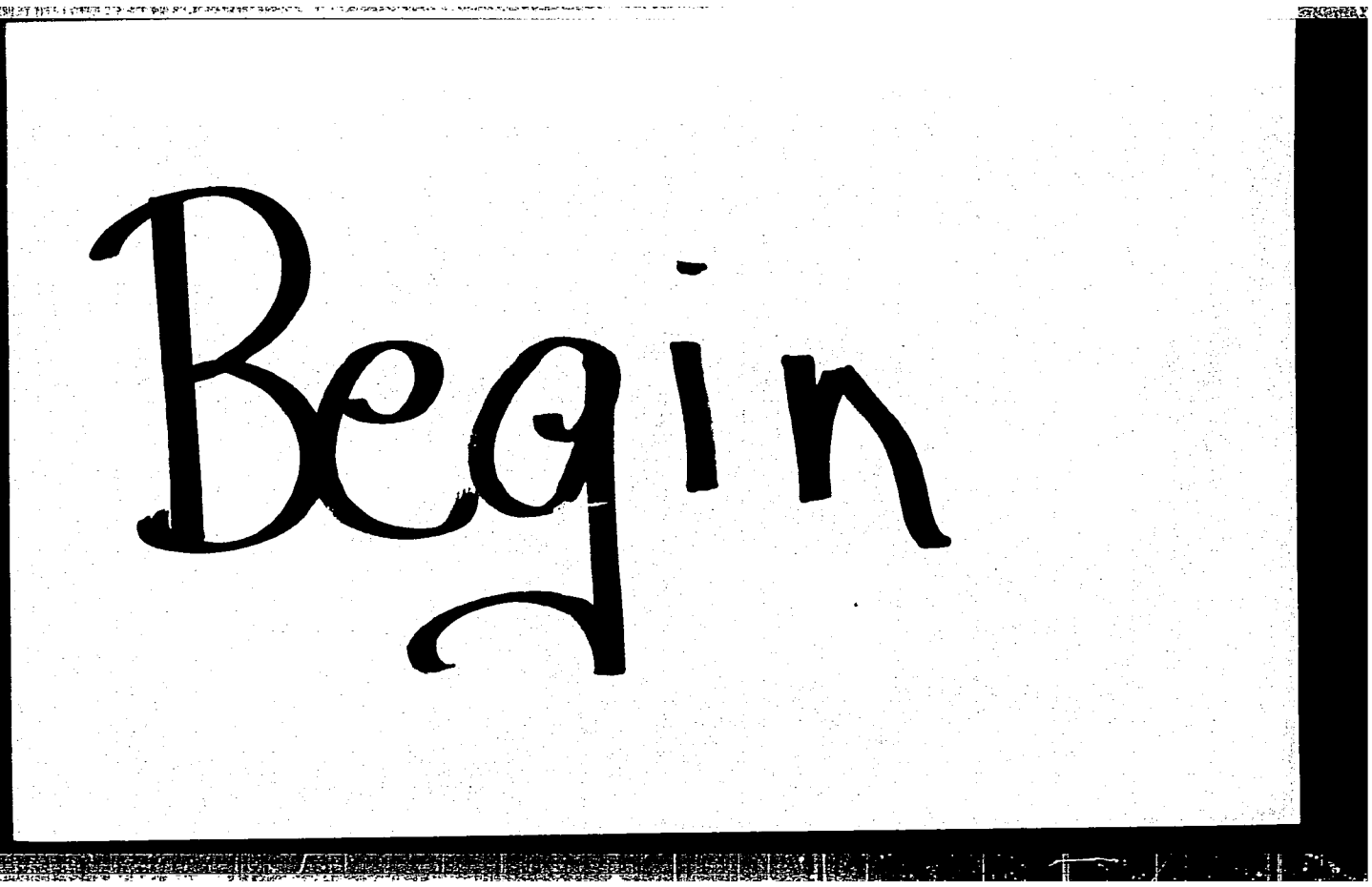

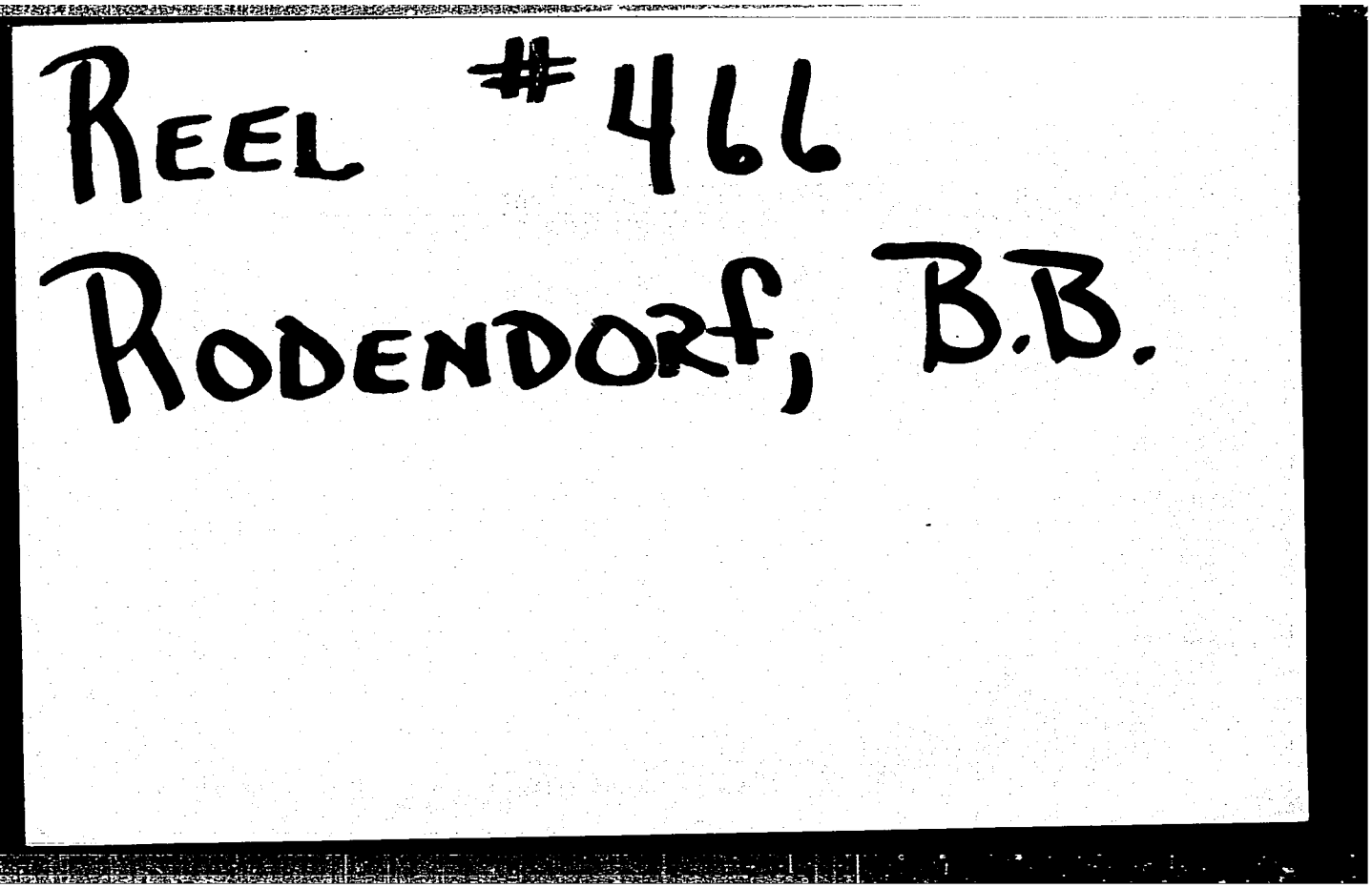

RODENDORF, B.B.

The oldest infrarder of dipterans from the Triassic of Central Asia. Paleont. zhur. no.2:90-100 '61. (MIRA 14:6)

1. Paleontologicheskiy institut AN SSSR.
(Issyk-kul' region--Diptera, Fossil)

SUVOROVA, Nina Petrovna; RODENDORF, B.B., ovt.red.; MESSNER, O.M., red.izd-va; KARPOV, V.P., tekhn.red.

[Cambrian trilobites from the eastern part of the Siberian Platform] Trilobity kembriia vostoka Sibirskoi platformy. Moskva, Izd-vo Akad. nauk SSSR. No. 2 [Olenellids - granulariids] Olenellidy - granulariidy. 1960. 238 p. (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, vol.84). (MIRA 13:12)

(Siberian Platform--Trilobites)

RODENDORF, B.B.

"Biology of tachinids (Diptera, Tachinidae) of the western Palaeartic" [in German] by Benno Herting. Reviewed by B.B. Rodendorf. Ent. oboz. 39 no.4:971-974 '60. (MIRA 14:3)

(Tachinid flies)
(Herting, Benno)

RODENDORF, B.B.

Paleoentomology in China. Biul. MOIP. Otd. geol. 35 no. 3:168-169 My-Je '60. (MIRA 14:2)

(China--Insects, Fossil)

RODENDORF B B

ORLOV, Yu.A., glavnyy red.; MARKOVSKIY, B.P., zam.glavnogo red.; RUZHENTSEV, V.Ye., zamestitel' glavnogo red.; SOKOLOV, B.S., zamestitel' glavnogo red.; EBERZIN, A.G., otv.red.toma; KIPARISOVA, L.D., red.; SHIMANSKIY, V.N., red.; VAKHRAMEYEV, V.A., red.; GEKKER, R.F., red.; GROMOVA, V.I., red.; DAVITASHVILI, L.Sh., red.; KRYMGOL'TS, G.Ya., red.; LUPPOV, N.P., red.; OBRUCHEV, D.V., red.; OVECHKIN, N.K., red.; POKROVSKAYA, I.M., red.; PCHELINTSEV, V.F., red.; RADCHENKO, G.P., red.; RAUZER-CHERNOUSOVA, D.M., red.; RODENDORF, B.B., red.; ROZHDESTVENSKIY, A.K., red.; FLEROV, K.K., red.; FURSENKO, A.V., red.; KHABAKOV, A.V., red.; CHERNYSHEVA, N.Ye., red.; KORDE, K.B., red.izd-va; POLENOVA, T.P., tekhn.red.

[Fundamentals of paleontology; reference book in 15 volumes for paleontologists and geologists of the U.S.S.R.] Osnovy paleontologii; spravochnik dlia paleontologov i geologov SSSR v piatnadtsati tomakh. Moskva, Izd-vo Akad.nauk SSSR. Vol.3. [Mollusks: Loricata, Bivalvia, Scaphopoda] Molliuski - pantsirnye, dvustvorchatye, lopatonogie. Otvet.red. A.G.Eberzin, 1960. 299 p. (MIRA 14:1)
(Mollusks, Fossil)

BEKKER-MIGDISOVA, Yelena Ernestovna; RODENDORF, B.B., prof., doktor biol.nauk, otv.red.: MATVEYENKO, T.A., red.izd-va; VOLKOVA, V.V., tekhn.red.

[New Permian homopterans from the European part of the U.S.S.R.] Novye permskie ravnokrylye Evropeiskoi chasti SSSR. Moskva, Izd-vo Akad.nauk SSSR, 1960. 111 p (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, vol. 76) (MIRA 13:4)

(Homoptera, Fossil)

RODENDORF, B.B.

Problems of paleozoological systematics. Paleont.zhur. no.3: 15-26 '59. (MIRA 13:4)

1. Paleontologicheskiy institut Akademii nauk SSSR.
(Paleontology) (Zoology--Classification)

RODENDORF, B.B.

Flies of the subfamily Sarcophaginae (Diptera) in synanthropic faunistic complexes of different landscape zones of the U.S.S.R. Ent. oboz. 38 no.4:790-797 '59 (MIRA 13:3)

1. Paleontologicheskiy institut AN SSSR, Moskva.
(Flesh flies)

RODENDORF, B.B.

Blowfly Boopcnus borealis, sp.n. (Diptera, Calliphoridae), a new parasite of the maral in southern Siberia. Ent. oboz. 38 no.3:583-589 '59. (MIRA 13:1)
(Parasites--Maral) (Yermakouskoye District--Blowflies)

RODENDORF, B.B.

Phylogenetic relicts. Trudy Inst.morf.zhiv. no.27:41-51 '59. (MIRA 13:2)

1. Paleontologicheskiy institut AN SSSR, Laboratoriya chlenistonogikh.

(Living fossils)

BEKLEMISHEV, V.N., prof.; VINOGRADSKAYA, O.N.; DARSKAYA, N.F.; DERBENEVA-UKHOVA, V.P.; DETINOVA, T.S.; DOLMATOVA, A.V.; LANGE, A.B.; OLSUF'YEV, N.G.; POSPELOVA-SHTROM, M.V.; RODENDORF, B.B.; SHIPITSINA, N.K.; PLAVIL'SHCHIKOV, N.N., red.; LYUDKOVSKAYA, N.I., tekhn.red.

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1. Deystvitel'nyy chlen AMN SSSR (for Beklemishev). 2. Institut malyarii i meditsinskoy parazitologii Ministerstva zdravookhraneniya SSSR (for Beklemishev, Derbeneva-Ukhova, Detinova, Dolmatova, Pospelova-Shtrom, Shipitsina). 3. Kafedra parazitologii TSentral'nogo inst. usovershenstvovaniya vrachey (for Vinogradskaya). 4. Nauchno-issledovat.inst. Kavkaza i Zakavkaz'ya Ministerstva zdravookhraneniya SSSR v Stavropole (for Darskaya). 5. Kafedra entomologii Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova (for Lange). 6. Otdel parazitologii i meditsinskoy zoologii Inst. epidemiologii i mikrobiologii im. N.F.Gamalei AMN SSR (for Olsuf'yev). 7. Institut paleontologii Akademii nauk SSSR (for Rodendorf).
(ARTHROPODA) (INSECTS AS CARRIERS OF DISEASE) (PARASITES--MAN)

RODENDORF, B.B.

Paleozoic insects in the Kuznetsk Basin. Trudy SNIIGGIMS no.21: 61-68 '62. (MIRA 16:12)

GROMOVA, Vera; RODENDORF, B.B., otv.red.; NIKITINA, O.G., red.izd-va; KASHINA, P.S., tekhn.red.

[Giant rhinoceroses] Gigantskie nosorogi. Moskva, Izd-vo Akad. nauk SSSR, 1959. 163 p. (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, vol.71) (MIRA 12:8)
(Rhinoceros, Fossil)

RODENDORF, B. B.

ORLOV, Yu.A., glavnyy red.; RAUZER-CHERNOUSOVA, D.M., otv.red.toma; FURSENKO, A.V., otv.red.toma; MARKOVSKIY, B.P., zam.glavnogo red.; RUZHENTSEV, V.Ye., zam.glavnogo red.; SOKOLOV, B.S., zam.glavnogo red.; VAKHRAMEYEV, V.A., red.; GEKKER, R.F., red.; GROMOVA, V.I., red.; DAVITASHVILI, L.Sh., red.; KRYMGOL'TS, G.Ya., red.; LUPPOV, N.P., red.; OBRUCHEV, D.V., red.; OVECHKIN, N.K., red.; POKROVSKAYA, I.M., red.; PCHELINTSEV, V.F., red.; RADCHENKO, G.P., red.; RODENDORF, B.B., red.; ROZHDESTVENSKIY, A.K., red.; SARYCHEVA, T.G., red.; SUBBOTINA, N.N., red.; TAKHMADZHAN, A.L., red.; FLEROV, K.K., red.; KHABAKOV, A.V., red.; CHERNYSHEVA, N.Ye., red.; EBERZIN, A.G., red.; KOTLYAREVSKAYA, P.S., red.izd-va; MOSKVICHEVA, N.I., tekhn. red.; POLENOVA, T.P., tekhn.red.

