"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

L 06556-67
ACC NR: AP6015235

is generated by the response of the second channel of the zero-element. Since the two channels are identical, it appears that the summary noise is the sum of these two components. Orig. art. has: 10 formulas, 2 figures.

SUB CODE: 13,14/ SUBM DATE: 22Sep64/ ORIG REF: 004

Card 2/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMEL'MAN, V.B.

Control of temperatures in the reaction zone of a rotating furnace. Khim.prom. no.7:541-544 Jl '63. (MIRA 16:11)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMEL'MAN, V.B.

Heat content of phosphates along the length of a rotary furnace during their defluorination. Zhur.prikl.khim. 37 no.1:41-45 Ja '64.
(MIRA 17:2)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMELYANSKIY, N.I.; MURAV'YEV, I.V.

Synthesis of esters of pnosphorodithioic acids with a substituent in the β -position in an alcohol radical. Zhur.ob.khim. 34 no.1:98-102 Ja '64. (MIRA 17:3)

1. L'vovskiy gosudarstvennyy universitet imeni Iv. Franko.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMENKOV, Boris Sergeyevich; KREKSHINA, L., red.; YEGOROVA, I., tekhn.red.

[Memorable places of Moscow; pages from the life of men of science and culture] Pamiatnye mesta Moskvy; stranitsy zhizni deiatelei nauki i kul'tury. Moskva, Mosk.rabochii, 1959. 509 p. (MIRA 12:12)

(Moscow--Guide books)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMENOVA, M.

Peroral nutrition after gynecological operations. Cesk. gynek. 29 no.5:390-392 Je'64

1. Gyn.-por. klin. lek. KU [Karlovy university] v Plzni;prednosta: prof. dr. V.Mikolas.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

BERG, A., povar-instruktor; CHEKLASHKOV, A., master-povar (g.Moskva); ASEYEV, V., povar; SHIROKOV, G.; ZEMEROV, A., master-povar (g.Kemerovo); GRIGOR'YEV, P., inzh.-tekhnolog

Advice to the cook. Obshchestv. pit. no.8:28-30 Ag '61. (MIRA 14:10)

1. Kochubeyevskiy raypotrebsoyuz (for Berg). 2. Restoran "Kursk", g.Kursk (for Aseyev). 3. Zamestitel' zaveduyushchego proizvodstvom stolovoy No.45, g. Saratov (for Shirokov).
(Cookery)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

Zemerov, I.V.

CHERNYAK, N.Kh.; ZEMEROV, I.V.; NAUMOV, I.S.; SHMELEV, I.P.; NESTEROV, L.Ye.
STEPANOV, P.T.

Improve and develop communication facilities in the economic regions. Vest.sviazi 17 no.8:15-18 Ag '57. (MIRA 10:10)

1.Nachal'nik otdela elektrosvyazi Sverdlovskogo oblastnogo upravleniya (for Chernyak). 2. Nachal'nik Sverdlovskogo telegrafa (for Zemerov) 3.Nachal'nik Sverdlovskoy mezhdugorodnoy telefonnoy stantsii (for Klebanov). 4.Zamestitel' nachal'nika Sverdlovskogo upravleniya svyazi (for Naumov). 5.Nachal'nik otdela pochtovoy svyazi Sverdlovskogo upravleniya svyazi (for Shmelev). 6.Nachal'nik Sverdlovskoy direktsii radiotranslyatsionnykh setey (for Nesterov). 7.Nachal'nik Ordzhonikidzevskoy kontory svyazi g. Sverdlovska (for Stepanov).

(Sverdlovsk--Telecommunication--Congresses)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMEROV, Nikolay Iosifovich; ABRAMOVICH, G.O., red.; KOLBICHEV, V.I., tekhn. red.

[Development of telecommunications in Chelyabinsk Province in the seven year plan]Razvitie sviazi Cheliabinskoi oblasti v semiletke. Cheliabinsk, Cheliabinskoe knizhnoe izd-vo, 1960. 21 p. (MIRA 15:12)

(Chelyabinsk Province--Telecommunication)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMETS, A.A., prof. (Karaganda)

Characteristics of the disorders of blood circulation in pneumoconiosis. Klin. med. 41 no.6:114-120 Je '63. (MIRA 17:1)

1. Iz kafedry propedevtiki vnutrennikh bolezney (zav. - prof. A.A. Zemets) Karagandinskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMETS, A.A., prof.

Acute gastroenteritis of toxinfectious origin. Zdrav.Kazakh. 17 no.8:28-32 '57. (MIRA 12:6)

1. Iz kliniki propedevtiki vnutrennikh bolezney Karagandinskogo gosudarstvennogo meditsinskogo instituta.
(GASTROENTERITIS)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMETS, A.A., prof. (Karaganda)

Clinical picture of pneumoconiosis in Karaganda miners. Klin.med. 36 no.6:108-113 Je '58 (MIRA 11:7)

1. Iz kliniki propedevtiki vnutrennikh bolezney (zav. - prof. A.A. Zemets) Karagandinskogo meditsinskogo instituta.
(PNEUMOCONIOSIS, epidemiol.
in Russia, in miners (Rus))

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

L 18780-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD
ACCESSION NR: AT3002462 R/2501/63/008/001/0031/0042 58

AUTHOR: Protopopescu, M.; Zemirche, S.; Petrescu, N.; Trite, V. (Rumanian orth.) 27

TITLE: Electrical resistivity of indium as a function of the degree of purity (Translation from Rumanian into Russian; original published in the journal "Studii si cercetari de metalurgie, Acad. R.P.R.", 1962, 7, 3.)

SOURCE: Academia Republicii Populare Romine. Revue Roumaine de metallurgie. v. 8, no. 1, 1963, 31-42

TOPIC TAGS: Semiconductor material, electrical resistivity, electrical conductivity, indium, cementation, electrolysis, vacuum distillation, transport phenomena, zone refining, impurity.

ABSTRACT: The relationship between the resistivity of indium and the concentration of impurities was investigated in order to establish a quick and easy method of purity assay for samples too pure for chemical or spectral analysis. Indium of extreme purity is needed for the semiconductor industry. Indium of 99.998% purity was obtained by applying the methods of cementation, electrolysis of hydrochloric acid solutions, vacuum distillation and repeated zone refining with 14

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L 18780-63
ACCESSION NR: AP3002462

forced cooling. A phenomenological relationship was determined for the ratio of the resistivity at room temperature to the resistivity at liquid nitrogen temperature and the concentration of impurities (by weight) C:

$$\rho_{300°K}/\rho_{80°K} = 1,48 \cdot \log \frac{1}{C} + 2,15.$$

If this equation is presented graphically, then the concentration of impurities is easily determined by making resistance measurements at room and liquid nitrogen temperatures. Orig. art. has 3 graphs, 1 diagram and 5 tables.

ASSOCIATION: none

SUBMITTED: 000 DATE ACQ: 17Jun63 ENCL: 00

SUB CODE: EL, PH NO REF SOV: 000 OTHER: 000

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMIJAK, J.

"Preparatory processes in weaving."

p. 1064 (Tekstil) Vol. 6, no. 12, Dec. 1957
Zagreb, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMIKOV, V. N.; USTIMENKO, B. P.

"Hydrodynamics and heat transfer of rotating flow between two coaxial cylinders."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 64.

Power Inst, AS KAzSSR

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMILINSKIY, Ye., vyadovoy

Pulse pair. Voen. vest. 39 no. 7:89 Jl '60. (MIRA 14:2)
(Shooting, Military) (Synthetic training devices)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMISEK, O.

