

AMBROSOVICH, V. A.: CHEPURIN, V. N. (Eng.)

" State of Production of Telemechanical Apparatus,"

paper read at the Session of the Acad. Sci. USSR, on Scientific Problems of Automatic Production, 15-20 October 1956.

Avtomatika i telemekhanika, No. 2, p. 182-192, 1957.

9015229

AMBROSOVICH, V. D.

"New Developments of the 'Elektropul't' [Electrical Panel] Factory in the Field of Telemetry" (Novyye razrabotki zavoda 'Elektropul't' v oblasti telo-izmereniy) from the book Telemechanization in the National Economy, pp. 249-263, Iz. AN SSSR, Moscow, 1956

(Given at meeting held in Moscow 29 Nov to 4 Dec 54 by Inst. of Automatics and Telemechanics)

SOV/112-58-2-2736

Translation from: Referativnyy zhurnal, Elektrotehnika, 1958, Nr 2, p 149 (USSR)

AUTHOR: Ambrosovich, V. D.

TITLE: The Present Status and Immediate Problems of the Development and Production of Telemechanical Means for Power Systems  
(Sovremennoye sostoyaniye i blizhayshiye zadachi v oblasti razrabotki i proizvodstva sredstv telemekhaniki dlya energetiki)

PERIODICAL: Sessiya AN SSSR po nauchn. probl. avtomatiz. proiz-va, 1956, T. 4, M., AS USSR, 1957, pp 117-124

ABSTRACT: The history of the development of telemechanical-equipment production at the "Elektropul't" Plant is set forth. New systems and equipment for remote control, telemetering and telesignaling manufactured at the plant are described, and their characteristics are briefly presented. The most important immediate problem is transistorizing telemechanical equipment.

P.V.M.

Card 1/1

AMBROSOVICH, Vladimir Dorofeyevich; SIDEL'NIKOV, V.V., kandi. tekhn.  
nauk, otv. red.

[Static power converters for telemetry systems] Staticheskie preobrazovateli moshchnosti dlia telexizmeritel'nykh sistem. Moskva, Nauka, 1965. 117 p. (MIRA 18:8)

ACC NR: AM5004836

Monograph

UR/

Ambrosovich, Vladimir Dorofeyevich

Static power converters for telemetering systems (Statische preobrazovateli moshchnosti dlya teleizmeritel'nykh sistem) Moscow, Izd-vo "Nauka", 65. 0115 p. illus., biblio., fold. charts. (At head of title: Akademiya nauk SSSR. Institut elektromekhaniki Gosudarstvennogo komiteta po elektrotekhnike pri Gosplane SSSR) Errata slip inserted. 3,300 copies printed.

TOPIC TAGS: telemetry system, static power convertor, electric measuring instrument

PURPOSE AND COVERAGE: This book gives a systematic review of methods of constructing static (without mobile parts) power converters designed for use in systems telemetering the power of different systems in the capacity of primary measuring converters. A major part of the book views the theoretical aspects and principle schemes for different types of converters considering the requirements of telemetering systems of the energy profile. This book is recommended for those working in scientific research, planning and construction, and application of measuring, telemetering and computing technology. This book can also be useful to aspirants and students of electrotechnical and power institutes and departments dealing with measuring converters.

TABLE OF CONTENTS (abridged):

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ACC NR: AM6004836

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SUB CODE: 09 / SUBM DATE: 16Jan65/ ORIG REF: 122/ OTH REF: 053

Card 2/2

SIDEL'NIKOV, V.V., kand. tekhn. nauk, otv. red.; ~~AMBROSOVICH,~~  
V.D., red.; ~~GARBUZOV, A.R., red.; SEMENOV, V.V., kand.~~  
~~tekhn. nauk, red.;~~ ~~CHEKUNYUSHEVA, V.V., red.~~

[Automatic and distance-type data transmitting systems]  
Avtomaticheskie i teleanformatsionnye sistemy. Moskva,  
nauka, 1965. 299 p. (MIRA 18:8)

1. Leningrad. Institut elektromekhaniki.

L 23901-66 EWT(d)/EWF(1) IJP(c) BC

ACC NR: AP6009847

SOURCE CODE: UR/0413/66/000/004/0038/0038

AUTHOR: Mityushkin, K. G.; Ambrosovich, V. D.; Klemin, V. A.; Gorshkov, S. V. 48

ORG: none B

TITLE: A cyclic device for remote control and signalling. Class 21, No. 178882 [announced by the "Elektropul't" Plant (Zavod "elektropul't") and the All-Union Scientific Research Institute of Power Engineering (Vsesoyuznyy nauchno-issledovatel'skiy institut energetiki)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 38

TOPIC TAGS: remote control, telemetry, cyclic coding, electronic circuit

ABSTRACT: This Author's Certificate introduces: 1. A cyclic unilateral (simplex) action device for remote control and signalling with pulsed time marks. The unit consists of two subassemblies for remote control and signalling. On the transmission side of each of these sets is a pulse generator, distributor, coder, time code shaper, linear unit and a unit for frequency-division channel multiplex. On the receiving side are a unit for frequency-division multiplex, amplifier, shaper, decoder, distributor, pulse duration selectors, a unit for authorizing actuation and individual output control relay units. On the transmission side of the cyclic unilateral (simplex) action remote signalling device are a distributor, an automatic triggering device, a coder,

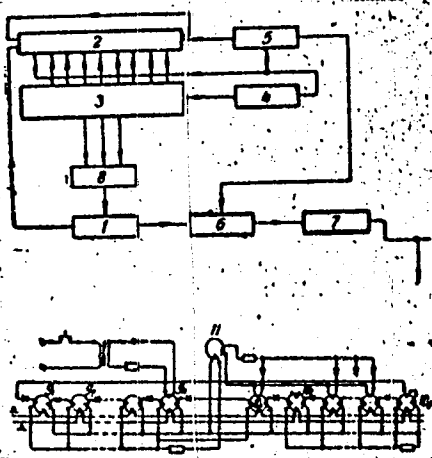
Card 1/3

UDC: 621.398  
654.94



L 23901-66

ACC NR: AP6009847



1--pulse generator; 2--pulse distributor; 3--control panel; 4--command acceleration unit; 5--discharge unit; 6--linear unit; 7--frequency-division multiplex unit; 8--time code shaper; 9<sub>1</sub>-9<sub>n</sub> and 10<sub>1</sub>-10<sub>g</sub>--distributor elements; 11--blocking cell.

time code shaper, linear unit, frequency-division multiplex, and on the receiving side are a frequency-division multiplex unit, amplifier, shaper, distributor, decoder, pulse mark duration selectors, reception accuracy control unit and individual output signalling relay unit. In order to prevent indefinite delay during transmission of remote control commands due to the necessity for resetting the distributor to the initial state, a

command acceleration unit is used in the remote control device. The input of this unit is connected to the output of the coding unit and the first output of the coding unit is connected to the input of the first cell of the distributor while the second output is connected through a discharge circuit to the input of the coupling circuit for the distributor. 2. A modification of this device in which false signals are eliminated

Card 2/3

L 23901-66  
ACC NR: AP6009847

from the control code by using a unit for automatically erasing false "ones" in the pulse distributor. This unit is a blocking cell connected in series to the common coupling circuit of the distributor. 3. A modification of this device in which the reliability and resistance to interference are improved by connecting the output of the ferrite diode pulse distributors to each cell for the corresponding signal.