[Fundamentals of paleontology; reference book in fifteen volumes for paleontologists and geologists of the U.S.S.R.] Osnovy paleontologii; spravochnik dlia paleontologov i geologov SSSR v piatnadtsati tomakh. Moskva, Izd-vo Akad.nauk SSSR. Vol.1. [General part. Protozoa] Obshchaia chast'. Prosteishie. Otv.red. D.M.Rauzer-Chernousova, A.V.Fursenko. 1959. 481 p. (MIRA 12:7)
(Protozoa, Fossil)

[redacted], M. S. (Moscow)

"Dto. for dipterous insects".

Theoretical and Practical Work Carried out by Entomologists.
reported at All-Union Entomological Conference. Georgian Dept. A-U
Entomological Society, Tbilisi, 4-9 Oct 1957.
Vestnik AN SSSR, 1958, v. 28, No. 1, p. 129-30 (author Gilyarov, M. S.)

RODENDORF, B. B.

RODENDORF, Boris Borisovich; MESSNER, O.M., red.izdatel'stva; KASHINA, P.S., tekhn.red.

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(Insects, Fossil)

BEKKER-MIGDISOOVA, Yelena Ernestovna; RODENDORF, B.B., otv. red.

[Tertiary Homoptera in the Stavropol region.] Tretichnye ravnokrylye Stavropol'ia. Moskva, Izd-vo "Nauka," 1964. 107 p. (Akademiia nauk SSSR Paleontologicheskii institut. Trudy, vol. 104)
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MARTYNOVA, O.M.; OBRUCHEV, D.V., redaktor izdaniya; [redacted] redaktor vypuska; DIKOV, V.N., tekhnicheskiy redaktor.

[Materials on the evolution of Mecoptera.] Materialy po evoliutsii Mecoptera. Moskva, Izd-vo Akad. nauk SSSR. 1948. 75 p. 3 tables. (Akademiia nauk SSSR, Paleontologicheskii institut. Trudy, vol.11, no.4). (MLRA 10:7)

(Soyana Valley--Scorpion flies, Fossil)
(Soggruty--Scorpion flies, Fossil)

RODENDORF, Boris B. (Prof., Dr.)

"Neue Daten des Systems der Depteren."

"Palaoentomologische Forschungen in der UdSSR."

reports presented at the International Congress of Entomology, Vienna, Austria, 17-25 August 1960.

RODENDORF, B.B.

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(Phoronidea, Fossil)

RODENDORF, B.B.; TERNOVOY, V.I.

Occurrence of the southern species of Diptera of the genus Wohlfahrtia B.B.(Sarcophagidae) in the Kalmyk A.S.S.R. Ent. oboz. 44 no. 4:839-840 '65 (MIRA 19:1)

1. Paleontologicheskiy institut AN SSSR, Moskva.

RODENDORF, B.B.; RUBTSOV, I.A.

Reviews. Zool.zhur. 44 no.8:1276-1285 '65.

(MIRA 18:11)

RODENDORF, B.B.

Composition of the tribe Sarcophagini (Diptera, Sarcophagidae) of Eurasia. Ent. oboz. 44 no.3:676-695 '65. (MIRA 18:9)

1. Paleontologicheskiy institut AN SSSR, Moskva.

RODENDORF, B.B.

Some data on gray flesh flies (Diptera, Sarcophagidae) in southern China. Ent. oboz. 43 no.1:80-85 '64 (MIRA 17:6)

"Acta entomologica Musei Nationalis Pragae". Reviewed by B.B. Rodendorf. Ibid.:233-235

1. Paleontologicheskiy institut Akademii nauk SSSR, Moskva.

RODENDORF, B.B.

[Historical development of Diptera]. Istoricheskoe razvitie dvukrylykh nasekomykh. Moskva, Izd-vo "Nauka," 1964. 310 p. (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, vol.100) (MIRA 17:6)

SUVOROVA, N.P.; RODENDORF, B.B., otv. red.

[Trilobites of the super family Corynexochoidea and their historical development]. Trilobity korineksokhoidy i ikh istoricheskoe razvitie. Moskva, Izd-vo "Nauka" 1964, 319 p. (Akademiia nauk SSSR. Paleontologicheskii institut. Trudy, vol. 103).
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KOTKOV, I.I.; BELIKOV, B.S., v.o.golovnogo inzhenera; TRAKHTENBERG, M.Yu., gologniy konstruktor; KLEVAYCHUK, P.I.; FILATOVA, O.I.; KRAVCHENKO, O.M.; RODENKO, G.O.; BARDASH, O.P., spetredaktor

[Dwellings of two rooms and a kitchen-dining room] Zhylyi budynok na dvi kimnaty z kukhneiu-idal'neiu. Proekt No.c75. Kyiv, Vydavnychyi viddil, 1953. 18 plans. (MLRA 9:12)

1. Ukraine. Upravlinnya v spravakh sil'skogo i kolgospnogo budivnytstva. 2. Direktor Diprosil'budu (for Kotkov) 3. Kerivnik APM-3 (for Klevaychuk)
(Dwellings)

RODENKO, K.V. (g. Vorkuta); SHVEYTSER, V.D. (g. Vorkuta); PILIPOVICH, M.F. (g. Vorkuta)

Safety certification for boring and blasting operations in coal mines. Ugol' 34 no.10:23 O '59. (MIRA 13:2)
(Coal mines and mining--Safety measures)

PILIPOVICH, M.F., inzh.; RODENKO, K.V., inzh.; SHVEYTSER, V.D., inzh.

Specifications for boring and blasting operations. Bezop.truda v prom. 3 no.7:29-31 Jl '59. (MIRA 12:11)
(Blasting)

RODENKO, Z. Ya.

Rodenko, Z. Ya. "Vascular reactions in rheumatism among children." Rostov State Medical Inst. Rostov na Donu, 1956. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya letopis', No. 27, 1956. Moscow. Pages 94-109; 111.

RODENKO, Z. Ya.

EXCERPTA MEDICA Sec.7 Vol.10/5 Pediatrics May56

1044. RODENKO Z. Ya. *The complement titre in the blood of children with rheumatic infection (Russian text) PEDIATRIJA 1954, 5 (38)

In view of the latency of the rheumatic infection in 40% of the affected children, the

1044

complement titre test was used for early diagnosis. The usual method with 2% sheep cells was used. A total of 183 tests in 85 children was performed indicating in 83.3% a lowering or complete disappearance of the complement titre in rheumatic disease. This attenuation is apparently specific and may be helpful in the diagnosis.

Anigstein - Galveston, Tex: IV, 7)

ROMENKO, Z.Ya.

Blood complement titer in rheumatic infection in children. (MLRA 7:12)
Pediatriia no.5:38 S-O '54.
(BLOOD--EXAMINATION) (RHEUMATIC FEVER)

RODENKO-MIKHALENKO, Z.Ye., kand.med.nauk (g.Rostov-na-Donu)

How to feed a child properly. Rabotnitsa 37 no.9:31 S '59.
(MIRA 13:1)

(Children--Nutrition)

RODENKOV, N.V.

The KGL-1-type automotive hydraulic crane "Leningradets." Biul. tekh.-ekon.inform. no.12:39-40 '59. (MIRA 13:4)
(Cranes, derricks, etc.)

RODENKOVA, Ye.G.; RUMYANTSEVA, N.V.; sortirovshchitsa pismennoy korrespondentsii; KITAYEVA, A.V., pochtal'on; KLIMOVA, L.V.; sortirovshchitsa pismennoy korrespondentsii; ZHALILOVA, M., brigadir pochtal'onov; KIRILLOVA, T.I.; KHARINA, T.I., brigadir pochtal'onov; TUZOVA, G.A., sortirovshchitsa.

Leading postal workers are sharing their experiences. Vest. sviazi 20 no.11:22-24 N '60. (MIRA 13:12)

1. Nachal'nik 98-go otdeleniya svyazi g.Moskvy (for Rodenkova). 2. Leningradskiy pochtamt (for Rumyantseva). 3. Arzamasskaya kontora svyazi Gor'kovskoy oblasti (for Kitayeva). 4. Minerallovodskoye otdeleniye perevozki pochty (for Klimova). 5. 5-ye otdeleniye svyazi g.Chelyabinska (for Zhalilova). 6. Nachal'nik 24-go otdeleniya svyazi g.Ivanova (for Kirillova). 7. Kuybyshevskiy pochtamt (for Kharina). 8. Otdel obrabotki pismennoy korrespondentsii Sverdlovskogo otdeleyniya perevozki pochty (for Tuzova).
(Postal service--Employees)

RODEANU, Emil, ing.

Rapid coincidence circuits using tunnel diodes. Telecomunicatii 8 no. 2: 59-61 Mr-Ap '64.

RODENDORF, B.B.; BEKKER-MIGDISOVA, Ye.E.; MARTYNOVA, O.M.; SHAROV, A.G.

Phylum Arthropoda. Class Insecta. Trudy SNIIGGIMS no.21:189-193 '62.

Phylum Arthropoda. Class Insecta. Ibid.:403-425 (MIRA 16:12)

RODER, I.

Effect of the structural adjustment of needle strap openers on the opening out and loosening of cotton. p.436.

MAGYAR TEXTILTECHNIKA. (Textilipari Muszaki es Tudomanyos Egyesulet)
Budapest, Hungary. Vol. 11, no. 11, Nov. 1959.

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

RODER, Ivan

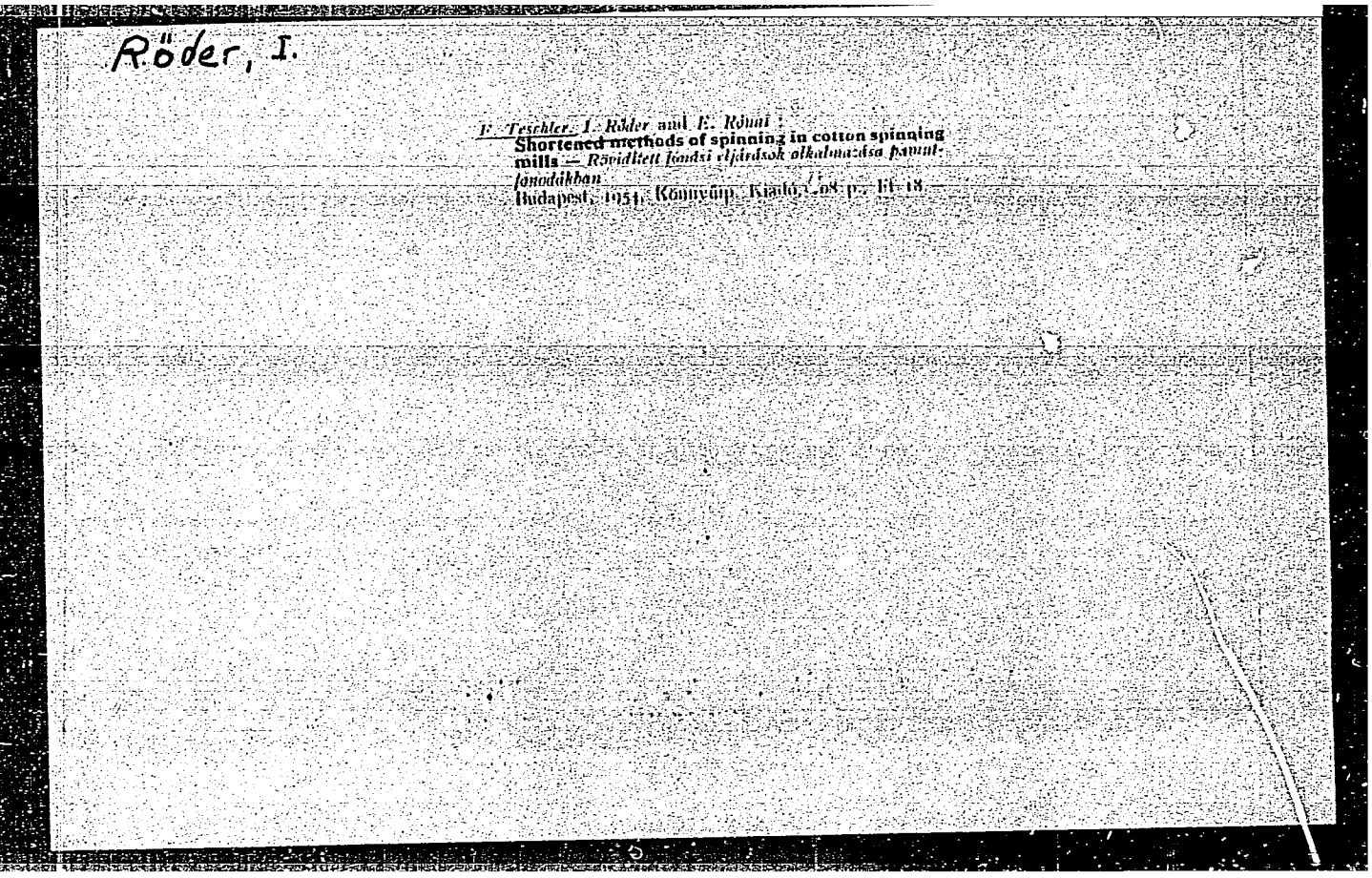
Comparative analysis of the floating velocity and the weight of braided cotton tresses (neps). Magy textil 15 no.2:49-51 F '63.

Roder, I.

HUNG •

111. **Tests conducted on cotton cleaning equipment** — I. Röder. (*Magyar Textiltechnika* — 1954, No. 6, pp. 201—208, 1 fig., 1 tab.)

The efficiency of cotton cleaning equipment is established from the following viewpoints: (1) the openness of the stock; (2) the removal of impurities; (3) the evenness of the lap weights. The openness of the cotton stock was measured thus far by the number of pins per unit weight of the fed cotton per min. It became clear, however, that the openness *i. e.* the difference between the initial and final specific weights is not influenced as much by the number of pins per unit weight as by the unevenness of the fed stock. In assaying the separation of the impurities it does not suffice to establish the impurity content of the fed cotton and that of the final lap, but the number of spinnable fibres removed with the impurities must also be determined. It is advisable to use few but efficient machines in which the air current is completely effective. Experts disagree as to whether the irregularities in the weight of the card slivers are due to the irregularities of the total weight of the laps, to the weight of the unit lengths or to the irregularities of the 10 to 30 mm sections of the laps. The latter can most probably be reduced by the card itself.



Röder, I.

I: Teschler-I. Röder and E. Rónai:
Shortened methods of spinning in cotton spinning mills — Rövidített fonási eljárások alkalmazása pamutfonodákban
Budapest, 1954. Könyvkiadó. Kiadó, 108 p. Ill. 18

ROBER, Ivan

Aggregation of cotton spinning processes. Magy textil 16 no. 4:145-152 Ap '64.

1. Research Institute of the Textile Industry;Budapest.

RODER, Ivan

Experience in applying nuclear engineering in cotton spinning.
Magy textil 16 no.7:306-308 Jl '64.