The WD 250 horizontal drilling machine, p. 529, STROJIRENSTVI (Ministerstvo strojirenstvi) Praha, Vol. 5, No. 7, July 1955

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

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMISEV, V.N., inzh.; TROITSKIY, V.S., inzh.

Rigid plumb bob for detecting the centers of hidden bench marks. [Trudy] VNIMI no.45:325-328 '62. (MIRA 16:4)
(Surveying instruments) (Mine surveying)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMITE, A. P. In Latvian

ZEMITE, A. P. -- "Determination of Requirement for Liming and Lime Doses for Soils Rich in Organic Matter." Latvian Agricultural Academy, 1951. In Latvian (Dissertation for the Degree of Candidate of Agricultural Sciences)

SO: Izvestiya Ak. Nauk Latviyskoy SSR, No. 9, Sept., 1955

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

L 7879-66 EWT(m)/EPF(c)/EWP(j)/T RPL RM

ACC NR: AP5025030 SOURCE CODE: UR/0286/65/000/016/0083/0083

AUTHORS: Belyayev, V. A.; Gromova, V. A.; Zemit, S. V.; Kavrayskaya, N. L.; Kopylov, Ye. P.; Kosmodem'yanskiy, L. V.; Kostin, D. L.; Kut'in, A. M.; Lazaryants, E. G.; Romanova, R. G.; Tsaylingol'd, V. L.; Shikhalova, K. P.; Shushkina, Ye. N.

ORG: none

TITLE: Method for obtaining synthetic rubber. Class 39, No. 173942

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 83

TOPIC TAGS: rubber, synthetic rubber, butadiene, styrene, polymer, copolymer, polymerization

ABSTRACT: This Author Certificate presents a method for obtaining synthetic rubber

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

SUB CODE: 11,07/ SUBM DATE: 03Jul65

Card 1/1 nw

UDC: 678.762 678.762-134

L 44199-66 EWT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6015673 (A) SOURCE CODE: UR/0413/66/000/009/0076/0076

INVENTOR: Lazaryants, E. G.; Aleshin, A. M.; Gromova, V. A.; Zemit, S. V.; Kopylov, Ye. P.; Kosmodem'yanskiy, L. V.; Romanova, R. G.; Troitskiy, A. P.; Tsaylingol'd, V. L.; Shikhalova, K.P.; Shushkina, Ye.N.; Kostin, D. L.

ORG: none

TITLE: Preparation of divinyl-alpha-methylstyrene rubber. Class 39, No. 181294

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 76

TOPIC TAGS: rubber, methylstyrene rubber, alpha methylstyrene, divinyl

ABSTRACT: This Author Certificate introduces a method of preparing divinyl-alpha-methylstyrene rubber by emulsion copolymerization of divinyl with alpha-methylstyrene at 20C and above in thr presence of persulfate initiators and emulsifiers. To increase the polymerization rate and improve the conditions for the granular coagulation of latex, commercial grades of sodium salts of the synthetic fatty acids C_{10}-C_{16}

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UDC: 678.762.2-134.2

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L 44199-66

ACC NR: AP6015673

are suggested as emulsifiers in the following composition (%): C_{10}, 5—7; C_{11}, 12—14; C_{12}, 16—17; C_{13}, 15—17; C_{14}, 12—13; C_{15}, 9—10; C_{16}, 7—8; below C_{10} and above C_{16}, 15—20. [Translation]

[LD]

SUB CODE: 11/ SUBM DATE: 12Mar62/

Card 2/2 JS

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

BOGACHEV, V.K.; BELOVASHINA, N.M.; ZEMIT, V.E.

Yaroslavl section of the All-Union Botanical Society. Bot. zhur. 43 no.9:1380-1381 S '58. (MIRA 11:10)

1. Yaroslavskiy pedagogicheskiy institut i Yaroslavskiy sel'skokhozyaystvennyy institut.
(Yaroslavl--Botanical research)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

USSR / Cultivated Plants. Plants for Technical Use. M
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24980

Author : Zemit, V. E.
Inst : Yaroslavl' Agricultural Institute
Title : On the Problem of Variability of the Characteristic-Overall Height of Long Fiber ["Dolgunetz"] Flax Stalks

Orig Pub : Tr. Yaroslavsk. s.-kh. in-ta, 1957, 4, 145-159

Abstract : Cultivation of the plants was conducted under conditions of box sowing in a vegetative little house. The changeability of the stalk's overall height was studied in the parental plants as well as in the first and second seed generation. A repetitive

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

USSR / Cultivated Plants. Plants for Technical Use. M
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24980

cultivation of flax under equal conditions by seeds, taken from the experimental plants, leads to the equalization of the plants' growth along the general height of the stalk. This takes place at the expense of reducing the general height of the stalk in the generation of tall grasses, and of increasing the general height of the stalk in the generation of undersized plants. A prolonged effect of good or bad conditions of the flax cultivation may lead to the appearance of differentiated ecotype forms in the variety and in the subsequent generations. Unevenness of the agricultural engineering background decreases the harvest and impairs its quality,

Card 2/3

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

USSR / Cultivated Plants. Plants for Technical Use. M
Oil Plants. Sugar Plants.

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24980

and also causes a prolonged or permanent change in the flax nature. The growing heterogeneity of the stalk stand in old seed batches of selective varieties, existing for a long time in industrial sowings, permits the production of an effective mass selection with the application of pulling or a two-fold threshing. A massive improving selection amid the sowings of selective flax varieties produced positive results, and it should be used on seed plots of long fiber ["dolgunetz"] flax. -- P. N. Kizima

Card 3/3

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMIT, V. E.

The cultivation of long-stem flax. Moskva, Sel'khozgiz, 1943. 75 p. (49-35700)

SB253.Z4

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMIT, V. E.

27824. Zemit, V. E. Ob immunitete sortov L'na - Dolguntsa k rzhavchine. Selektsiya i semenovodstvo, 1949, No. 9, s. 54-59

SO: Letopis' Zhurnal'nykh Statey, Vol. 37, 1949

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMITAN, V.I., gvardii mayor meditsinskoy sluzhby

Signs for designating temporary shelters for wounded and disabled. Voen.-med. zhur. no.10:76 O '55. (MLRA 9:10)
(RUSSIA--ARMY--TRANSPORTATION OF SICK AND WOUNDED)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMITAN, V.I.

"A Sign Denoting the Spots of Temporary Shelter For Casualties."

pp. 76 Voyenno-Med. Zhur. No.10 October, 1955

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

BARBALIS, P.; ZEMITE, A.; NEILANDE, A., red.

[Improvement and fertilization of soils] Augsmu ielabosana un meslosana. Riga, Latvijas Valsts izd-ba, 1964. 237 p. [In Latvian] (MIRA 18:2)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

Country : USSR
Category : Soil Science. Fertilizers. Mineral Fertilizers. J

Abs Jour : RZhBiol., No 6, 1959, No 24648

Author : Zemite, A.
Inst :
Title : Soil Requirements of the Livanskiy Rayon (LatvSSR) in Calcium Fertilizers.
Orig Pub : Pochva i urozhay. Riga, 1956, 5, 61-66

Abstract : No abstract.

Card : 1/1

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMKO, A.; [redacted].

Our production of sporting goods. p. 192. FAIPAR. (Faipari Tudamanyos Egyesulet) Budapest. Vol. 5, no. 7, July 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress
Vol. 5, no. 6, June 1956

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

REHAK, A.; ZEMKOVA, A.