SUB CODE: 09/

SUBM DATE: 29Jan64/

ORIG REF: 000/

OTH REF: 000

Card 3/3 BK

L 42188-66 ENT(1)  
ACC NR: AT6008927

GD

SOURCE CODE: UR/0000/65/000/000/0119/0125

AUTHOR: Ambrosovich, V. D.; Bartmer, A. Ye.; Mikhaylova, N. D.

67  
871

ORG: none

TITLE: Numeral <sup>15</sup>display panel for teleinformation systems

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomaticheskiye i teleinformatsionnyye sistemy (Automatic and teleinformation systems). Moscow, Izd-vo Nauka, 1965, 119-125

TOPIC TAGS: display panel, signal processing, information processing, pulse coding

ABSTRACT: A remote character-display system is briefly considered which uses a telegraph-type pulse code and is intended for receiving, storing, and displaying on a panel the information sent from a central station. The information is transmitted, over a telephone line, in case of emergency or on request from the

Card 1/2

L 42187-66 EWT(d)/EWP(1)  
ACC NR: AT6008928

IJP(c) BB/GS/GD

SOURCE CODE: UR/0000/65/000/000/0125/0130

AUTHOR: Ambrosovich, V. D.; Kats, D. A.; Chernyshev, V. Ye.

47  
B+1

ORG: none

TITLE: Nonvolatile <sup>16C</sup>storage with four-coordinate access

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomaticheskiye i teleinformatsionnyye sistemy (Automatic and teleinformation systems). Moscow, Izd-vo Nauka, 1965, 125-130

TOPIC TAGS: computer storage device, digital decoder, digital computer

ABSTRACT: Methods are considered for simplifying the nonvolatile-storage (up to 10000 numbers) decoders used in digital computers. When the storage capacity exceeds 1000 numbers, four control coordinates and square-loop ferrites become necessary. The simplest 4-coordinate circuit would have too many simultaneous

Card 1/2

Card 2/2 *11/11*

APPROVED FOR RELEASE

AMEROSOVSKIY, M. F.

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No. 7, 1948.

Chair Operative Surgery & Topographic Anatomy, Leningrad Med. Inst.

*AMBROS'YEV, A.P.*

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Data on the formation of new afferent pathways in the urinary bladder  
and large intestine. Arkh. anat. gist.i embr. 38 no.1:3-19 Ja '60.  
(MIRA 13:7)

1. Kafedra anatomii cheloveka (zav. - prof.D.M.Golub) Minskogo  
meditsinskogo instituta i laboratorii morfologii Instituta fiziologii  
Akademii nauk BSSR. Adres avtorov: Minsk, Universitetskaya ul., 2,  
Meditsinskiy institut. Kafedra anatomii cheloveka.  
(BLADDER--INNERVATION) (INTESTINES--INNERVATION)

AMBR0S'YEV, A.P. [Amvros'eu, A.P.]; KHEYMAN, F.B.

David Moiseevich Golub; on his 60th birthday. Vestsi AN BSSR.  
Ser. biial, nav. no.3:112-114, '61. (MIRA 14:10)  
(GOLUB, DAVID MOISEEVICH, 1901-)

JURANEK, J.; AMBROVA, A.

Colorimetric-chromatographic ultramicroanalysis of gases. III.  
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1. Institut fur Erdolforschung, Brno.  
    (Colorimetry)      (Chromatography)      (Iron)  
    (Gases)          (Carbon)



AMEROVA, P.

Souvenirs from the dietary school. p.133

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Oat flakes in the nutrition of children and adolescents.  
(to be contd.) p.134

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Praha, Czechoslovakia, Vol.14, no.9, Sept.1959

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Dec.1959  
Uncl.

AMBROZ, Anton

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no.10:Suppl.: Literatura 23 no.10:L77, L79 '62.

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Herring of the Bay of Peter the Great, Izvestiya Tikhookeanskogo  
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AMBROZ, Aleksandr Ivanovich; ROLL, Ya.V., redaktor; GRUDZINSKAYA, O.S.,  
redaktor; BAKHLINA, N.P., tekhnicheskii redaktor.

[Fish of the Dnieper, Southern Bug and the Dnieper-Bug estuaries]  
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1. Chlen-korrespondent AN USSR (for Roll).  
(Dnieper River--Fishes) (Bug River--Fishes)

AMBROZ, A.I., CHEPURNOV, V.S., dots, kand. biol. nauk, otv. red.

[Beluga of the Black Sea] Beluga Chernogo moria. Kishinev,  
1960. 199 p. (Kishinev, Universitet, Uchenye zapiski, vol. 56)  
(MIRA 14:3)

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The situation of the pisciculture reservoirs in the Danube Basin within the U.S.S.R. frontiers, and the measures for maintaining and enlarging them. Hidrologia 4:277-286 '63.

AMBROZ, A.I.

Sturgeons of the northwestern part of the Black Sea. Trudy  
VNIRO 52:287-347 '64. (MIRA 17:10)

1. Odesskaya laboratoriya Azovsko-Chernomorskogo nauchno-  
issledovatel'skogo instituta morskogo rybnogo khozyaystva i  
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AMBROZ, Hanna; KASPRZYK, Elzbieta; CZYZENICZ, Jerzy

Application of rubber soles to shoes with leather uppers.  
Polimery tworzyw wielk 7 no.5:177-181 My '62

1. Tomaszowskie Zaklady Tworzyw Sztucznych, Tomaszow.

AMBROZ, Hanna

Chemistry, processing and crosslinking technology of polyurethan  
elastomers. Polimery tworzyw wielk 8 no.3:91-94 Mr '63.

1. Instytut Przemyslu Gumowego, Warszawa.

AMBROZ, Hanna

Urethane lacquers for rubber shoes. Polimery tworz wielk  
9 no.5:204-206 My'64.

1. Laboratory of Sport and Sanitary Goods, Institute of  
The Rubber Industry, Warsaw.

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175\* Measuring the Rate of Gas Flow by a Cylindrical Probe. Měření rychlosti proudění válečkovou sondou. (Czech.)  
P. Slevuška and I. Ambroz. Strojirenstvi, v. 5, no. 10, Oct. 1955, p. 780-789. *MM*

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AMERZ, J., BUDICWSKY, J.

Power sources for the auxiliary equipment of steam-power plants. p.43 (Nova Technika, Vol. 1, no.2, Feb. 1956) Praha

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

AMBROZ, Josef, dr.

Problem of the employment of older people. See revue 8 no.4/5:178-188  
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AMBRIZ, J.

✓ 599. STEAM TURBINES, VOL. 2. DESIGN, REGULATION AND OPERATION

3

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RUTICKA, Jaroslav; AMBROZ, Jaroslav

Lesions of the upper respiratory tract in workers engaged in the production of nitrogen fertilizers. Pracovni lek. 11 no.8:414-418 Oct 59.