1. Research Institute of the Textile Industry, Budapest.

RODER, Ivan; POROSZLAY, Borbala

Testing mechanical damages on cotton fibers. Magy textil 16 no. 2:49-54 F '64.

1. Textilipari Kutato Intezet.

CZAGANYI, Zsuzsa; RODER, Ivan

Measuring the electrostatic charges of various fibrous materials.
Magy textil 14 no.1:36-40 Ja '62.

1. Textilipari Kutato Intezet munkatarsai.

(Electrostatics) (Textile fibers)

RODER, K.E.

Volgo-Donskoi kanal. Znachenie ego sooruzheniia dlia razvitiia nashego lesoeksporta na rynki Blizhnego Vostoka i Sredizemnogo moria. /Volga-Don Canal. The importance of its construction for the development of our lumber export to the markets of the Near East and Mediterranean sea/. (Lesopromyshlennoe delo, 1924, no. 1-2, p. 22-24). DLC HD 9765.R88L4.

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress Reference Department, Washington, 1952, Unclassified.

RODER, M.; BAKH, N.A.; BUGAYENKO, L.T.

Oxidation-reduction conversions of acceptors in organic solvents induced by ionized radiations. Part 2: Conversions of copper compounds in acetone solutions. Kin. i kat. 4 no.3: 353-356 My-Je '63. (MIRA 16:7)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, khimicheskiy fakul'tet.
(Oxidation-reduction reaction)
(Copper chlorides) (X rays)

L 54738-65 EWG(j)/EWT(m)/EPF(c)/EPF(n)-2/EWP(j)/T/EWA(h)/EWA(l) Pc-4/Pr-4/
Peb/Pu-4 GG/RM

ACCESSION NR: AP5017885 UR/0195/64/005/005/0776/0780

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38
B

AUTHOR: Roder, M.; Bakh, N. A.; Bugayenko, L. T.

TITLE: Oxidation-reduction transformations of acceptors in organic solutions under the action of ionizing radiations.[19] IV. Transformations of compounds of Tri- and hexavalent chromium in acetone solutions

SOURCE: Kinetika i kataliz, v. 5, no. 5, 1964, 776-780

TOPIC TAGS: x ray effect, chromium compound, acetone, redox reaction, radiation chemistry

ABSTRACT: The effects of X-rays on dilute solutions of CrO_3 and $CrCl_3$ in acetone ($5\cdot10^{-5}$-$5\cdot10^{-3}$ M and $2\cdot10^{-4}$-$2\cdot10^{-2}$ M, respectively) were investigated. The reduction of Cr^{VI} to Cr^{III} was found to proceed both in the absence and in the presence of oxygen, with limiting yields of 10.5 and 3.6 equivalents per 100 eV, respectively. Cr^{III} is oxidized under the action of radiation only in the presence of oxygen, with a yield of 2.0 equivalents per 100 eV in 0.01 M $CrCl_3$ solution. It was found that Cr^{VI},

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bound in a complex with Cr^{III}, is more stable to the action of the radiolysis products of acetone (both in oxygen and in nitrogen) than noncomplexed Cr^{VI}. Orig. art. has: 5 graphs.

ASSOCIATION: Khimicheskiy Fakul'tet, Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Faculty of Chemistry, Moscow State University)

SUBMITTED: 030ct62 ENCL: 00 SUB CODE: IC, GC

NR REF SOV: 005 OTHER: 002 JPRS

Card 2/2

RODER, M.; GO KUN' [Kuo K'un]; BAKH, N.A.; BUGAYENKO, L.T.

Ionized radiation-induced redox conversions of acceptors in organic solvents. Part 5: Transformations of KI and I_2 in acetone solutions. Kin.i kat. 5 no.6:976-980 N-D '64.
(MIRA 18:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

S/844/62/000/000/064/129
D204/D307

AUTHORS: Roder, M., Bakh, N. A. and Bugayenko, L. T.

TITLE: Radiation-chemical transformations of chromium compounds dissolved in acetone

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962, 378-381

TEXT: The oxidation-reduction transformations of Cr^{III} and Cr^{VI} compounds were studied, in continuation of earlier work (this collection, p. 374) connected with such transformation of methylene blue and its leucobase, under the action of x rays (10^{16} ev/ml.sec) at 16°C. The compounds were dissolved in the form of $CrCl_3.6H_2O$ and CrO_3. After irradiation $Cr^{VI} \rightarrow Cr^{III}$, with reduction yields G_{red}, (eqts/100 ev) which increased with concentration of CrO_3,c, both in the presence of (1) N_2 and (2) O_2. G_{red} varied between (1)~5 and

Card 1/3

~11 and (2) ~1.5 and ~3, no significant rise being observed when c was increased above 5 x 10^{-5} M; this is similar to the transformations occurring in aqueous solutions. The plateaus in G_{red}/c curves indicate an interaction with the free-radical radiolysis products of acetone. The radiation induced reduction of Cr^{VI} is probably only to Cr^{V}, which immediately disproportionates to the 3- and 6-valent ions.

In O_2-saturated solutions $Cr^{III} \rightarrow Cr^{VI}$, with the formation of a Cr^{III}— Cr^{VI} complex; this does not occur in water. The oxidation also involves the free radicals formed when acetone is irradiated. Reduction and oxidation yields are tabulated for various acetone solutions of Cr^{VI}, Cr^{III} and Cr^{III}/Cr^{VI}, showing that G_{red} is appreciably reduced in the presence of Cr^{III}. This is explained by the comparatively high reduction-resistance of the Cr^{III} - Cr^{VI} complex formed. Both transformations occur more effectively in acetone than in water, owing to the higher radical yields in irradiated acetone.

Radiation-chemical transformation ... S/844/62/000/000/064/129
D204/D307

There are 2 figures and 1 table.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova, khimicheskiy fakul'tet (Moscow State University im. M. V. Lomonosov, Faculty of Chemistry)

Card 3/3

L 16974-63 EPF(c)/EWT(m)/BDS AFFTC/ASD Pr-4 AR
S/020/63/149/006/019/027

62

AUTHOR: Bakh, N. A., Roder, M., and Bugayenko, L. T.

TITLE: Mechanism of radiation-induced oxidation and reduction of inorganic acceptors in acetone solutions

PERIODICAL: Akademiya nauk SSSR. Doklady. v. 149, no. 6, 1963, 1356-1359

TEXT: The authors investigated the effect of X rays on solutions of ions of variable valence Fe^{III}, Fe^{II}, Cu^{II}, Cu^{I}, Cr^{VI}, Cr^{VI}, Mn^{VII}, I^-, and I_3^- in order to clarify the behavior of acetone with respect to oxidizing and reducing acceptors, on using the corresponding chlorides as cations and CrO_3, $KMnO_4$, and KI as anions. It was established that variable-valence ions form with polar solvents solvates with partial electron transfer that is completed upon an excitation. In the cases examined acetone is an electron donor and the energy transmitted by the excited molecules of the solvent to the solvates makes the reduction possible. Thus the high yield of the process is associated with the transfer of excitation energy from acetone to the acceptor. This mechanism is similar to that suggested by Kryukov and Dayn (Doklady.Akademiya nauk SSSR, 138, 153 (1961). There are 4 figures and 1 table.

ASSOCIATION: Institut elektrohkimii Akademii nauk SSSR. Moskovski gosudarstvennyy institut im. M. V. Lomonosova (Institute of Electrochemistry, Academy of Sciences USSR. Moscow State University imeni M. V. Lomonosov)

SUBMITTED: January 2, 1963

Card 1/1

KISS, Istvan; RODER, Magda

Radiochemistry and chemical industries. Magy kem lap 19 no.8:400-408 Ag '64.

1. Central Research Institute of Physics, Hungarian Academy of Sciences, Budapest.

RODER, Magda, kandidatus

Report on the debate about the dissertation prepared by Janos Dobo to obtain the title of Candidate of Chemical Sciences. Kem tud kozl MTA 21 no. 4:469-471 '64.

RODER, M.; BAKH, N.A.; BUGAYENKO, L.T.

Redox transformations of acceptors in organic solvents induced by ionized radiations. Part 1: Transformations of iron chlorides in acetone solutions. Kin.i kat. 4 no.2:193-197 Mr-Ap '63. (MIRA 16:5)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova, khimicheskiy fakul'tet.
(Iron chlorides) (X rays)

RODER, M.

SESSION E—5—3: Radiation Chemistry of Organic Compounds II.

(a)

Radiation Induced Oxidation and Reduction of Acceptors in Organic Solutions

N. Bach, V. Larin and M. Roder

Oxidation and reduction of solutes by the primary radiolysis products of solvents occurs not only in aqueous solutions but also in organic liquids. It is concluded from the dependence of yield on concentration of the acceptor, and from ESR data, that in a number of solvents such as alcohols, nitromethane, formamide, methylformamide, etc., the reactions are effected just as in aqueous solutions by free radicals. However, in other solvents the experimental data are not consistent with this viewpoint, as shown by the behaviour under irradiation of dilute oxygen-free solutions in acetone of Fe^{III}, Fe^{II}, Cu^{II}, Cu^{I}, Ce^{VI}, Cr^{III}, Mn^{VII}, I^-, I_3^- and also methylene blue and its leuco form. The reactions are mostly reductions, but in some instances oxidation is observed. The wide variety of yields, ranging from G = 0.8 to G = 26 equiv. per 100 eV, excludes mechanisms based only on free radicals, and requires an important interaction of the acceptor with non-radical short-lived primary products of the radiolysis of acetone. A kinetic scheme is considered which enables the yield of primary products effecting different reactions to be estimated.

Institute of Electrochemistry, Academy of Sciences, Moscow, USSR

report presented at the 2nd Intl. Congress of Radiation Research, Harrogate/Yorkshire, Gt. Brit. 5-11 Aug 1962

CA

12

The activity of proteolytic enzymes in the rising of dough. Róbert Roder. *Mezőgazdaság és Ipar* 3, No. 12, 43(1949).—When the same dough was treated with pepsin or with pepsin previously inactivated by boiling, the rising time of the dough were identical. This affirms that the degree of decompn. of N compds. by proteases in dough has no influence on the rising power of yeast. The total amt. of CO_2 developed during dough rising is utilized in the rising of the dough.

RODESCU, M.

NASTA, M., Acad.; BUSESCU, M.; RODESCU, M.; TATOMIR, A.

The lymphadenobronchial fistula in the elder child & during puberty & adolescence. Rumanian M. Rev. 1 no.4:27-32 Oct-Dec 57.

(BRONCHI, fistula
lymphadenobronchial fistula as manifest. of primary pulm. tuberc. in puberty & adolescence)
(BRONCHI, fistula
same)
(TUBERCULOSIS, PULMONARY, in inf. & child
primary, lymphadenobronchial fistula as manifest. in puberty & adolescence)

L 47532-66 EWP(j)/T WW/JW/RM

ACC NR: AT6035003 SOURCE CODE: HU/2502/66/047/002/0157/0165

AUTHOR: Roder, Magda, Opauszky, Istvan--Opauski, I. and Kiss, Istvan--Kish, I. (Doctor), of the Department for Chemistry at the Central Research Institute for Physics, Hungarian Academy of Sciences in Budapest.

"Thermal Stability of the Eutectic Mixture of Diphenyl and Diphenylmethane"

Budapest, Acta Chimica Academiae Scientiarum Hungaricae, Vol 47, No 2, 1966, pp 157-165.

Abstract: [English article; authors' English summary, modified] The thermal stability of the eutectic mixture of diphenyl and diphenylamine was studied by determining the amount and composition of the gaseous product formed and the degree of polymerization of the initial compounds in pyrolysis reactions. Since thermal cracking of the mixture takes place at above 400°C, the mixture is suitable as a reactor coolant only below this temperature. The pyrolytic and radiolytic processes involved were discussed. The authors thank Mr. K. Ujszaszi for carrying out the mass spectrometric measurements. Orig. art. has: 5 figures and 5 tables. [JPRS: 36,002]

TOPIC TAGS: thermal stability, diphenylamine, pyrolysis polymerization

SUB CODE: 07,20 / SUBM DATE: 15 Dec 64 / ORIG REF: 001 / OTH REF: 011
SOV REF: 001

Card 1/1 mjs

0921 1516

1. KOROTKOV, V.; RODEVAL'D, I.; BORT, I.

2. USSR (600)

4. Tomatoes

7. State farm cultivation of tomatoes without transplanting, Sad i og., No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

RODEVICH, V. M.

IUzhno-Taimyrskii vodnyi put'. /The Southern Taimyr waterways/. (Problemy Arktiki, 1937, no. 2, p. 149-53, map). DLC: G600.P7 Slav.

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

RODEWALD, W.

For greater interest of the food industry in problems of vocational education.
p.89

PRZEMYSL SPOZYWCZY. (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Przemyslu Spozywczego) Warszawa, Poland
Vol.9, no.3, Mar. 1955

Monthly list of East European Accessions (EEAI) LC, Vol.9, no.1, Jan. 1960

Uncl.

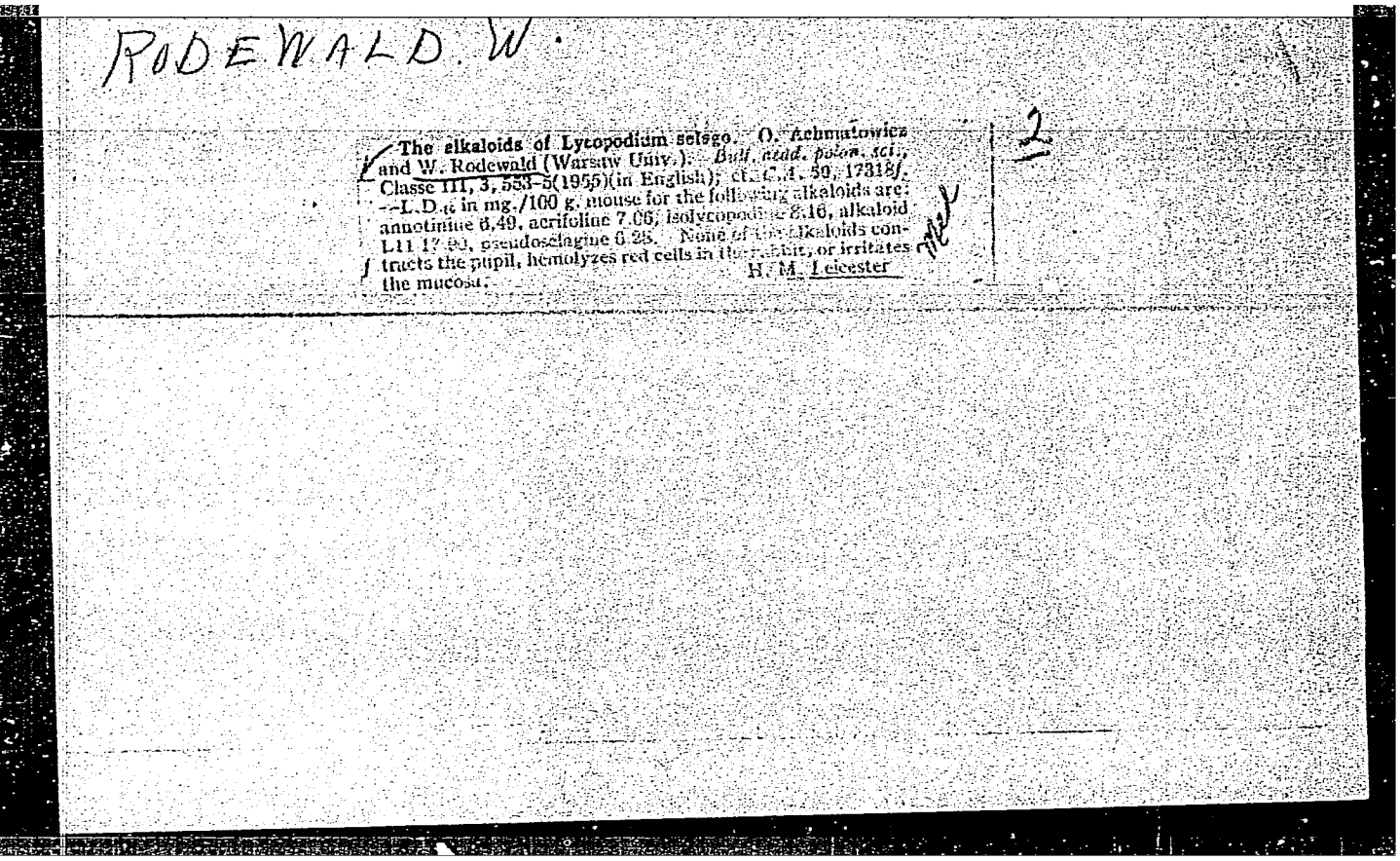
Osman Achmatowicz and Wladyslaw Rodewald: "Lycopodium Alkoloids,III. The Alkoloids of Lycopodium Selago L., "Roczniki Chemii, Vol 30, No 1, Warsaw, 1956. Published from the Chair of Organic Chemistry, Lodz Polytechnic and the Chair of Organic Chemistry, Warsaw, University, 10 Sep 55.