Functional vascular disorders in atopic neurodermatitis. Cesk. derm. 37 no.4:251-254 Ag '62.

1. Kozne oddelenie Detskej fakultnej nemocnice v Bratislave, veduci doc. dr. A. Rehak.
(ECZEMA in inf & child) (NEURODERMATITIS in inf & child)
(VASOMOTOR SYSTEM inf & child)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZENKOVA, R.I.; KAZACHINSKAYA, T.P.

Characteristics of the trunk pests of Siberian fir in the Western Sayan Mountains. [Trudy] STI 35:3-13 '63
(MIRA 18:2)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMKOVA, R.I., nauchnyy sotrudnik

Use of light traps in the mountain areas of the Western Sayan. Zashch.rast.ot vred.i bol. 7 no.6:45 Je '62. (MIRA 15:12)

1. Institut lesa i drevesiny Sibirskogo otdeleniya AN SSSR.
(Insect traps)
(Yermakovskoye District—Forest insects—Extermination)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMKOVA, Z.

"Growth and Transformations of Epithelium of a Pregnant Rabbit Womb Outside the Organism," Dok.AN, 41, No. 3, 1943. Mbr., State Oncological Inst., Leningrad, -1943-.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

KRAWET, Antoni, mgr inz.; ZEMLA, Adam, inz.

Increase of the rotational speed and the rate of control efficiency in sudden cases of unloading turbine generator sets and methods of improving the dynamic properties of the control. Pt.1. Energetyka Pol 16 no.9:Suppl.1 Energopomiar 8 no.5:33-36 S '62.

1. Dzial Maszyn Przeplywowych, Zaklad Badan i Pomiarow, Warszawa.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

SLUSARCZYK, Stanislaw, inz.; KRAWET, Antoni, inz.; ZEMLA, Adam, inz.; MICHALOWSKI, Teofil, inz.; TOMASZEWSKI, Zbigniew, inz.

Increased disposable power and work economy of LMZ 50 MW power units. Gosp paliw 11 Special issue no.(95):57 Ja '63.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

SLUSARCZYK, Stanislaw, inz.; KRAWET, Antoni, inz.; ZEMLA, Adam, inz.; MICHALOWSKI, Teofil, inz.; TOMASZEWSKI, Zbigniew, inz.

Increased disposable power and work economy of IMZ 50 MW power units. Gosp paliw 11 Special issue no.(95):57 Ja'63.

1. Elektrownia Jaworzno II.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

KRAWET, Antoni, mgr inz.; ZEMLA, Adam, inz.

Increase of the rotational speed and the control operation at a sudden unloading of a turbine-generator set and methods of improving the dynamic properties of the control. Pt. 2. Energetyka Pol 16 no.11: Suppl.: Energopomiar 8 no.6:42-48 N '62.

1. Dzial Maszyn Przeplywowych, Zaklad Badan i Pomiarow, Warszawa.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMLA, F.

"Champions of the smallest ball game."

p. 28 (Ceskoslovensky Vojak) Vol. 7, no. 1, Jan. 1958
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMLA, Janina

Osseous homografts in the treatment of ununited traumatic and patholic fractures of the mandible. Chir. narz. ruchu ortop; polska 27 no.1:63-68 '62.

1. Z Kliniki Chirurgii Stomatologicznej AM w Warszawie Kierownik: prof. dr. M.Gorski.
(BONE AND BONES transpl) (MANDIBLE fract)
(FRACTURES UNUNITED surg)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMLA, J; PESEK, J.

Titration of polioviruses in human amnion cells, using the colour test on plastic panels. Acta virol.Engl.Ed., 3:253-257 O '59.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

(POLIOMYELITIS VIRUS)
(AMNION)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

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SOKOL, F.; LIBIKOVA, H.; ZEMLA, J.

Properties of infectious ribonucleic acid derived from brains of mice infected with tick-borne encephalitis virus. Acta virol. Engl. Ed. Praha 4 no.2:65-74 Mr '60

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

(RIBONUCLEIC ACID chem.)
(BRAIN chem.)
(ENCEPHALITIS EPIDEMIC exper.)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

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Concentration and partial purification of an interferon. Acta virol.Engl.Ed.Praha 5 no.2:129 Mr '61.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.
(VIRUSES)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

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A method for the production of an interferon in chick-embryo cells. Acta virol.Engl.Ed.Praha 5 no.2:130 Mr '61.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.
(VIRUSES culture)

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SOKOL, F.; ZEMLA, J.; MAYER, V.; LIBIKOVA, H.

Infectious ribonucleic acid from purified tick-borne encephalitis virus. Acta virol.Engl.Ed.Praha 5 no.2:132 Mr '61.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.
(ENCEPHALITIS EPIDEMIC virol)
(RIBONUCLEIC ACID)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

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ZEMLA, J.; VILCEK, J.

Studies on an interferon from tick-borne encephalitis virus-infected cells (IF). II. Physical and chemical properties of IF. Acta virol. Engl.Ed.Praha 5 no.6:367-372 N '61.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

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MAYER, V.; ZEMLA, J.

The multiplication of tick-borne encephalitis virus in suspended HeLa cell cultures. Acta virol. (Praha)[Eng]6 no.1:53-57 Ja '62.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

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Notes on the effect of interferon on metabolism on chick embryo cells. Acta virol. 6 no.3:275-277 My '62.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.
(VIRUSES) (EMBRYO metab)

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Oxygen uptake and aerobic glycolysis of human cells persistently infected with tick-borne encephalitis virus. Acta virol. 6 no.3: 285 My '62.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.
(ENCEPHALITIS EPIDEMIC virol) (TISSUE CULTURE)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

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ZEMLA, J.

Oxygen uptake, glucose utilization and glycolysis in normal and poliovirus-infected HeLa cells. Acta virol. Engl. Ed. Praha 6 no.5: 436-446 S '62.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.
(POLIOMYELITIS VIRUSES culture) (CARBOHYDRATES metab.)
(TISSUE METABOLISM)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

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Study of cytopathic agents isolated from Ixodes persulcatus ticks. Acta virol. (Praha)[Eng] 7 no.5:475 S '63.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