1. Oddeleni chorob z povolani KUNZ v Ostrave, ved. lekar MUDr. J. Rosmanith ORL poliklinika ZUNZ VZKD v Ostrave VII, prednosta MUDr. L. Havlicek.

(FERTILIZERS, toxicol.) (NITROGEN, toxicol.)  
(RESPIRATORY SYSTEM, dis.)



AMBROZ, Josef, inz.

World wook production in 1960. Drevo 17 no.6:191 Je '62.

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CHELBOUN, J., inz.: AMBROZ, J., inz.

Extraction of coal from dumps. Paliva 44 no.9:281-283 9 '64.

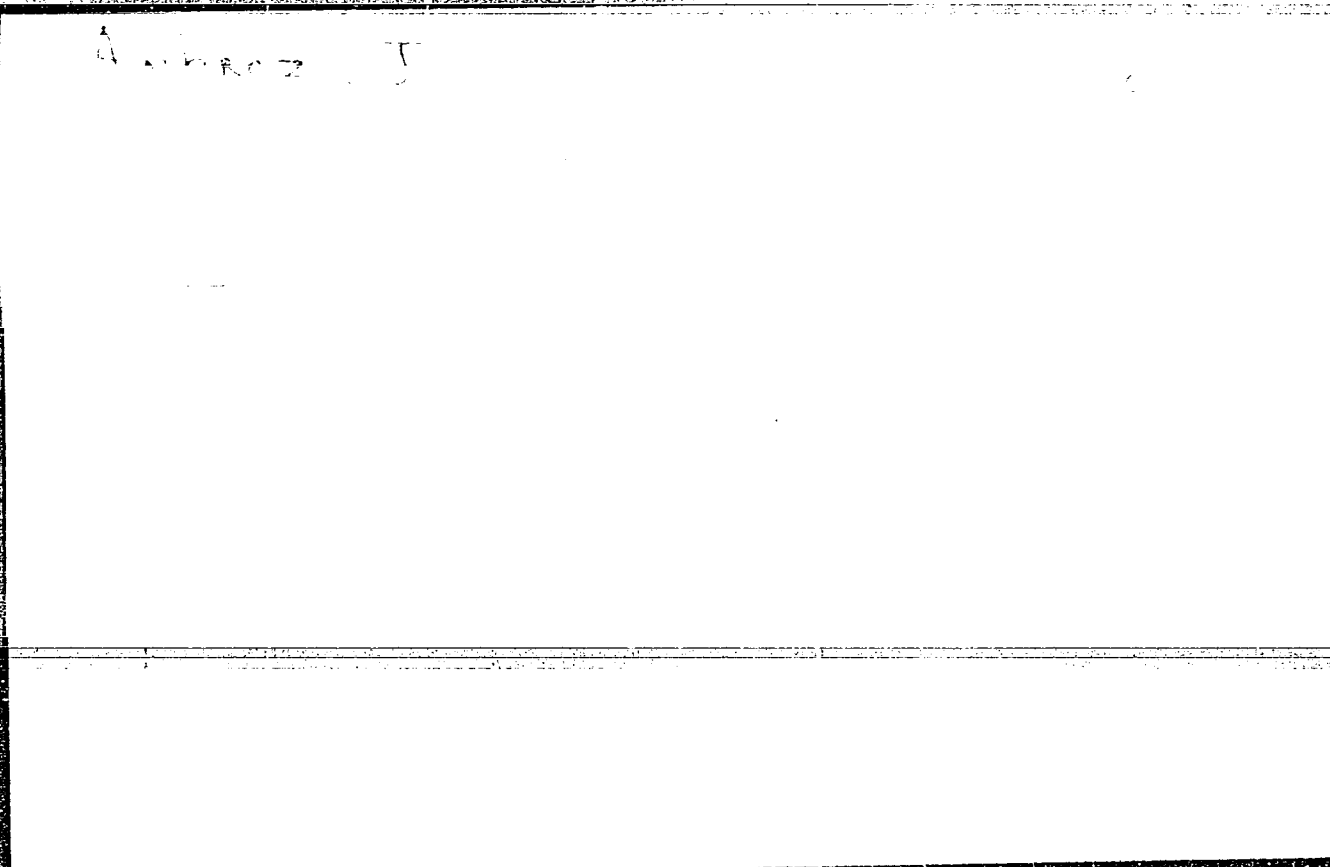
1. Scientific Research Institute of Coal. Preparation Department, Ostrava-Kuncicky (for Chleboun).
2. Sdružení Ostravsko-karvinských dolů, Ostrava (for Ambroz).

~~XXXXXXXXXX~~ AMBROZ, Jaroslav

8

~~Aluminum chloride catalyzed polymerization of isobutene  
 in alkyl halide-ethane mixture. Zdeněk Zeman, Jaroslav  
 Ambrož, and Ludvík Ambrož (Vysokomol. Soedin. Ser. B, 1963,  
 5, 1100; Czech. J. Chem. Phys. 9, 1000-1001 (1963)).~~  
 The polymerization of isobutene in mixts. of liquid CCl<sub>4</sub>  
 and MeCl or EtCl at -55° catalyzed by AlCl<sub>3</sub> was investi-  
 gated by detg. the mol. wt. of the polymers formed. The  
 dependence of the mol. wt. on concn. of the catalyst and of  
 the alkyl halide show sharp max. In the presence of alkyl  
 halide the polymerization is instantaneous; this is attri-  
 buted to complex formation between AlCl<sub>3</sub> and MeCl or  
 EtCl. E. Erdős

AA  
7/57



AMBROZ, J.

Distr: 4E2c(j) 7

Polymerization of propylene. I. Dilatometric method for the study of the heterogeneous polymerization of  $\alpha$ -olefins. J. Ambroz (Výzkumný ústav makromolekulární chem., Brno, Czech.). *Collection Czechoslov. Chem. Commun.* 24, 3703-7(1959).—A dilatometric method was elaborated which is suitable to the study of reactions in the liquid phase with a solid microcryst. catalyst, during which a vol. contraction takes place; the method was applied to the study of the heterogeneous stereospecific polymerization of propylene. The contraction during the reaction is proportional to the conversion. The reaction is of the first order with respect to the monomer. E. Hedeš

3  
1-92(N6)  
1

11/DA: Jc

Z/009/60/000/01/007/038  
E112/E253

AUTHORS: Ambrož, J., Ambrož, L., Dvořák, S ✓

TITLE: Preparation of Pure Titanium Trichloride

PERIODICAL: Chemický průmysl, 1960, Nr 1, p 23

ABSTRACT: Titanium trichloride is recommended as a catalyst for stereo-specific polymerisations. The standard method for the preparation of the compound is the reduction of titanium tetrachloride in a stream of hydrogen at 1000°C. The authors state that the realisation of the reaction may give rise to experimental difficulties and that the separation of unreacted titanium tetrachloride from titanium trichloride may be difficult. They describe a laboratory method based on the same reaction and claim to have obtained microcrystalline titanium trichloride of high purity. Two diagrams of the apparatus are given. Experimental details are given for a charge of 350 ccs titanium tetrachloride as starting material. The titanium trichloride was shown to be completely free of the tetrachloride. There are 2 figures and 3 references, 1 of which is German and 2 English. (✓)

ASSOCIATION: Výzkumný ústav makromolekulární chemie, Brno  
(Research Institute of Macromolecular Chemistry, Brno)

Card 1/1

AMBROZ, J.

