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Br. Abs. 911-6 Heterocyclic

Condensation [illegible] of [illegible]. V. Ettel, J. [illegible] and O. Chyba (Coll. Trav. chim. Tchécosl., 1950, 15, [illegible]—[illegible]).—In the course of an investigation of the pharmacological and bactericidal properties of derivatives of 2-methylbenzthiazole several new compounds are prepared by the condensation of aldehyde with the reactive Me. ([illegible]$_3$·CHO and 5-nitrofurfuraldehyde react in the absence of dehydrating agents, yielding aldols. An intimate mixture of 2-methylbenzthiazole (I), p-NO_2·C_6H_4·CHO, and $ZnCl_2$ is heated at [illegible]—[illegible]° (sealed tube, 5 hr.) then extraction with boiling conc. HCl and dilution with H_2O yield 2-p-nitrostyrylbenzthiazole, $C_{15}H_{10}O_2N_2S$ (67%), m.p. [illegible]—[illegible]° (block). I heated with CCl_3·CHO at [illegible]—110° (4 hr.) or with CCl_3·CH(OH)$_2$ at [illegible]—[illegible]° yields 3-trichloro-1-2'-benzthiazolylpropan-2-ol, $C_{10}H_8ONCl_3S$ (II), m.p. [illegible]—[illegible]° (picrate, m.p. [illegible]°; benzoyl ester, $C_{17}H_{12}O_2NCl_3S$, m.p. [illegible]—[illegible]°). Hydrolysis of II in KOH–EtOH–H_2O ([illegible], 1 hr.) yields 2-benzthiazol-2'-ylacrylic acid, $C_{10}H_7O_2NS$, m.p. [illegible]—[illegible]°. The condensation of I with 5-nitrofurfuraldehyde in the absence of catalyst is stated to yield both the expected aldol and its dehydration product.

I. G. M. Campbell.

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Condensation products of chloral. Condensation of chloral with veratrole. J. Weichet. *Collection Czechoslov. Chem. Communs.* 15, 940-52(1951)(in French).—Derivs. of veratrole were prepd. to study the relationship of chem. structure to insecticidal, vermicidal, and anthelmintic properties. The results of biol. tests are to be published later. Thus to 27.6 g. (0.2 mole) veratrole and 29.5 g. (0.2 mole) chloral in 70 ml. CS_2 in a flask protected by a $CaCl_2$ tube, was added 0.0 g. anhyd. $AlCl_3$ in 0.5-g. portions every 10 min. [illegible] stirring; the mixt. which turned dark and became warm, was cooled at once in cold H_2O causing a solid to sep.; and after standing overnight with cooling, the solid was dried and suspended in dil. acid to remove $AlCl_3$, leaving 23 g. product (I). The CS_2 soln., treated with concd. HCl, dried with $NaSO_4$, and distd. gave veratrole and 7 g. material (II) [illegible], crystg. on cooling. I recrystd. several times from CCl_4 gave 3,4-$(MeO)_2C_6H_3CH(OH)CCl_3$ (III), m. 134-5°, yielding veratric acid, m. 178-9°, when boiled with excess of NaOH in H_2O-EtOH. II recrystd. from EtOH with charcoal, gave $[3,4\text{-}(MeO)_2C_6H_3]_2C{:}CCl_2$, m. 120-1°. III benzoate m. 111-12°. III refluxed 1 hr. with a slight excess of $SOCl_2$, distd., and the fraction b_{12} 190-2°, recrystd. from MeOH gave 3,4-$(MeO)_2C_6H_3CHClCCl_3$ (V), m. 100-1°. V (4 g.) was dissolved in 20 ml. EtOH and a soln. of 2 g. NaOH in 4 ml. H_2O, 10 ml. EtOH added, and after the reaction ceased, the mixt. was heated 10 min. and dild. with 30 ml. H_2O; 1 crystn. from 90% EtOH gave 3,4-$(MeO)_2$-$C_6H_3CCl{:}CCl_2$, m. 62-3°. $H_2NCH_2CH_2OH$ can be used instead of NaOH. III (7 g.) in 70 ml. HOAc and 10 ml. H_2O was treated with 5 g. CrO_3 and when the reaction subsided, the mixt. was refluxed 2 hrs., chilled, poured at once into 300 ml. H_2O, and the product dried and crystd. from MeOH to give *3,4-dimethoxy-α,α,α-trichloroacetophenone*, m. 98-100°.

Harold H. Levine

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

Several derivatives of phenoxyacetic acid. V. Ettel, J. Weichet, and J. Spáčil. *Collection Czechoslov. Chem.* Communs. 15, 1050-68(1951)(in German).—A series of phenoxyacetic acid derivs. were prepd. for a study of the relationship of structure to herbicidal and fungicidal properties. Thus p-$C_6H_4(OCH_2CO_2H)_2$ (I) was prepd. from p-$C_6H_4(OH)_2$, $ClCH_2CO_2H$, and NaOH; di-Me ester, m. 98-9°. With 22.6 g. I suspended in 100 ml. HOAc, passing in 14.3 g. Cl, at 60-70°, cooling, filtering, and crystg. the 20.3 g. crude product from HOAc gave (*2,5-dichloro-p-phenylenedioxy*)*diacetic acid* (II), m. 272-4°; *di-Me ester*, m. 178-9° (from HOAc), also prepd. from 23.5 g. I di-Me ester by treating it in cooled AcOH with 15 g. Cl, as the temp. increased to 60°, cooling the soln., filtering, and recrystg. the solid; sapon. in MeOH-H_2O soln. with KOH gave II. Bromination of I gave (*2,5-dibromo-p-phenylenedioxy*)*diacetic acid* (III), m. 294-6° (from HOAc); *di-Me ester*, m. [illegible]. II di-Me ester (22 g.) in 100 ml. HOAc and 0.5 g. iodine were heated to 110° as an equiv. amt. of Cl was passed in to give 16 g. ppt. after cooling; sublimation in vacuo gave 3.5 g. chloranil, and the residue dissolved in 30 ml. MeOH, heated 30 min. at 100° with 20 ml. 50% KOH, treated with enough H_2O to dissolve the K salt, and the warm soln. made weakly acid gave (*2,3,5,6-tetrachloro-p-phenylenedioxy*)*diacetic acid* (IV), m. 288-90° (from HOAc); *di-Me ester*, m. 106°. 4,2-Cl(HO_2C)C_6H_3-OCH_2CO_2H (V) was prepd. (Meyer and Ducmmal, *C.A.* 8, 347°); di-Me ester, m. 66-7°. o-$HO_2CC_6H_4OCH_2CO_2H$ (12 g.) in 100 ml. HOAc and 0.2 g. iodine was chlorinated at 100°, and the raw product treated, after cooling, in portions with 100 ml. H_2O until 2 fractions were obtained; the 1st fraction was *3,5-dichloro-2-(carboxymethoxy)benzoic acid* (VI), m. 202-3°, slightly sol. in hot H_2O; the 2nd fraction was V. VI was also prepd. from V with HCl and $KClO_3$ at 55°. VI di-Me ester, m. 124-6°. 6-Chlorothymol (VII) (from thymol and SO_2Cl_2) (18.5 g.), 40 ml. warm H_2O, made neutral with Na_2CO_3 soln., 4.1 g. NaOH in 10 ml. H_2O added, then 10 g. $ClCH_2CO_2H$ in 20 ml. H_2O contg. 4.1 g. NaOH, the mixt. refluxed 1.5 hrs., let stand overnight, warmed slightly, made just acid with HCl, filtered after a short time, and the solid dissolved in 30 ml. warm C_6H_6 and cooled, gave *6-chlorothymyloxyacetic acid*, m. 137-8°; *di-Me ester*, m. 51-2° (from 5:1 MeOH-H_2O). H. H. Levine

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WEICHET, JAROSLAV

2

1

Monohydroxydiphenylmethane esters of substituted carbamic acids. Jaroslav Weichet. Czech. 85,057, Dec. 1, 1955. Benzylphenols with $COCl_2$ give $PhCH_2C_6H_4$ esters of $ClCO_2H$ which with amines yield cryst. carbamates showing anthelmintic activity. *p*-$PhCH_2C_6H_4O_2CCl$ (24.7 g.) slowly dropped with stirring into 15.1 g. $HOCH_2CH_2NH_2$ (I) and 100 g. crushed ice yields 24–5 g. *p*-$PhCH_2C_6H_4O_2CNHCH_2CH_2OH$, m. 96–7° (from 50% MeOH). Similarly were prepd. derivs. of: *p*-benzylphenol (II) and $(HOCH_2CH_2)_2NH$ (III), m. 63–4°; II and morpholine (IV), m. 83–4°; II and iso-AmNH, m. 91–2°; II and $EtNH_2$ (V), m. 109–9°; II and MeNH (VI), m. 95–6°; *o*-benzylphenol (VII) and I, m. 81–3°; VII and IV, m. 50–7°; VII and V, m. 74–5°; VII and VI, m. 68–9°.

L. J. Urbánek

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WEICHET, JAROSLAV

3

5-Ethyl-5-(1-methylbutyl)-2-thiobarbituric acid and its sodium salt. Jaroslav Weichet, Oldřich Chyba, and Jiří Stříbrný. Czech. 85,936, Sept. 15, 1956. Adding 152 g. finely ground $CS(NH_2)_2$ and subsequently 127 g. Me ethyl(1-methylbutyl)cyanoacetate to MeONa prepd. from 40 g. Na and 410 ml. MeOH, heating the mixt. 4 hrs. to 90°, distg. MeOH almost to dryness below 100° *in vacuo*, cooling the residue, dissolving in 2 l. ice-cold H_2O, filtering the soln. with 10 g. C, passing CO_2 into the soln. until pH has reached 7.8, sepg. the pptd. crude imino acid (300–450 g.) and adding to a mixt. contg. 158 ml. concd. H_2SO_4 in 4 l. H_2O, boiling 2 hrs. under stirring, washing the resulting ppt. with H_2O, and drying at 60° gave 157 g. title compd., m. 167.5–69° (60% EtOH). L. J. Urbánek

