

Author : G. Gerasimovskia  
 Title : Diseases of Farm Animals. Diseases Caused  
 by Viruses and Rickettsiae. R-2  
 Abs. Jour : VZhivot., No. 4, 1959, No. 16830

Author :  
 Title :  
 Abs. Jour :

Orig. Pub. :

Abstract : rated from the bronchopneumonia foci of sick  
 animals, 100% of the vaccinated animals  
 protected while 40% of the artificial and  
 natural infections, whereas the majority of  
 the control animals became sick with BPP (the  
 polymicrobial part of the vaccine acts specifically  
 and also as a non-specific factor).  
 At vaccination, immunity set in on the 10th  
 day, was preserved on the average for 100 days  
 and partly decreased after 3-4 months. It was

Cover: 2/3

Country : Czechoslovakia  
Category : Diseases of Farm Animals, Diseases Caused by Viruses and Rickettsiae. R-2  
Abs. Jour : RZBiol., No. 4, 1959, No. 16830  
Author :  
Institution :  
Title :

Orig Pub. :

Abstract : demonstrated that gamma-globulin which was obtained from swine having had EBP possesses a therapeutic effect against this disease, especially when it is used in a combination with the vitamin B complex. The jelloid-casein vaccine, prepared from 12 microbe strains which were separated from the lungs of sick swine, transmitted to the animals a strong resistance to polymicrobial infection which commonly frequently impairs the bronchi and the lung tissue of piglets. -- L. S. Goberman

Card: 3/3

HARNACH, R.

"Experiments on the vegetative hybridization of Salmonells, Brucella, and Bacillus anthracis."

VESTNIK. Praha, Czechoslovakia, Vol. 5, No. 7/8, 1958.

Monthly List of East European Accessions (ZEAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

MESAROS, E.; PLEVA, V.; HARNACH, R.

Sensitivity of Bacillus anthracis to different antibiotics. Folia  
microbiol 5 no.3:201-203 '60. (EEAI 9:10)

1. Department of Microbiology and Virology, Institute of Veterinary  
Research, Brno.  
(BACILLUS ANTHRACIS)  
(ANTIBIOTICS)

HARNACH, R. (Brno, Czechoslowacja)

Allergy control in tuberculous cattle with FTA-fermented tuberculin,  
and its effect on the course of tuberculosis. Roczn. nauk roln. wet. 70  
no. 1/4: 148-152 '60. (EEAI 10:9)

(Tuberculosis) (Tuberculin)

HARNACH, Z.

Use of procaine in the treatment of arthritis. Acta chir. orthop.  
traum. cech. 19 no.2-3:66-69 1952. (CLML 22:2)

1. Of the Orthopedic Clinic (Head--Prof. B. Frejka, M. D.) of  
Masaryk University, Brno, and of the Orthopedic Department (Head--  
M. Dufek, M. D.) of the State District Hospital in Uherske Hradiste.

HARNACH, Zdenek, MUDr. asistent orthop. klin. v Brne

Contribution to the problem of anesthesia in orthopedic surgery and  
traumatology. Acta chir. orthop. traum. cech. 22 no.1-2:17-20 Feb 55.

(ANESTHESIA

in orthopedic surg. & traumatol.)

(WOUNDS AND INJURIES, surgery  
anesth.)

(ORTHOPEDICS

surg., anesthesia in)

EXCERPTA MEDICA Sec 9 Vol 13/1 Surgery Jan 59

236. INERTIUM - A CZECHOSLOVAK ALLOY WITH THE PROPERTIES OF  
VITALLIUM - Inertium - n55 kov s vlastnostmi vitaku - Haerlich Z.  
Orthop. Klin. MU. Brno - ACTA CHIR. ORTHOP. TRAUM. CECH. 1958,  
25/1 (23-27) Tables 2 Illus. 3

Inertium is an alloy which in composition and properties is about as favourable  
as vitallium. Production techniques have progressed to such a degree that it is  
possible to form this metal into any sort of osteosynthetic material, or endo-  
prosthesis. Biological experiments have shown that inertium behaves like  
vitallium in the receiving tissue, showing the least possible tissue reaction about  
the implant. (IX, 19\*)



HARNACH, Zd.

Remarks of tibia fractures. Acta chir. orthop. traum. cech. 25 no.6:  
433-440 Nov 58.

1. Ortopedicka klinika MU v Brne, prednosta prof. dr. lek. ved B. Frejka  
Z. H., Ortop. klin. MU, Brno, Pekarska 53.  
(TIBIA, fract.  
surg. indic. (Cz))

HARNACH, Zdenek

Transplantation of the hip joint in man. Acta chir. orthop. traum.  
cech. 26 no.4:276-285 Aug 59.

1. Ortopedická klinika v Brně, přednosta prof. dr. lek. ved B. Frejka.  
(HIP, transpl.)

HARNACH, Z.

Extension and rehabilitation sandal for the lower extremity with the control of rotation. Acta chir. orthop. traum. cech. 27 no.1: 96-97 F '60

1. Ortopedická klinika university v Brne, prednosta prof. dr. lek. ved B Frejka.

(ORTHOPEDICS, equip. & supply)  
(LEG wds & inj.)

HARNACH, Z.

Filling of osteomyelitis cavities with homogenous costal cartilage.  
Rozhl. chir. 39 no.4:224-229 Ap '60

1. Ortopedická klinika University v Brne, prednosta prof. MUDr. B.  
Frejka.

(OSTEOMYELITIS, surg.)

(CARTILAGE, transpl.)