Rodewald Wladyslaw

Lycopodium alkaloids. II. The alkaloids of Lycopodium
annotinum. Osman Achmatowicz and Wladyslaw Rode-
wald (Univ. Warsaw). *Roczniki Chem.* [illegible]
cf. C.A. 32, 9062.—Seven alkaloids were isolated from *L.*
annotinum of Polish origin. Six of these [annotinine, acri-
foline (I), alkaloid L11 (II), lycopodine, alkaloid L8, α-
obscurine] are known in the material of Canadian origin,
while the seventh, *isolycopodine*, C[illegible]H[illegible]ON, m. 130°, seems
to be new. Previous empirical formulas for annotoxine
(III) (C[illegible]H[illegible]O[illegible]N[illegible]) and annotine (IV) (C[illegible]H[illegible]O[illegible]N) were
shown to be inaccurate. III has the compn. C[illegible]H[illegible]O[illegible]N, and
is a mol. compd. of I and II. IV has the formula C[illegible]H[illegible]O[illegible]N
and is identical with II. The following new derivs. were
prepd. (m.p. given): *Annotinine*: *methiodide*, 184.8°;
methosulfate, 208–10°. I: *acetone-
chloroplatinate*, 238°; *HCl salt*, 272–6°;
acrifoline, 114–16°; *hydriodide*, 282–4°; II: *HI salt*, 297°;
methiodide, 287–8°; *methochloride*, 238°. *methochloride*, 244–5°.
HCl salt, infusible; *methiodide*, 317°; *Alkaloid L8*: *HI salt*,
α-Obscurine: *HI salt*, 307–7.5°, *methochloride*, 313°: *Isolycopo-*
304–5°; *methiodide*, 317°; *methochloride*, 270°;
dine: *HI salt*, 321°; *picrate*, 199–201°; P. Dreyfuss
perchlorate, 274°.

RODEWALD, Wlodzimierz

Factory schools and their place in enterprises. Przegl techn 85 no.50:9 13 D '64.



RODEWALD, W.

2

The alkaloids of Lycopodium selago. O. Achmatowicz and W. Rodewald (Warsaw Univ.). *Bull. acad. polon. sci., Classe III*, 3, 553-5(1955)(in English); cf. *C.A.* 50, 17318f. --LD_{45} in mg./100 g. mouse for the following alkaloids are: annotinine 6.49, acrifoline 7.06, isolycopodine 8.16, alkaloid L11 17.90, pseudoselagine 6.25. None of the alkaloids contracts the pupil, hemolyzes red cells in the rabbit, or irritates the mucosa.

H. M. Leicester

G-3

Country : Poland
Category : Organic Chemistry. Natural Compounds and their Synthetic Analogues.
Abs. Jour. : Ref. Zhur.-Khimiya No. 6, 1959 19589

Author : Achmatowicz, O.; Rodewald, W.
Institut. :
Title : Alkaloids of Genus Lycopodium. IV. Subsidiary Alkaloids of Lycopodium annotinum L.

Orig Pub. : Roczn. chem., 1958, 32, No 3, 485-498

Abstract : From oily residues -- three fractions (12.8 g, 3 g and 11 g), collected during separation of alkaloids of Lycopodium annotinum (LA) of Polish origin (see Communication III, RZhKhim, 1957, 41268) were isolated by repeated recrystallization from alcohol, water and aqueous alcohol, in the form of methiodides (MI), a number of liquid bases. Listing the formula of the base, yield in g, MP of MI, $[\alpha]_D^{20}$ of MI in 5% aqueous solution, MP of methochloride, methoperchlorate, and methopicrate (recrystallized from water, unless stated otherwise): $C_{16}H_{23}ON$ (I), 0.9, 265, +150.1, 210, 270, 230-232 (decomposes); $C_{17}H_{27}O_2N$ (II), 1, 304, -66, 258, 321 (partial sintering), liquid; $C_{16}H_{23}O_2N$ (III)

Card: 1/3

Country : Poland
Category : G-3

Abs. Jour. : 19589

Author :
Institut. :
Title :

Orig. Pub. :

Abstract : 2.4, 294 (decomposes; from alcohol), - 13.9, 263, 287.5,(decomposes; from alcohol), 162-163; $C_{20}H_{20}O_4N$ (IV), 1.5, 292, - 11.1, 261, 295, liquid; $C_{16}H_{21}O_3N$ (V), 1.2, 216-217 (sintering; from alcohol), ± 0°, 255, 234-236, 134-136; methopicrolonate , MP 269° (sintering; from alcohol); $C_{17}H_{25}O_2N$ (VI), 0.8, 312-315, - 49.8 (c 5, water), 274, 316 (decomposes), 78-80; $C_{17}H_{25}O_3N$ (VII), 0.9, 315 (decomposes), $[\alpha]_D^{18}$ - 30.9°, 269, 335, 151; $C_{18}H_{25}O_3N$ (VIII), 1.2, 272, - 95.8, 250, 267-268, liquid; $C_{18}H_{25}O_4N$ (IX), 0.9, 283, - 168.8, 270, 259-260, 219. In addition there were isolated 1.2 g of di-MI of racemic nicotine (X), and also small

Card: 2/3

G-35

Country : Poland G-3
Category :

Abs. Jour. : 19589

Author :
Institut. :
Title :

Orig Pub. :

Abstract : amounts of obscurine, isolycopodine and acrifoline. Probably the substance I is identical with base $C_{16}H_{25}ON$ isolated from LA of German origin (Bertho A., Stoll A., Ber., 1952, 85, 663). According to general formulas II, III, and IV, correspond to the alkaloids L-28, L-29 and L-31 isolated from LA var. acrifolium (Manske R.H.F., Marion L., J. Amer. Chem. Soc., 1947, 69, 2126). V - IX have not been described before. Mixed sample of III and IV had a MP 262-265°. Thus, there have been isolated from LA 8 crystalline and 10 liquid alkaloids (89.1 and 4.2%, respectively, of their total amount). Ultraviolet spectrum curves are shown for MI of I - IX, and di-MI of X. -- A. Krayevskiy.

Card: 3/3

RODEWALD, W. J.; WICHA, J.

Synthesis of A-nor-5-azacholestane. Bul chim PAN 12 no. 2: 95-98 '64

1. Department of Organic Chemistry, University, Warsaw. Presented by O. Achmatowicz.

Achmatowicz, O. Lycopodium alkaloids. II. Alkaloids of Lycopodium annotium L. p. 509.
ROCZNIKI CHEMI, Warszawa, Vol. 29, no. 2/3, 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

RODEWALD, W.J.; WICHA, J.

Aza-steroid alkalcids. Synthesis of A-Nor-B-homo-5-amacholestane. Bul chim PAN 11 no.8:437-441 '63.

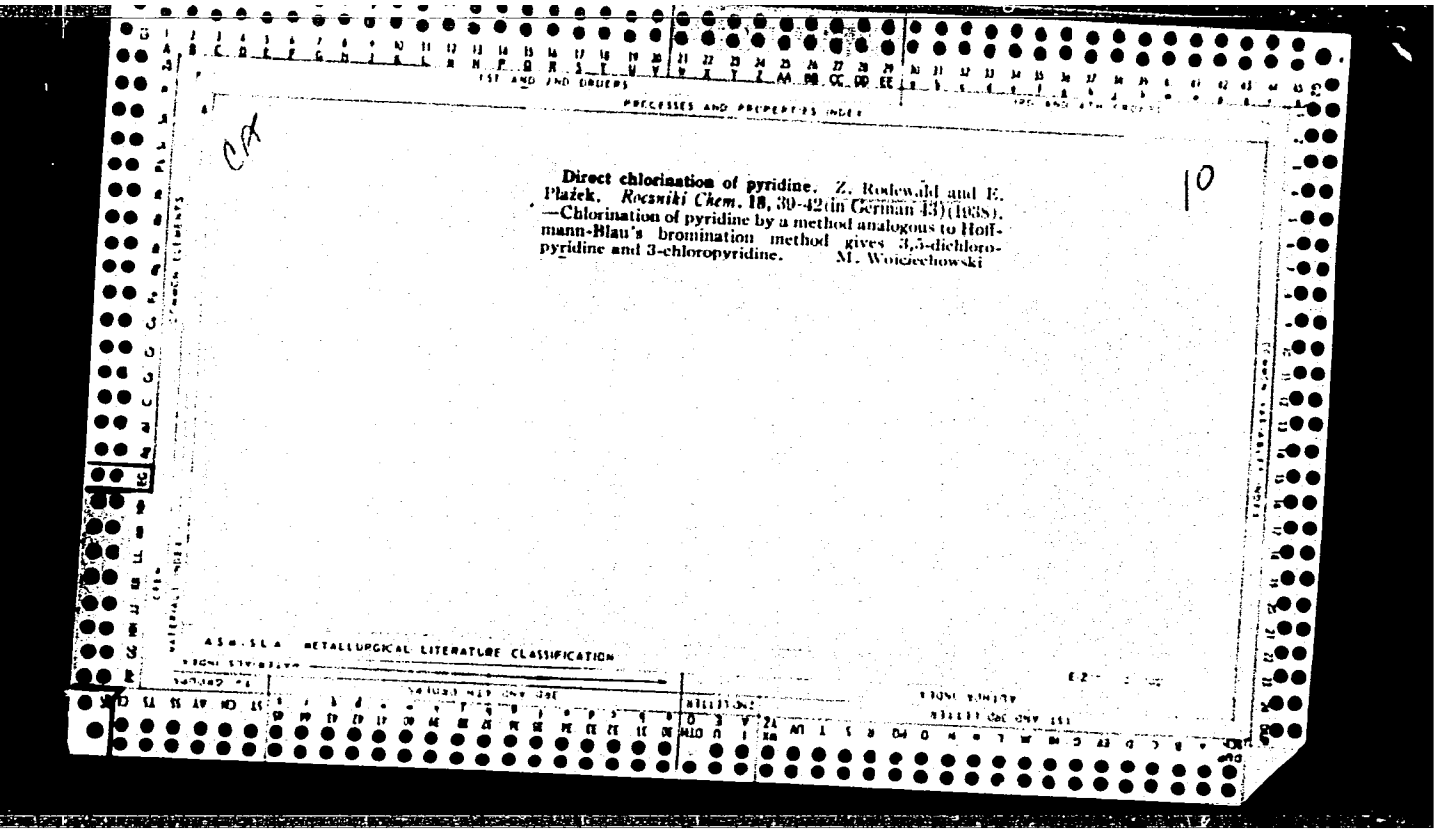
1. Department of Organic Chemistry, University, Warsaw.
Presented by O. Achmatowicz.

ACHMATOWICZ, O.; ACHMATOWICZ, S.; RODEWALD, W. J.

A case of dehydrogenation in intramolecular N-cyclization of tertiary unsaturated amines. Bul chim PAN 8 no.7:355-359 '60.
(EEAI 10:9/10)

1. Department of Organic Chemistry, University, Warsaw and Department of Organic Synthesis, Polish Academy of Sciences.

(Dehydrogenation) (Cyclization) (Amines)



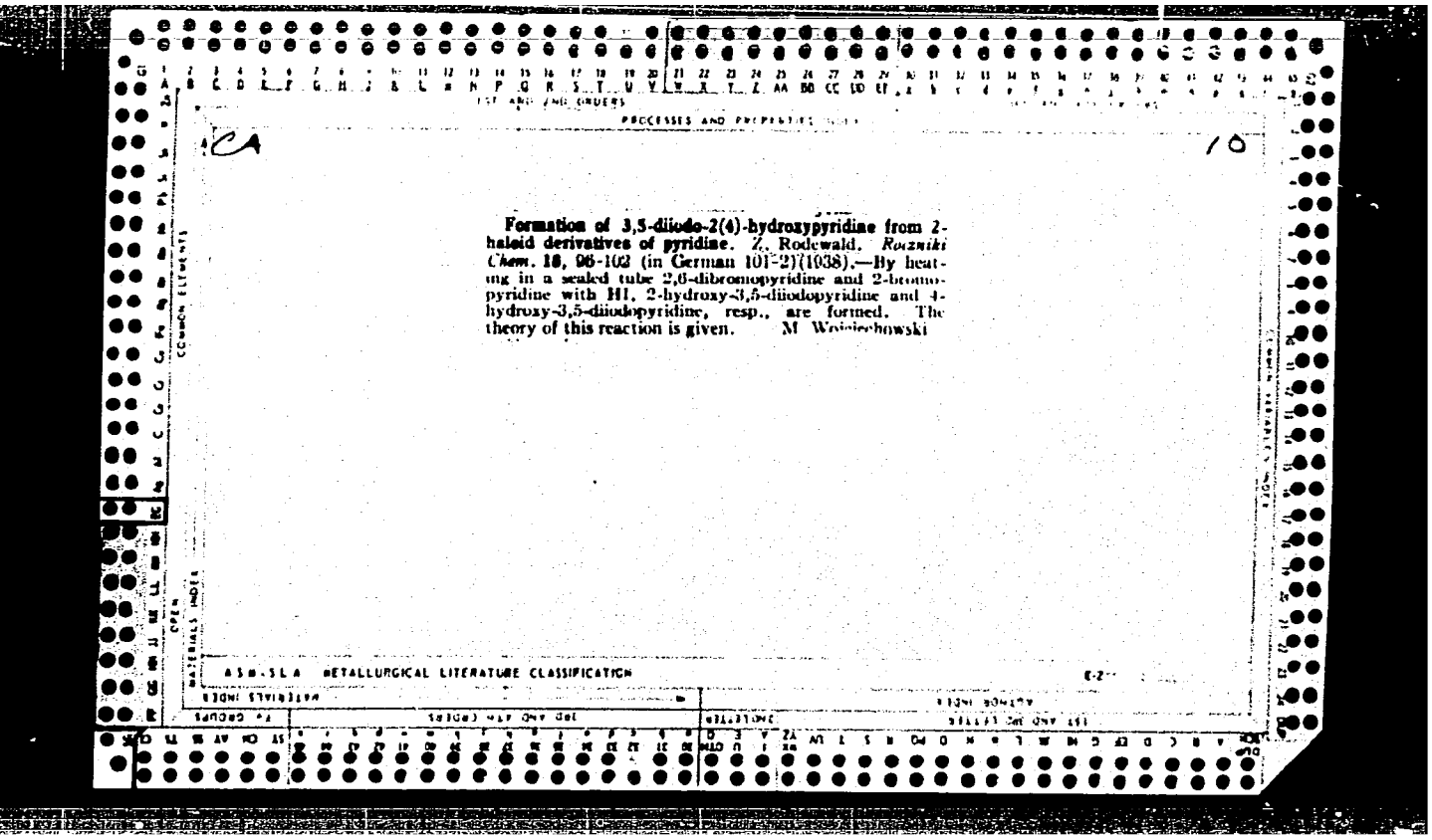
PROCESSES AND PROPERTIES INDEX

CA

10

Direct chlorination of pyridine. Z. Rodewald and E. Plažek. *Rocsniki Chem.* **18**, 39-42(in German 43)(1938). —Chlorination of pyridine by a method analogous to Hoffmann-Blau's bromination method gives 3,5-dichloropyridine and 3-chloropyridine. M. Wojciechowski