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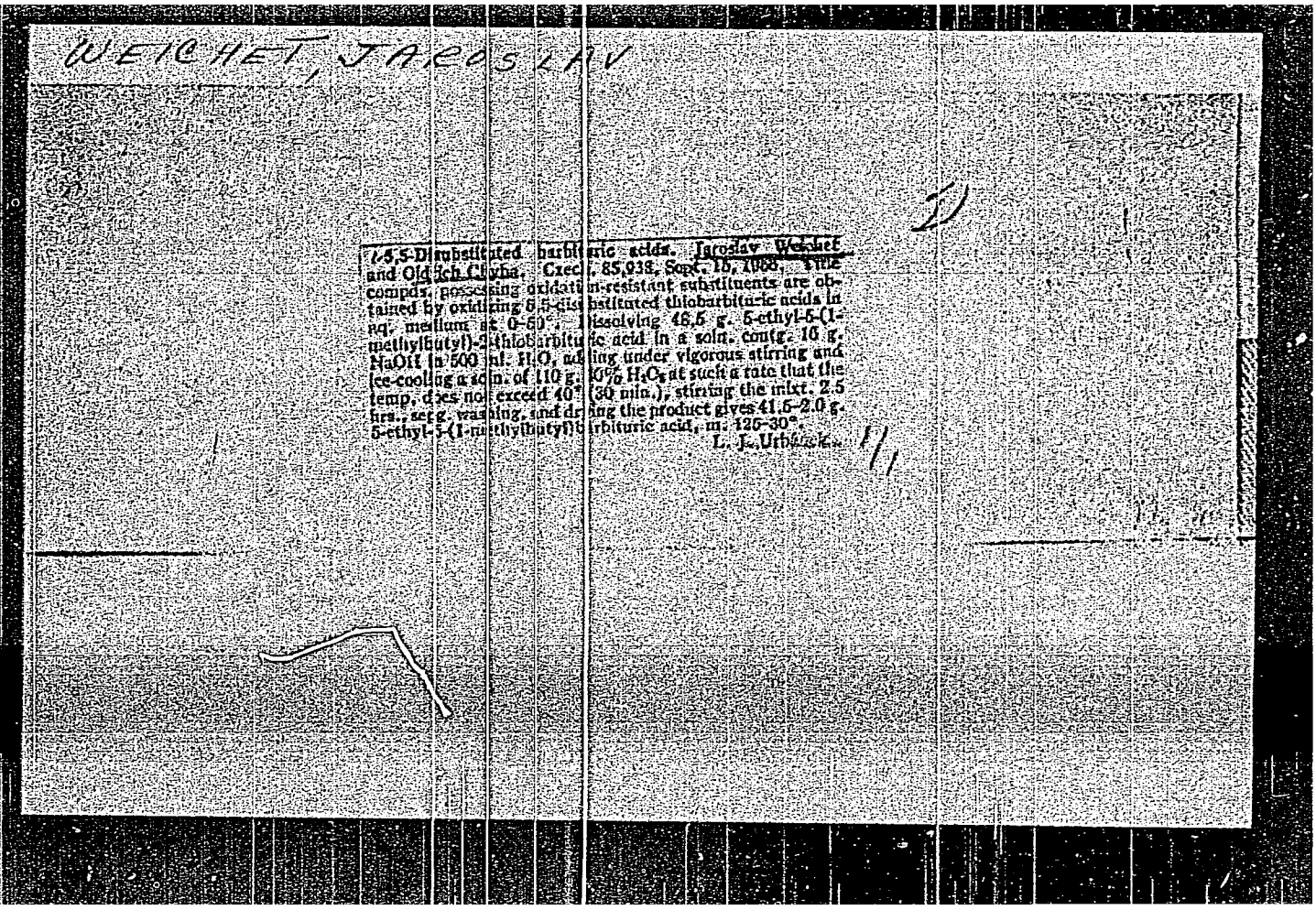

WEICHET, JAROSLAV

5,5-Disubstituted barbituric acids. Jaroslav Weichet and Oldřich Chyba. Czech. 85,938, Sept. 15, 1958. The compds. possessing oxidation-resistant substituents are obtained by oxidizing 5,5-disubstituted thiobarbituric acids in aq. medium at 0–50°. Dissolving 46.5 g. 5-ethyl-5-(1-methylbutyl)-2-thiobarbituric acid in a soln. contg. 16 g. NaOH in 500 ml. H₂O, adding under vigorous stirring and ice-cooling a soln. of 110 g. 10% H_2O_2 at such a rate that the temp. does not exceed 40° (30 min.), stirring the mixt. 2.5 hrs., seeg., washing, and drying the product gives 41.5–2.0 g. 5-ethyl-5-(1-methylbutyl)barbituric acid, m. 126–30°.

L. J. Uthe

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WEICHET, JAROSLAV

Studies in the vitamin K and E series. I. Improved preparation of vitamin K_1. Vratislav Kvita, Jaroslav Weichet, and Václav Trčka (Pharm. Biochem. Research Inst., Prague). *Chem. Listy* 50, 1079-81(1956).—The authors modified the method of Hirschmann, *et al.* (*C.A.* 49, 1319*g*), using $AlCl_3$ as condensing agent and PbO_2 as oxidant. A new method is described for isolating *1-acetoxy-4-hydroxy-2-methylnaphthalene* (I). 1,4-Diacetoxy-2-methylnaphthalene (II) (60.7 g.), 450 ml. MeOH, and 25 ml. 28% aq. NH_4OH was heated to 45° under N, left standing 24 hrs., evapd. *in vacuo* at 40°, the residue dissolved in 160 ml. MeOH, decolorized with C, filtered and the filtrate gradually dild. with small portions of H_2O (125 ml. total). During the addn. 36.0 g. brown crystals of I sepd., m. 123°, sufficiently pure to be used in the next step. I (8.66 g.), 6.92 g. phytol, and 40 ml. abs. Et_2O was dropped at 18-20° under N and stirring into 4 g. $AlCl_3$ in 40 ml. abs. Et_2O, the mixt. stirred 3 hrs., washed with H_2O, the Et_2O layer evapd., and the oily residue taken up with 20 ml. ligroine. After sepg. unreacted II, the filtrate was extd. with 2% KOH, Claisen alkali, and 5% $Na_2S_2O_4$. After dilg. the alk. soln. with 1% $Na_2S_2O_4$, the product was extd. with Et_2O and oxidized by shaking 30 min. with 12 g. PbO_2 to give, on filtration and evapn. of Et_2O, 6.6 g. orange oil, n_D^{25} 1.5246, contg. 35 ± 2% *3-phytyl-2-methyl-1,4-naphthoquinone* (III). Treatment of 18 g. III in 150 ml. Ac_2O with 15 g. Zn dust and 10 ml. pyridine yielded 15.5 g. *diacetate of dihydrovitamin K_1*, m. 58°. Hydrogenation of 1.5 g. II in pyridine on Lindlar's catalyst followed by 48-hrs. treatment with 8 ml. $MeSO_2Cl$ at 3° gave, on addn. of 100 ml. H_2O, 1.24 g. *dimesylate of dihydrovitamin K_1*, m. 114-15° (from MeOH).

L. J. Urbánek

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WEICHET, J.

"1-(;-chlorophenyl)-2,2, 2-trichloroethanol ester of chrysanthemumic acid." p. 839.

Institute of Applied Physics , (Czechsolovak Academy of Sciences.) Vol. 50, no. 5, May 1956.

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

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WEICHET, J.; HODROVÁ, J.

Nitro derivatives of 1-phenyl- and 1-(p-chlorophenyl)-2, 2, 2,-trichloroethanol. p. 931. (Chemicke Listy, Praha. Vol. 50, no. 6, June 1956.)

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

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WEICHET, JAROSLAV

✓ New preparation of 5-methylcyclohexane-1,3-dione. Vratislav Kvita and Jaroslav Weichet (Pharm. Biochem. Research Inst., Prague). *Chem. Listy* 51, 330-1(1957).—Title compd. (I) was prepd. by procedure analogous with that of Shriner and Todd [*Org. Syntheses, Collective Vol.* II, 200 (1943)]. To soln. of EtONa prepd. from 18 g. Na and 112 ml. EtOH was dropped under stirring during 15 min. at 00° 132.5 g. Et malonate and then during 45 min. 78 g. pentenone, the mixt. heated 2 hrs. to 90°, 500 ml. 18% aq. KOH added, the dark brown soln. heated 6 hrs. on a H_2O-bath, neutralized with dil. HCl, 450 ml. aq. EtOH distd., the rest treated with C, acidified with HCl to litmus, and cooled quickly to give 93 g. I, m. 126-7° (from AcOEt). I, on boiling in 50% EtOH with aldehydes (MeCHO, MeCH:CHCHO, and 3,4,5-$(MeO)_3C_6H_2CHO$) and 3 drops of pyridine, gave $(CO.CH_2.CHMe.CH_2.CO.CH)_2CHR$ in 85-95% yield, $C_{16}H_{22}O_4$ (R = Me), m. 111°; $C_{18}H_{24}O_4$ (R = CH:CHMe) m. 178°; $C_{24}H_{30}O_7$ (R = 3,4,5-$(MeO)_3C_6H_2$), m. 181°.

L. J. Urbánek

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WEICHET, JAROSLAV

7

Esters of alkyl(1-methylbutyl)cyanoacetic acid. Jaroslav Weichet and Oldřich Chyba. Czech. 86,301, Mar. 15, 1957. Condensing MeCH:CHAc (I) with $NCCH_2CO_2R$ (II) gives MeCH:CHCMe(CN)CO_2R (III) which is hydrogenated and the product, $Me_2CHCHMeCH(CN)CO_2R$ (IV), alkylated to give the title compd. (V). The procedure can be simplified by leaving out the isolation of III to give IV in 65% over-all yield. I is obtained by condensing Me_2CO with MeCHO and dehydrating the resulting $Me_2C(OH)CH_2Ac$ (VI). Adding dropwise at 10–15° under stirring in 2 hrs. 440 g. Me_2CO and 176 g. MeCHO to 600 g. dry Me_2CO and 12 g. dry PhONa, stirring at 15–20° 1 hrs., and keeping the mixt. overnight, adding 8 g. finely ground $(CO_2H)_2$, stirring 1 hr., sepg. the pptd. $(CO_2Na)_2$, and distg. the filtrate *in vacuo* give 60–5% VI, b$_{15}$ 68–73°. VI (400 g.) distd. with 0.2–0.5 g. iodine in a short column yields I, b. 120–2°, in 36–40% yield (calcd./MeCHO). Refluxing 20 g. I, 34 g. II (R = Me), 60 ml. C_6H_6 or C_6H_5Cl, 2.8 g. $AcONH_4$, and 4 ml. AcOH until the sepn. of H_2O has ceased (4–5 hrs.), washing the mixt. with H_2O, evapg the solvents, and distg. the residue give 23 g. III (R = Me), b$_4$ 125–7°; III (R = Me) reduced in EtOH with 2–3% 10% Pd/C gives 90% IV (R = Me), b$_{15}$ 110–21°. Accordi g to the simplified procedure, 115 g. II (R = Et), 96 g. I, a d 15 g. AcONa is added to the catalyst prepd. by reducing with H 15 ml. $PdCl_2$ soln. (5% Pd) and 7.5 g. C i 200 ml. MeOH, the mixt. shaken 10–15 hrs. at room temp. /160 mm. I pressure, the MeOH evapd., the residue extd. with C_6H_6, and the ext. distd. to give 104 g. pure IV (R = Et) b$_{15}$ 118–21°. Adding 174 g. IV (R = Me) to 23.8 g. Na in 243 ml. dry MeOH, adding dropwise to the mixt. 125 g. EtBr at 50–60° in 30–40 min., boiling until the reaction is neutral (about 2 hrs.), distg. the MeOH, cooling, dilg. with H_2O to dissolve NaBr, extg. the oily layer with C_6H_6, and distg. gives 15 g. Me ester of V (alkyl = Et), b$_{15}$ 120–3°.