HARNACH, Zdenek

Transabdominal intersomatic spondylodesis of the 5th lumbar vertebra in spondylolisthesis. Acta chir.orthop.traum.cech. 27 no.4:336-347 Ag'60.

1. Ortopedická klinika University v Brně, predn.dr.lek.ved.  
B. Frejka.  
(SPONDYLOLISTHESIS surg)

HARNACH, Zdenek

Osteosynthesis in fractures of the femoral neck by valgus introduction of the nail. Rozhl. chir. 40 no.4:262-275 Ap '61.

1. Ortopedicka klinika University J. E. Purkyne v Brne, prednosta prof. B. Frejka, dr. lek. ved.

(FEMUR NECK fract & disloc)

HARNACH, Z.

Experimental contribution to the surgical treatment of scoliosis.  
Acta chir. orthop. traum. cech. 29 no.5:467-471 0 '62.

1. Ortopedická klin. lek. fak. University J.Ev. Purkyne v Brne, predn.  
prof. dr. B. Frejka, DrSc. Chirurgická nemocnice OUNZ Brno - venkov,  
prednosta dr. Vl. Kulisek.

(SCOLIOSIS)

HARNACH, Z.

Surgical release of the extensor apparatus in posttraumatic or postfixation stiffness of the knee joint. Evaluation of Judet's operation on the knee. Acta chir. orthop. traum. cech. 30 no.3:246-252 Je '63.

1. Ortopedická klinika lékařské fakulty UJEP v Brně.  
(KNEE) (LEG INJURIES) (SURGERY, OPERATIVE)  
(TENDONS)



HARNACH, Z.

Vascular changes after the introduction of an intramedullar nail into the femur during the periods of growth and maturity. Rozhl. chir. 44 no.4:164-268 Ap '65.

1. Vyzkumny ustav traumatologicky v Brne (reditel: prof. dr. V. Novak, DrSc).

L 30775-66

ACC NR: AP6020260

SOURCE CODE: RU/0003/65/016/11-/0599/0600

AUTHOR: Harnagea, Fr.; Badilescu, S.

ORG: Chemical Combine, Borzesti (Combinatul Chimic)

38  
B

TITLE: Infrared spectrophotometric determination of n,n-di-n-butyl-chlorobenzene-sulphonamide and p-chlorobenzene-sulphochloride in the presence of bis-(p-chlorobenzene) sulphone

SOURCE: Revista de chimie, v. 16, no. 11-12, 1965, 599-600

TOPIC TAGS: spectrophotometric analysis, IR spectrum, insecticide, sulfone, chlorinated organic compound

ABSTRACT: The authors elaborated a method for the infrared spectrophotometric analysis of the two insecticide substances. The method is accurate to  $\pm 1$  percent for the sulphochloride and  $\pm 2$  percent for the sulphone when analyzing a mixture of the two;  $\pm 1$  percent for the sulphonamide and  $\pm 2$  percent for the sulphone when analyzing a mixture of these two substances. Orig. art. has: 2 figures and 2 tables. [JPRS]

SUB CODE: 20, 06 / SUBM DATE: none

Card 1/1

JS

TRIPA M., ing.; HARNAGEA Gh., ing.

Determining unitary stresses by X-ray. Constr mas 15  
no.4:303-307 Ap '63.

1. Conferentiar la Institutul politehnic, Cluj (for Tripa).
2. Cercetator principal la Institutul de Cercetari pentru Transporturi si Telecomunicatii, Bucuresti (for Harnagea).

МАРАГБА, Георгий ПАВЛ. Мих.

Methods for determining the unitary efforts in parts by the  
aid of roentgen rays. Constr mas 15 no.8:443-447 Ag '64.

L 49205-65 EWP(w)/EPR EM

ACCESSION NR: AP5015378

RU/0018/64/000/008/0443/0447

AUTHOR: Harnagea, Gheorghe ; Tripa, Mihai

TITLE: Methods of determining unitary stresses in parts by means of x-rays

SOURCE: Constructia de masini, no. 8, 1964, 443-447

TOPIC TAGS: x-ray, metal stress, metal physical analysis

Abstract: This paper, the second of a series, describes three different methods for the determination by means of X-rays of a single unitary stress in a metal part. Details of the procedures and calculations are presented. Orig. art. has 6 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, NP

NO REF SOV: 003

OTHER: 008

JPRS

Card 1/1 *12/11*

POPESCU, Iuliu, dr.; POPESCU, Gr., I., dr.; HARNAGEA, P., dr.

Allergic cutaneous manifestations in focal infection. Med. intern.,  
Bucur 12 no.11:1699-1702 N '60.

1. Lucrare efectuata in Institutul de medicina interna, director  
N.Gh. Lupu,  
(INFECTION, FOCAL complications)  
(SKIN diseases) (ALLERGY)

POPESCU, Iuliu; ZAMFIRESCU-GHEORGHIU, Marcela; DOBREANU-ENESCU, Vioreca;  
MAXIMILIAN, Stefania; HARNAGEA, P.

Changes in serum glutathione in cardiac insufficiency. Stud. cercet.  
med. intern. 2 no.3:261-276 '61.  
(HEART FAILURE, CONGESTIVE blood)  
(GLUTATHIONE blood)

HARNAGEA, P.; OLINESCU, R.; SUTIANU, Aurora

The diuretic effect of chlorothiazide in cardiac insufficiency  
and liver cirrhosis. Stud. cercet. med. intern. 2 no.3:377-393  
'61.

(HEART FAILURE, CONGESTIVE therapy)  
(LIVER CIRRHOSIS therapy) (CHLOROTHIAZIDE therapy)



HARIAGEA, P., dr.; Glinescu, R.