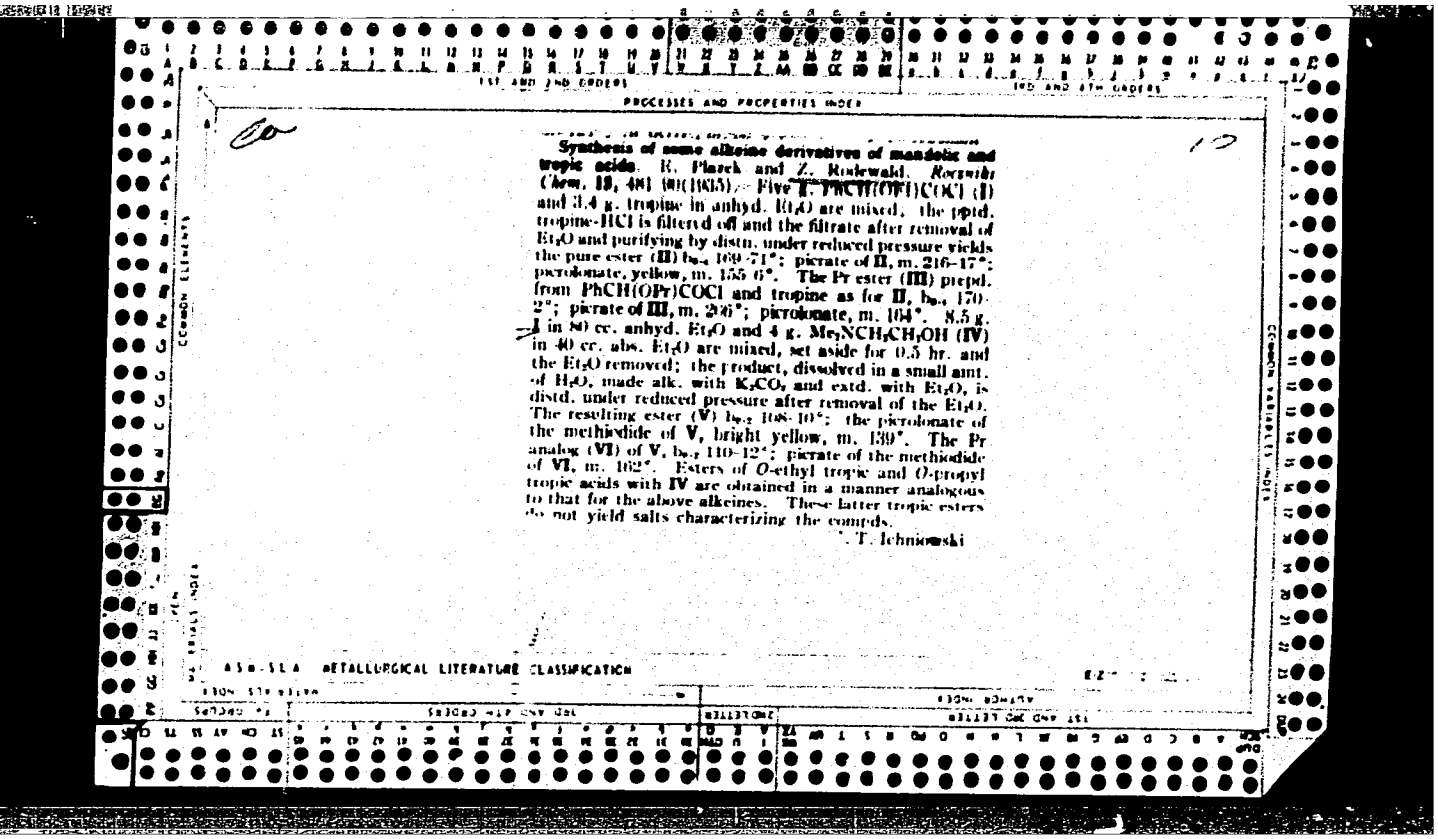
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



CA

10

Formation of 3,5-diiodo-2(4)-hydroxypyridine from 2-haloid derivatives of pyridine. Z. Rodewald. *Roczniki Chem.* **18**, 96-102 (in German 101-2)(1938).—By heating in a sealed tube 2,6-dibromopyridine and 2-bromopyridine with HI, 2-hydroxy-3,5-diiodopyridine and 4-hydroxy-3,5-diiodopyridine, resp., are formed. The theory of this reaction is given. M Wojciechowski

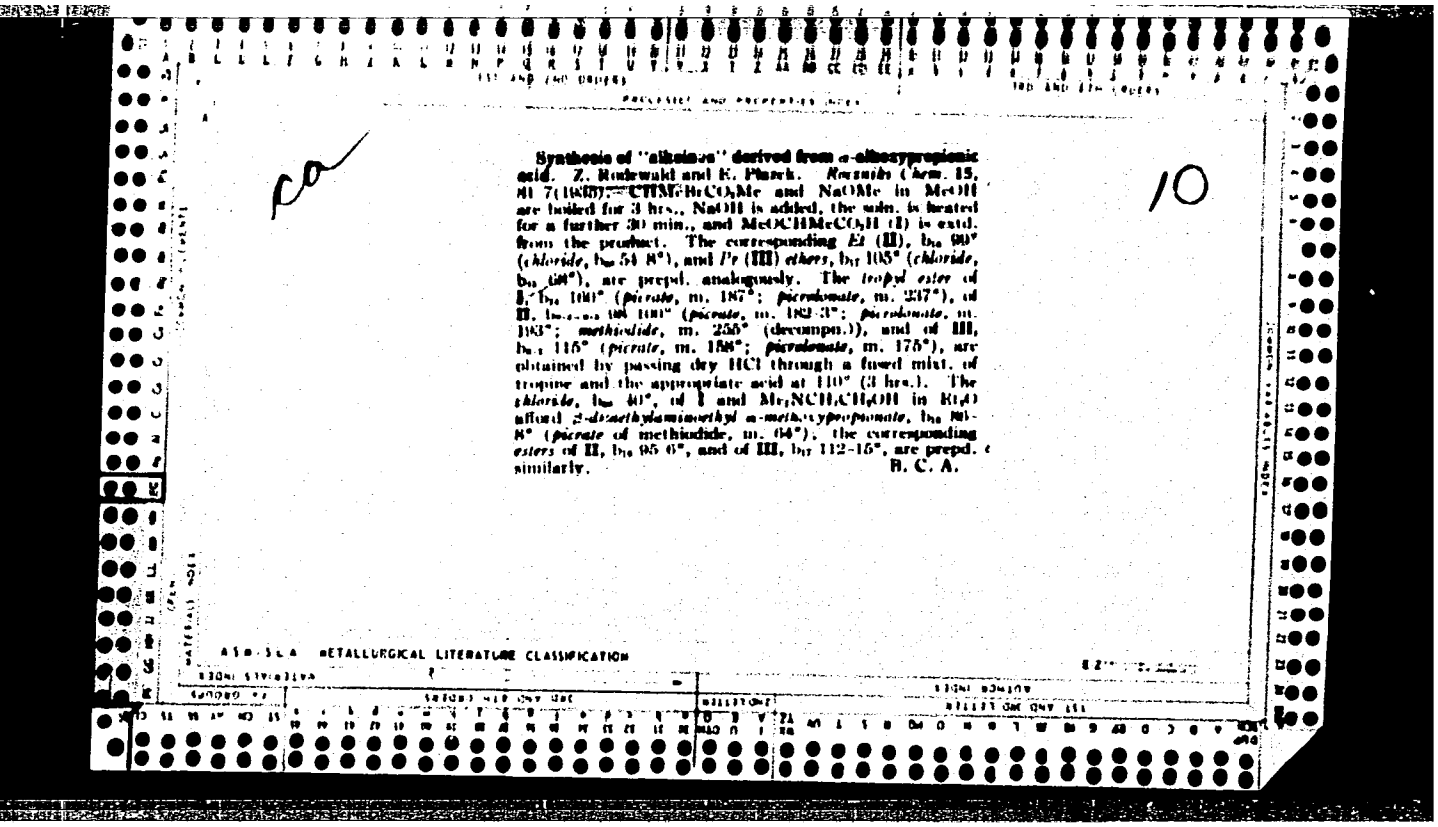


PROCESSES AND PROPERTIES INDEX

Synthesis of some alkeine derivatives of mandelic and tropic acids. R. Plazek and Z. Rudewald. *Roczniki Chem.*, **19**, 481 (1939).—Five g. PhCH(OH)COCl (I) and 3.4 g. tropine in anhyd. Et_2O are mixed, the ppted. tropine·HCl is filtered off and the filtrate after removal of Et_2O and purifying by distn. under reduced pressure yields the pure ester (II) $b_{0.5}$ 169–71°; picrate of II, m. 216–17°; picrolonate, yellow, m. 155–6°. The Pr ester (III) prepd. from PhCH(OPr)COCl and tropine as for II, $b_{0.5}$ 170–2°; picrate of III, m. 206°; picrolonate, m. 164°. 8.5 g. I in 80 cc. anhyd. Et_2O and 4 g. $Me_2NCH_2CH_2OH$ (IV) in 40 cc. abs. Et_2O are mixed, set aside for 0.5 hr. and the Et_2O removed; the product, dissolved in a small amt. of H_2O, made alk. with K_2CO_3 and extd. with Et_2O, is distd. under reduced pressure after removal of the Et_2O. The resulting ester (V) $b_{0.5}$ 108–10°; the picrolonate of the methiodide of V, bright yellow, m. 139°. The Pr analog (VI) of V, $b_{0.5}$ 110–12°; picrate of the methiodide of VI, m. 162°. Esters of *O*-ethyl tropic and *O*-propyl tropic acids with IV are obtained in a manner analogous to that for the above alkeines. These latter tropic esters do not yield salts characterizing the compds.

T. Ichniowski

A 50-SLA METALLURGICAL LITERATURE CLASSIFICATION



Synthesis of "alkaines" derived from α-alkoxypropionic acid. Z. Rudewald and E. Plazek. *Roczniki Chem.* 15, 81 7(1935).—$CH_3CHMeCO_2Me$ and NaOMe in MeOH are boiled for 3 hrs., NaOH is added, the soln. is heated for a further 30 min., and $MeOCHMeCO_2H$ (I) is extd. from the product. The corresponding *Et* (II), b_{16} 90° (*chloride*, b_{20} 54 8°), and *Pr* (III) *ethers*, b_{17} 105° (*chloride*, b_{20} 68°), are prepd. analogously. The *isopropyl ester* of I, b_{16} 101° (*picrate*, m. 187°; *picrolonate*, m. 237°), of II, [illegible] 101° (*picrate*, m. 182-3°; *picrolonate*, m. 183°; *methiodide*, m. 255° (decompn.)), and of III, b_{17} 115° (*picrate*, m. 188°; *picrolonate*, m. 175°), are obtained by passing dry HCl through a fused mixt. of tropine and the appropriate acid at 110° (3 hrs.). The *chloride*, b_{20} 80°, of I and $Me_2NCH_2CH_2OH$ in Et$_2$O afford *2-dimethylaminoethyl α-methoxypropionate*, b_{16} 80-8° (*picrate* of methiodide, m. 64°), the corresponding *esters* of II, b_{16} 95 6°, and of III, b_{17} 112-16°, are prepd. similarly.