L. J. Urbanek

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEICHET, J.; KVITA, V.; TRACKA, V.

Studies of the vitamin K and vitamin E series. II. Synthesis of vitamin K_1 analogues with a simplified sidechain. p. 127. (Chemicke Listy. Vol. 51, no. 1, Jan. 1957.)

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

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEICHET, J.; KVITA, V.

A new preparation of 5-methylcyclohexane-1, 3-dione, p. 380. (Chemicke Listy, Vol. 51, no. 2, Feb. 1957.)

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

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

MEICHET J.; HODRAVA, J.

"Nitro derivatives of 1-phenyl-and 1-(-chlorophenyl)-2, 2, 2-trichloroentharol." In German.

P. 508. Journal on chemistry and biochemistry issued by the, (Czechoslovak Academy of Sciences.) Vol. 22, no. 2, Apr. 1957.

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

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

MEICHET, J.; HODROVA, J.

"Studies on the vitamin K and vitamin E series. III. Analogs of α-tocopherol with an unramified side chain. In German.

P. 595. Journal on chemistry and biochemistry issued by the, (Czechoslovak Academy of Sciences.) Vol. 22, no. 2, Apr. 1957.

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

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEICHET, JAROSLAV

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

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25084

Author : Kvita Vratislav, Weichet Jaroslav
Inst : -
Title : New Method for the Preparation of 5-Methyl-Cyclohexanedi-one-1,3

Orig Pub : Chem. listy, 1957, 51, No 2, 380-381; Sb. chekhosl. khim. rabot, 1957, 22, No 3, 1064-1065

Abstract : To Na-malonic ester (from 18 g Na and 132.6 g malonic ester) are added, at 90° and within 45 minutes, 78 g pentene-2-one-4, after which the mixture is heated for 6 hours on a boiling water bath with 500 ml 18% aqueous NaOH, to get 5-methyl-cyclohexanedione-1,3 (I) in the form of the monohydrate, yield 70.5%, MP 75-85°. By recrystallization of monohydrate from $CH_3COOC_2H_5$ is obtained the anhydrous I, MP 126-127°; dioxime, MP 155°.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

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

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 25084

In 60% alcohol, in the presence of several drops of piperidine, I reacts very readily with aldehydes, to form, with yields of 85-95%, the corresponding alkylidene-bis-5-methyl-cyclohexanediones-1,3, which have sharp melting points and can be used to identify aldehydes. There have been prepared the derivatives of I with CH_3CHO (MP 111°), $CH_3CH{=}CHCHO$ (MP 178°), and with 3,4,5-trimethoxy-benzaldehyde, MP 189°.

Card 2/2

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEICHET, J. : HODROVA, J. : KVITA, V.

"Studies of the vitamin K and E series. IV. New synthesis of isophytol and vitamin K_1."

p. 568 (Institute of Applied Physics - Czechoslovak Academy of Science) Vol. 51, No. 3, March 1957

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

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

Country : CZECHOSLOVAKIA G
Category : Organic Chemistry. Natural Substances and Their Synthetic Analogs
Abs. Jour : f Zhur - Khim., No 5, 1959, No. 15543

Author : lchet, J.; Blaha, L.; Kakac, B.
Institut. :
Title : dies in the Series of Vitamins K and E. VI. paration of 2,5,7,8-Tetramethyl-2-(β-Carb- thyl)-6-Oxychromane and the Product of*
Orig Pub. : Chem. listy, 1958, 52, No 4, 722-726

Abstract : One of the final products of the exchange of l-tocopherol-lactone 2-(3-oxy-3-methyl-5-carboxypentyl)-3,5,6-trimethylbenzoquinone (I), is obtained by a method analogous to the process of oxidation of tocopherols to tocopheryl quinones - by oxidation of 2,5,7,8-tetramethyl-2-(β-carboxyethyl)-6-oxychromane (II). The product is identical to the natural one according

* Its Oxidation

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Country :
Category :

Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15543

Author :
Institut. :
Title :

Orig Pub. :

Abstract cont'd. : to the ultraviolet spectrum. By hydrogenation of the lactone of γ-ethinyl-γ-oxyvaleric acid with a Lindlar catalyst in C_6H_6 in the presence of quinoline, lactone of γ-vinyl-γ-oxyvaleric acid was obtained, with yield of 90%, b.p. 89-90°/10 mm., $n^{20}D$ 1.4525. The product (5.04 g.) was heated for six hours with 9.1 g. of trimethylhydroquinone in 86 ml. of CH_3COOH with 9.5 g. of $ZnCl_2$, 1.6 ml. of BF_3 etherate and 8 ml. of $(CH_3CO)_2O$ in an N_2 atmosphere up to

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

G

Country :
Category :

Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15543

Author :
Institut. :
Title :

Orig Pub. :

Abstract cont'd. : 110-120°, whereupon 7.7 g. of 2,5,7,8-tetramethyl-2-(β-carboxyethyl)-6-acetoxychromane was obtained, with yield of 60%, m.p. 154° (from CH_3OH), pK 5.80; it can also be obtained by acetylation of II. By boiling 15 g. of the unpurified product in 200 ml. of CH_3OH with 190 ml. of 2 n. methanol solution of KOH for 25 minutes, II is obtained, with yield of 52%, m.p. 173° (from diluted CH_3OH); methyl ether were obtained directly from the acetoxy deri-

Card: 3/5

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

Country : G
Category :

Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15543

Author :
Institut. :
Title :

Orig Pub. :

Abstract cont'd. : vative by boiling (three hours) with 4 n. solution of formaldehyde sulfuric acid, with yield of 66%, m.p. 94° (from diluted CH_3OH). A solution of 8 g. of $Ce(SO_4)_2 \cdot 4H_2O$ in 100 ml. of water and 2.5 ml. of H_2SO_4 was added to 2.3 g. of II in 150 ml. of CH_3OH, and agitated for 15 minutes. After extraction with ether, evaporation and heating for 15 minutes in a vacuum in an aqueous bath, I was obtained, m.p. 64° (from ether). The product is characterized by

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Country : G
APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6
Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15543

Author :
Institut. :
Title :

Orig Pub. :

Abstract cont'd. : the reduction acetylation reaction: 0.8 g. of I in 15 ml. of $(CH_3CO)_2O$, 5 ml. of CH_3COOH and 0.4 ml. of pyridine were reduced by Zn to discoloration, the mixture was rapidly brought to a boil and poured onto ice. By shaking out, the lactone diacetate of 2-(3-oxy-3-methyl-5-carboxypentyl)-3,5,6-trimethylhydroquinone was obtained in the ether, m.p. 109-110° (from cyclohexane-benzene, 4:1). Data on the ultraviolet and infrared spectra of the preparations obtained are given.-- J. Kovar

Card: 5/5

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

Country : CZECHOSLOVAKIA G
Category : Organic Chemistry. Natural Substances and Their Synthetic Analogs
Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15542

Author : Blaha, L.; Weichet, J.
Institut. : -
Title : Studies in the Series of Vitamins K and E. V. Preparation of Methylalkylethinylcarbinols with Great Aliphatic Residue
Orig Pub. : Chem. listy, 1958, 52, No 4, 753-755

Abstract : By means of a thin suspension of KOH in dibutyl formal (I), the authors succeeded in condensing acetylene with some methylalkylketones with a long or branched chain. The carbinols obtained are not contaminated by the original ketone and contain very small quantities of glycols which appear during the reaction of C_2H_2 with two molecules of the ketone. Glycols can be transformed by a known method to the required carbinol. According to Bowman, R. E. (J. Chem.

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Country :
Category :

Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15542

Author :
Institut. :
Title :

Orig Pub. :

Abstract cont'd. : Soc., 1950, 322) or Karrer, P., et al. (Helv. Chim. Acta, 1943, 26, 1741), the following alkylmethylketones are obtained (alkyl, b.p. in °C./mm. and $n^{20}D$ are given): 4-methylhexadecyl (II), 126-127/0.3, 1.4475; 4,8,12-trimethyltridecyl (III), 108-110/0.2, 1.4452; 4-methylpentadecene-3-yl-1 (IV), 127-128/0.2, 1.4560; pentadecyl (V), 144/0.9, -, m.p. 49°; dodecyl (VI), 147-149/9, -, m.p. 32-34°; 4,8-dimethylnonyl (VII), 121-122/12, 1.4360; 4,8-

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Country :
Category :

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Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15542

Author :
Institut. :
Title :

Orig Pub. :

Abstract cont'd. : dimethylnonadiene-3,7-yl-1 (VIII), 127-130/12, 1.4667; 4-methylpenetene-3-yl-1 (IX), 73/20, 1.4413. Ketone (0.116 mole) was added in drops to the reaction mixture [obtained by melting 50 g. of KOH (10-17% water) in 175 ml. of I at 120-140°, with spontaneous chilling during vigorous mixing (or agitating) and by saturation with acetylene for 1.5-2 hours at 70-80° and for another three hours at a temperature from -8° to -10° with continuous supply of acety-

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Country :
Category :

Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15542

Author :
Institut. :
Title :

Orig Pub. :

Abstract cont'd. : lene]; the mixture was saturated for another three hours with C_2H_2 at a temperature from -5° to -3°, and then was left standing for about 12 hours at a temperature of 0°, after which it was decomposed with 100 ml. of ice water, and extracted with ether; the ether extracts were combined, neutralized by gaseous or solid CO_2, dried, and subjected to distillation. In this manner, the following alkylmethylethinylcarbinols were obtained (alkyl,

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

Country : G
Category :

Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15542

Author :
Institut. :
Title :

Orig Pub. :

Abstract cont'd. : yield in %, b.p. in °C./mm. and $n^{20}D$ are given): II, 79, 129-131/0.1, 1.4575; III, 77, 122-123/0.25, 1.4550; IV, 63, 124-127/0.1, 1.4657; V, 83, 139-141/0.5, -, m.p. 31-32°; VI, 80, 96-98/0.2, -, m.p. 20-22°; VII, 71, 126-128/6, 1.4500; VIII, 68, 105-110/1, 1.4798; IX, 83, 87-89/12, 1.4595. Report IV, see Ref Zhur-Khim, 1958, 1461.-- J. Kovar

Card: 5/5

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WEICHET, J.