The diuretic effect of cyclopenthiazide in hepatic cirrhosis.  
Med. intern. 14 no.1:105-112 Ja '62.

1. Lucrare efectuata in Institutul de medicina interna al Academiei  
R.P.R. si Ministerul Sanatatii si Prevederilor Sociale (Director:  
acad. N.Ch.Lupu).  
(LIVER CIRRHOSIS therapy) (CHLOROTHIAZIDE related cpds.)

DOBREANU-ENESCU, Viorica; HARNAGEA, P.; TEODORINI, Sanda; MOLNER, C.

Clinical, hemodynamic and electrocardiographical effects of prolonged treatment with guanethidine or with combined guanethidine and cyclopentiazide in hypertensive disease. Stud. cercet. med. intern. 4 no.1:57-82 '63.

(HYPERTENSION) (GUANETHIDINE) (BENZOTHIADIAZINES)  
(DIURETICS) (ELECTROCARDIOGRAPHY) (BLOOD CIRCULATION)  
(BLOOD PRESSURE)

... ..  
... ..  
... ..

Immunoserological reactions on the basis of autoexpression  
in evolutionary adaptation to the environment. Dokl. Akad. Nauk. SSSR. Intern.  
5 no. 6: 17-22, 1972.

POPESCU, Iuliu; ZAMFIRESCU-GHEORGHIU, Marcela; DOBREANU-ENESCU, Viorica;  
CIOBANU, Florina; HARNAGEA, P.

Contribution to the study of blood pyruvic acid in cardiac insufficiency.  
Stud. cercet. med. intern. 4 no.2:187-188 '63.  
(HEART FAILURE, CONGESTIVE) (PYRUVATES)  
(BLOOD CHEMICAL ANALYSIS)

DOBREANU-ENESCU, Viorica; TEODORINI, Sanda; HARNAGEA, Petre

Treatment with phenyl-propyl-diphenyl-propyl-amine (Segontin Hoechst)  
in coronary disease. Stud. cercet. med. intern. 4 no.2:243-253 '63.  
(CORONARY DISEASE) (SEGONTIN)

DOBREANU-ENESCU, Viorica, dr.; HARMAGEA, P., dr.; TEODORINI, Sanda, dr.;  
MOLNER, C., dr.

Clinical, hemodynamic and electrocardiographical effects of  
prolonged treatment with guanethidine or with guanethidine-  
cyclopentiazide in hypertensive disease. Med inter 15 no. 5:  
619-624 My '63.

(HYPERTENSION) (GUANETHIDINE) (BENZOTHIADIAZINES)  
(DIURETICS)

HARNAGEA, P.

Treatment of hypertensive emergencies. Stud. cercet. med.  
intern. 5 no.4:359-370 '64.

DOBRFANU-ENESCU, Viorica; TEOLORINI, Sando; HAPNAGEA, P.; VOLPESCU, Sonia;  
IOTA, C.; MOLNER, C.

Value of electrocardiograms in the diagnosis of chronic cor  
pulmonale secondary to chronic bronchitis and obstructive  
pulmonary emphysema. Stud. cercet. med. intern. 5 no.4:  
397-418 '64.



STEINBACH, M.; DOBREANU-ENESCU, Viorica; VULPESCU, Sofia; POPESCU, I.;  
TEODORINI, Sanda; HARNAGKA, P.; CONSTANTINIANU, M.; GEORGESCU, M.;  
CUCU, F.

Methodology of epidemiological investigations in atherosclerosis.  
Stud. cercet. med. intern. 6 no.1:63-66 '65.

HARNAGEA, P.

New data on the etiopathogenesis of essential arterial hypertension. Stud. cercet. med. intern. 6 no.3:243-255 '65.

HARNAJ, V.

HARNAJ, V. Hudromechanical shield. p. 3.

Vol. 7 no. 305, Nov. 1955  
CONSTRUCTORUL  
Bucuresti, Rumania

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

HARNAJ, V.

Filtration through the nonhomogeneous barrages realized with the aid of hydraulic fractionation. Studii cerc mec apl 12 no.4:795-808 '61.

1. Institutul de petrol, gaze si geologie.

(Dams) (Filters and filtration)

HARNICEK, C.

GEOGRAPHY & GEOLOGY

Periodicals: KRASY SLOVENSKA Vol. 36, no. 1, Jan 1959

HARNICEK, C. The 36th Tatra Mountain Climbing Week. p. 11.

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

N  
FURESZ, I.; HARNIK, H.

Intracerebral immunization and antibody formation. Orv. hetil. 94  
no. 42:1159-1162 18 Oct 1953. (CML 25:5)

1. Doctors. 2. Department of Bacteriology (Head -- Dr. Istvan Furesz),  
National Institute of Public Hygiene.

H/ARNIK, Eva, dr.

Surgery of a case of right paraduodenal hernia. *Magy. sebeszet*  
9 no.1:68-73 Feb 56.

1. A Budapesti Orvostudományi Egyetem III. sz. Sebeszeti  
Klinikájának Közleménye.

(HERNIA, INTERNAL

right paraduodenal, surg. (Hun))

RISKO, Tibor, Dr.; HARNIK, Eva, Dr.

Trauma and osteoarticular tuberculosis. Magy. sebeszet 11 no.2:139-143  
Apr-June 58.

(TUBERCULOSIS, OSTEOARTICULAR  
posttraum. (Hun))



HARNIS, Frantisek, inz.

Static calculation of grills. Poz stavby 12 no.5 '93-198 '64.