B. C. A.

A50-5cA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

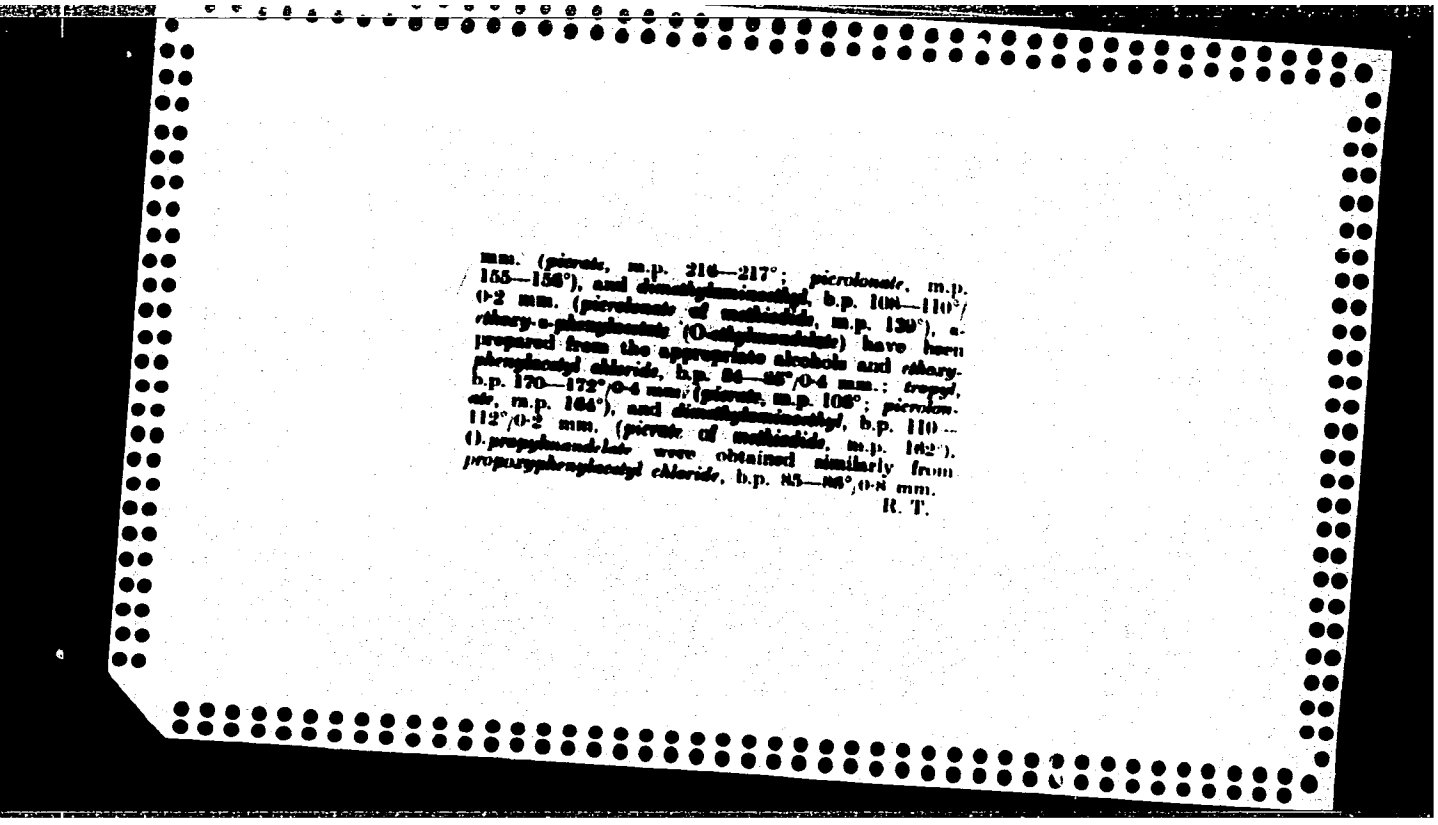
PROCESSES AND PROPERTIES INDEX

BC

d-3

Synthesis of certain alkaloids derived from mandelic and tropic acids. E. Plażek and Z. Rodewald (Rocz. Chem., 1935, 15, 481—490).—The cyanohydrin obtained from COPhMe in Et_2O, AcOH, and KCN at 0° yields when heated with HCl (120°; 3 hr.) $CH_2(OH)\cdot CHPh\cdot CO_2H$, the *Me* ester, b.p. 98°/0·4 mm., of which affords *Me* β-ethoxy-α-phenylpropionate (O-ethyltropate) (I), b.p. 98—100°/0·6 mm., when treated with NaOEt in EtOH. The acid has b.p. 128—130°/0·1 mm. (chloride, b.p. 88—89°/0·6 mm.; dimethylaminoethyl ester, b.p. 110—112°/0·1 mm.). β-Propoxy-α-phenylpropionic acid, b.p. 135—137°/0·15 mm. (chloride, b.p. 96—97°/0·3 mm.; *Me* ester, b.p. 108°/0·1 mm.; dimethylaminoethyl ester, b.p. 112°/0·1 mm.), is obtained analogously. *Tropyl*, b.p. 169—171°/0·4

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION



mm. (*picrate*, m.p. 216—217°; *picrolonate*, m.p. 155—156°), and *dimethylaminoethyl*, b.p. 108—110°/0·2 mm. (*picrolonate* of *methiodide*, m.p. 130°), *ethoxy-o-phenylacetate* (*O-ethylmandelate*) have been prepared from the appropriate alcohols and *ethoxyphenylacetyl chloride*, b.p. 86—88°/0·4 mm.; *propyl*, b.p. 170—172°/0·4 mm.; (*picrate*, m.p. 108°; *picrolonate*, m.p. 164°), and *dimethylaminoethyl*, b.p. 110—112°/0·2 mm. (*picrate* of *methiodide*, m.p. 162°). (*O-propylmandelate* were obtained similarly from *propoxyphenylacetyl chloride*, b.p. 85—86°/0·8 mm.

R. T.

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

Synthesis of alceines, derivatives of o-phenyllactic and o-phenylphenoxyglycolic acids. E. Plazek, Z. Rodewald and D. Krzyzaniak. *Roczniki Chem.* 18, 390-4 (in German 394) (1936).—Esters of these acids with tropine and $Me_2NCH_2CH_2OH$ were prepd. Equimol. amts. of o-$PhC_6H_4OCH_2CO_2H$ and tropine were heated to 110-20° for 4 hrs., dry HCl being simultaneously blown through the molten mass, then cooled. K_2CO_3 added. The alceine was extd. with ether and distd. at 200° under 1 mm. pressure. By mixing ether solns. contg. equimol. amts. of o-$PhC_6H_4OCH_2COCl$ and $Me_2NCH_2CH_2OH$, oil of alceine-HCl was formed, then the free alceine was obtained by treating with K_2CO_3. Extn. with ether gives a product $b_{0.2}$ 148-150°. Esterification of o-phenyllactic acid by tropine gives the product $b_{0.4}$ 149-150°. The product of esterification of o-phenyllactic acid by $Me_2NCH_2CH_2OH$ $b_{0.2}$ 110°, m. 75°. M. Wojciechowski

METALLURGICAL LITERATURE CLASSIFICATION

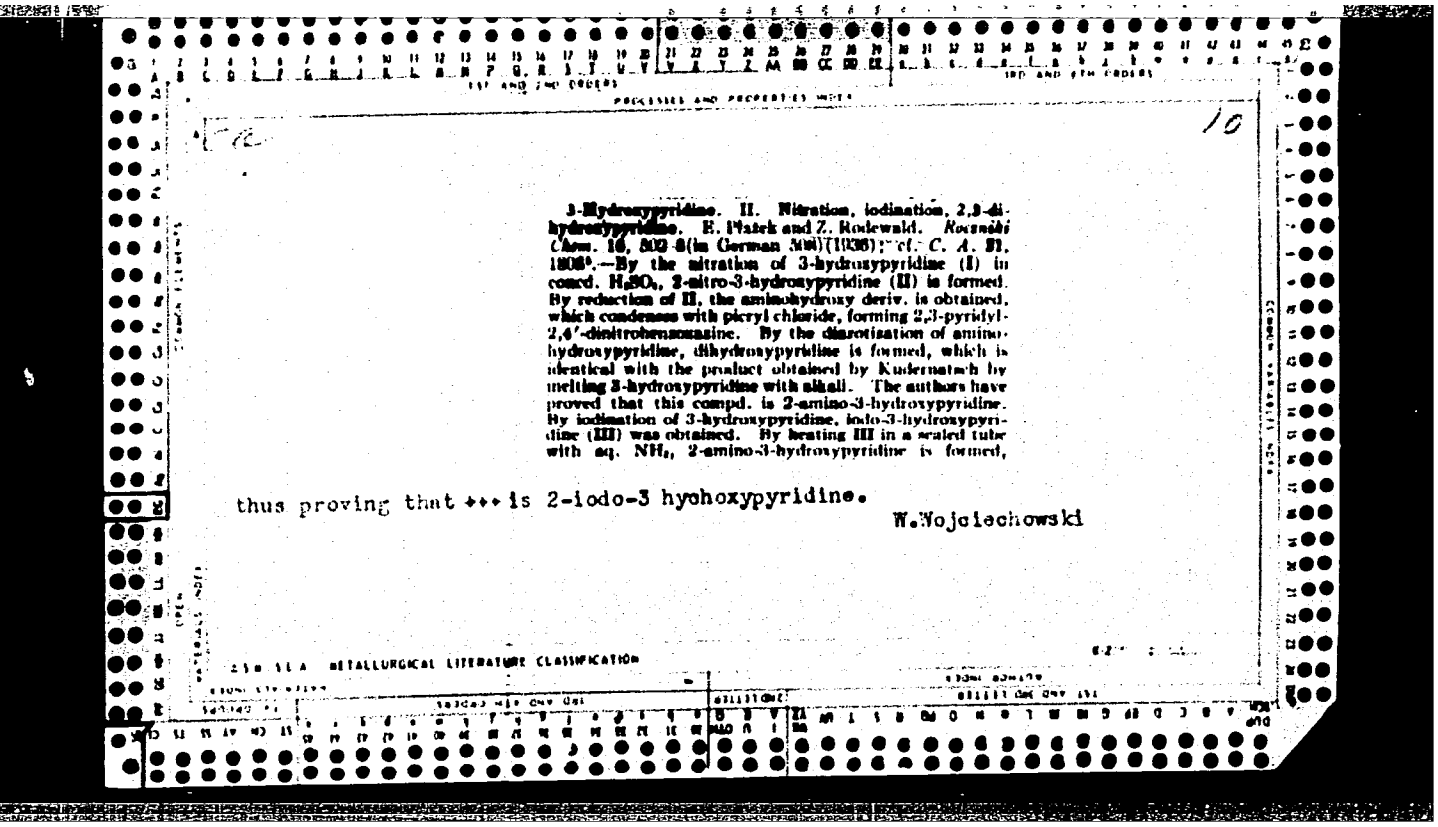
1ST AND 2ND ORDERS 3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

BC a-3

Synthesis of alkamines derived from O-phenyl-lactic and -mandelic acid. E. Plazek, Z. Rodewald, and D. Krysiak (Rocz. Chem., 1935, 15, [illegible]—364).—O-*Phenylmandelyl chloride*, b.p. 135°/0·6 mm., yields the *tropyl ester*, b.p. [illegible]°/1 mm. (*picrate*, m.p. 171°; *picrolonate*, m.p. [illegible]°), with tropine, and β-*diethylaminoethyl* O-*phenylmandelate*, b.p. 148—15[illegible]°/0·2 mm. (*picrolonate*, m.p. 141—14[illegible]°), with $NEt_2 \cdot CH_2 \cdot CH_2 \cdot OH$. KOPh and $CHMeBr \cdot CO_2Me$ (2 hr.; 160°), followed by hydrolysis of the product with EtOH-KOH, yield O-*phenyl-lactic acid* (I), m.p. 114°; the *chloride*, b.p. 115°/20 mm., of which affords the *tropyl*, b.p. 160—[illegible]°/0·6 mm. (*picrate*, m.p. 175°; *picrolonate*, m.p. [illegible]—[illegible]°), and β-*diethylaminoethyl esters* of (I), m.p. 75° (*picrate*, m.p. 113°; *picrolonate*, m.p. 148°). R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