1

Polymethylchroman derivatives. Jaroslav Weichet and Ludvík Bláha. Czech. 88,198, Jan. 15, 1959. Condensing polyalkylhydroquinones with vinyl hydroxy acids, their lactones, or esters gives title compds. which show significant physiol. properties and are important intermediary products in the synthesis of tocopherols, their analogs, or metabolites. Trimethylhydroquinone (6 g.), 6 g. anhyd. $ZnCl_2$, 1 ml. BF_3 etherate, 60 ml. AcOH, and 3 g. γ-vinyl-γ-valerolactone (b_{10} 90°, n_D^{20} 1.4525) gently refluxed with stirring in a N atm. 4–6 hrs., cooled, poured into 200 ml. ice water, the mixt. extd. with Et_2O, the Et_2O exts. washed with 1–2% aq. $Na_2S_2O_4$ soln., dried, evapd. *in vacuo*, the residue mixed with 100 ml. *N* KOH–MeOH, heated on a water bath 20–30 min. in a N atm., the mixt. cooled, acidified with 1:10 HCl to Congo red, 100–200 ml. H_2O added, and the crude cryst. product (3–5 g.), m. 168°–70°, recrystd. from MeOH gives 2,5,7,8-tetramethyl-2-(β-carboxyethyl)-6-hydroxychroman (I), m. 173–4°. The same procedure modified in that the evapn. residue is heated to 50–60° with 20 ml. AcOH and 10 ml. pyridine 2–4 hrs. gives 3–5 g. crude 6-acetoxy-2,5,7,8-tetramethyl-2-(β-carboxyethyl)chroman, m. 153–4° (MeOH). Me ester of I is obtained in 1.6–1.9-g. yield by heating 2.2 g. 2,5,7,8-tetramethyl-2-(β-carboxyethyl)-6-acetoxychroman (m. 152–4°) with 20 ml. 4*N* MeOH–H_2SO_4 on a boiling water bath 3 hrs., m. 94° (60% MeOH). I (2.35 g.) in 150 ml. MeOH shaken with 8 g. $Ce(SO_4)_2.4H_2O$ in 100 ml. H_2O and 2 ml. concd. H_2SO_4 gives deep yellow crystals of lactone of 2-(3-hydroxy-3-methyl-5-carboxypentyl)-3,5,6-trimethylbenzoquinone, m. 63–4°, λ 268, 260.5 mμ, ε 2.15 × 10⁴.

L. J. Urbánek

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

COUNTRY : Czechoslovakia G-3
CATEGORY :

ABS. JOUR. : RZKhim., No. 1959, No. 86753

AUTHOR : Blaha, L.; Welchet, J.
INST. :
TITLE : Studies in Vitamin-K and Vitamin-E Series. V. Preparation of Methyl-Alkyl-Ethinylcarbinols Containing a Long Aliphatic Radical.
ORIG. PUB. : Collect. Czechosl. Chem. Communs, 1959, 24, No 4, 1363-1366
ABSTRACT : See RZhKhim, 1959, No 5, 15542.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

G-3

17999

COUNTRY : Czechoslovakia
CATEGORY :
ABS. JOUR. : RZKhim., No. 5 1960, No.
AUTHOR : Weichet, J., Blaha, L., and Kakac, B.
INST. : Not given
TITLE : Investigation of the Vitamin K and E Group. VI. The Preparation of 2,5,7,8-Tetramethyl-2-(β carboxylethyl)-6-hydroxychromane and Its Oxidation*
ORIG. PUB. : Collection Czechoslov Chem Commun, 24, No 5, 1689-1694 (1959)
ABSTRACT : See RZhKhim, 1959, No 5, 15543.

* Product.

CARD: 1/1 194

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

BLAHA, L.; WEICHET, J.; ZVACEK, J.; SMOLIK, S.; KAKAC, B.

Synthetic experiments in the group of hypotensive alkaloids. VII. Preparation of (+)-deserpidine and (+)-isodeserpidine. Coll Cz Chem 25 no.1:237-244 Ja '60. (EEAI 9:12)

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.
(Alkaloids) (Hypotension) (Deserpidine)
(Isodeserpidine)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

KVITA, V.; WEICHET, J.

Studies in vitamin K and vitamin [series. IX. Total synthesis of dihydrophytol. Coll Cz Chem 25 no.1:254-258 Ja '60. (EEAI 9:12)

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.
(VITAMIN K)
(VITAMIN E)
(DIHYDROPHYTOL)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

SMOLIK, S.; KVITA, V.; WEICHET, J.; TRCKA, V.

Studies in vitamin K and vitamin E series. X. Synthesis of vitamin K_1 analogue with unbranched side chain. Coll Cz Chem 25 no.1:259-264 Ja '60. (EEAI 9:12)

1. Forschungsinstitut fur Parmazie und Biochemie Prag.
(VITAMIN K) (VITAMIN E) (VITAMIN K_1)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEICHET, J.; BLAHA, L.; KVITA, V.

Studies in the vitamin K and vitamin E series. XII. Synthesis of 2-methyl-3-difarnesol-1,4-naphthoquinone and related compounds. Coll Cz Chem 25 no.7:1914-1921 Jl '60. (EEAI 10:9)

1. Forschungsinstitut für Pharmazie und Biochemie, Prag.

(Vitamin K) (Vitamin E) (Methyl group)
(Farnesol) (Naphthoquinone)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

PELZ, K.; BLAHA, L.; WEICHET, J.

Synthetic tests in the group of hypotensive active alkaloids. Part 16: Analogues of reserpines and isoreserpines separated from mescaline. Coll Cz Chem 26 no.4:1160-1173 Ap '61.

1. Forschungsinstitut für Pharmazie und Biochemie, Prag.

(Alkaloids) (Reserpine) (Mescaline)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEICHET, J.; PELZ, K.; BLAHA, L.

Synthetic experiments in the group of hypotensive active alkaloids. XVII. Simplified methods for synthesis of (±)-deserpidine and related substances. Coll Cz chem 26 no.6:1529-1536 Je '61.

1. Forschungsinstitut für Pharmazie und Biochemie, Prag.

(Alkaloids) (Deserpidine)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEICHET, J.; HODROVA, J.; BLAHA, L.

Reductive amination of phenylacetyl carbinoles by means of sodium borohydride. Coll Cz Chem 26 no.8:2040-2044 '61.

1. Forschungsinstitut für Pharmazie und Biochemie, Prag.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEICHET, J.

(36)

Prague, Collection of Czechoslovak Chemical Communications, Vol 27, No 4, April 1962 (continued)

9. "Separation Methods for Natural Products. Part II. Enriched Diamond Separation and Double Withdrawal," A. CIKAN, J. PITHA and V. PROCHAZKA, Research Institute of Natural Drugs, Prague; pp 832-842 (English article).

10. "Synthesization Experiments in the Group of Hypotensive Alkaloids. Part XXXII. The Obtaining of the Alicyclic Component for the Synthesis of the Racemic 19-Methyl Analogue of Deserpidin," J. WEICHET, B. KAKAC and L. BLAHA, Research Institute of Pharmacy and Biochemistry, Prague; pp 843-855.

11. "Synthesization Experiments in the Group of Hypotensive Alkaloids. Part XXXIII. On the Synthesis of the Racemic 19-Methyl Analogue of Deserpidin," L. BLAHA, B. KAKAC and J. WEICHET of the Research Institute of Pharmacy and Biochemistry, Prague; pp 857-871.

12. "Cardiac Glycosides of Asclepias syriaca L. Part I. Isolation of the Cardiotonic Glycosides," L. MASLER, S. BAUER, O. BAUEROVA and D. SIKL of the Chemical Institute at the Slovak Academy of Sciences, Bratislava; pp 872-881.

13. "On Proteins. Part LXVIII. Structure of Peptides Obtained by Peptic Hydrolysis of Chymotrypsinogen," V. KOSTKA, B. MELOUN, J. VANECEK and F. SORM of the Institute of Organic Chemistry and Biochemistry, Prague; pp 882-894 (English article).

14. "Cardiac Glycosides of Asclepias syriaca L. Part II. The Structure of Syriogenin and of Its Glycosides," L. MASLER, S. BAUER, O. BAUEROVA and D. SIKL of the Department of the Biochemistry of Saccharides, Chemical Institute of the Slovak Academy of Sciences, Bratislava; pp 895-901.

15. "Nucleic Acid Components and Their Analogues. Part XVIII. Synthesis of Anomeric 9-(2-Deoxy-1-d-Glucosyl)Adenines and of Their Anhydroderivatives," J. J. K. NOVAK and F. SORM of the Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 902-905 (English article)

16. "A Note on the Investigation of the Antimicrobial Activity of 9-(Deoxy-1-d-Glucosyl)Adenine," J. SKODA, J. BARTOSEK and F. SORM, Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 906-907 (English article).

17. "Study of the Decomposition of Sodium Ferrate Solutions," J. TOUSEK of the Slovak Institute of Technology, Bratislava; pp 908-913

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEICHET,J.; HODROVA,J.; HLAHA,L.

Studies of the vitamin K and the vitamin E series. Pt.13. Coll Cz Chem 29 no.1:197-205 Ja'64

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

CZECHOSLOVAKIA

WEICHET, J; HODROVA, J; BLAHA, L

Research Institute for Pharmacy and Biochemistry, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 3, March 1966, pp 1323-1332

"On the preparation of α-alkylalanines."

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

CZECHOSLOVAKIA

WEICHET, J; BLAHA, L; KAKAC, B

Research Institute of Chemistry and Biochemistry, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 12, December 1966, pp 4598-4609

"Studies on Vitamin K and Vitamin E series. Part 18: Synthesis of new Vitamin E analogues and their derivatives."