(VIRUSES) (TICKS)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

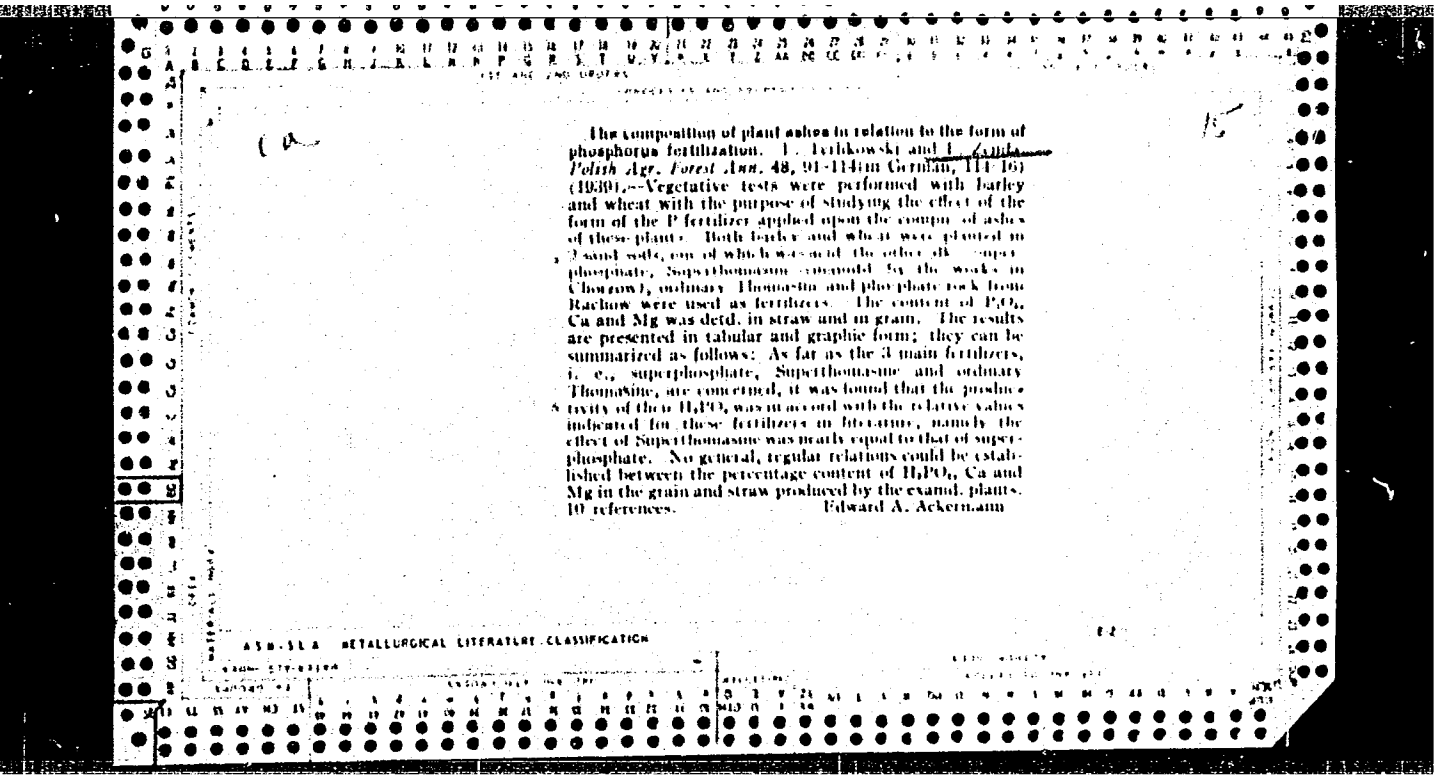
ZEMLA, Stefan

Stocktaking problems of the current state and modernization of old-fashioned metallurgy. Problemy proj hut maszyn 12 no.11: 347-348 N '64.

1. Biprohut, Gliwice.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2



The composition of plant ashes in relation to the form of phosphorus fertilization. T. Tetikowski and L. Zaniko. *Polish Agr. Forest Ann.* 48, 91-114(in German, 111-16) (1930).--Vegetative tests were performed with barley and wheat with the purpose of studying the effect of the form of the P fertilizer applied upon the compn. of ashes of these plants. Both barley and wheat were planted in 2 soils, one of which was acid, the other alk. Superphosphate, Superthomasine compounded by the works in Chorzow), ordinary Thomasite and phosphate rock from Rachow were used as fertilizers. The content of P_2O_5, Ca and Mg was detd. in straw and in grain. The results are presented in tabular and graphic form; they can be summarized as follows: As far as the 3 main fertilizers, i. e., superphosphate, Superthomasine and ordinary Thomasite, are concerned, it was found that the positive activity of their H_3PO_4 was in accord with the relative values indicated for these fertilizers in literature, namely the effect of Superthomasine was nearly equal to that of superphosphate. No general, regular relations could be established between the percentage content of H_3PO_4, Ca and Mg in the grain and straw produced by the exam. plants. 10 references. Edward A. Ackerman

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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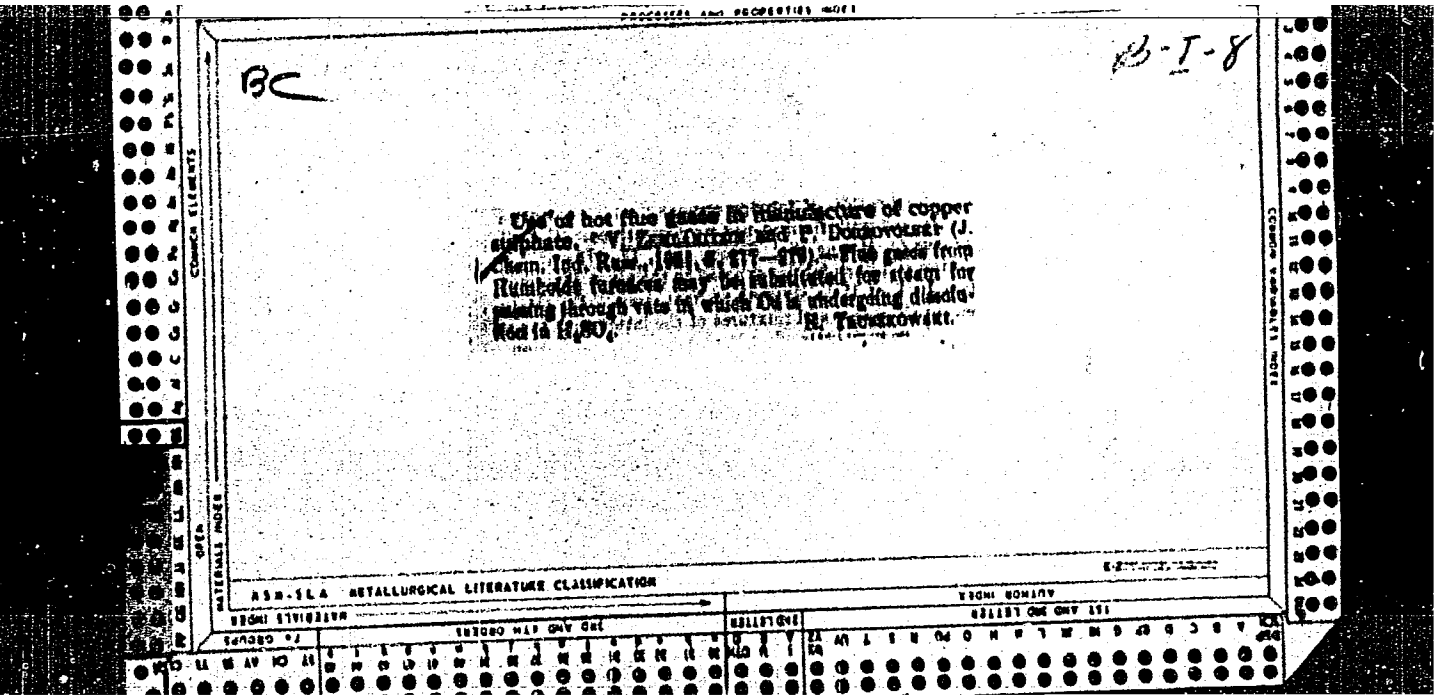