80321  
Z/009/60/010/05/040/040  
E142/E135

5.3300  
5.1190

AUTHOR:  
TITLE:

Jaroslav Ambrož

Adjustment of the Molecular Weight during the  
Stereospecific Polymerization of Propylene

PERIODICAL: Chemický Průmysl, 1960, Vol 10, Nr 5, pp 278-280

ABSTRACT: High-molecular weight polymers are produced during the stereospecific polymerization of propylene when using titanium chloride and triethyl aluminium (Natta et al, Ref 1) as catalyst system. The transfer reactions during the process were investigated as well as the possibility of adjusting the molecular weight of the polymer. It was found that the molecular weight could be reduced, whilst maintaining a high degree of isoactiveness, when diethyl zinc was used as carrier (Figs 1 and 3). The relationship between the concentration of the individual components and the molecular weight of the polymers was investigated by using the dilatometric method (Ref 10). It was found that changes in the concentration of titanium chloride hardly affected the molecular weight of the polypropylene (Table 1). The effect of triethyl aluminium on the

Card  
1/2



S/081/62/000/022/068/088  
B166/B144

AUTHORS: Ambrož, Jaroslav, Hamřík, Oldřich

TITLE: A method of producing polymers from unsaturated hydrocarbons without needing to remove and detoxicate the catalysts

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 518, abstract 22P287 (Czechosl. patent 99911, June 15, 1961)

TEXT: For low-pressure a olefin polymerization highly efficient catalysts based on  $TiCl_3$  and  $(C_2H_5)_3Al$  are used at a rate of <50 mg per liter liquid phase. The method adopted saves the need to remove catalyst residues from the polymer. The catalyst is produced by dispersing a transition metal chloride in an oxygen-free medium until  $\ll 1\mu$  particles are formed, after which it is held for a long time. The optimum quantity of  $(C_2H_5)_3Al$  depends on the specific surface of the catalyst; the  $TiCl_3 : (C_2H_5)_3Al$  ratio is usually 1 : 6 - 1:7. The permissible quantity of impurities in the reaction medium is: CO, COS and  $CS_2$  < 0.005%; S in the form of  $H_2S$  and mercaptans, oxygen and oxygen-containing compounds, nitrogenous  
Card 1/2

A method of producing polymers from ...

S/081/62/000/022/068/088  
B166/B144

compounds < 0.005%;  $C_2H_2$  and its homologues < 0.001%. Examples. 1) 20 l propane, 20 l propylene, ~0.8 g  $TiCl_3$  and 4 g  $(C_2H_5)_3Al$  are loaded into a 50-liter autoclave. The  $TiCl_3$ , produced by hydrogen reduction, had been dispersed by an h-f current in an n-heptane medium, and the suspension was then left for 12 hrs at  $60^\circ C$ . Polymerization is carried out at  $65^\circ C$ , conversion reaching 65% in 7 hrs. The polymer contains 0.04% ash and 5% amorphous fraction, but the Cl can be measured in thousandths of 1%. 2) A similar polymer is also produced by using as a catalyst a mixture of crystals of  $TiCl_3 + AlCl_3$  (25%) (see Czech. pat, no. 97063, RZhKhim, 1962, 15P124) dispersed by vacuum sublimation and condensation with heptane vapors. This suspension is held for 34 hrs at  $40^\circ C$ . [Abstracter's note: Complete translation.]

Card 2/2

S/081/62/000/024/027/052  
B117/B186

AUTHORS: Vilím, Rostislav, Ámbrož, Jaroslav, Hamřík, Oldřich

TITLE: Production of poly- $\alpha$ -olefins with an increased content of crystalline fraction at higher polymerization rate and with the possibility of using low-purity raw material

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24 (II), 1962, 896, abstract 24P577 (Pat. ČSSR 99922, June 15, 1961)

TEXT: A mixture of  $TiCl_4$  (I) -  $Al(C_2H_5)_3$  (II) activated with small amounts of substances containing nitrogen or oxygen capable of forming onium compounds on the surface of the solid phase of catalyst, is used as polymerization catalyst. Such catalysts increase the reaction rate considerably and reduce the required amount of catalyst; hence the reaction can be conducted at a considerable concentration of catalytic poisons in the reaction medium. 2.4 g of a polymer, with a viscosity number of 490 and a 97 % crystalline fraction, was obtained from a mixture of 27 ml n-heptane, 4000 mg propylene, 30 mg (I), 230 mg (II), and 4 mg phenyl hydrazine after 60 min at 50°C. Without (III), only 1.3 g of poly-  
Card 1/2

S/081/62/000/024/027/052  
B117/B186

AUTHORS: Vilfm, Rostislav, Ámbrož, Jaroslav, Hamřík, Oldřich

TITLE: Production of poly- $\alpha$ -olefins with an increased content of crystalline fraction at higher polymerization rate and with the possibility of using low-purity raw material

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24 (II), 1962, 896, abstract 24P577 (Pat. ČSSR 99922, June 15, 1961)

TEXT: A mixture of  $TiCl_4$  (I) -  $Al(C_2H_5)_3$  (II) activated with small amounts of substances containing nitrogen or oxygen capable of forming onium compounds on the surface of the solid phase of catalyst, is used as polymerization catalyst. Such catalysts increase the reaction rate considerably and reduce the required amount of catalyst; hence the reaction can be conducted at a considerable concentration of catalytic poisons in the reaction medium. 2.4 g of a polymer, with a viscosity number of 490 and a 97 % crystalline fraction, was obtained from a mixture of 27 ml n-heptane, 4000 mg propylene, 30 mg (I), 230 mg (II), and 4 mg phenyl hydrazine after 60 min at 50°C. Without (III), only 1.3 g of poly-  
Card 1/2

AMEROZ, J.; ALBROZ, L.; OSECKY, P.; VESELY, K.

CSSR

Research Institute of Macromolecular Chemistry, Brno (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 12, 1962,  
pp 2872-2877

"A Kinetic Study of the Stereospecific Polymerization of Propylene"

4

KAMENIK, Vladimir; AMBROZ, Jaroslav; VESELY, Karel

Research on the technology of polypropylene production in Czechoslovakia.  
Chem prum 12 no.8:468-470 Ag '62.

1. Vyzkumny ustav makromolekularni chemie, Brno.

AMEROZ, J.; AMEROZ, L.; OSECKY, P.; VESELY, K.

A kinetic examination of the stereospecific polymerization of propylene. Coll Cs Chem 27 no.12:2872-2877 D '62.

1. Research Institute of Macromolecular Chemistry, Brno.

AMBROZ, Jaroslav, inž., CSc.

Series turbine for feed pump drive. Stroj cas 14 no.5:390-399  
'63.

1. Katedra tepelnych turbin a kotlu, Ceske vysoke uceni tech-  
nicke, Praha.



AMBROZ, J.; HARRIK, O.

Effect of additions on the propylene polymerization catalyzed  
by the titanium (III)-chloride-triethylaluminum system.  
Coll Cz Chem 28 no.10:2550-2555 0 '63.