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

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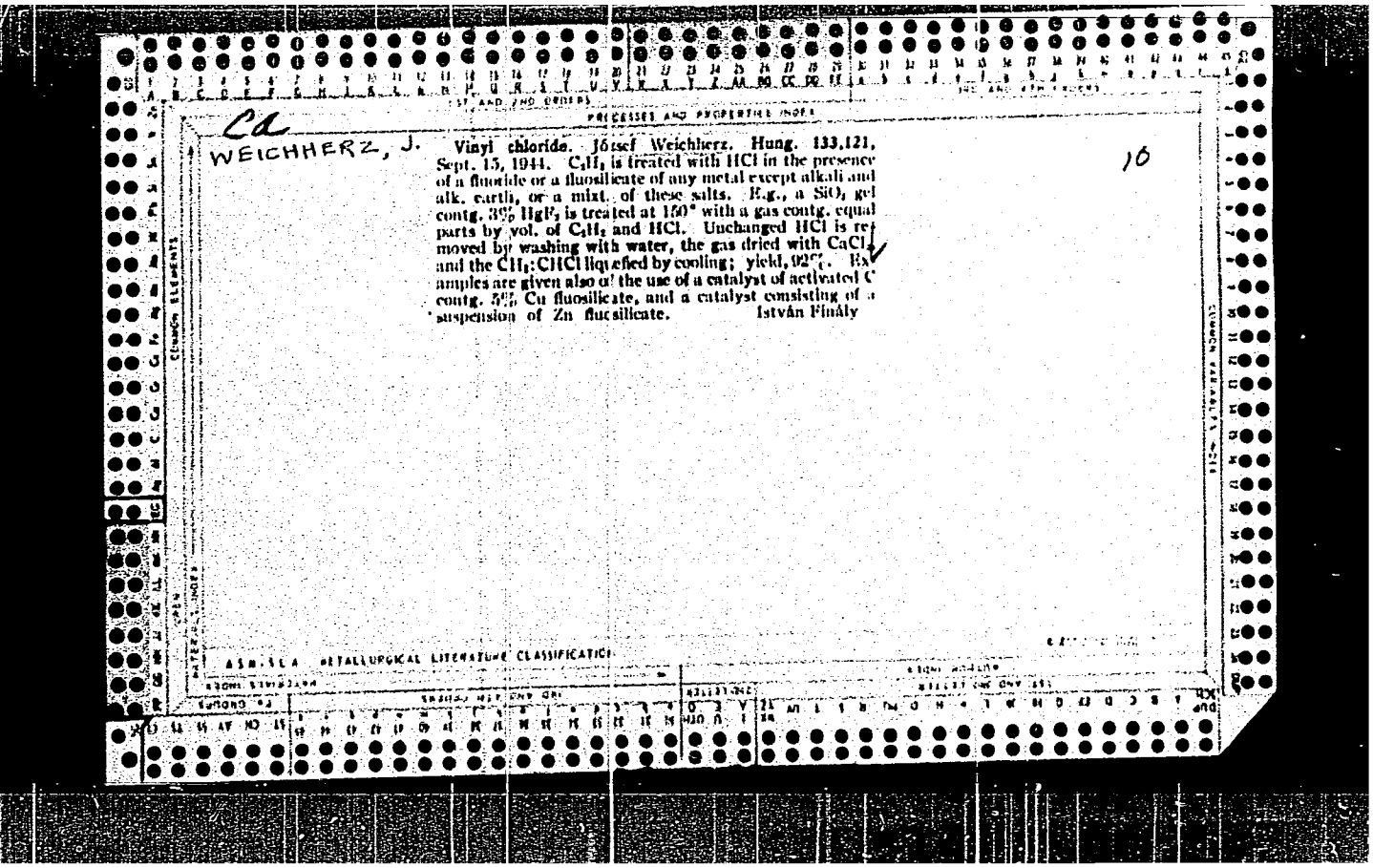

Ca

WEICHHERZ, J.

Vinyl chloride. József Weichherz. Hung. 133,121, Sept. 15, 1944. C_2H_2 is treated with HCl in the presence of a fluoride or a fluosilicate of any metal except alkali and alk. earth, or a mixt. of these salts. E.g., a SiO_2 gel contg. 3% HgF_2 is treated at 150° with a gas contg. equal parts by vol. of C_2H_2 and HCl. Unchanged HCl is removed by washing with water, the gas dried with $CaCl_2$ and the CH_2:CHCl liquefied by cooling; yield, 92%. Examples are given also of the use of a catalyst of activated C contg. 5% Cu fluosilicate, and a catalyst consisting of a suspension of Zn fluosilicate. István Finály

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CA WEICHHERZ, J.

3/

Artificial leather. Józef Weichherz. Hung. 139,612, July 15, 1949. Leather wastes are disintegrated, mixed in acid or alkali with electrolytes, e.g., thiocyanates, and swelled, then mixed with polyvinyl alc. The product is fixed to leather fibers by adapted tanning agents, pressed to sheets, tanned once more with tannin or other vegetable tanning agents and(or) aldehydes. (1) Dry leather wastes (80 parts by wt.), previously treated to remove Cr salts, are disintegrated to a pulp with 600 parts of water and mixed with the soln. of 10 parts of polyvinyl alc. in 100 parts of water and further disintegrated between rollers. The soln. of 3 parts tannin or other vegetable tanning agent in 30 parts water is added in small portions with continuous stirring, then the pulp is formed into sheets on a filter or by centrifuging, pressed, and tanned once more. (2) Chromium leather waste (40 parts), previously treated to remove Cr salts, is mixed up with 35 parts muscle waste from treatment of raw skins, 5 parts old leather, previously treated to remove tannin, are disintegrated to a pulp with 720 parts of water, HCl is added until the pH value is 3.0, the soln. of 15 parts polyvinyl alc. in 100 parts water is added, and the mixt. is further disintegrated to a homogeneous pulp. Now the 15 wt. parts 40% HCHO is added in small portions under continuous stirring and further treated as under (1). (3) Muscle wastes (40 parts) obtained at the cutting of raw skins, 20 parts of leather wastes freed from Cr salts, and 20 parts leather wastes freed from tannin are disintegrated to a pulp with 600 parts of water. The soln. of 20 parts polyvinyl alc. in 80 parts water is added and the mixt. is further rolled to a homogeneous pulp and further treated as under (1).

I. F.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WISNER, F.; IENISTEA, C., dr.; ASCHER SOLOMON, E., dr.; WEIDENFEL, R., dr.

Proteolytic action of some acidolactic bacteria. Rev. igiena microb. epidem., Bucur. Vol.3:39-47 July-Sept 55.

1. Sectia de igiena alimentatiei a Institutului de igiena R. P. R. Bucuresti.

(STREPTOCOCCUS
lactis, proteolytic action in culture in milk, alone & with various strains of lactobacilli.

(PROTEINS, metabolism
proteolytic activity of Streptoc. lactis in culture in milk, alone & with various strains of lactobacilli.

(LACTOBACILLUS
proteolytic activity of various strains in culture in milk, with Streptoc. lacti.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIDENFELD, W.

and others. On the margin of the article "Problem of Correct Terminology in the Knit Goods Industry." p. 168.
INDUSTRIA TEXTILA, Bucuresti, Vol. 6, no. 5, May 1955.

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

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIDENFELD, W.

Superelastic threads, new possibilities to increase the better-quality assortment. p. 389. INDUSTRIA TEXTILA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Rominia si Ministerului Industriei Usoare) Bucuresti. Vol. 6, no. 11, Nov. 1955.

Sol East European Accessions List Vol. 5, No. 9 September, 1956

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIDENFELD, W.; DODU, A.

WEIDENFELD, W.; DODU, A. Some aspects of technical progress in the tricot industry in our country. P. 467.

Vol. 7, No. 10, October 1956
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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIDENFELD, W.

WEIDENFELD, W. Contributions to the study of the quality of knitted fabrics designated for the rubber industry. p. 32

Vol. 8, No. 8, Aug. 1956
STANDARDIZAREA
TECHNOLOGY
Bucuresti, Rumania

So: East European Accession, Vol. 6, No. 2, Feb. 1957

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

ACC NR: AP7006086 (A) SOURCE CODE: CZ/0078/66/000/011/0026/0026

INVENTOR: Weidenhoffer, Evzen (Engineer; Prague); Vambera, Frantisek (Engineer; Prague); Pavlica, Lubomir (Engineer; Prague), Samec, Narcis (Engineer; Prague)

ORG: none

TITLE: [Jet aircraft starter electric contact] CZ Pat. No..PV 3691-64

SOURCE: Vynalezy, no. 11, 1966, 26

TOPIC TAGS: switching circuit, electric contact, jet aircraft, aircraft starter, ENGINE STARTER SYSTEM

ABSTRACT: Authors describe a starter electric contact for automatic starting of jet aircraft, particularly military craft, which is powered by alternating current but supplies direct current to both the starter and the on-board electric network. It actually comprises two rectifier branches (main and auxiliary) each being equipped with a transformer and a semiconductor rectifier, also with remote controlled contacts and relays so arranged that the primary coil of the main transformer when at rest position is disconnected from the power circuit by switching contacts, and the converter primary coil is connected to the main rectifier output through another contact and rest contacts. The primary coil of the auxiliary three-phase transformer at rest position is disconnected from the supply circuit by another contact and the first relay kicked down to the output of the auxiliary rectifier is connected into the switching control circuit, in which there is a switch controlled by the air-

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ACC NR: AP7006086

craft programming center.