1. District Building Enterprise, Spisska Nova Ves.

HAROK, Milan, inz.; GOTTFRIED, Kamil, inz.; HAMZA, Zdenek, inz.

Semikilled steel deoxidized in ingot molds. Pt.2. Hut  
listy 19 no.10:693-698 0 '64.

1. Research and Testing Instituts, Nova hut Klementa Gottwalda  
National Enterprise, Ostrava-Kuncice.

L 63303-65 EWP(b)/EWP(t) JD

ACCESSION NR: AFS020840

CZ/0134/64/000/009/0609/0617

17  
13  
BAUTHOR: Marck, Milan (Engineer); Gottfried, Karil (Engineer); Hanzl, Eduard (Engineer)TITLE: Balanced steel deoxidized in the ingot mold. Part I.SOURCE: Hutnické listy, no. 9, 1964, 609-617TOPIC TERMS: steel, metallurgic furnace, metal casting

Abstract [Authors' English summary]: Balanced steel deoxidized in the ingot mold is manufactured in the open hearth furnace by the same technique as rimming steel. Amount of Al used as deoxidizer depends on the amount of O in the heat. The best way of adding Al is to add 1/3 shortly before the ingot teeming is completed, and remaining 2/3 shortly after that. The structure of the mold deoxidized steel ingot consists of the balanced steel surface layer, and the balanced core. The structure is a function of the teeming rate. The steel is nearly as chemically homogeneous as the killed steel grades. Bottom-poured, mold-deoxidized steel gives better surface of the rolled products, and higher yields than rimming steel. Orig. art. has 3 formulas, 9 graphs, and 6 tables.

Card 1/2

L 63303-65

ACCESSION NR: AF9020640

ASSOCIATION: Vysokomy a skusebni ustav NHEG, Kancelie (Research and Control Institute, NHEG)

SUBMITTED: 00

INCL: 00

SUB CODE: 101

NO REF SOI: 000

OTHER: 004

JFIS

Card <sup>KC</sup> 2/2

L 63292-65 EMP(b)/EWT(t) JD

CZ/0034/64/000/010/0693/0698 13

ACCESSION NR: AP5020871

AUTHOR: Harok, Milan (Engineer); Gottfried, Kamil (Engineer); Hantza, Z. (Engineer)

TITLE: Balanced steel deoxidized in the ingot mold. Part II. Properties of steel

SOURCE: Rutnicke listy, no. 10, 1964, 693-698

TOPIC TAGS: steel, cast steel, metal test, tensile stress, pipe, fabricated structural metal

ABSTRACT: An attempt is made to determine the segregation degree of balanced steel billets. Discussed is the scattering of values in tensile tests of tubes and strips made of balance steel, and minimum segregation and dispersion of the tensile test values is found. A comparison of transition temperatures, aging, and weldability showed that balanced steel resembled rimming steel grades, and may be used as its substitute. It can replace killed steel only in exceptional cases. Orig. art. has: 6 graphs, 1 figure, 4 tables.

ASSOCIATION: Vyzkumny a zkusebni ustav NHEK, Ostrava-Kamence (Research and Testing Institute NHEK)

Card 1/2

I. 63292-65

ACCESSION NO: AP5020871

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, AS

NR REF SOV: 001

OTHER: 010

JPRS

steel making

16

Card

44  
2/2

HAROSY, T.

Designing concrete tunnels. p. 39

Magyar Tudományos Akadémia. Műszaki Tudományok Osztálya. KÖSLÉMENYEL.  
Budapest, Hungary, Vol. 23, no. 1/2, 1958.

Monthly list of East European Accessions (EEAI) LC, vol. 8, no. 2, July, 1959.

Uncl.

HAROSY, Teofil, a muszaki tudományok kandidátusa

Earth pressure developing in jointed walls and affecting them.  
Muszaki kozl MTA 28 no.1/4:13-33 '61. (EEAI 10:9)

(Earth pressure) (Walls)



HAROSY, Teofil, a muszaki tudományok kandidátusa

Chamber shafts. Muszaki kozl MTA. 31 no.1/4:331-348 '62.

HAROSY, Feofil, dr. techn., okleveles mernok, a muszaki tudományok kandidátusa

Determination of bridging periods in tunnel constructions by  
means of approximate suppositions. Melyepitestud szemle 15 no.1:  
25-28 Ja '65.

RUBIN/ Human and Animal Morphology. Methods and Techniques of Study 3-2

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 92802

Author : Harovius S.

Inst : -

Title : The Method of Staining the Babes-Negri Corpuscles by Muromtsev's Method

Orig Pub : Probl. veterin., 1957, No 5, 49-51

Abstract : No abstract

Card : 1/1

RUMANIA / Diseases of Farm Animals. Diseases Caused by  
Viruses and Rickettsiae.

R-2

Abs Jour : Ref Zhur - Biol., No 17, 1958, N 78960.

Author : Celan, B.; Haroviuc, S.; Peltechi, M.

Inst : Not given

Title : Combination of an Epizootic of a Contagious Chronic  
Respiratory Disease and Fever of Poultry.

Orig Pub : Probl. zootehn. si veterin., 1958, No 1, 63-64.

Abstract : No abstract given.

Card 1/1

CELAN, B.; HANES, A.; HAROVIUC, S.; HRAPCIUC, A.

Tetrathyridium in turkeys. Comunicarile AR 12 no.5:571-574  
My '62.

1. Laboratorul veterinar regional, Focsani. Comunicare prezentata de I. Popovici, membru corespondent al Academiei R.P.R. .