1. Forschungsinstitut fur makromolekulare Chemie, Brno.

AMBROZ, J.; AMBROZ, L.; NAHLIKOVA, D.

Effect of the organometallic ingredient of the complex Ziegler-Natta catalyst on the polymerization of propylene. Chem prum 14 no.12:648-651 D '64

1. Research Institute of Macromolecular Chemistry, Brno.

AMBROZ, Jaroslav, inz. CSc.

"Contactless packings" by Karl Trutnovsky. Reviewed by Jaroslav  
Ambroz. Stroj vyr 13 no.3:237 Mr '65.

AMBROZ, J.

Economic activity of elderly women. Cesk. gynek. 30 no.6:  
444-446 Ag '65.

1. Vyzkumny ustav socialniho zabezpeceni v Praze.

~~AMBROZ, Ludvik~~ AMBROZ, Ludvik

8

~~Aluminum chloride catalyzed polymerization of isobutene  
in alkyl halide-ethane mixtures. Zdenek Zimml, Jaroslav  
Ambroz, and Ludvik Ambroz (Vyzkumny ustav plastyckych  
hmot, Brno, Czech. Chem. Ind. 49, 1000-11(1955).  
The polymerization of isobutene in mixts. of liquid C<sub>2</sub>H<sub>6</sub>  
and MeCl or EtCl at -88° catalyzed by AlCl<sub>3</sub> was investi-  
gated by detg. the mol. wt. of the polymers formed. The  
dependence of the mol. wt. on concn. of the catalyst and of  
the alkyl halide show sharp max. In the presence of alkyl  
halide the polymerization is instantaneous; this is attri-  
buted to complex formation between AlCl<sub>3</sub> and MeCl or  
EtCl.~~

AD  
7/57

~~AMBROZ, L.~~ AMBROZ, L.

Ambroz, Ludvik

CZECHOSLOVAKIA/Chemistry of High Molecular Substances.

I

Abs Jour: Referat. Zhurnal Khimiya, No 10, 1958, 34963.

Author : Jan Ciernik, Ludvik Ambroz, Josef Frejka.

Inst : Not given.

Title : Polymerization of N-vinylphthalimide.

Orig Pub: Chem. průmysl, 1957, 7, No 9, 509-511.

Abstract: The polymerization of N-vinylphthalimide in ethyl acetone and acetate was studied and the effects of the temperature, the monomer concentration and the initiator (benzoyl peroxide) on the reaction rate were determined. The initiation is produced not only by peroxide radicals, but also thermally. The general polymerization rate  $V$ , the initiator concentration  $I$  and the monomer concentration  $M$  are con-

Card : 1/2

2/

Distr: 4E2c(j)

Donor-acceptor interactions in cationic polymerization.  
 III. Influence of diethyl ether on molecular weight of polyisobutene in polymerization catalyzed by aluminum trichloride. Z. Zlámal and L. Ambrož (Research Inst. Macromol. Chemistry, Brno, Czech.). *J. Polymer Sci.* 29, 595-604 (1958); cf. *CA* 53, 759g.—The cond. of electrolytes in a low dielec. const. medium is known to depend on the assocn. which is a function of concn., temp., dielec. const., ionic vol., and other quantities. Some unpublished results conclude that the mol. wt. of polyisobutene may also be influenced by these changes in cond. Et<sub>2</sub>O was chosen for the detailed study since traces of such substances remain in EtCl even after purification. Thus, EtCl, AlCl<sub>3</sub>, and isobutene were prepd. and purified. Et<sub>2</sub>O was dried by Na wire and distd. while anisole was prepd. by interaction of KOPh and Me<sub>2</sub>SO, and distd. *in vacuo*. Polymerization expts. were made in solns. of the same compns. as those of the solns. whose cond. was detd. A soln. of Et<sub>2</sub>O in EtCl was added at regular intervals to 50 ml. of a soln. of AlCl<sub>3</sub> in EtCl at -78.5°, the elec. cond. of the system was detd. in relation to the amt. of Et<sub>2</sub>O added. The resulting curves show the influence of concn., and the characteristic min. is shown to occur at the molar ratio ROR/AlCl<sub>3</sub> = 1 and becomes sharper with increasing concn. The max. degree of assocn. is 2. A surplus of Et<sub>2</sub>O changes the complex ROR.2AlCl<sub>3</sub> to 1:1 complex of a type being only slightly ionized. The sp. cond. reaches a characteristic min. The soln. of Et<sub>2</sub>O in EtCl is a poor conductor, its cond., however, increases sharply on addn. of AlCl<sub>3</sub>. The cond. curve at 33% AlCl<sub>3</sub> shows an inflection point and then passes through a max., shifting toward this inflection point on diln., which is characteristic for the complex 2ROR.AlCl<sub>3</sub>. An analogous

5  
 2-7A1(1)(X)(34)  
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 curve is shown for the pair anisole-AlCl<sub>3</sub>. Another graphical presentation shows the complex course of the curve of the relationship of sp. cond. to the molar ratio ether:AlCl<sub>3</sub> being also duplicated by the curve representing the relationship of the polyisobutene mol. wt. to this molar ratio. Changes in the ionic concn. lead to changes in the mol. wt. of the produced polymer. The independence of the mol. wt. on the catalyst concn. is a function of sp. reaction conditions.

Arthur Lynn



Z/009/60/000/01/007/038  
E112/E253

AUTHORS: Ambrož, J., Ambrož, L., Dvořák, S ✓  
TITLE: Preparation of Pure Titanium Trichloride  
PERIODICAL: Chemický průmysl, 1960, Nr 1, p 23

ABSTRACT: Titanium trichloride is recommended as a catalyst for stereo-specific polymerisations. The standard method for the preparation of the compound is the reduction of titanium tetrachloride in a stream of hydrogen at 1000°C. The authors state that the realisation of the reaction may give rise to experimental difficulties and that the separation of unreacted titanium tetrachloride from titanium trichloride may be difficult. They describe a laboratory method based on the same reaction and claim to have obtained microcrystalline titanium trichloride of high purity. Two diagrams of the apparatus are given. Experimental details are given for a charge of 350 ccs titanium tetrachloride as starting material. The titanium trichloride was shown to be completely free of the tetrachloride. There are 2 figures and 3 references, 1 of which is German and 2 English. (✓)

ASSOCIATION: Výzkumný ústav makromolekulární chemie, Brno  
(Research Institute of Macromolecular Chemistry, Brno)

Card 1/1

AMBROZ, J.; AMBROZ, L.; OSECKY, P.; VESELY, K.

A kinetic examination of the stereospecific polymerization of propylene. Coll Cz Chem 27 no.12:2872-2877 D '62.

1. Research Institute of Macromolecular Chemistry, Brno.

AMBROZ, J.; AMBROZ, L.; NAHLIKOVA, D.