SUB CODE: 09, 01/ SUBM DATE: 26Jun64

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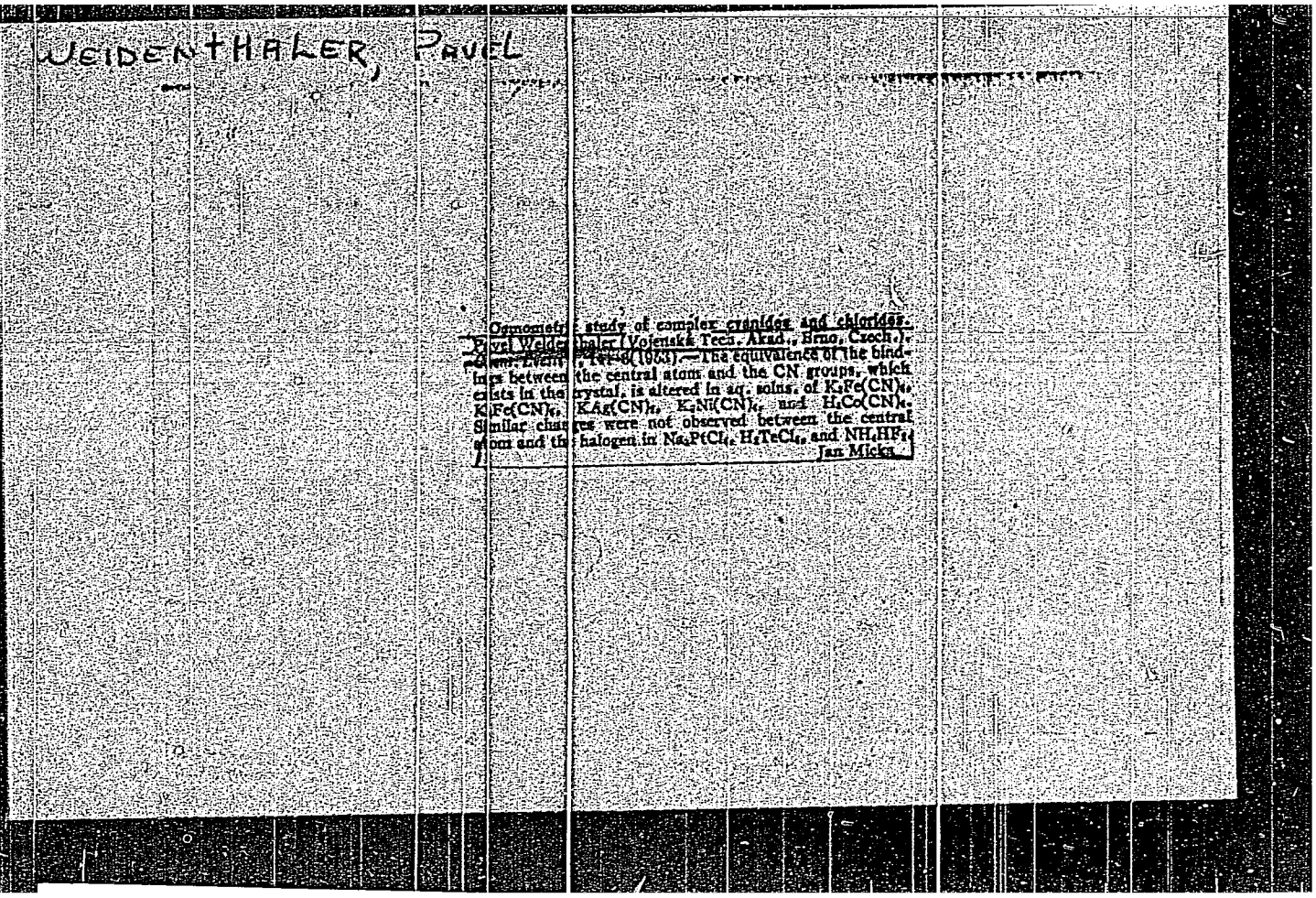

WEIDENTHALER, PAVEL

Osmometric study of complex cyanides and chlorides. Pavel Weidenthaler (Vojenské Tech. Akad., Brno, Czech.). Chem. Listy 57, 1161-8(1963).—The equivalence of the bindings between the central atom and the CN groups, which exists in the crystal, is altered in aq. solns. of $K_3Fe(CN)_6$, $KFe(CN)_6$, $KAg(CN)_2$, $K_2Ni(CN)_4$, and $H_3Co(CN)_6$. Similar changes were not observed between the central atom and the halogen in Na_2PtCl_6, H_2TeCl_6, and NH_4HF_2. Jan Micka

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WEIDENTHALER, P.

CZECHOSLOVAKIA/Physical Chemistry - Kinetics. Combustion. Explosions. Topochemistry. Catalysis. B-9

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24216

Author : Benes, J., Weidenthaler, P.
Inst : -
Title : Mechanism of Reaction of Dichlorodiethyl Sulfide with Sodium Thiosulfate.

Orig Pub : Chem. zvesti, 1957, 11, No 6, 324-329

Abstract : Study of the effects of dielectric constant and ionic force on velocity of the reaction of dichlorodiethyl sulfide (I) with $Na_2S_2O_3$. Change in the velocity of this reaction on change of dielectric constant and ionic force, shows that the stage which determines the velocity of the process is the dissociation of I.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

CZECHOSLOVAKIA / Physical Chemistry. Crystals. B-5

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 76426.

Author : Stehlik, B. and Weidenthaler, P.
Inst : Not given.
Title : Synthesis of the Compound $(NH_4)_2SrCl_4$ from Powder Starting Materials and Its Crystal Structure.

Orig Pub: Chem Zvesti, 12, No 4, 197-200 (1958) (in Czech with summaries in German and Russian).

Abstract: The salt $(NH_4)_2SrCl_4$ was detected by x-ray analysis in mixtures of powdered ammonium chloride and $SrCl_2$ on heating to 200°. The cubic lattice constant was found to be 7.15A; space group I 43. The position of atoms was established by geometric analysis as follows: Sr at 2 (a), Cl at 8 (c), and NH_4 statistically at 6 (b).

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CZECHOSLOVAKIA/Solid State Physics - Structural Crystallography E-4

Abs Jour : Ref Zhur - Fizika, No 12, 1958, No 27460

Author : Stehlik Blahoslav, Weidenthaler Pavel
Inst : Not Given
Title : Crystalline Structure of Silver Oxide.

Orig Pub : Chem. listy, 1958, 52, No 3, 402-404

Abstract : AgO has a structure of the type ZnS with a lattice parameter 4.816 ± 0.003 A.

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WEIDENThaler, Pavel

Distr: 4E2c

The crystal structure of silver peroxide. Blahoslav Stehlík and Pavel Weidenthaler (Vysoká tech. škola, A. Zápotockého, Brno, Czech.). *Chem. listy* 52, 402–4(1958). —Silver peroxide has the zinc blende structure with a lattice const. 4.816 ± 0.003 A. It is contaminated by other Ag oxides. E. Erdős

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WEIDENTHALER, P

2

Crystal structure of silver(III) oxide. Blahoslav Stehlík, Pavel Weidenthaler and Jindřich Vlach (Vojenská tech. akad. A. Zápotockého, Brno, Czech.). *Chem. listy* 52, 2230–6(1958).—The peroxynitrate, peroxysulfate, and peroxyfluoride of Ag are essentially Ag_2O_3 contg. such impurities as AgO, Ag suboxide, and perhaps the Ag salt. For Ag_2O_3 which forms a cubic lattice a structure is suggested with a symmetry O_h^3–$Pn3m$ where the Ag atoms have the 4*b* position and the O atoms the 6*d* position. The value of the lattice const. lies between the limits 4.904 ± 0.004 and 4.903 ± 0.002 A.; the scatter of the values is related to the lattice defects of the oxygen.

E. Erdős

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIDENTHALER, P; STEHLIK, B.

"Crystal structure of silver peroxide." In German. p. 1416.

COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS, Praha, Czech.,
Vol. 24, No. 5, May 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 6, Sept. 59
Unclassified

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

CZECHOSLOVAKIA/Solid State Physics - Structural Crystallography. E

Abs Jour : Ref Zhur Fizika, No 4, 1960, 8671

Author : Stehlik, B., Weidenthaler, P.

Inst : -

Title : Crystal Structure of the Oxide of Divalent Silver

Orig Pub : Collect. czechosl. chem. Communs, 1959, 24, No 5, 1416-1419

Abstract : Translated from Chem. listy, 1958, 52, 402.

Card 1/1

- 62 -

Orig Pub : Collect. czechosl. chem. Communs, 1959, 24, No 5, 1581-1588

Abstract : Translated form Chem. listy 1958, 52, 2230.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIDENTHALER, P.

Determination of the type of interaction between oxygen and silver (I)-oxide. Cllll Cz chem 26 no.1:13-20 Ja '61. (KEAI 10:9)

1. Militarische Akademie "A. Zapotocky", Brno.

(Oxygen) (Silver oxides)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIDENTHALER, P

(1)

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation: A Zapotocky Military Academy (Militaerakademie "A Zapotocky") Brno

Source: Prague, Collection of Czechoslovak Chemical Communications, Vol 26, No 10, October 1961, pp 2587-2595

Data: "The Chemisorption of Gases on Silver Oxide."

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIDENTHAIER, P.

Effect of compression on the thermal stability of silver(I)-oxides. Coll Cz Chem 28 no.1:137-147 Ja '63.

1. Militarakademie A. Zapotocky, Brno.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIDENTHALER, P.

Conductometric studies on phase conversions of potassium nitrate.
Coll Cz Chem 30 no.3:629-633 Mr '65.

1. Militarakademie A.Zapotocky, Brno. Submitted February 1, 1964.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIDENTHALER, P.

Prof. [RNDr.] Blahoslav Stehlik at 60. Chem listy 59 no.3:360 Mr '65.