HAROVIIUC, S.

"Nitrogen metabolism in *Cl. perfringens* of type A and formation of various components of its toxin" by V.A.Iarosenko. Reviewed by S. Haroviuc. *Microbiologia (Bucur)* 6 no.1:87-88 Ja-F '61.

\*

RUMANIA

Dr S. HAROVIUC, Regional Veterinary Laboratory (Laboratorul veterinar regional) Focsani, and Dr V. IONESCU, Veterinary Sector Ciorasti (Circumscripția veterinară) District (raionul) R. Sarat.

"Epizootiology of Spirochetosis in Hens."

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 13, No 4, Apr 63; pp 79-81.

Abstract: Outbreak in summer of 1962 in 3850-bird poultry farm, 15% perished and an additional 13% had to be slaughtered. Spirochetes were found in the peripheral blood; fecal transmission is postulated. "Spirocid", "Spirilizin" (sulfonamides or organic arsenicals?) were both effective. Graph, 5 Rumanian, 1 Soviet and 1 German reference.

1/1

Principles of Shell Moulding Processes, J. Harpala, (Przeegląd  
Olewniczo, 1954, 4, (12), 349-352). [In Polish]. Theoretical  
basis and methods of producing shell moulds from phenol-  
aldehyde resins are described.—V. O.



*Harpula, J.*

*13020* ✓ 13020\* (Polish.) Materials for Making Shell Molds; Properties, Supply Sources, and Preparation. *Materials do sporządzania form skorupowych, własności, odbiór i przygotowanie.* Zdzisław Hertz and Jan Harpula. *Przegląd Oświatczy*, v. 6, no. 6, June 1956, p. 173-175.  
Materials such as sands and resin for shell-mold making; separating and moistening media; methods of making molds; official standards for their use per ton of cast iron.

2

*J*

HARPULA, J.

Harpula J., Wertz Z. The Technology of the Shell Moulding Process.  
"Technologia procesu skorupowego". Przegląd Ocielewnictwa, No. 2,  
1957, pp. 29-36, 3 figs.

4

This article outlines the basic principles of the difference between the technology of the shell moulding process and sand moulding. It discusses the manufacture of pattern plates beginning with documentation, passing through pattern materials, pattern drafts, positioning elements, design, positioning of pla-lits and finally riser systems. The methods of obtaining shells of higher strength are given, as also a description of the detailed work involved in producing shell moulds on the Polish made, non-automated US-03 equipment. This equipment work on the principle of strewing the mixture through a rotating container by means of two pattern plates moving on a straight line track with two branches and two stands for the plates in the heating stove. The closing and pouring of moulds is performed on a clamping device. Finally, a description of the core production is included, and the range of application of shell moulding is discussed.

RM JIM

HARPULA, J. : SMOLKA, B. : WERTZ, Z.

The Economy of the New Shell-Molding Technique and the Problem of its Profitableness, p. 261.

PRZEGLAD ODLEWNICTWA (Stowarzyszenie Techniczne Odlewnikow Polskich)  
Krakow, Poland  
Vol. 9, no. 9, September 1959.

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, No. 11,  
November 1959.  
Uncl.

JANUSZEWICZ, P.; HARPULA, J.

Effect of shell forms on the cooling velocity of cast iron.  
Koh lap 95 no.3: Supplement:Ontode 13 no.3:Mr '62.

Teletext...  
1. Budapesti...  
gato: Gomori, (al. dr.).

HARFACH, V.

"Increase of the productivity of corundum-melting furnaces with the maximum use of electric power" p. 110, (KORHOSZATI LAPOK, Vol. 8, no. 5, May 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, L.C., Vol. 2, No. 11, Nov. 1953, Uncl.

KRAJCSOVICS, Pal, dr.; KOVATS, Sara, dr.; HARRER, Magda, dr.

On possibilities of prevention of well water methemoglobinemia  
in infancy. Role of ascorbic acid in prevention. Gyermekgyógyászat  
15 no.3:85-89 Mr 164

1. Jarasi Korház, Paszto ; igazgato: Csendes Oszkar, dr.

\*

HARRING, P.

Regeneration of the acorn radicle. p. 508. REVISTA PADURILOR. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania si al Ministerului Agriculturii si Silviculturii) Bucuresti. Vol. 70, no. 11, Nov. 1955.

So. East European Accessions List Vol. 5, No. 8 August, 1956



L 33316-66 EWP(c)/EWP(k)/T/EWP(e)/EWP(f)/EWP(v)/EWP(t)/EWP(l)/ETI IJP(c) WH/JD/WW  
ACC NR: AP6024623 SOURCE CODE: RU/0017/65/000/006/0307/0309

AUTHOR: Harro, I. (Engineer)

33  
B

ORG: "Steagul Rosu" Works, Brasov (Uzinele "Steagul rosu")

TITLE: Preparation of spheroidal-graphite cast iron at the 'Steagul Rosu' Works of Brasov

SOURCE: Metalurgia, no. 6, 1965, 307-309

TOPIC TAGS: cast iron, engine crankshaft

ABSTRACT: The authors discuss the use of spheroidal-graphite cast iron for the manufacture of crankshafts and point out the economic advantages resulting from this practice: increased productivity of labor, reduced weight of the finished trucks, and lower cost price. Orig. art. has: 3 figures and 1 table. [Based on author's Eng. abst.] [JPRS]

SUB CODE: 13, 11 / SUBM DATE: none

Card 1/1

UDC: 669.162.275.124.8:621.824.3

0915 22.57

HARS, Ferenc, könyvtarvezeto; KOVACS, Dezso, könyvtarhalozati eloado

An account of the conferences on technical propaganda, Epites szemle 7 no.7:220-222 '63.