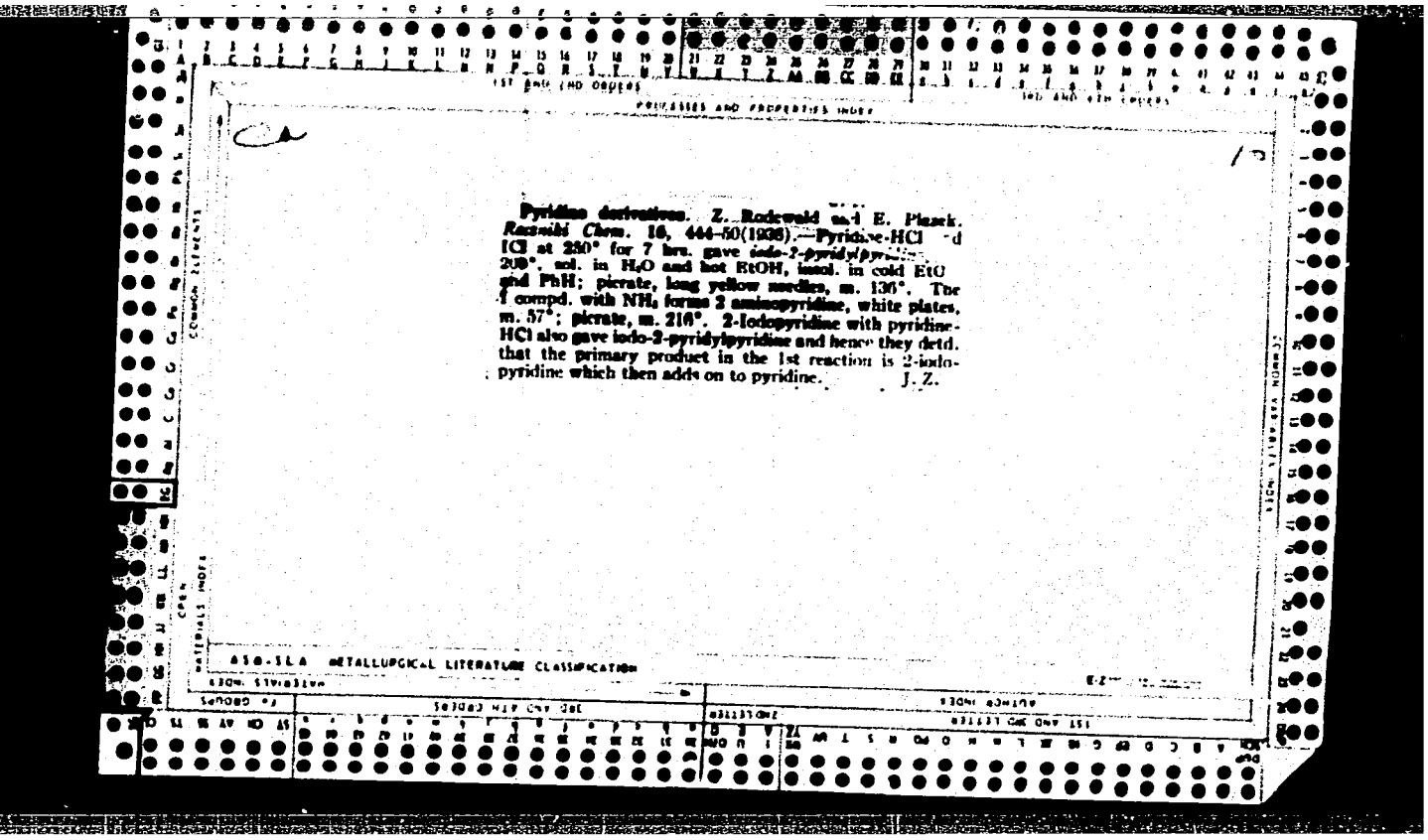


10

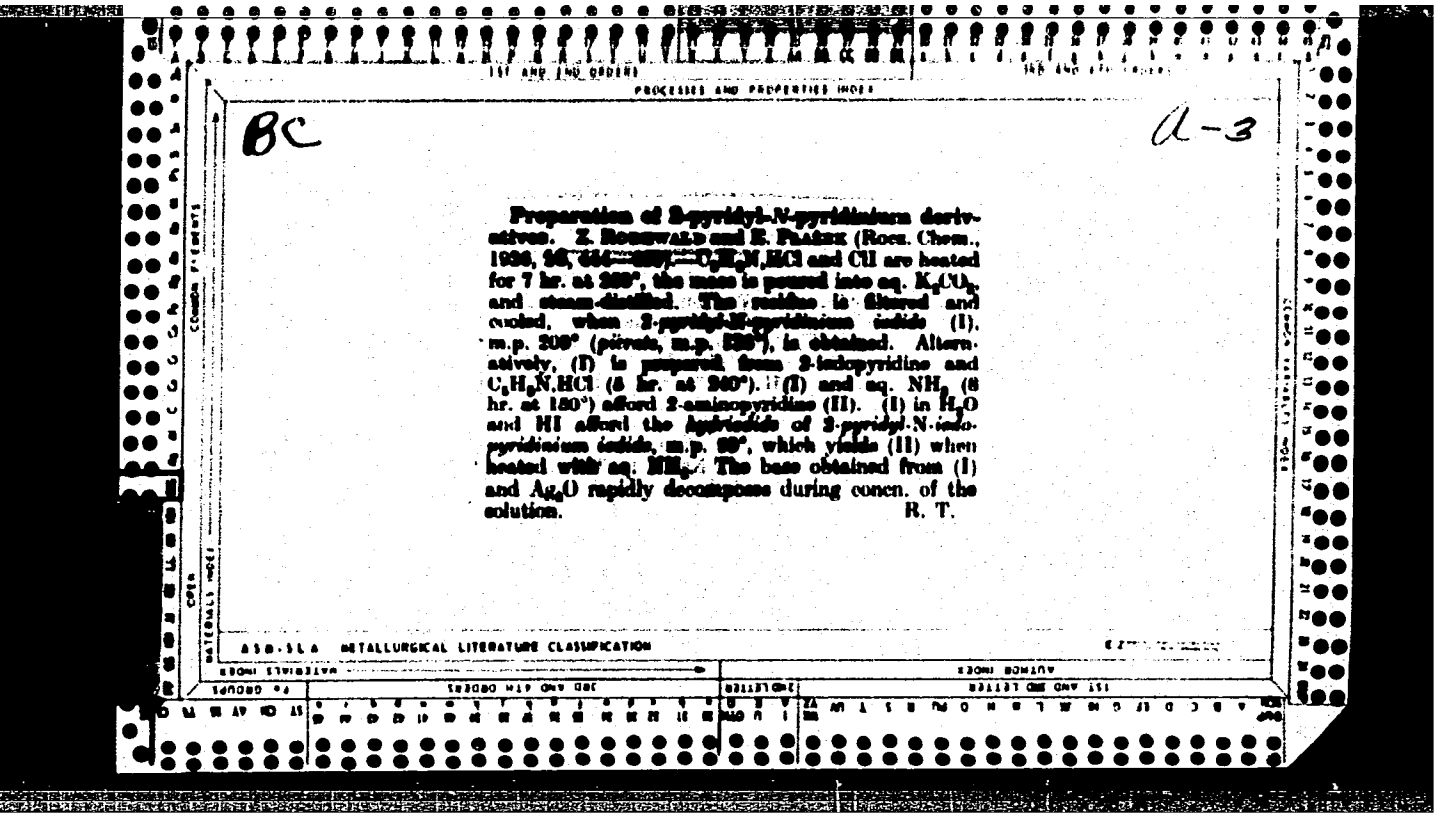
3-Hydroxypyridine. II. Nitration, iodination, 2,3-dihydroxypyridine. E. Plazek and Z. Rodewald. *Rocznik Chem.* 16, 302-8(in German 308)(1936); cf. *C. A.* 31, 1808⁹.—By the nitration of 3-hydroxypyridine (I) in concd. H_2SO_4, 2-nitro-3-hydroxypyridine (II) is formed. By reduction of II, the aminohydroxy deriv. is obtained, which condenses with picryl chloride, forming 2,3-pyridyl-2,4'-dinitrohemiamine. By the diazotization of aminohydroxypyridine, dihydroxypyridine is formed, which is identical with the product obtained by Kudernatsch by melting 3-hydroxypyridine with alkali. The authors have proved that this compd. is 2-amino-3-hydroxypyridine. By iodination of 3-hydroxypyridine, iodo-3-hydroxypyridine (III) was obtained. By heating III in a sealed tube with aq. NH_4, 2-amino-3-hydroxypyridine is formed,

thus proving that ... is 2-iodo-3 hychoxypyridine.

W.Wojciechowski



Pyridine derivatives. Z. Rodewald and E. Plazek. *Roczniki Chem.* 18, 444-50(1938).—Pyridine-HCl d Cl at 230° for 7 hrs. gave *iodo-2-pyridylpyridine*, 208°, sol. in H_2O and hot EtOH, insol. in cold EtO and PhH; picrate, long yellow needles, m. 136°. The I compd. with NH_3 forms 2 *aminopyridine*, white plates, m. 57°; picrate, m. 216°. 2-Iodopyridine with pyridine-HCl also gave iodo-2-pyridylpyridine and hence they detd. that the primary product in the 1st reaction is 2-iodo-pyridine which then adds on to pyridine. J. Z.



BC

A-3

Preparation of 2-pyridyl-N-pyridinium derivatives. Z. Rosnowald and E. Fraenk (Roczn. Chem., 1936, 16, 644—650).—C_5H_5N,HCl and Cl are heated for 7 hr. at 200°, the mass is poured into aq. $K_4(UO_2)_3$ and steam-distilled. The residue is filtered and cooled, when 2-pyridyl-N-pyridinium iodide (I), m.p. 209° (picrate, m.p. 230°), is obtained. Alternatively, (I) is prepared from 2-iodopyridine and $C_5H_5N.HCl$ (5 hr. at 240°). (I) and aq. NH_3 (8 hr. at 180°) afford 2-aminopyridine (II). (I) in H_2O and HI afford the hydriodide of 2-pyridyl-N-iodopyridinium iodide, m.p. 99°, which yields (II) when heated with aq. NH_3. The base obtained from (I) and Ag_2O rapidly decomposes during concn. of the solution. R. T.

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

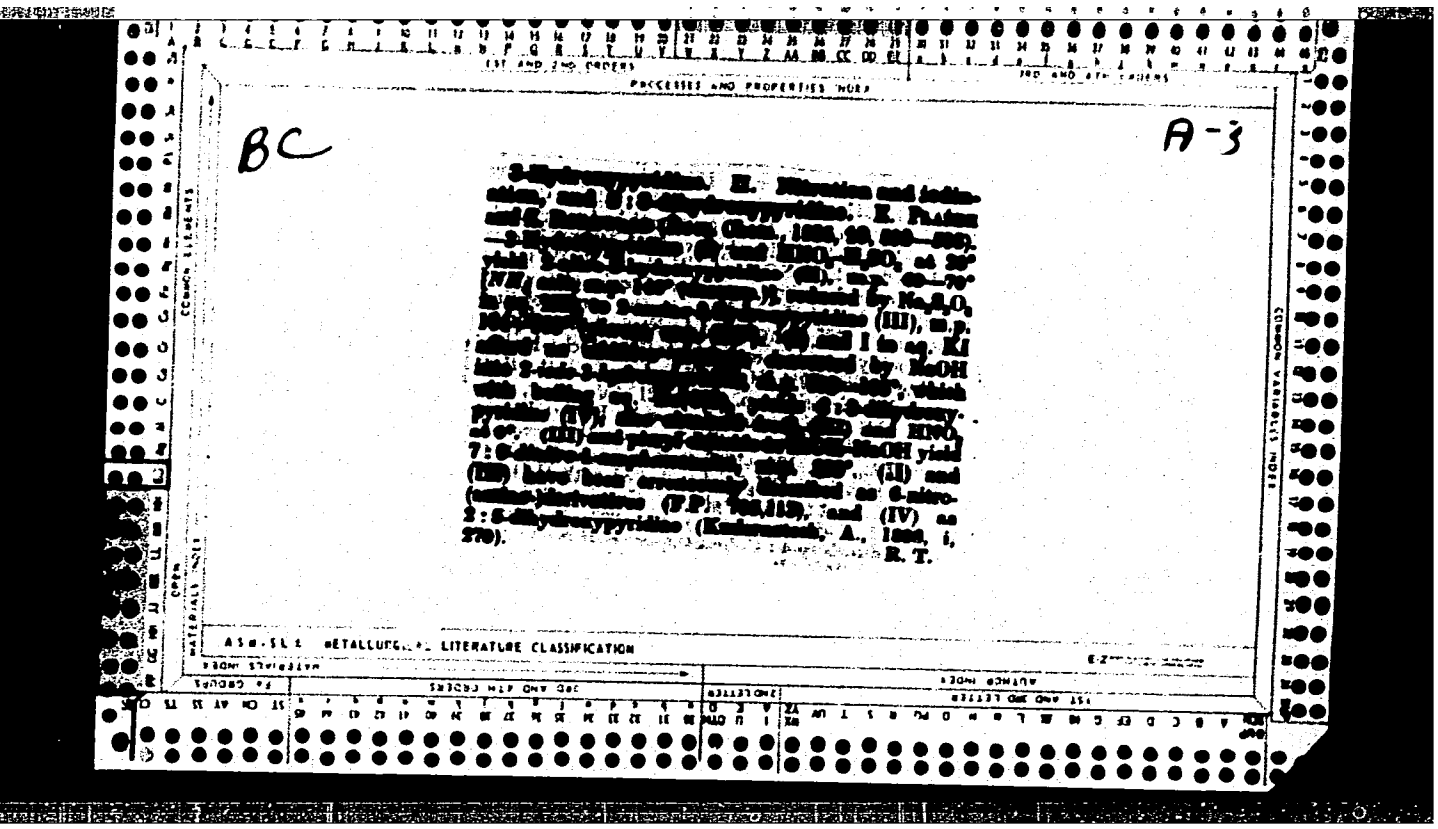
PROCESSES AND PROPERTIES INDEX

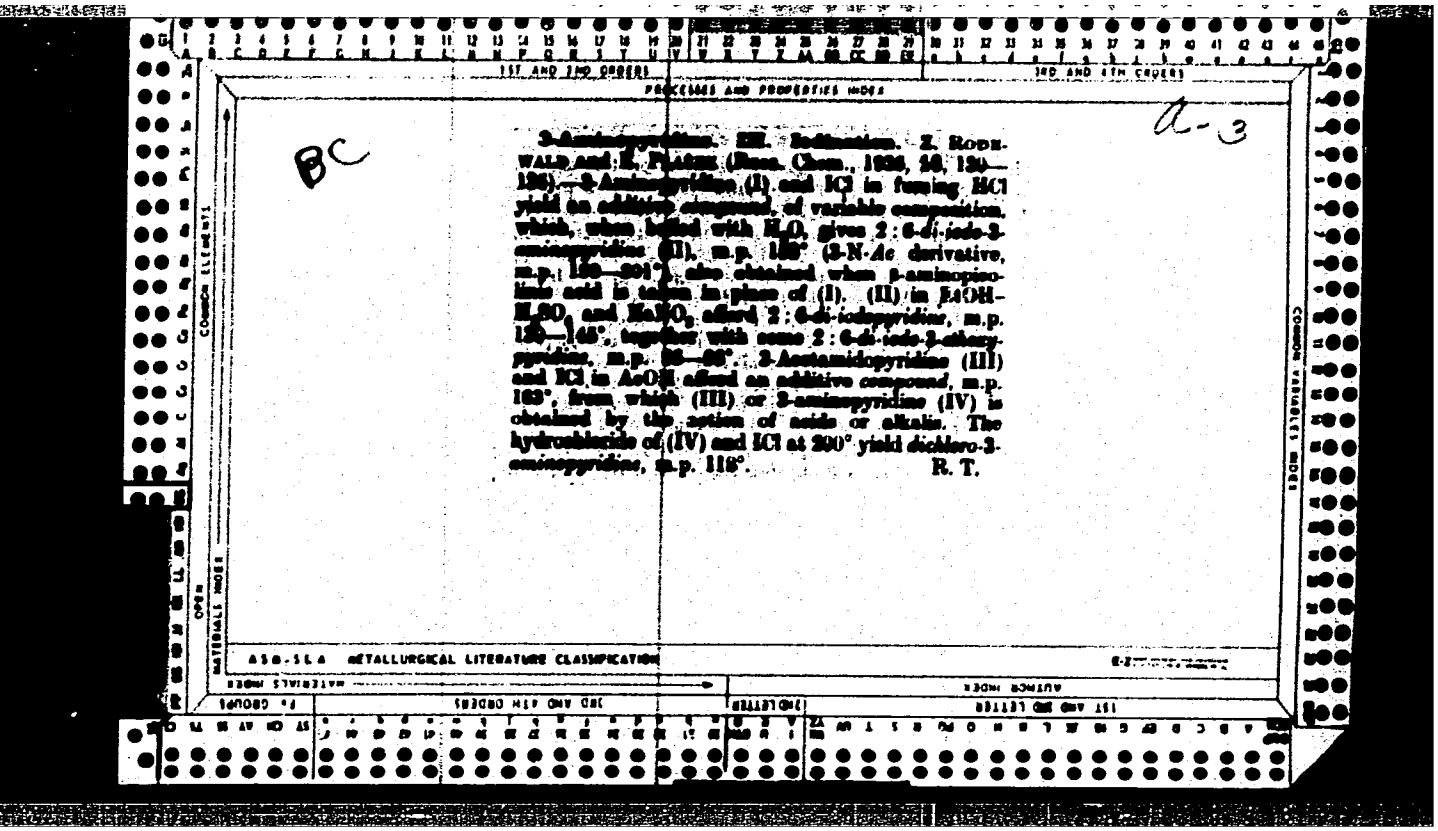
8C

a-1

Synthesis of "alkaloids" derived from α-alkoxypropionic acids. [illegible] and [illegible] (Rocz. Chem., 1955, [illegible]).—CHMeBr·CO_2Me and NaOMe in MeOH are boiled for 3 hr., NaOH is added, the solution is heated for a further 30 min., and OMe·CHMe·CO_2H (I) is extracted from the product. The corresponding Et (II), b.p. [illegible]°/16 mm. (chloride, b.p. [illegible]°/[illegible] mm.), and Pr (III) ether, b.p. [illegible]°/17 mm. (chloride, b.p. [illegible]°/[illegible] mm.), are prepared analogously. The tropyl ester of (I), b.p. 160°/24 mm. (picrate, m.p. [illegible]°; picrolonate, m.p. 207°), of (II), b.p. [illegible]°/0·2—0·3 mm. (picrate, m.p. 182—185°; picrolonate, m.p. 190°; methiodide, m.p. 255° (decomp.)), and of (III), b.p. 115°/0·3 mm. (picrate, m.p. [illegible]°; picrolonate, m.p. 175°), are obtained by passing dry HCl through a fused mixture of tropine and the appropriate acid at 110° (3 hr.). The chloride, b.p. [illegible]°/[illegible] mm., of (I) and NMe_2·CH_2·CH_2·OH in Et_2O afford β-dimethylaminoethyl α-methoxypropionate, b.p. [illegible]°/16 mm. (picrate of methiodide, m.p. 64°); the corresponding esters of (II), b.p. [illegible]°/[illegible] mm., and of (III), b.p. 112—115°/17 mm., are prepared similarly. R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