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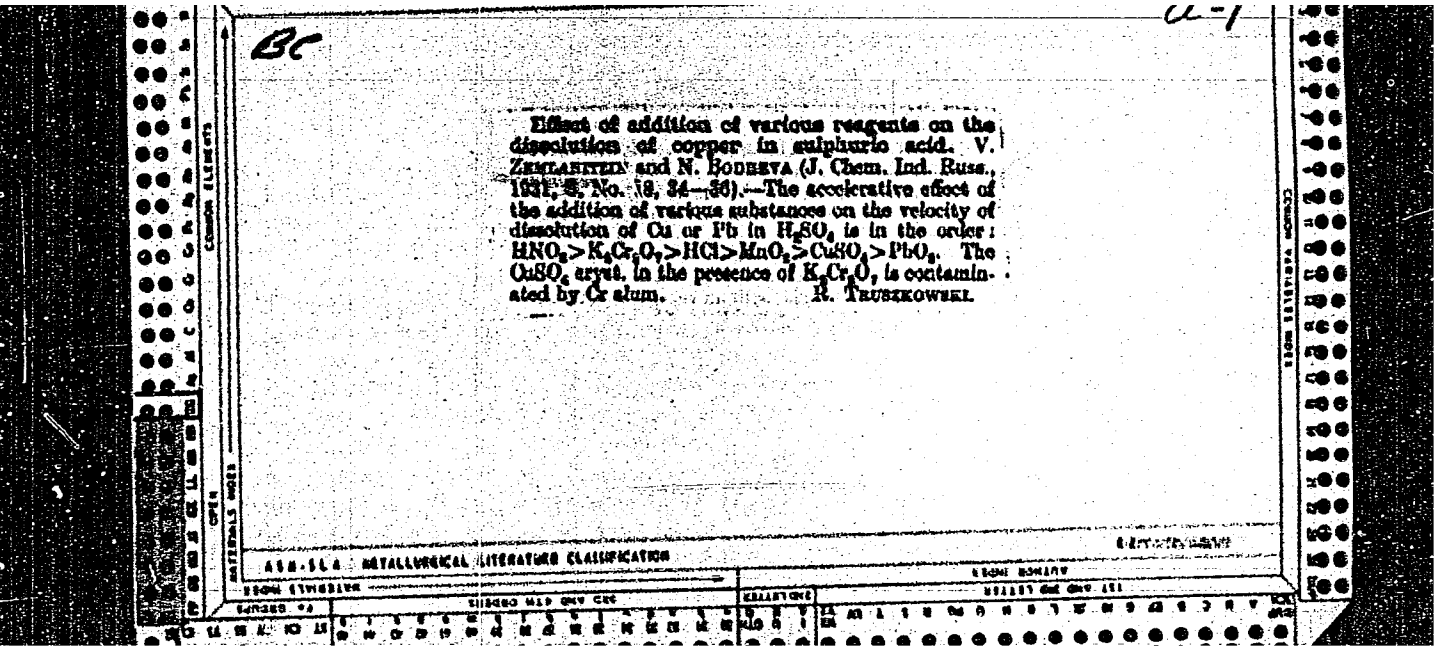

Bc

a-1

Effect of addition of various reagents on the dissolution of copper in sulphuric acid. V. ZEMLANITZIN and N. BODNEVA (J. Chem. Ind. Russ., 1931, 8, No. 18, 34—36).—The accelerative effect of the addition of various substances on the velocity of dissolution of Cu or Pb in H_2SO_4 is in the order: $HNO_3 > K_2Cr_2O_7 > HCl > MnO_2 > CuSO_4 > PbO_2$. The $CuSO_4$ cryst. in the presence of $K_2Cr_2O_7$ is contaminated by Cr alum. R. TRUSZKOWSKI.

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ZEMLEGLYADOV, K.G.

Standardization of molds for investment casting. Standartizatsiia 28 no.9:53-55 S '64. (MIRA 18:2)

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ZEMLEGLYADOV, K.G.; SEMENOVA, T.A.

Standardization in industrial companies. Standartizatsiia 27 no.12:34-40 D '63. (MIRA 17:4)

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ZEMLEGLYADOV, K.G.

Multiple die-casting molds. Biul.tekh.ekon.inform.Gos.nauch.-issl.inst. nauch.i tekh.inform. 17 no.10:33-35 O '64. (MIRA 18:4)

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ZEMLEGLYADOV, Konstantin Grigor'yevich; SEMENOVA, Tamara Akimovna; KUZNECHENKOV, K.M., red.

[Efficient ways of introducing the multiple machining method based on the standardization of parts and billets] Effektivnye puti vnedreniia metoda gruppovoi obrabotki na osnove unifikatsii detalei i zagotovok. Leningrad, 1965. 42 p. (MIRA 18:5)

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SHEYNMAN, Remual'd Petrovich; ZEMLEGLYADOV, Konstantin Grigor'yevich; NOVIKOVA, L.K., red.; TELYASHOV, R.Kh., red. izd-va; GVIRTS, V.L., tekhn. red.

[Improvement of the production structure of a machinery plant] Sovershenstvovanie proizvodstvennoi struktury mashinostroitel'nogo zavoda. Leningrad, Ob-vo po rasprostraneniiu politicheskikh i nauchn. znanii RSFSR, 1963. 42 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Mekhanizatsiia inzhenernogo i upravlencheskogo truda, no.1) (MIRA 16:7)
(Machinery industry—Management)

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VEKSLER, Maks Saulovich; ZEMEL'MAN, M.A., red.

[Electrostatic devices] Elektrostaticheskie pribory. Moskva, Energiia, 1964. 94 p. (Elektroizmeritel'nye pribory no.7) (MIRA 17:8)

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ZEMEL'MAN, V.B.; KOGAN, A.M.; VETCHINKIN, V.Ye.

Method for determining relations between the parameters of a revolving furnace. Khim. prom. no.10:776-779 O '63.
(MIRA 17:6)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMLER, B., arkhitektor

Change the method of installing door blocks in partitions. Na stroi.Mosk. 2 no.6:31 Je '59. (MIRA 12:8)
(Doors)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

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ZEMLER, B., arkhitektor

Fasteners for paired window panes. Stroitel' no.2:18 F '59.
(MIRA 12:5)

(Windows)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMLER, Josef

Standardization of technological processes in the consumer goods industry. Sklar a keramik 14 no.5:150-151 My '64.

1. Sdruzeni podniku jablonecke bizuterie, Jablonec nad Nisou.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

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ZEMLER, Josef

Standardized cast-iron shearing dies of press tools. Sklar a keramik 13 no.11:315-316 N'63.

1. Sdruzeni podniku jablonecke bizuterie, oborove normalizacni stredisko, Jablonec nad Nisou.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

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ZEMLER, Josef

Improvement of the production process by the enterprise level standardization. Normalizace 12 no.10:274 O '64.

1. Sdruzeni podniku jablonecke bizuterie, Jablonec nad Nisou.

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ZEMLER, Josef

The goals of technical standardization in the jewelry and utility glass industries. Sklar a keramik 12 no.11:331-332 N '62.

1. Vyzkumny ustav uzitkoveho skla a bizuterie, Jablonec nad Nisou.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

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ZEMLEZIN, I.N., inzh.

Transportation of railroad cars on sea ferries. Vest. TSNII MPS 24 no.8:50-54 '65. (MIRA 19:1)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

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3269. THE CLINICAL PICTURE OF THE PRIMARY PHLEGMON OF THE STOMACH (Russian text) - Zemlianoy A. G. - KHIRURGIYA 1958, 5 (70-76) Tables 1 Illus. 1

Five cases are reported and 32 case histories from the literature are analysed. The general toxic symptoms are pronounced and the patients look seriously ill. They moan or cry from pains in the stomach. Respiration is embarassed. The tongue is dry and the fever rises up to 40° C. Even on insignificant strain of muscles in the epigastric area and seemingly mild changes in the abdominal cavity, the pulse rate is increased. This incoordination of the gravity of the general condition with local manifestations is characteristic of phlegmon of the stomach. Resection of the stomach should be performed as early as possible. If resection is not possible the gastric wall should be injected with antibiotics.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

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ZEMLICH, V.F.; SHCHERBAKOVA, Ye.Ya.