Effect of the organometallic ingredient of the complex Ziegler-Natta catalyst on the polymerization of propylene. Chem prum 14 no.12:648-651 D '64

1. Research Institute of Macromolecular Chemistry, Brno.

L 00713-67 EWP(j) WW/JW/RM

ACC NR: AP6019424

(A)

SOURCE CODE: CZ/0009/66/000/002/0094/0096

AUTHOR: Kresta, Jiri; Ambroz, Ludvik

ORG: Research Institute of Macromolecular Chemistry, Brno (Vyzkumny ustav makromolekularni chemie)

TITLE: Preparation and properties of polyvinyl fluoride--I. Investigation of the physical and chemical properties of vinyl fluoride

SOURCE: Chemicky prumysl, no. 2, 1966, 94-96

TOPIC TAGS: vinyl compound, fluoride, fluid density, gas density, vapor pressure

ABSTRACT: The authors measure the vapor pressure of monomeric vinyl fluoride and the density of liquid and gaseous vinyl fluoride as functions of temperature and compare their data with those in the literature. Vinyl fluoride of 99.9% purity was catalytically synthesized from HF and C<sub>2</sub>H<sub>2</sub>. The density measurements were made in a pressurized glass capillary dilatometer with a volume of 10.25 ml. The vapor pressure was measured in a 250 ml autoclave. The critical temperature was found to be 55.4°C with a critical density of 0.318 g/ml. Experimental results give a critical pressure of 53.0 kp·cm<sup>-2</sup>. Orig. art. has: 3 figures, 3 tables.

SUB CODE: 11, 07/ SUBM DATE: 03Aug65/ ORIG REF: 002/ OTH REF: 005

Card 1/1 vlr

UDC: 679.574

AMBERG, I.; BOURG, J.; MICHÁLEK, J.

"Aminoalkylquinoxalines. II.", P. 865, (CHEMIE LSTY, Vol. 48, No. 6, June 1954, Praha, Czech.)

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

GOPFOLEOVA, Miluse; BUREK, Ladislav; AMBROZ, Otakar

A new oxidation inhibitor for pyrolytic gasoline stabilization.  
Repa a unie 7 no.4:98-101 Ap '65.

1. Chemicke zavody Ceskoslovenskosovetskeho pratelstvi National  
Enterprise, Zaluzi.

Annex 2:17

1619 Direct volumetric determination of ...  
method ...

AMBROZ, Rudolf, ing.; REHAK, Pavel, MUDr.

Planning accident prevention in mines. Cesk. zdrav. 10 no.1:  
37-41 '62.

1. Z chirurgickeho oddelenia UNZ Handlova (prednosta MUDr. P.Rehak).  
(MINING) (ACCIDENTS INDUSTRIAL prev & control)



ADVICE, S; CINCINNATI, S.; MINOR, A.

Construction of a coach in Zahrosevice assembled from prefabricated elements.  
p. 18.

ROZMÍŠŤENÍ STAVBY. (Ministerstvo stavebnictví)  
Praha, Czechoslovakia Vol. 7, no. 1, Jan. 1959

Monthly List of East European accession, (HEAI), IC, Vol. 1, No. 12, Dec. 1959  
Uncl.

AMBRCZ, V.

"New Soviet machinery for our building industry."

p. 437 (Mechanisce) Vol. 4, no. 12, Dec..1957  
Prague, Czechoslovakia

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

AMBRQZ, V. 8

*ca*

Crystalline rocks between Hluboka and Tyn nad Vitavou, South Bohemia. Vojt. Annal. Pub. Institut. sci. univ. Charles No. 138, 1-44(1935); *Neues Jahrb. Mineral., Geol., Ref. II*, 1938, 350-401. — After a sketch of the geol. structure of the tract a detailed description is given of the rocks occurring therein (various gneisses and amphibolites and orlanite) with 5 complete and proximate analyses of granodiorite, 2 ortho-gneisses, and biotite- and albitized paragneisses. C. A. S.

850-312 METALLURGICAL LITERATURE CLASSIFICATION

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
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|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

AMBROZ, V.

AMBROZ, V.; LOZEK, V.; PRGSEK, FR.

"Recent Pleistocene in the environs of Moravany near Piestany of the Vah River,  
western Slovakia" p. 53 (Anthropozoikum, Vol. 1, 1951, Praha)

SO: Monthly List of ~~East~~ Accessions / East European Vol. 3, No. 3  
Library of Congress, March 1953<sup>4</sup>, Uncl.

AMBROZ, V.

"Deflation in the lee of mountain ridges" p. 203 (Anthropozoikum, Vol. 1, 1951, Praha)

SO: Monthly List of ~~Russian~~ East European Accessions, Vol. 3, No. 3, Library of Congress, March 195<sup>4</sup>, Uncl.

AMIROZ, Z.

"Microbiology of Some Characteristic Types of Vegetation in Mjonsi, a Virgin Forest Formation in the Jablunkov Mountains." p. 515. (SBORNIK. ANNALS. RADA A., Vol. 26, no. 6, Dec. 1953, Praha, Czechoslovakia)

So: Monthly List of East European Accessions, IC, Vol. 3, No. 5, May 1954/Unclassified

Hamber, Zp.

CZECH

Microbiological study of nitrogen and carbon cycle in various forest soils. *Zd. Ambiol (Vysoká škola zemědělská, ústav mikrobiol., Brno, Československo) - Abstr. Československé Akademie věd, 1951, 27A, 335-350 (1951).* - Microbiol. conditions in rendzina and brown soils under pine and oak covers were studied. The max. counts of bacteria and *Actinomyces* were found in summer in upper and in fall in lower layers of the soil. The greatest varieties of bacteria were observed in spring. Molds predominate in count and variety in brown soils and in great no. under oak covers, and the max. was reached in all soils in late fall, with the min. in summer. The spore-forming bacteria reached max. in upper layers at the end of summer, and in lower layers the count increased to such point that it was higher than in human layers. In N cycle, the max. count of bacteria utilizing nitrate N was reached in summer, while the others were depressed throughout. Org. and NH<sub>4</sub> of nitrate bacteria in the spring and fall. The nitrification is much stronger in conifers, and the max. is in the fall. In the C cycle, the microbial decomposition of lignin and humates reached its max. in the fall, was lower in spring, and also in summer. The intensity of peat decomposition increased gradually from spring to fall. Max. decomp. of cellulose was found in fall. The effect of soil types was more pronounced than the effect of soil and pine cover.

*AMBROZ, ZDENEK*

Czechoslovakia /Microbiology. Soil Microbiology.

F-3

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35615

Author : Ambroz, Zdenek

Title : The Microbiological and Biochemical Characteristics of Soils with a High Content of Kaolin in Western Moravia

Orig Pub: Lesn. prace, 1954, 33, No. 4, 152-157

Abstract: No abstract.

Card 1/1



AMBROZ, Z.

Contribution on the microbiological characteristics of some local types of forest soil  
in the virgin forest of Mjonsi. Pt. 2. p. 81.

No. 2, 1955  
SBORNIK RADA C: SPISY FAKULTY LESNICKE  
Brno, Czechoslovakia

So: Eastern European Accession Vol. 5 No. 4 April 1956

AMBROZ, Z.

Constitution and transformation of humus in some forest soils. p. 36  
CESKOSLOVENSKA BIOLOGIE, Vol. 4, No. 1, Jan. 1955

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

AMBROZ, V.

Tree alleys in landscape architecture.

p. 186 (Ochrana Prirody) Vol. 12, no. 6, Aug. 1957 Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, -Vol. 7, No. 1, Jan. 1958

AMBROZ, V., and others.