1. Epitesugyi Miniszterium Epitesugyi Dokumentacios Iroda.

HARS, I.

✓ 88. Vibration analysis of a reinforced concrete structure.  
T. Litvai, I. Hars, *Magyar Építőipar*, Vol. 4, 1955,  
No. 11, pp. 561-575, 4 figs., 1 tab. 2

*Memo*

Differences in the dynamic behavior of prefabricated and monolithic reinforced concrete structures have been studied. These are mainly due to (a) support and end conditions of the individual structural elements, (b) the possibility of local resonance, (c) the ways and degrees of transfer and (d) the extent of internal damping. Aim of the study was twofold: (1) to check the possibility of deleterious vibrations by control measurements and (2) to derive conclusions for the design of similar structures. Investigations were carried out in the combined machine hall and boiler room of a heat-engine power station. Vibrations were transmitted by a Philips electrodynamic recorder head to a Hungarian-made oscillograph. Investigations were extended to both the assembled structure and individual elements in the precasting yard. The obtained results clearly indicate the difference between the natural frequencies of precast and monolithic structures. In some instances natural frequencies were determined also by computation and were checked against values obtained by measurement.

*em* *2-21*

VILLEMS, Tibor[Willems, Tibor], geolog; KHARSHANI, Allfred [Harsanyi, Alfred], gorn.inzh.

Investigation of geothermal gradient in the Dorog Brown Coal Basin.  
Izvestiia Bany KI no.5:22-32 '61.

VAJAY, Laszlo, okleveles gepeszmernok; HARSANYI, Alfred, okleveles banyamernok

Examination of mining safety appliances by ultrasonic defectoscope.  
Bany lap 97 no.8: 532-534 Ag '64.

1. National Committee on Technical Development, Budapest (for Vajay).
2. Mining Research Institute, Budapest (for Harsanyi).

HARSANYI, Antal

Some ways of implementin the decree on the exploitation of labor produc-  
tivity res rves in the light industry. Munka szemle 5 no.5:1-4 My '61.

HARSANYI, Antal

Experiences with the relative average wage control in the light  
industry. Magy textil 13 no.3:114-117 Mr '61.

HARSANYI, Antal

Remarks about the conference of labor affairs specialists  
in the light industry. Munka szemle 8 no. 6: 27-29  
Je '64.



HARSANYI, Bela, okleveles gepeszmernok

On the self-loading dumper. Ujit lap 12 no.14:20-21 25 J1 '60.

1. Voros Csillag Traktorgyar.

HARSANYI, Gy.; BARANYI, M.; SPIRO, J.

Binding of alkali earth metal ions by actin. Acta physiol. hung.  
Suppl. no.6:71-72 1954.

1. Biochemisches Institut der Medizinischen Universität, Budapest.

(MUSCLE PROTEINS

actin, binding of calcium & magnesium)

(CALCIUM

binding with actin)

(MAGNESIUM

binding with actin)

HARSANYI, I. (Budapest, XI., Stoczek u.2); ZENTAI, B. (Budapest, XI.,  
Stoczek u.2)

State and character of scientific work in industrial economics  
and some of its problems in Hungary. Pt. 2. Periodica polytechn  
electr 7 no. 3:227-245 '63.

1. Lehrstuhl für Industrie-Betriebslehre, Technische Universität,  
Budapest.

HARSANYI, Istvan, Jr.

Psychological methods for getting acquainted with children.  
Magy pszichol szemle 21 no.3:446-452 '64.

1. Institute of Child Psychology of the Hungarian Academy  
of Sciences, Budapest.

HARSANYI, Istvan, dr.

Formation of the number of engineers during the period of the  
second Five-Year Plan. Musz elet 15 no.7:6 Mr '60. (EEAI 9:7)  
(Hungary--Technology)

HARSANYI, Istvan, dr.

On the efficiency of engineering work. Musz elet 15 no.9:5 Ap '60.  
(EEAI 9:8)

(Hungary--Engineering)

HARSANYI, Istvan, dr.

Operational work or developmental work? Musz elet 15 no.15:4  
Jl '60. (EEAI 9:12)  
(Hungary--Machinery industry)

HARSANYI, I.

On the proportions of the work of the engineer-technician. Periodica  
polytechn electr 4 no.4:343-359 '60. (EEAI 10:6)

1. Lehrstuhl für industrielle Betriebswirtschaftslehre, Technische  
Universität, Budapest.  
(Technology)



GEGESI KISS, Pal, dr., akadémikus; RETI, Laszlo, dr.; HARSANYI, Istvan, dr.;  
LIEBERMANN, Lucy P.; GARAI, Laszlo; PERCZEL, Jozsef, dr.; KARDOS,  
Lajos, dr.; MOLNAR, Imre, dr.; HORVATH, Laszlo Gabor, dr.;  
LENARD, Ferenc, dr.; SALAMON, Jenő, dr.

Hungarian achievements in the field of psychology in 1961; also,  
remarks by Laszlo Reti, Istvan Harsanyi, Lucy Liebermann, Laszlo  
Garai, Jozsef Perczel, Lajos Kardos, Imre Molnar, Laszlo Gabor  
Horvath, Ferenc Lenard and Jenő Salamon. Magy pszichol szemle  
19 no.3:274-314 '62.