Use of aminazine in psychomotor disorders in patients with acute closed cerebrocranial injuries. Vop.neirokhir. 24 no.4:49-51 Je-Ag '60. (MIRA 13:12)

(CHLORPROMAZINE) (BRAIN—WOUNDS AND INJURIES)

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ZEMLICH, V.F.

Confabulations. Zhur. nevr. i psikh. 62 no.3:397-408 '62.
(MIRA 15:3)

1. Institut neyrokhirurgii (dir. - prof. B.G. Yegorov) AMN SSSR i kafedra psikhiatrii (zav. - prof. A.V. Snezhnevskiy) TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.
(PSYCHOSES)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMLICKA, Frantisek

Experience with the operation of a 4 x 4 m heavy-duty nozzle chamber. Slevarenstvi 11 no.8/9:402 Ag '63.

1. Zdarske strojirny a slevarny.

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2

ZEMLICKA, J; BERANEK, J.; SMRT, J. CSSR

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Science, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 12, 1962, pp 2784-2795

"Preparation and Methanolysis of Uridine, 6-Azauridine and 6-Azacytidine O-Formyl Derivatives"

(3)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMLICKA, J.; BERANEK, J.; SMRT, J.

Preparation and methanolysis of uridine, 6-azauridine and 6-azacytidine O-formyl derivatives. Coll Cz Chem 27 no.12: 2784-2795, D '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

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ZEMLICKA, J.

3,'5',-di-O-trityluridine. Coll Cz chem 29 no.7:1734-1735 Jl '64.

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ZEMLICKA, J.

Reactions of dimethylformamide acetals with some heterocyclic systems. Coll Cz Chem 28 no.4:1060-1062 Ap '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMLICKA, J.; SMRT, J.; SORM, F.

Nucleic acid components and their analogues. Pt. 27. Coll Cz Chem 28 no.1:241-244 Ja '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

CZECHOSLOVAKIA

ZEMLICKA, J.

no academic degree indicated

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Science, Prague.

Prague, Collection of Czechoslovak Chemical Communications, vol 27, No 10, Oct 62, pp 2464-2467.

"Self-Condensation of Triformylmethane to 1,3,5-Triformylbenzene"

Co-authors:

KRUPICKA, J. same as above

ARNOLD, Z. same as above

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

CZECHOSLOVAKIA

ZEMLICKA, J; SORM, F

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague - (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 2, February 1967, pp 576-590

"Nucleic acid components and their analogues. Part 89: Synthesis of 2',3'-o-isopropylidene-o2,5'-cyclo-6-azauridine and 2-(-D-ribofuranosyl)-3-amino-4,5-dihydro-1,2,4-triazine-3-one (6-azaisocytidine)."

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMLICKA, J.

Technology of the processing of fermented dough in stationary mixing machines. p. 132.

TECHNIKA VUYUPU, MLYNARSTVI A PEKARSTVI. (Ministerstvo potravinarskeho prumyslu a vykupu zemedlskych vurobku a Sdruzeni mlynu a pekaren) Paraha, Czechoslovia, Vol. 5, no. 3, Mar. 1959.

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

Uncl.

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ZEMLICKA, J.; KRUPICKA, J.; ARNOLD, Z.

Self-condensation of triformylmethane to 1,3,5-triformylbenzene. Coll Cz chem 27 no.10:2464-2467 O '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZELLICKA, J.

CZECHOSLOVAKIA

no academic degree indicated

Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Science, Prague

Prague, Collection of Czechoslovak Chemical Communications, vol 27, No 10, Oct 62, pp 2404-2407.

"Phosphates Derived from 3-Hydroxysulpholane and 3-Hydroxysulphol-2-ENE as Phosphorylating Agents"

Co-author:

SMRT, J. same as above

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

ZEMLICKA, J.

SURNAME, Given Names

Country: Czechoslovakia

(1)

Academic Degrees: [not given]

Affiliation: Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague

Source: Prague, Collection of Czechoslovak Chemical Communications, Vol 26, No 11, November 1961, pp [illegible]

Data: "Synthetic Reactions of Dimethylformamide. X. Synthesis and Reactions of Some Triformyl Derivatives of Acetone and Methyl Ethyl Ketone."

Authors:

ZEMLICKA, J
ARNOLD, Z

Also: Vol 26, No 11, pp 2852-2864
"XI. Polyformylation of Ketones of Other Types and the Problem of the Reaction Course."

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ZEMLICKA, J.; SMRT, J.; SORM, F.

Nucleic acid componenets and their analogs. Pt. 48. Coll Cz Chem 29 no. 3:635-644 Mr '64.

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ZEMLICKA, J.; SORM, F.

Preparation of 2-chloroethene-1-sulfonyl ureide. Coll Cz Chem 29 no. 3:837-839 Mr '64.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001964420003-2

Country : Czechoslovakia G-2
Category : Organic Chemistry. Synthetic Organic Chemistry

Abs. Jour. : Ref. Zhur.-Khimiya No. 6, 1959 19357

Author : Arnold, Z.; Zemlicka, J.
Institut. :
Title : Synthetic Reactions of Dimethylformamide. II. Interaction of Ketals with Dimethylformamide and Phosgene.
Orig. Pub. : Chem. listy, 1958, 52, No 3, 458-467

Abstract : Study of formylation of diethyl-ketals $RC(OC_2H_5)_2CH_2R'$ [acetophenone (I), propiophenone (II), acetone (III), pinacoline (IV), cyclopentanone (V), cyclohexanone (VI)] with dimethylformamide (VII) and $COCl_2$ (VIII). On the basis of investigations of the products of formylation of ketals the assumption is made that the reaction takes place over the stage of an intermediate quaternary salt $[C_2H_5OCR=CR'CH=N(CH_3)_2]^+X^-$ (IX), the decomposition of which occurs, depending upon the nature of R and R' and of the reactants used, according to different schemes: IX $\xrightarrow{OH}$ $RC(OC_2H_5)=CR'CHO$ (X); I $\xrightarrow{(CH_3)_2NH}$ $[(CH_3)_2NCR=CR'CH=N(CH_3)_2]^+Cl^-$ (XI)

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Abstract : (XI) $\xrightarrow{OH^-}$ $(CH_3)_2NCR{=}CR'CHO$ (XII) $\xrightarrow{(CH_3)_2NH}$ RCO-$-CR'{=}CHN(CH_3)_2$ (XIII) $\xrightarrow{OH^-}$ XI. By the action of $(CH_3)_2NH$ the X is converted to XII. Attempts to formylate diethyl ketal of isobutyrophenone (BP 115°/10 mm, $n^{20}D$ 1.4823) and diethyl ether of pinacone (XIV) were unsuccessful. All ketals were synthesized from ketones and $HC(OC_2H_5)_3$. Diethyl ketal of IV, BP 66-67°/23 mm, $n^{20}D$ 1.4123. To 0.25 mole VII and 0.125 mole VIII in 160 ml dichlorethane added at 0° 0.05 mole ketal of I, heated 3 hours at 40°, decomposed with 0.2 mole CH_3COONa and ice; distillation of CH_2ClCH_2Cl-layer yielded β-chloro-cinnamic aldehyde, yield 5.8%, BP 55-70° (bath temperature)/ /0.2 mm; aqueous layer saturated with K_2CO_3 and extracted