"Interesting novelties at the Spring Fair in Leipzig. (To be contd.)"

p. 208 (Mechanisace, Vol. 5, No. 6, June 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 9, September 1958.

AMBROZ, YU. A.

35214. Prioritet Russkikh Issledovateley V Otkrytii Antarktity. (Doklad Na Zasedanii Sovyeta Geogr. Fak. Mart 1949 G.) in Vestiya Odes. Gos. Un-Ta Im. Mechikova, T.ii, VIP. 1, 1949, S. 22-33

SO: Letopis' Zburhal'nykh Statey. Vol. 48, Moskva, 1949

AMBROZ, Yu.A.

Evolution of the "Balta delta" and characteristics of the development of the relief in its boundaries. Trudy Od. un. 152 Ser. geol. i geog. nauk no.8:141-151 '62.

(MIRA 17:9)

CZECHOSLOVAKIA/Soil Science. Biology of Soils.

J-2

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24717.

Author : Ambroz, Zdenek.

Inst :

Title : Determination of the Activity of Enzymes in the Study  
of the Biology of Soils.

Orig Pub: Sbor. Ceskos. akad. zemed. ved. Rostl. Vyroba,  
1956, 29, No 9-10, 890-892.

Abstract: No abstract.

Card : 1/1

AMBROZ, Z.

Quantitative and qualitative composition of humus in some soil types, mainly in forest soils. II. P. 21. (SBORNIK RADA LESNICTVI. Praha) (Vol. 30, No. 1, Jan. 1957)

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



DUDAS, Frantisek; AMERON, Fdenek

Results of the test of inoculating sugar beet piipa from the BMA  
diffusion by lactic acid bacteria cultures. Listy cukrovar 81 no.1:  
13-17 Ja '65.

1. Higher School of Agriculture, Brno. Submitted July 20, 1964.

AMBROZ, Zdenek

Notes on proteolysis determination in the soil. Rost vyroba  
9 no. 7/8; 802-806 J1-Ag '63.

1. Vysoka skola zemedelska, katedra botaniky a mikrobiologie,  
Brno.

AMEROZ, Zdenek; BAJATOVA-TULACKOVA, Emilie

Biologic and humus elements of the soil on which certain meadow plants in the valley of Opava River are growing, and their relation to the locality and vegetation. Prir cas slezsky 23 no.2:161-174 '62.

1. Katedra botaniky a mikrobiologie, Vysoka skola zemedelska, Brno; Botaniicky ustav Ceskoslovenske akademie ved, odbocka Brno.

AMBROZ, Zdenek, in.s., CSc.

Some factors influencing albumin decomposition in soil.  
Rost výroba 9 no.9:891-902 S'63.

1. Vysoka skola zemedelska, agronomicka fakulta, katedra bo-  
taniky a mikrobiologie, Brno.

AMBROZ, Zdenek, inz. CSc.

On the proteolytic complex splitting proteins in soil. Rost  
vyroba 11 no.2:161-170 F '65.

1. Chair of Botany and Microbiology of the Higher School of  
Agriculture, Brno, Zemedelska 1. Submitted November 13, 1963.

BILLEN G. S. S. NIMICH, Jaroslau, AMANZIAR, Torosa

Effect of hormones on the activity of "adrenalin oxidase" in  
the blood serum in vivo. An. univ. Lublin sect. B 19:365-369  
' 64.

1. Katedra i Zakład Patologii (główniej i Doswiadczeń), Wydział  
Lekarski AM w Lublinie (Kierownik: prof. dr. Jarosław Bilłowicz-  
Stankiewicz).

AMERCFAYTIS, K. I.

AMERCFAYTIS, K. I. -- "Clinical-Roentgenological Observations of the Course of Acute Hematogenic Osteomyelitis under Complex Penicillin Treatment." State Sci Res Inst of Roentgenology and Radiology imeni V. M. Molotov. Moscow, 1955. (Dissertation for the Degree of Candidate in Medical Sciences)

SC: Knizhnaya Letopis', No 1, 1956

AMBROZEWICZ, S.

"Inventiveness of workers in special steel mills in 1952." (p.14) "Communique on clothing for students in basic mining and metallurgical schools. (p.19) WIADOMOSCI HUTNICZE (Centralny Zarzad Przemyslu Hutniczego) Stalinogrod. Vol 9, no. 9, Sept. 1953

SO: EAST European Accessions List Vol 4, No 8, Aug. 1954



Ambrozh

CZECHOSLOVAKIA/Microbiology. General Microbiology. F-1

Abs Jour . : Ref. Zhur-Biologiya, No 1, 1957, 483

Author : Ambrozh

Inst :

Title : Possibility of the Utilization of  
Microorganisms to Raise the Productivity  
of our Ponds

Orig Pub : Vesmir, 1955, 34, No 10, 333-334

Abstract : No abstract.

Card 1/1

AMBROZH, Karel [Ambroz, Karel]; PROSHEK, Stanislav [Prosek, Stanislav]

The idea born in our collective. Sov. profsoiuzy 18 no.6:43  
Mr '62. (MIRA 15:3)

1. Predsedatel' komissii okhrany i bezopasnosti truda zavoda  
"Novosvit" v g.Sezimogo Usli (for Ambroz). 2. Chlen komissii  
okhrany i bezopasnosti truda zavoda "Novosvit" v g.Sezimovo  
Usli (for Proshek).  
(Sezimovo Usli--Factories--Safety measures)



AM BROZHIY, M-N

9

Corrosion of lead-sodium alloys. A. H. Shakhelhan and M. N. Ambrozhiil. *Abhandl. Naturwiss. Serator 1, 73-82 (1937)*. The loss of wt. of anodes from two Pb-Na alloys during electrolysis of aq.  $H_2SO_4$ , NaOAc, NaCl,  $Na_2SO_4$ ,  $NaNO_3$ ,  $(NH_4)_2SO_4$  and their mixts. was measured. It is in some solns. less than the loss of wt. of a Pb-Sb anode as used in accumulators. B. C. A.

ASM-SIA METALLURGICAL LITERATURE CLASSIFICATION

|         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
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| SECTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
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AMBROZHIY, M. N.

Ambrozhiy, M. N. "Corrosion of lead and lead sodium alloys  
in sodium hydroxide solutions," Uchen. zapiski (Sarat. gos.  
un-t im. Chernyshevskogo), Vol. XVIII, vyp. khim., 1949,  
p. 146-72, - Bibliog; 22 items

SO: J-4234, 29 Oct 53, (Letopis 'Zhurnal 'nykh statey, No. 10, 1949)

261T24

AMPROZHIY, M. N.

USSR/Chemistry - Rare-Earth Elements

Jul/Aug 52

"The Detection of Certain Rare-Earth Elements When They Occur Together," L.M. Kul'berg and M.N. Ambrozhiy, Saratov State U in Chernyshevskiy.

Zhur Anal Khim, Vol 7, No 4, pp 233-238

Developed method for detecting La, Ce and Pr in the presence of other rare-earth elements, and also for detecting Nd in the presence of Pr and Ce. To detect La phenol red was used as a reagent; to detect Ce phenylanthranilic acid was used; to detect Nd, an equi soln of Ni-dimethylglyoximine; and to detect Pr, O-tolidine was used.