1. Magyar Tudományos Akadémia Pszichológiai Bizottsága elnöke,  
es "Magyar Pszichológiai Szemle" főszerkesztője (for Gegesi Kiss).
2. "Magyar Pszichológiai Szemle" szerkesztő bizottsági tagja (for  
Liebermann, Kardos, Molnar, Lenard).
3. "Magyar Pszichológiai  
Szemle" technikai szerkesztője (for Lenard).

HARSANYI, Istvan, dr.; G. DONATH, Blanka, dr.

Lessons from the joint application of psychodiagnostic methods  
on the basis of the investigation of teen-age boys and girls.  
Magy pszichol szemle 19 no.4:468-479 '62.

1. Magyar Tudományos Akademia Gyermeklelektani Intezete.

HARGANYI, Istvan

Dr. Laszlo Tulassay, 1897-1965, obituary. Koh lap 92 no.4:188  
Ap '65.

HARSANYI, I. (Budapesti, XI., Sztoczek u.2); ZENTAI, B. (Budapesti,  
XI., Sztoczek u.2)

The state and nature of the industrial economic scientific  
work and some of its problems in Hungary. Periodica polytehn  
electr 7 no.1:75-91 '63.

1. Lehrstuhl für Industrie-Betriebslehre, Technische  
Universität, Budapest.

KOLOS, Richard, egyetemi tanar; FISCHER, Imre; HARSANYI, Istvan, dr., docens, kozgazdasagi tudomanyok kandidatusa; LENGYEL, Karoly, dr., tudomanyos munkatars; BALASSA, Laszlo, foelado; KOZMA, Pal, dr., fokonyvelo; KASPER, Egon, dr.; MACSKASZY, Pal; LUKACS, Laszlo, okleveles elektromernok; SANTA, Balint, dr.

Scientific conference on retraining instrument industry personnel.  
Meres automat 13 no.2/3:66 '65.

1. Secretary General, Council on Science and Higher Education, Budapest (for Kolos).
2. Head, Directorate of Instrument Industry of the Ministry of Metallurgy and Machine Industry, Budapest (for Fischer).
3. Instrument Industry Research Institute, Budapest (for Lengyel).
4. National Price Office, Budapest (for Balassa)
5. Instrument and Business Machine Trading Organization, Budapest (for Kozma).
6. Group Head, Ministry of Finance, Budapest (for Kasper).
7. Directorate of Instrument Industry of the Ministry of Metallurgy and Machine Industry, Budapest (for Santa).

Harsanyi, K.  
-I Dory, K. Harsanyi

Hungarian Technical Abst.  
Vol. 5 No. 2  
1953

562-037-5: 547-16-118

3. Utilization of phosphoric acid esters for the alkylation of phenolic hydroxyl in compounds containing tertiary nitrogen. — Foszforsavészterek felhasználása fenolos hidroxil alkilálására tercier nitrogénes tartalmú vegyületekben. — G. Zempléni, I. Dory, K. Harsányi and K. Schügerl. (Hungarian Journal of Chemistry, *Kémiai Közlemények*) Vol. 5, No. 6, June 1953, pp. 161-164.

Phenolic hydroxyl groups of compounds containing tertiary nitrogen were alkylated with neutral phosphoric acid esters without the alkylation of the tertiary nitrogen atom. Heating the sodium alcoholate solutions of the compounds in a closed vessel at 100 to 120 C for several hours with trimethyl, respectively, triethyl phosphate, the corresponding methoxy, respectively, ethoxy derivatives were obtained in an approx. 50 per cent yield. Thus 1-phenyl-3-methyl-5-hydroxypyrazole was transformed in 1-phenyl-3-methyl-5-methoxy, respectively, 5-ethoxy-pyrazole and 8-hydroxy-quinoline in 8-methoxy, respectively, 8-ethoxy-quinoline. The new derivatives of 3-hydroxy-N-methyl diphenylamine, the 3-methoxy, respectively, 3-ethoxy-N-methyl diphenylamine, were produced and their structure identified.

D. Vasdnyi

Acta Chimica  
Academiae Scientiarum Hungaricas

Vol 13, Nos 3-4, p 377

A NEW ISOQUINOLINE/RING CLOSURE REACTION, I.

D. Eske, K. Harsányi and D. Korbonits

(Institute of Organic Chemistry, Technical University, Budapest)

Received August 27, 1956

Distr: 4E3d/4E2c(j)

S u m m a r y

By reacting cotarnone with aniline in the presence of ethanolic alkali, two different products of reaction could be isolated, depending on experimental conditions. The compound melting at 90° proved to be cotarnone anil, whereas that melting at 121° was found to be 1-ethoxy-2-phenyl-nor-hydrocotarnine. When the reaction is carried out in methanol or n-propyl-alcohol instead of ethanol, the 1-methoxy- and the 1-n-propoxy-derivative, respectively, are obtained. These compounds may reversibly be converted into one another by recrystallizing from the corresponding alcohol. By catalytic hydrogenation all of them are converted into N-phenyl-nor-hydrocotarnine. Treatment with halogen hydrogen acids afforded quaternary ammonium salts which, on reacting with potassium cyanide gave N-phenyl-nor-cotarnine pseudo-cyanide, and with sodium hydroxide the pseudobasis itself.

The authors compare the evolved production of 1-alkoxy-2-phenyl-nor-hydrocotarnines with PIGTET--SPENGLER synthesis of isoquinoline.

Retyped clipped abstract

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KALMAN, HARSANYI

G-3

HUNGARY/Organic Chemistry - Natural Substances and Their  
Synthetic Analogues.

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 21604

Author : Denes Beke, Kalman Harsanyi

Inst : Academy of Sciences of Hungary.