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Abstract : with C_6H_6- alcohol, 1:1. Extract evaporated in vacuum, from aqueous solution of residue extraction with C_6H_6 gave XII, R = C_6H_5, R'= H, yield 25.7%, BP 130°/0.2 mm, MP 61° (from ether)(submitates at 60°/0.12 mm); aqueous layer evaporated in vacuum, residue dissolved in dichlorethane and used ether to precipitate XI, R = C_6H_5, R'= H, yield 44.6%, MP 205-207°(decomposes); picrate (PC) $C_{19}H_{21}O_7N_5$ MP 89-90° (from 50% alcohol). After formylation of ketal of II at 50° from CH_2ClCH_2Cl-layer was separated X, R = C_6H_5, R'= CH_3, yield 92.1%, BP 86-94°/0.15 mm. By heating of X, R = C_6H_5, R'= CH_3, with 4 N solution of $(CH_3)_2NH$ in C_6H_6 for

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Abs. Jour. : 19357

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Title :

Orig Pub. :

Abstract : 1.5 hours was synthesized XII, R = C_6H_5, R'= = CH_3, yield 53.4%, BP 50°/0.08 mm, MP 80-81° (from ether). Formylation of ketal of III gave mixture (yield 4.6%, BP 120-140°/10 mm) of XII, R = CH_3, R'= H (XIIa) and XIII, R = = CH_3, R'= H (XIIIa)(identified by paper chromatography) and 56% XI, R = CH_3, R'= H, MP 193-197°(decomposes; from pyridine) PC $C_{14}H_{19}N_5O_7$, MP 100-101°; perchlorate $C_8H_{17}N_2ClO_4$ (XV), MP 156°. Hydrolysis of XV with aqueous KOH at 25° yielded (72.8%) mixture of XIIa and XIIIa, while treatment of XV with aqueous KCl and hydrolysis of resulting chloride in moderate vacuum gave XIIIa, yield 55.4%, MP 64° (from ether); PC, MP 140°. XIIa was synthesized from $CH_3CCCH{=}CHCl$ (0.3 mole)
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Abstract : and 300 ml 2.3 N solution of $(CH_3)_2NH$ in toluene (at 0°), yield 77.5%, BP 111-112°/7 mm. Formylation of ketal of IV at 50° gave X, R = tert-C_4H_9, R'= H, yield 82%, BP 105-110°/9 mm, $n^{20}D$ 1.4705; semicarbazone (SC), MP 163-165° (from 50% alcohol), and small amount of XIII, R = = tert-C_4H_9, R'= H, MP 38.5° (from ether at - 75°), sublimates at 35-40°/0.1 mm. Formylation of ketal of V gave 2-dimethylamino-cyclopenten-1-al, yield 47.6%, BP 117-121°/ /1 mm, MP 87-87.5° (from ether)(sublimates at 75-80°/0.1 mm). From ketal of VI was obtained 2-ethoxy-cyclohexene-1-al, yield 59%, BP 140-160°/11 mm, MP 36° (from ether at - 75°)

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Abstract : (sublimates at 30-35°/0.1 mm), $n^{20}D$ 1.5100; SC, MP 207-207.5° (from 50% alcohol). To 0.2 mole K in 100 ml liquid NH_3 added 0.05 mole pinacone, replaced NH_3 by C_6H_6 and boiled for 4.5 hours with 0.3 mole $(C_2H_5)_2SO_4$ and then for 3 hours with 31.55 g $Ba(OH)_2$ and 200 ml water; obtained 72.8% XIV, BP 65-67°/20 mm, $n^{20}D$ 1.4128. From 0.1 mole C_6H_5-$COCBr(CH_3)_2$, $HC(OC_2H_5)_3$ and Zn in C_6H_6 (boiling 10 hours) was synthesized $C_6H_5COC(CH_3)_2CH(OC_2H_5)_2$ (XVI), yield 14.7%, BP 148/12 mm, $n^{20}D$ 1.4940. 0.5 g XVI treated with 20 ml 80% H_2SO_4, cooling with ice, for 30 minutes, decomposed with ice, precipitate sulimated at 145°/0.1 mm, to get $C_6H_5COC(CH_3)_2CHO$ yield 100%, MP 158-158.5° (from 75% alcohol). Pyrolysis of

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Abs. Jour. : 19357

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Orig. Pub. :

Abstract : of ketal of $C_6H_5COCH(CH_3)_2$ in the presence of $p\text{-}CH_3C_6H_4SO_3H$ was obtained α-ethoxy-β,β-dimethylstyrene, BP 98-100°/9 mm, $n^{20}D$ 1.5169. Communication I see RZhKhim, 1958, 39539. -- J. Kucera.

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ZEMLICKA, J.; SMRT, J.

Phosphates derived from 3-hydroxysulfolane and 3-hyroxysulfol-2-ene as phosphorylating agents. Coll Cz chem 27 no.10:2404-2407 O '62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

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ZEMLICKA, J.