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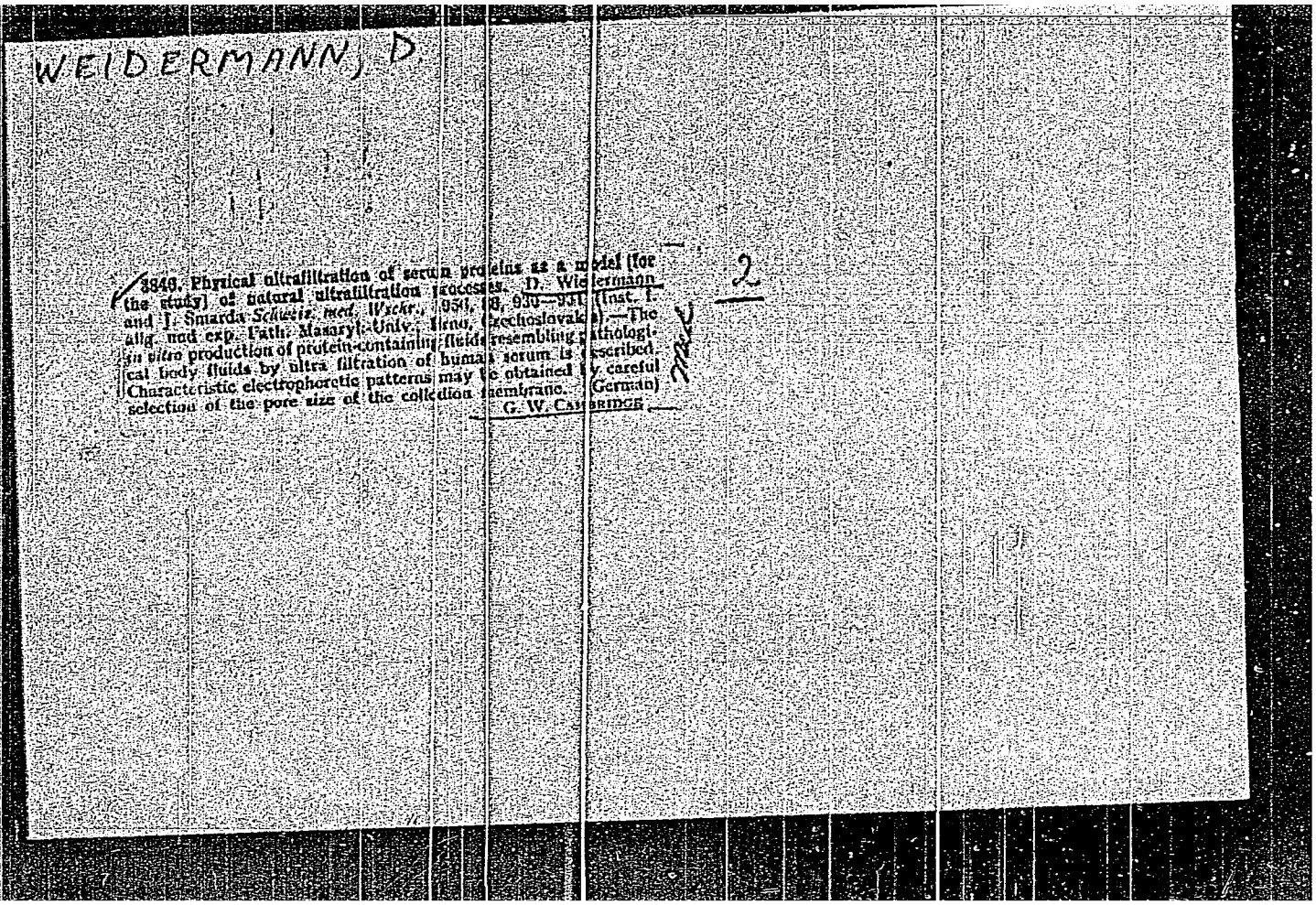

WEIDERMANN, D.

3949. Physical ultrafiltration of serum proteins as a model [for the study] of natural ultrafiltration processes. D. Weidermann and J. Smarda. *Schweiz. med. Wschr.*, 1951, 81, 930—931. (Inst. f. allg. und exp. Path. Masaryk-Univ., Brno, Czechoslovakia).—The *in vitro* production of protein-containing fluids resembling pathological body fluids by ultra filtration of human serum is described. Characteristic electrophoretic patterns may be obtained by careful selection of the pore size of the collodion membrane. (German)

G. W. CAMBRIDGE

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIDNER, H.

Diffusion of Isoptera in southeast Europe. p. 157

FRAGMENTA BALCANICA vol. 1, no. 18, Nov. 1955

Yugoslavia

so. EAST EUROPEAN ACCESSIONS LIST vol. 5, no. 10 Oct. 1956

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGEL, H. dr.

On the psychology of the physician in assessment of work capacity and the patient. Cesk. zdrav. 12 no.1:37-40 Ja'64.

1. Poliklinika v Lipsku, NDR.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

SPAUSZUS, S.; WEIGEL, H.J.; LANZ, G.

Some examples concerning the solution of analytical problems by means of radioisotopes. Koh lap 95 no.11:506-508 N '62.

1. Nemet Anyag- es Aruvizsgalo Hivatal Magdeburgi Intezete Femkemiai Osztalya.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WRIGELT, Gunther (Lipcse)

The effect of various opening methods on the physical properties of furs. Bor cipc 13 no.3:94-97 My '63.

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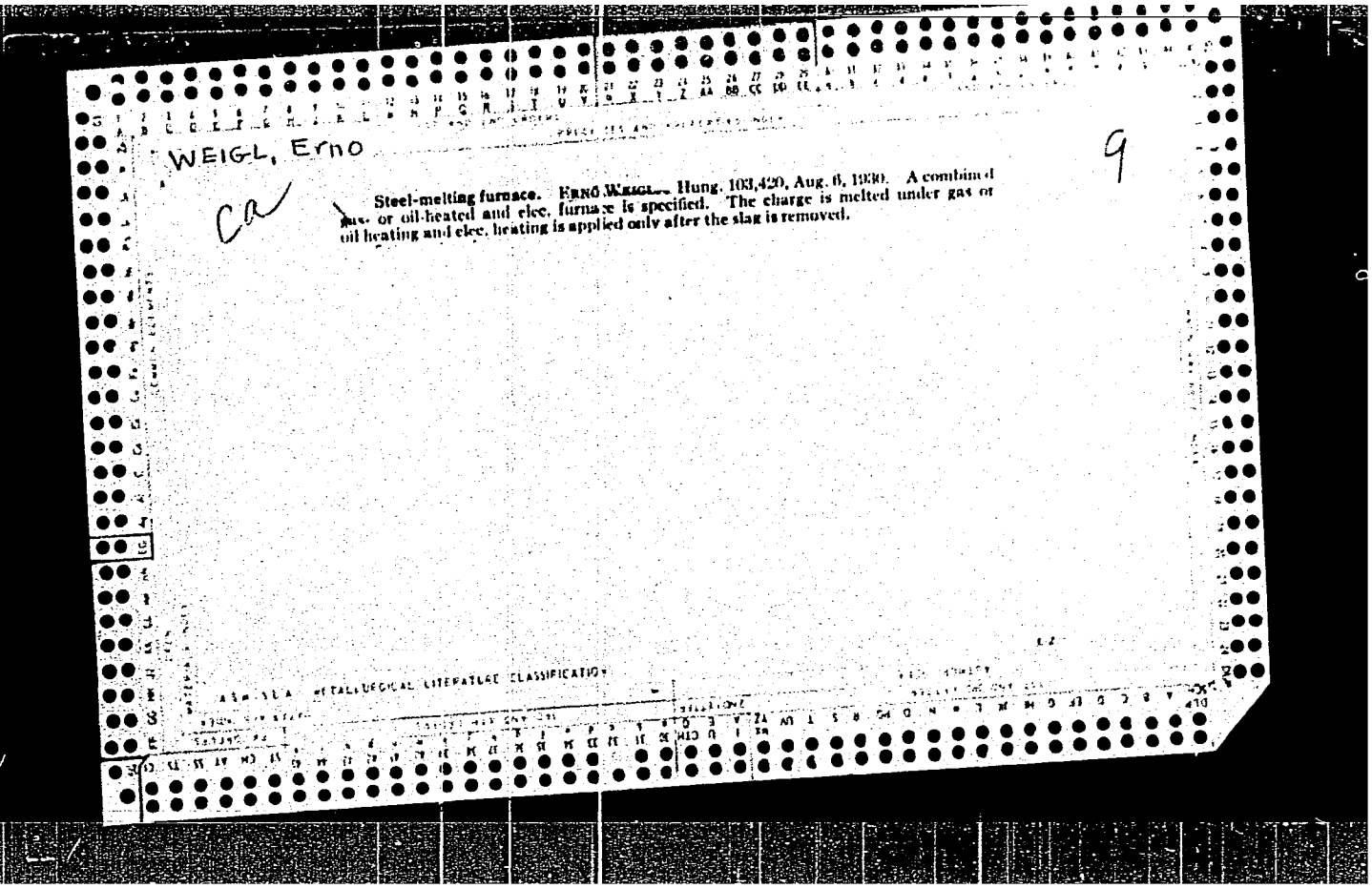

WEIGL, Erno

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9

Steel-melting furnace. Erno Weigl Hung. 103,420, Aug. 6, 1930. A combined gas- or oil-heated and elec. furnace is specified. The charge is melted under gas or oil heating and elec. heating is applied only after the slag is removed.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, Erno, okleveles vaskohomernok

Die steels. Pt. 1. Koh lap 9 no. 3: 122-129 Mr '54.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, Erno, okleveles vaskohomernok

Die steels. Pt. 2. Koh lap 9 no. 4: 154-161 Ap '54.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, Erno

Steel production without shrinkage cavities and enrichment.
Koh lap 9 no. 5: 207-216 My '54.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, E.

5453* Some Problems of Modern Steel Production. A korszerű acéltermelés technológiájának néhány kérdéséről. (Hungarian.) Ernő Weigl. *Kohászati Lapok*, v. 9, no. 8, Aug. 1954, p. 3[illegible]

Importance and effect of Mn; rate of C reduction; desulfurization; production of refractory brick. Graphs.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, Erno

Remark about the article entitled "Fusion rolling."
Koh lap 9 no. 10: 456-457 O '54.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, Erno

Economical use of chromium containing steel scraps by oxygen blast. Koh lap 9 no. 11: 490-495 N '54.