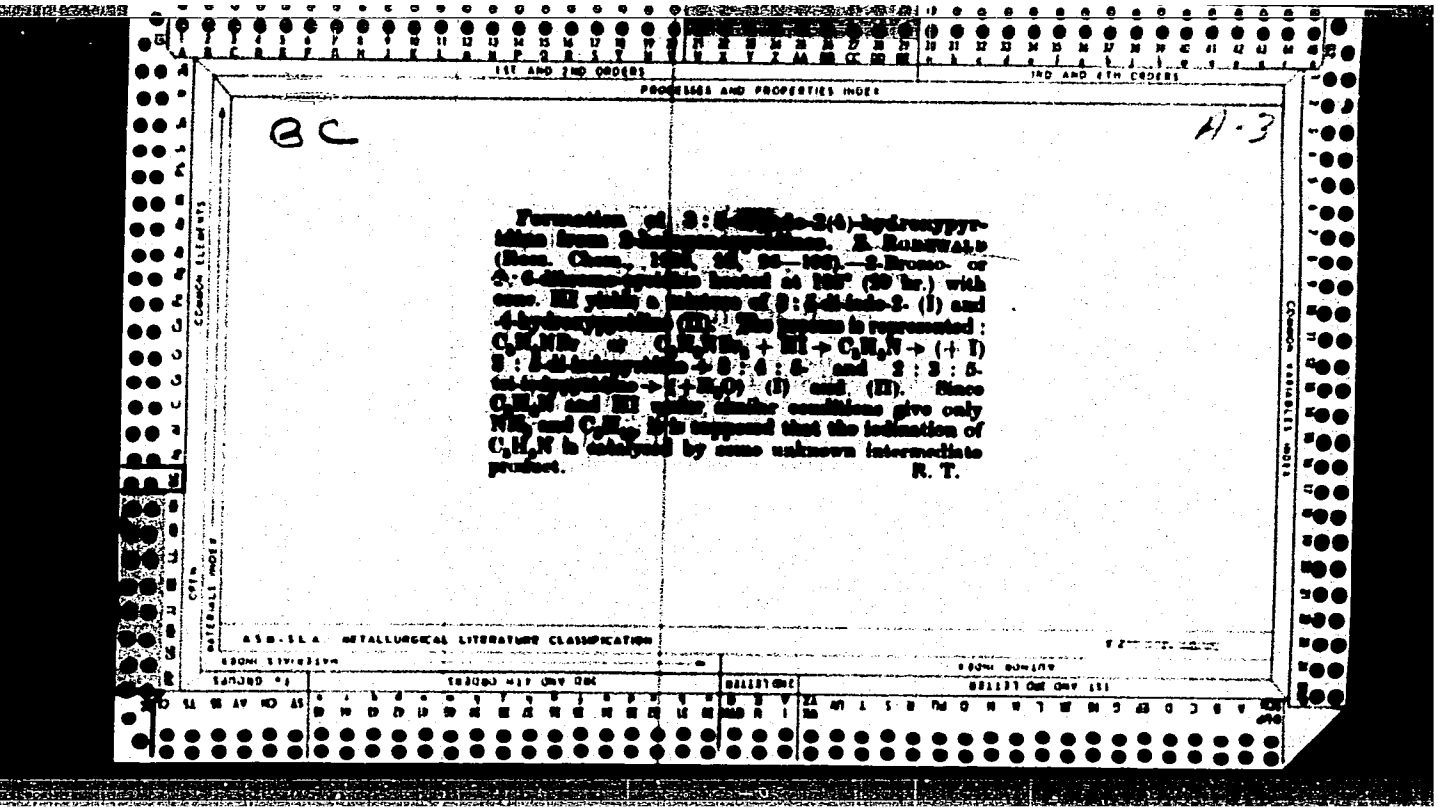


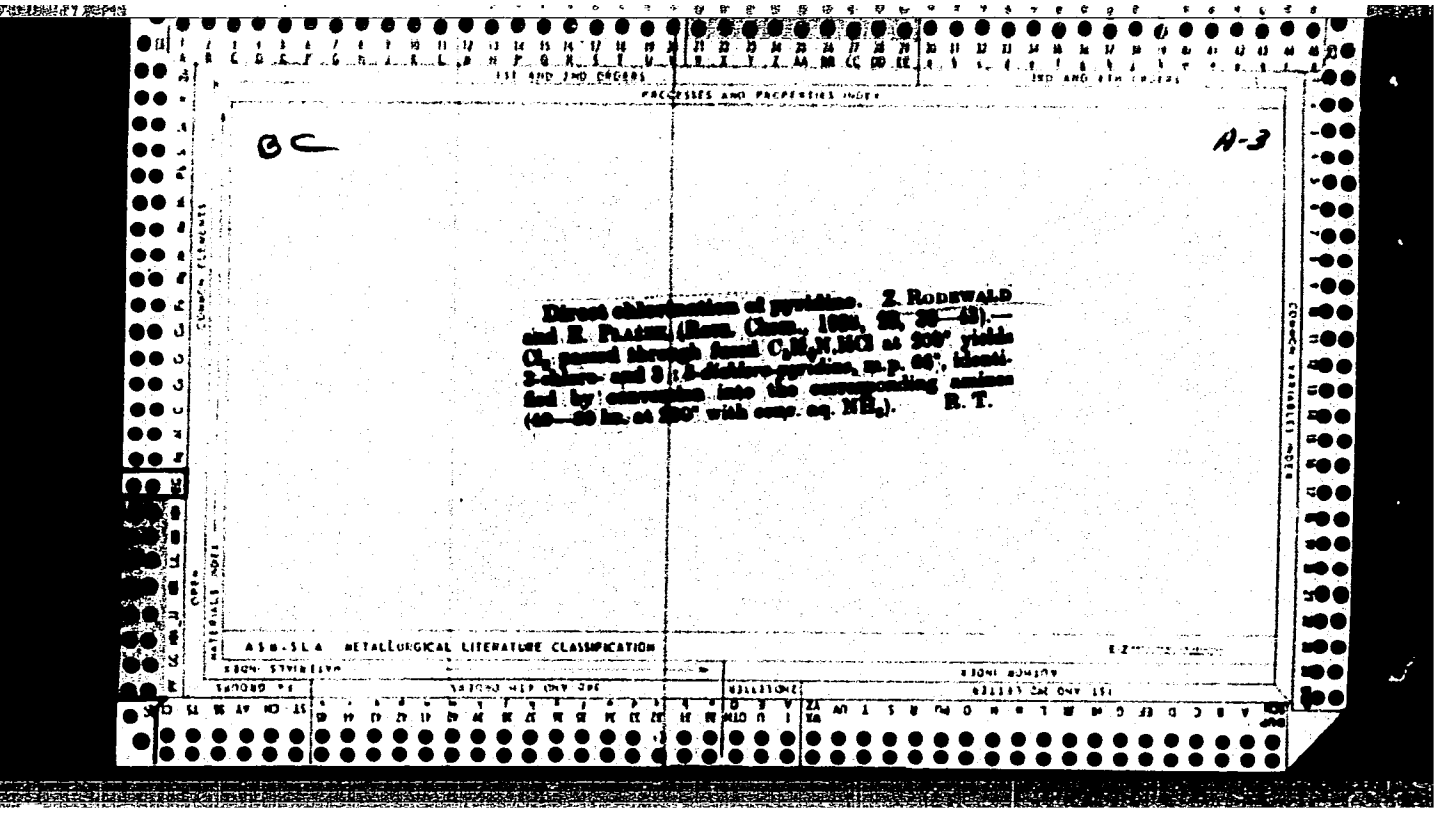


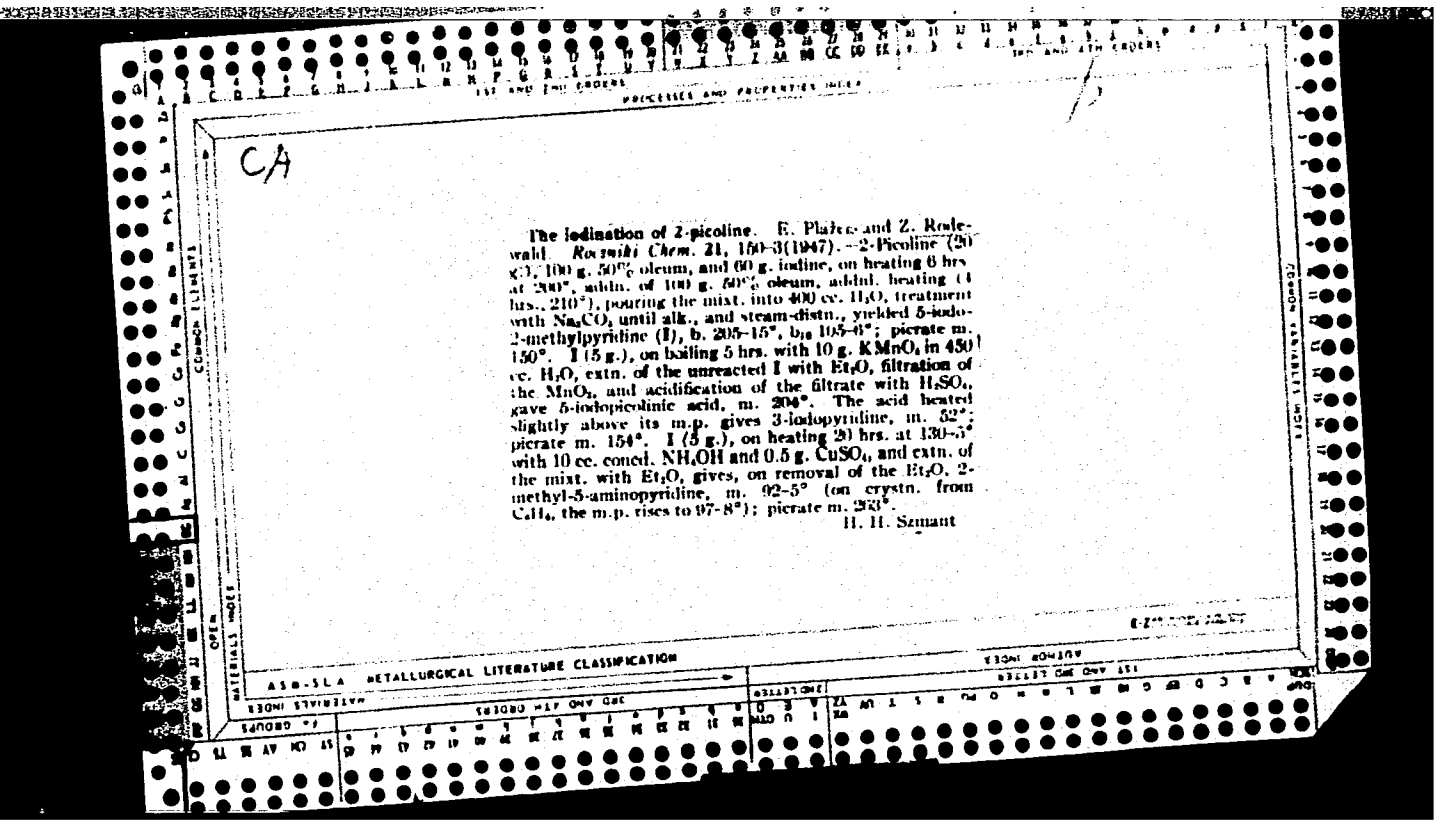
BC

A-3

3-Aminopyridine. III. Iodination. Z. Rodewald and E. Plazek (Roczn. Chem., 1936, 16, 130—136).—3-Aminopyridine (I) and ICl in fuming HCl yield an additive compound of variable composition, which, when boiled with H_2O, gives 2 : 6-di-iodo-3-aminopyridine (II), m.p. 188° (3-N-*Ac* derivative, m.p. 189—191°; also obtained when β-aminopicolinic acid is used in place of (I). (II) in EtOH–H_2SO_4 and $KMnO_4$ afford 2 : 6-di-iodopyridine, m.p. 139—140°, together with some 2 : 6-di-iodo-3-ethoxypyridine, m.p. 86—88°. 3-Acetamidopyridine (III) and ICl in AcOH afford an additive compound, m.p. 169°, from which (III) or 3-aminopyridine (IV) is obtained by the action of acids or alkalis. The hydrochloride of (IV) and ICl at 290° yield dichloro-3-aminopyridine, m.p. 116°. R. T.







CA

The iodination of 2-picoline. E. Plažek and Z. Rolewald. *Roczniki Chem.* 21, 150-3(1947).—2-Picoline (20 g.), 100 g. 50% oleum, and 60 g. iodine, on heating 6 hrs. at 200°, addn. of 100 g. 60% oleum, addnl. heating (4 hrs., 210°), pouring the mixt. into 400 cc. H_2O, treatment with Na_2CO_3 until alk., and steam-distn., yielded 5-iodo-2-methylpyridine (I), b. 205–15°, b_{18} 105–6°; picrate m. 150°. I (5 g.), on boiling 5 hrs. with 10 g. $KMnO_4$ in 450 cc. H_2O, extn. of the unreacted I with Et_2O, filtration of the MnO_2, and acidification of the filtrate with H_2SO_4, gave 5-iodopicolinic acid, m. 204°. The acid heated slightly above its m.p. gives 3-iodopyridine, m. 52°; picrate m. 154°. I (5 g.), on heating 20 hrs. at 130–5° with 10 cc. concd. NH_4OH and 0.5 g. $CuSO_4$, and extn. of the mixt. with Et_2O, gives, on removal of the Et_2O, 2-methyl-5-aminopyridine, m. 92–5° (on crystn. from C_6H_6, the m.p. rises to 97–8°); picrate m. 253°.

H. H. Szmant

NOVIKOV, A.N.; NEPSHA, A.V.; RODGOL'TS, Yu.S.; KORZHENEVSKIY, A.I.; GUL'YEV, G.F.; KOZIN, G.N.; KUDRINA, A.P.

Valuable contribution of inventors and efficiency promoters in the improved technical level of enterprises of refractories. Ogneupory 29 no. 5:194-196 '64.

Resin-dolomite-magnesite unfired refractories for steel smelting converters with a top oxygen blow. Ibid.:197-200 (MIRA 17:7)

1. Vsesoyuznyy institut ogneuporov (for Novikov, Nepsha, Rodgol'ts). 2. Zavod "Magnezit" (for Korzhenevskiy). 3. Zavod "Krovorozhstal'" (for Gul'yev, Kozin, Kudrina).

USSR / Cultivated Plants. Fruit Trees. Small Fruit Plants. Nut Trees. Tea. M

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 25055

Author : Rodianov, O. P.
Inst : Not given
Title : Peach Cultivation in the Forest-and-Steppe Zone of the Ukraine

Orig Pub : Byul. nauk.-tekhn. inform. po sadinytstvu, 1957, No 4, 41-43

Abstract : In the forest-and-steppe zone of the Ukraine, the peach was cultivated recently. Now, the following new early-maturing varieties have been raised: Early Kiev, the Very Early Kiev, Fame of Kiev. The best wilding for the peach is the apricot. Additional work is necessary for the selection

Card 1/2

similarity with the peach. It is recommended to graft the peach to the crown of the apricot or plum for the increase of winter-resistance of the flower buds. The peach must occupy approximately one-third of the crown. Unsatisfactory wildings for the peach are the sloe and sandy cherry. Myrobalan, the spiny plum and plum may be used with the consideration of local and variety peculiarities. Best of all, the peach grows without transplantation by means of grafting on a fixed location. -- M. E. Kaminskaya-Kamershteyn

Card 2/2

RODIC, D.

Planning work in a battery, p. 80

VOJNIK GLASNIK (Jugoslavenska narodna armija) Beograd, Yugoslavia.
Vol. 13, no. 1, Jan. 1959

Monthly List of East European Accessions EEAI LC, Vol. 8, no. 6, June 1959
Uncla.

RODIC, Dragan

Unac River. Glas Srp geogr dr 43 no.1:35-44 '63.

RODIC, Joze, inz.

Some practical examples of the use of statistical analysis in metallurgy. Livar vest 10 no. 2/3:69-76 '63.

1. Zelezarna Ravne.

RODIC, Joze, inz.

Formation and utilization of tempering zones. Nova proizv 13 no.2:141-154 '62.

BURIJAN, Jovan; DUGANDZIC, Slobodanka; BUGARSKI, Olga; RODIC, Sofija; JEVTIC, Zivojin

Use of electrophoresis in the examination of gastric juice. Srpski arh. celok. lek. 88 no.11:1105-1110 N '60.

1. Interna klinika A Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Branisla Stanojevic. Hemijski institut Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Pavle Trpinac.

(GASTRIC JUICE chem)