261T24

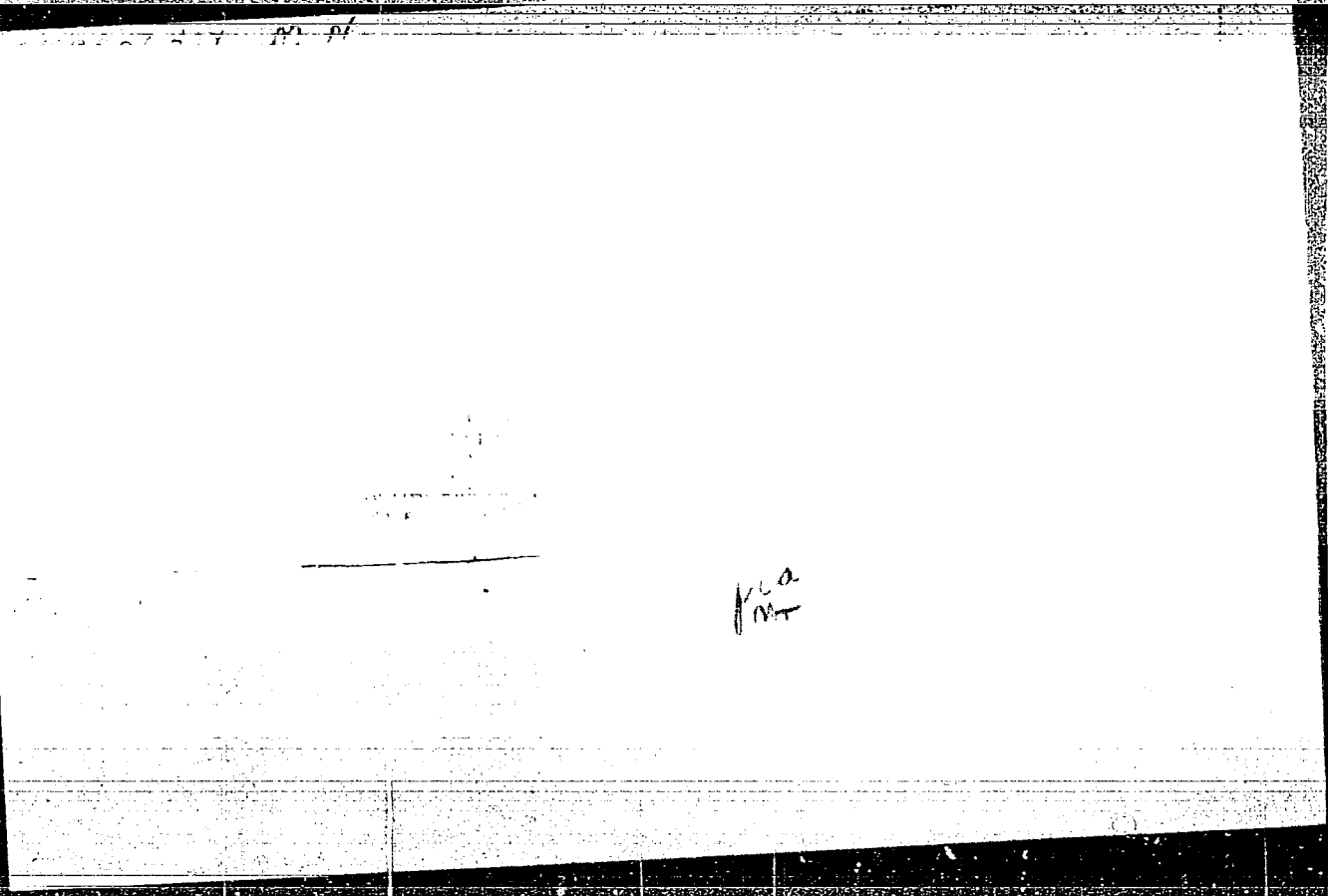
AmBROZHIY, M. N.

2188. A new reaction for the detection of  $\text{Co}^{2+}$  in  
 salts of  $\text{Co}^{2+}$  L. M. Kul'bitskiy and M. N. Ambrozhil  
 (Dept. Anal. Chem., Saratov Univ., SSSR) UCh  
 Zhurnal Anal. Khim. 1955, 42, 43-44. Ref Zhur.

5

the formation of a pale yellow precipitate of  $\text{Co}^{2+}$  in  
 aqueous solution of  $\text{Co}^{2+}$  salts. The reaction is  
 sensitive to the presence of  $\text{Co}^{2+}$  ions. The  
 reaction is carried out in a test tube. The  
 solution is allowed to stand for 1 to 2 min. After  
 with 4-10% of  $\text{Co}^{2+}$  in grey precipitate. The  
 color of the precipitate is pale yellow. The  
 experiment is carried out in a test tube. The  
 precipitate is pale yellow. The sensitivity of the reaction  
 is  $10^{-5}$  g/l of  $\text{Co}^{2+}$  with a limiting amount of 1 in  
 $10^4$

ha  
1955







AMBROZHIY, M. N.

"Chemical Control of the Purity of Compounds of Rare Earth Elements of the Cerium Subgroup."

Rare Earth Elements (Extraction, Analysis, Use), Published by the Institute of Geochemistry and Analytical Chemistry Imeni V. I. Vernadskiy, 1958, Moscow.

(Saratov State Institute Im. N. G. Chernyshevskiy), p. 179-185.

AUTHORS:

Ambrozhiy, M. N., Gol'tsev, A. M.

SOV/156-58-3-21/52

TITLE:

The Direct Determination of Praseodymium in Mixtures With Other Rare Earths' Elements of the Cerite Group (Kosvennoye titrimetricheskoye opredeleniye prazeodima v smesi s drugimi redkzemel'nymi elementami tseriyevoy gruppy)

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya tekhnologiya, 1958, Nr 3, pp. 491 - 494 (USSR)

ABSTRACT:

The suggested method for the quantitative determination of praseodymium in the presence of other rare earths' elements of the cerite group is based on the fact that only praseodymium and cerium of the lanthanides of the cerite group form higher oxides that can be determined titrimetrically. Praseodymium has strong oxidation properties and by means of  $Mn^{2+}$  in sulfuric acid medium it can be determined quantitatively. A method for the determination of praseodymium by means of Mn- II -sulfate by the titration of the permanganate formed with oxalic acid was elaborated. By means of this method it is possible to determine the decomposition of the praseodymium oxide that forms by the thermal decomposition of nitrates and oxalates. It was shown that the praseodymium oxide obtained

Card 1/2

The Direct Determination of Praseodymium in Mixtures  
With Other Rare Earths' Elements of the Cerite Group SOV/156-58-3-21/52

in the thermal decomposition of the nitrates has the formula  $\text{Pr}_2\text{O}_3 \cdot 2\text{PrO}_2$ . The praseodymium oxide produced by the thermal decomposition of the oxalates has the formula  $\text{Pr}_2\text{O}_3 \cdot \text{PrO}_2$ . There are 1 figure, 1 table, and 7 references, 3 of which are Soviet.

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SUBMITTED: February 28, 1958

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