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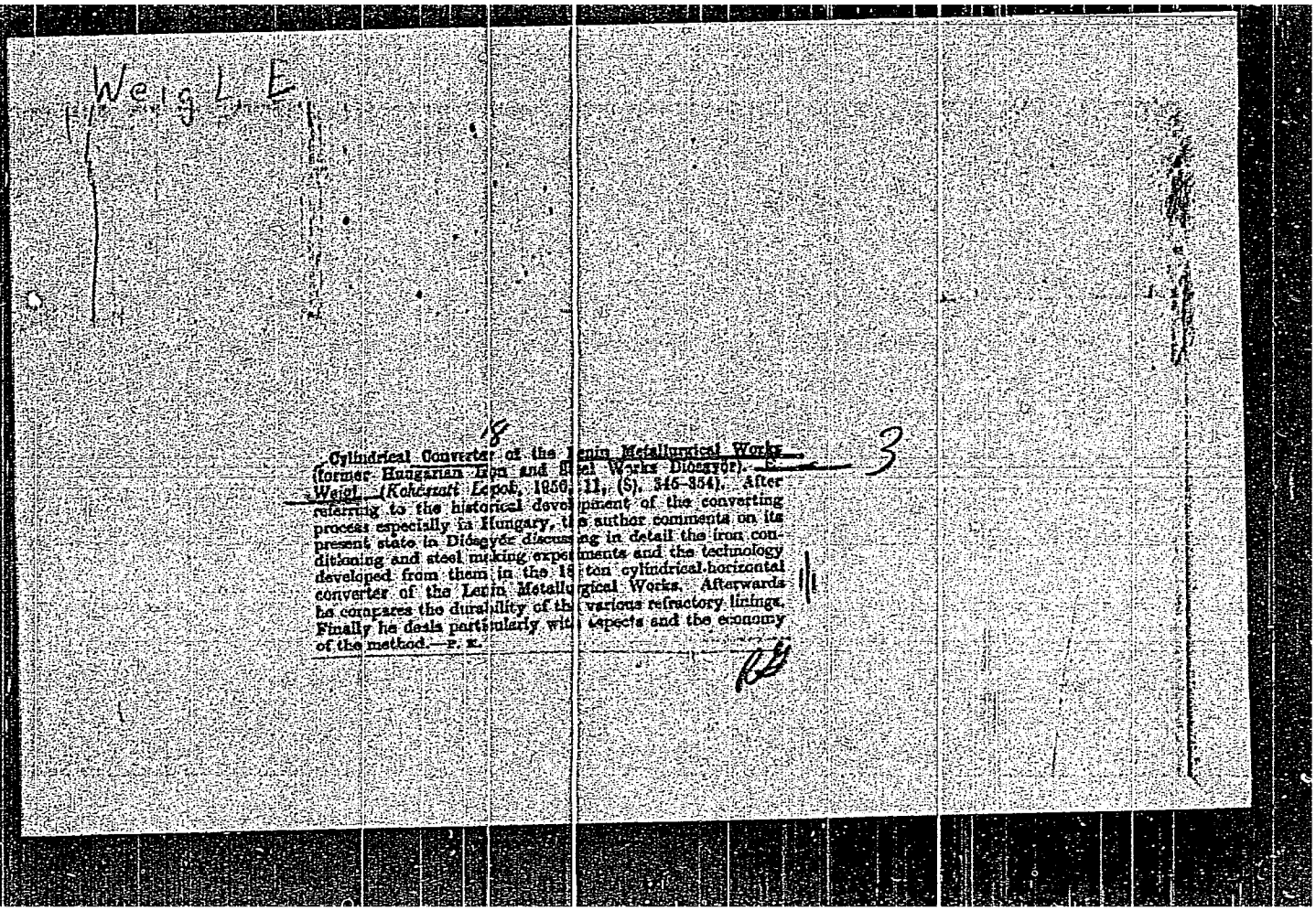

Weigl E

18

Cylindrical Converter of the Lenin Metallurgical Works (former Hungarian Iron and Steel Works Diósgyör). E. Weigl. (Kohászati Lapok, 1956, 11, (5), 346–354). After referring to the historical development of the converting process especially in Hungary, the author comments on its present state in Diósgyör discussing in detail the iron conditioning and steel making experiments and the technology developed from them in the 16 ton cylindrical-horizontal converter of the Lenin Metallurgical Works. Afterwards he compares the durability of the various refractory linings. Finally he deals particularly with economy aspects and the economy of the method.—P. K.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGI, E.

A cylindrical converter of the Lenin Metallurgic Works. p. 345 (Kohaszati Lapok. Budapest Vol. 11, no. 8, Aug. 1956 Kohaszati Lapok. Vol. 11, no. 8)

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

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGAND, M.

"Programs for planning feed factories," Tehnicki Pregled, Zagreb, Vol 6, No 2, 1954, p. 57.

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

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGI, E.

Manufacturing stainless acidproof steels.

p. 275. (KOHASZATI LAPOK) Vol. 12, no. 7, July 1957.
Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, B.

Engineering accounts in the Tiba National Corporation.

P. 318. (TEXTIL) (Praha, Czechoslovakia) Vol. 12, no. 9, Sept. 1957

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

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6"

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, E.

TECHNOLOGY

PERIODICAL: GEP. Vol. 10, no. 4, Apr. 1958

Weigl, E. Alloy scraps insteel production. p. 150.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2, February 1959, Unclass.

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WEIGL, E.

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Distr: 4E2c
Alloyed scrap metals in steel foundries. Erno Weigl. *Kohászati Lapok* 91, 24–7(1958).—A system was developed for the segregation, identification, storage, and proper utilization of scrap contg. alloys of various compns. L. G. A.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, E.

Report on the Pan-Russian Steel Conference held in Sverdlovsk. p.498

KOHASZATI LAPOK. (Magyar Banyaszati es Kohaszati Egyesult)
Budapest, Hungary
Vol. 13, no.10/11, Oct./Nov. 1958

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

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, E.

Prefabricated dolomite block, a new lining material for steel-smelting furnaces. (To be contd.) p. 148.

KOHASZATI LAPOK. (Magyar Banyaszati es Kohaszati Egyesulet) Budapest, Hungary
Vol. 14, no. 4, Apr. 1959.

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

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, E.

Prefabricated dolomite block, a new lining material for steel-smelting furnaces; also, remarks by J. Sovegjarto., Pt. 2 p. 205.

KOHASZATI LAPOK. (Magyar Banyaszati es Kohaszati Egyesulet) Budapest, Hungary
Vol. 14, no. 5, May 1959.

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

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

COUNTRY : Hungary H-13
CATEGORY :

ABS. JOUR. : RZKhim., No. 1959, No. 87270

AUTHOR : Weigl, E.
INST. :
TITLE : Sectional Dolomite Block -- A New Lining Material for Steel-Making Furnaces

ORIG. PUB. : Kohasz. lapok, 1959, 14, No 5, 205-210

ABSTRACT : No abstract.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

Weigl, Erno I.

Distr: 4E2c

The use of Hungarian dolomite bricks for the lining of steel furnaces. I. Erno Weigl. *Kohászati Lapok* 92, 148-53 (1959).—Hungarian dolomites were evaluated for suitability for the manuf. of fireproof sintered bricks for the lining of steel furnaces. Various methods of prepn. of the mineral and manuf. of bricks were studied to obtain sintered dolomite of MgO min. 35, CaO 35-46, SiO_2 max. 2.00, R_2O_3 max. 3.00%, and vol. wt. 2.75-2.80 kg./cu. dm. Water-free tar-oil (pitch 60-70, anthracene oil 30-40, C 5-10%, softening point 67°, vol. wt. 1.21 kg./cu. dm.) was used as binder. L. G. Arvai

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, Ernö, okleveles vaskohomernok

Some information on the remark Janos Sovegjarto made about my article entitled "Pre-fabricated dolomite block as the new lining material of steelmaking furnaces." Koh lap 93 no.2:77-78 F '60.

1. Diosgyor Vasgyar.

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40591

S/137/62/000/008/046/065
A006/A101

18.1120

AUTHOR: Weigl, Ernő

TITLE: High-speed steel

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 8, 1962, 82, abstract 8I518 P (Gyorsacél, Hungarian Patent no. 148565, October 31, 1961)

TEXT: Steel of the following composition is presented: (in %) C 1.2 - 2.0, (optimum C content 1.3 - 1.6), W 1.0 - 4.0 (1.5 - 2.5); Mo 2.0 - 5.0 (2.5 - 3.5), V 4.5 - 6.5 (4.8 - 5.2), Cr 2.0 - 5.0 (4.0 - 4.5); Co 1 - 12 (2.5 - 5.0) may be added. The proposed steel assures an efficiency analogous to that of steel with 18% W, 4% Cr, 1% V, 1% Mo, but has higher strength and wear resistance. Pressure working of the steel is performed at 900 - 1,100°C with subsequent slow cooling. The blank produced is subjected to softening annealing for 3 - 4 hours at 830°C with slow cooling. The tool manufactured is slowly heated to 800°C and transferred into a furnace with shielding atmosphere at 1,280°C. Quenching from this temperature is performed in oil or with air blast; triple tempering is then carried out at 580°C for 3 hours with cooling in oil. R_C of the instrument is 62 - 64.

V. Zhuravska

[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, Erno, okleveles kohomernck

Continuous casting and rolling. Koh lap 96 no.12:560-565 D '63.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961510020-6

WEIGL, Erno

Continuous founding and rolling. Kusz elet 19 no. 5:15
27 F '64.

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ACC NR: AP6026087 SOURCE CODE: HU/0014/66/000/003/0120/0124

AUTHOR: Weigl, Erno (Graduate ferrous-metallurgical engineer)

ORG: none

TITLE: Application of the lining to metallurgical furnaces by gunning

SOURCE: Kohaszati lapok, no. 3, 1966, 120-124

TOPIC TAGS: metallurgic furnace, mechanical engineering, industrial management

ABSTRACT: The gunning (torquetting) of the lining to metallurgical furnaces was discussed on the basis of experiences reported abroad. It was shown that significant economies may be realized by introducing this technique in Hungary. Some foreign equipment employed in the gunning process was discussed and the application of such equipment to various industrial furnaces was described. The advantages of the gunning technique were discussed. Orig. art. has: 4 figures and 2 tables. [JPRS: 36,646]

SUB CODE: 13, 05 / SUBM DATE: none

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UDC: 669.162.2:609.183.21:069.012

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Experimental method of the mechanical suppression of specific speech movements in persons with normal and defective speech. Vop. psikhol. 8 no.4:138-142 Jl-Ag '62. (MIRA 16:1)
(Psychological research) (Speech)

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WEIGL, Karel

Cooperation of children's department in outpatient services. Cesk. pediat. 13 no.9:843-846 5 Oct 58.

1. Detske oddeleni OUNZ v Teplicich, prednosta MUDr. K. Weigl.

(OUTPATIENT SERVICES
cooperation in child. department (Cz))

(CHILD
cooperation of child. department in outpatient serv. (Cz))

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H. SARFY, Erzsebet, dr.; KEREPESI, Maria, vegyesz; technikai asszisztens: WEIGL, Maria

A simple colorimetric method for the determination of serum glutamic-oxalic transaminase. Orv. hetil. 102 no.38:1800-1801 17 S '61.

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(TRANSAMINASES blood)

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WEIGL, R.; RATNER, L.; ZWIERZ, J.

Rodents as vectors of typhus in endemic foci. Med. dosw. mikrob., Warsz. 4 no. 3:387-388 1952. (CLML 23:3)

1. Summary of work progress presented at 11th Congress of Polish Microbiologists held in Krakow May 1951.

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1. Z Kliniki Dermatologicznej Slaskiej A.M. w Zabrzu. Dyrektor: prof. dr T. Chorazak.

(RINGWORM
foot, occup.dis. in miners)
(FOOT, diseases
ringworm, occup.dis. in miners)
(MINING
ringworm of feet as occup.dis. in miners)

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Certain case of high flow capacity of a turbine blade cascade.
Inst masz przep PAN no.13:3-17 '63.

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Some results of research on nozzle cascades with short blades of T-2 profile. Inst masz przep PAN no. 2:45-75. '61

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KRZYZANOWSKI, Jerzy (Gdansk); WEIGLE, Boguslaw (Gdansk)

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