Synthetic reactions of dimethylformamide. III. Preparation of β-chlorovinyl aldehydes. Z. Arnold and J. Zemlička (Českoslov. akad. věd, Prague). *Collection Czechoslov. Chem. Communs.* 24, 2378–84(1959)(in German); cf. *C.A.* 53, 6007*e*, 11206*b*.—The prepn. of *ClCH:CRCHO* [*R* = *H* (I), *Me* (II), *Et* (III), *Am* (IV), *Ph* (V), *PhCH*$_2$ (VI)], *PhCCl:CMeCHO* (VII), and *ClCH:CMeCOPh* (VIII) was given. The β-chlorovinyl aldehydes were unstable even at 0° in sealed ampuls; they gave a pos. reaction with 2,4-(O$_2$N)$_2$C$_6$H$_3$NHNH$_2$ and a neg. reaction with FeCl$_3$; the Cl atom reacted readily with Me$_2$NH with the formation of the corresponding β-dimethylamino compds. which gave a characteristic coloration with FeCl$_3$. Excess (about 50 g.) COCl$_2$ was introduced with stirring and cooling with NaCl-ice mixt. into 18.8 g. anhyd. CH$_2$(CHO)$_2$ Na salt and stirring was continued 90 min. Filtering off the ppt., washing with Et$_2$O, evapg. the filtrates *in vacuo* (bath temp. below 40°), and distg. gave 13.2 g. I, b$_{20}$ 37–41°, n_D^{20} 1.4823. Similarly, the HCOCH:CHCH$_2$CHO Na salt gave 55% ClCH:CHCH:CHCHO, m. 57° (cyclohexane). Treating a suspension of 8.12 g. HOCH:CMeCOPh in 100 ml. C$_6$H$_6$ with 23 ml. 4.35*N* Me$_2$NH in C$_6$H$_6$, keeping the mixt. 1 hr. at room temp., evapg., adding again 23 ml., and distg. the next day gave 6.54 g. *Me$_2$NCH:CMeCOPh* (IX), b$_{0.3}$ 127–130°, m. 45.5–7° (Et$_2$O at −15°). Heating 13 hrs. in an autoclave on a steam bath 4.5 g. ClCPh:CMeCHO with 50 ml. 4.38*N* Me$_2$NH in C$_6$H$_6$, filtering off the pptd. Me$_2$NH$_2$Cl, evapg. *in vacuo*, dissolving the residue in 200 ml. H$_2$O, extg. the soln. with petr. ether, satg. the aq. layer with K$_2$CO$_3$, extg. with C$_6$H$_6$, drying the exts. with K$_2$CO$_3$, and distg. gave 3.1 g. *Me$_2$NCPh:CMeCHO*, b$_{0.4}$ 145–150° (bath temp.). COCl$_2$ (0.025 mole) in CHCl$_3$ was added dropwise in 5 min. with stirring and cooling into 0.01 mole Me$_2$NCH:CMeCHO in 5 ml. CHCl$_3$ and the mixt. was stirred 45 min. at room temp. (evolution of CO$_2$); evapg. *in vacuo* gave an unstable cryst. residue [Me$_2$N:CHCMe:CHCl]Cl, which was decompd. with stirring and cooling (ice) by the addn. of 25 ml. H$_2$O and 20 ml. Et$_2$O. Extg. the aq. layer with Et$_2$O, combining the Et$_2$O exts., washing with H$_2$O, 1:1 aq. NaHCO$_3$, and H$_2$O, drying (MgSO$_4$), and distg. gave 56% II, b$_{20}$ 53–60°, n_D^{20} 1.4800. Similarly were prepd.: III (84%), b$_{20}$ 50–5°, n_D^{20} 1.4745; V (86%), b$_{0.15}$ 60°, m. 25–6° (Et$_2$O at −70°); VI (84%), b$_{0.4}$ 85–90°, m. 32–3° (petr. ether at −15°); VII (62 %), b$_{0.35}$ 100–5° (bath temp.); VIII (24%), b$_{0.1}$ 90–3° (bath temp.). In the prepn. of III (76%) and IV (79%), b$_{17}$ 100°, n_D^{20} 1.4718, 0.011 mole POCl$_3$ in CHCl$_3$ was also used instead of COCl$_2$. *p*-MeC$_6$H$_4$SO$_2$Cl with Me$_2$NCH:CEtCHO in C$_6$H$_6$ soln. in a mole ratio 1:1 gave only 25% III. Keeping 10 mg. VIII 2 days with 1 ml. 4.38*N* Me$_2$NH in C$_6$H$_6$ gave IX, R_f 0.05 (by chromatography on a paper impregnated with HCONMe$_2$ and development with cyclohexane). A surprising stability of the unsubstituted salt [Me$_2$N:CHCH:CHCl]Cl (m. not given) towards hydrolysis is mentioned in contrast to the behavior of the substituted derivs. IV. Preparation of β-chlorovinyl aldehydes from carbonyl compounds. *Ibid.* 2385–92.—Reactions of RCOCH$_2$R′ with HCONMe$_2$ and POCl$_3$ in a molar ratio 1:3:2.5 gave ClCR:CR′CHO (*R*, *R*′, reaction time, bath temp., yield, b.p., and n_D^{20} given: *Me*, *H*, 45 or 30 min., 20° or 35–40°, 38%, b$_{20}$ 60–65° (bath. temp.), 1.4790; *Me*, *Me* (I), 35 min., 35–40°, 67%, b$_{13}$ 53–5°, 1.4915; *Et*, *Me*, 30 min., 35–40°, 77%, b$_{13}$ 57°, 1.4871; *Ph*, *H* (II), 2 hrs., 40–45°, 47%, b$_3$ 99–103°, 1.6166 [semicarbazone, m. 206–7° (EtOH)]; *Ph*, *Me* (III), 3 hrs., 40–45°, 91%, b$_{1.5}$ 117°, 1.5833 (semicarbazone m. 154–5°); (RR′ =) (CH$_2$)$_4$ (IV), 1 hr. or 30 min., 20° or 35–40°, 60%, b$_{13}$ 58°, 1.5162; (RR′ =) (CH$_2$)$_5$, 20 min., 20–40°, 54%, b$_{13}$ 87,° 1.5225; (RR′ =) (CH$_2$)$_6$, 40 min., 35–40°, 65%, b$_{13}$ 95–8°, 1.5227; (RR′ =) (CH$_2$)$_8$, 45 min., 35–40°, 63%, b$_{13}$ 135–40° (bath temp.), 1.5247. Similarly, only 28% ClCH:CEtCHO, b$_{20}$ 62–8°, was prepd. from PrCHO. The ketone (0.05 mole) is added

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in 5–15 min. with stirring and ice-cooling into the reagent (prepd. by treating in 5–15 min. at 0° 11.3 ml. $POCl_3$ with 11 g. $HCONMe_2$ and stirring 30 min. at room temp.). The mixt. is kept 30–90 min. in a bath at 20–45° and decompd. with 150 g. ice. The product is isolated by extn. with Et_2O, washing the exts. with aq. $NaHCO_3$ or Na_2CO_3 or NaOH, resp., to remove any hydroxymethyleneketone RCOCR':CHOH present, and distg.; in some cases, the decompd. mixt. is neutralized with solid $NaHCO_3$, steam distd., the distillate satd. with NaCl, the product extd. with Et_2O, and distd. Only traces of the isomeric ClCEt:CHCHO (V) were detd. in the prepn. of I from MeCOEt. Treating V with 4.38*N* Me_2NH in C_6H_6 and keeping the mixt. 3 days at room temp. gave Me_2NCH:CHCOEt (VI) (R_f 0.33 by paper chromatography in iso-Pr_2O–H_2O), the product of a rearrangement. VI, $b_{3.5}$ 99.5–101°, was also prepd. from ClCH:CHCOEt and Me_2NH in 1:1 C_6H_6–$MeCH_3$. I, b_{25} 68° (bath temp.), n_D^{25} 1.4917, was prepd. (yield 68%) from Me_2NCH:CMeCOMe (VII) and $COCl_2$. Similarly, authentic V, b_{11} 58–62°, n_D^{25} 1.4748, was prepd. (yield 18%) from VI and $COCl_2$. Adding with agitation in 10 min. at 0° 0.05 mole *tert*-BuCOMe into a reagent prepd. from 0.25 mole Me_2NH and 0.125 mole $COCl_2$ (*loc. cit.*), heating the mixt. 1.5 or 3.5 hrs. to 70° or 55°, resp., decompg. with 0.2 mole anhyd. NaOAc and 100 g. ice, sepg. the layers, extg. the aq. layer with $(CH_2Cl)_2$, combining the exts., washing with H_2O, drying ($MgSO_4$), and distg. gave 80% ClC(*tert*-Bu):CHCHO (VIII), b_{11} ~90° (bath temp.), n_D^{25} 1.4769. Similarly, PhCOEt gave 50% III. Reactions of the $HCONMe_2$–$COCl_2$ reagent with PhCOPr-iso and ClCPh:CH_2 failed. Reaction of II with excess 4*N* Me_2NH in C_6H_6 gave [Me_2NCPh:CHCH:NMe_2]Cl [*picrate*, m. 60–1° (EtOH)], and traces of Me_2NCPh:CHCHO, R_f 0.41 by paper chromatography with $CH_2(OBu)_2$–H_2O. Heating 1 hr. on a steam bath in an autoclave 5 g. VIII with 23 ml. 4.35*N* Me_2NH in C_6H_6, cooling, filtering off the Me_2NH_2Cl, washing with C_6H_6, and distg. gave 45% Me_2NCH:CHCOBu-*terl*, b_1 115°, m. 38.5° (Et_2O at −15°). Treating IV with Me_2NH in C_6H_6 at room temp. gave 2-dimethylamino-1-cyclopentenecarboxaldehyde (R_f 0.00) and 2-dimethylaminomethylenecyclopentanone (R_f 0.26) as shown by paper chromatography in $CH_2(OBu)_2$–H_2O. The Benary method (*C.A.* 24, 4507) was used to prep. VII, R_f 0.04 (iso-Pr_2O–H_2O), m. 40° (Et_2O). JiH Plimi

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