Title : Problems of Cotarnine Derivative Structure. II. Structure of Coupling Products of Cotarnine with Nitrogen Containing Compounds.

Orig Pub : Magyar kem. folyoirat, 1956, 62, No 6, 201-204; Acta chim. Acad. Sci. hung., 1957, 11, No 3-4, 303-307; Zh. obshch. khim., 1957, 27, No 8, 2108-2112.

Abstract : The catalytic hydrogenation of the following coupling products of cotarnine was carried out of Pd: with aniline - hydrocotarnine ("cotarninanyl") (I); with hydroxylamine -  $\beta$  -1-hydrokotarnylhydroxilamine (II); with

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HUNGARY/Organic Chemistry - Natural Substances and Their Synthetic Analogues. "APPROVED FOR RELEASE: 09/19/2001" and "CIA-RDP86-00513R000617910013-3"

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 21604

phenylhydrazine- $\alpha$  -(1-hydrocotarnyl)- $\beta$  -phenylhydrazine (III); with phthalimide - 1-phthalimidohydrocotarnine (IV); and 1-ureidohydrocotarnine (V). In the result of hydrogenolysis of I, hydrocotarnine and aniline (at a yield close to the theoretical) were formed instead of the substituted phenylbenzylamine, which was expected based on the previously assumed structure with an open chain. Analogous products were received also by the hydrogenolysis of II, III, IV and V: hydrocotarnine and the corresponding compound containing nitrogen. I, II, III, IV and V decompose easily under the influence of  $\text{NaHSO}_3$  producing Na salts of hydrocotarnine-1-sulfoacid. These reactions can be explained only assuming that the structure of the above mentioned compounds is a ring structure (A), which is confirmed by the absence of the band of double bond linkage of A with the aromatic nucleus in the ultraviolet

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HUNGARY/Organic Chemistry - Natural Substances and Their  
Synthetic Analogues.

G-3

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 21605

Trimethylamine separates at boiling V with NaOH, and after the acidification of the alkaline solution, 2-vinyl-4,5-methylenedioxy-6-methoxycinnamic acid separates. The conclusion may be arrived at from the above that the formation of IV hydrate proceeds in two stages; first, the iodomethylate of the ring structure is formed, and after that the ring opens under the influence of the HI excess, which is furthered by the presence of active H in  $\alpha$ -position and of the aminogroup in the  $\beta$ -position. The synthesis of III of the cotarnine (VI) and malonic acid does not contradict the ring structure of VI.

Card 4/4

Harsanyi, Kalman

BEKE, DENESH [Beke, Denes]; ~~KHARSHANI~~, KAL'MAN [Harsanyi, Kalman]

Structure of cotarnine derivatives. Part 4: Structure of the  
condensation products of cotarnine and acetone. Zhur.ob.khim.  
27 no.10:2767-2773 0 '57. (MIRA 11:4)

1. Budapeshtskiy politekhnicheskii universitet.  
(Cotarnine) (Acetone) (Condensation (Chemistry))

HUNGARY / Organic Chemistry. Synthetic Organic  
Chemistry.

G

Abs Jour : Ref. Zhur. - Khimiya, No. 15, 1958, No. 50372

Author : Beke, D.; Harsanyi, K.; Korbonits, D.

Inst : -

Title : A New Reaction for Closing of the Isoquinoline  
Ring. I.

Orig Pub : Magyar kem, folyoirat, 1957, 63, #10, 265-268.

Abstract : Exhaustive methylation of cotarine (I) leads to  
the formation of cotarnone (II). Studying the  
reactions of II with various amines, the authors  
succeeded in reacting aniline (A) with an alco-  
holic solution of II and KOH and in separating  
two new substances, anil-cotarnone (IIa), m.p.  
90°, and 1-ethoxy-2-phenyl-nor-hydrocotarnine I  
(2-phenyl-8-methoxy-1-ethoxy) (6,7-methylenedioxy-

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HUNGARY / Organic Chemistry. Synthetic Organic Chemistry. G

Abs Jour : Ref. Zhur. - Khimiya, No. 15, 1958, No. 50372

1,2,3,4-tetrahydroisoquinoline) (Ia), depending on experimental conditions. II was prepared by reacting  $\text{CH}_3\text{I}$  or  $(\text{CH}_3)_2\text{SO}_4$  with I. In both cases (in the latter without separation of an intermediate methylcotarnine methyl iodide) after treatment with a 10 or 20% NaOH 80% yield was obtained, m.p. 72-73° (from alc.). Interaction of 4 g of chem. pure KOH in 6 ml  $\text{H}_2\text{O}$  + 75 ml alcohol, with a mixture of 10.3 g II, 9.2 g A and 75 ml alcohol yielded 8.85 g IIa. (36 hrs, at ~20° (3 days at 0°C). Boiling in pyridine (instead of KOH) the same product was obtained, m.p. 89°. To prove the structure of IIa the latter was hydrated in ethylacetate (EA), over

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HUNGARY / Organic Chemistry. Synthetic Organic Chemistry. G

Abs Jour : Ref. Zhur. - Khimiya, No. 15, 1958, No. 50372

Pd. Dry HCl was introduced into a butanol solution of the residue, obtained by the evaporation of EA. After several days of cooling N-phenyl-(2-methoxy-3-4-methylenedioxy-6-ethyl)-benzylaniline chlorohydrate (III), (88.4% yield, m.p. 167-170°) was obtained. In analogous conditions II yielded dihydrocotarnone (2-methoxy-6-ethylpiperonal) (IV), m.p. 44° (from petr. ether). Heating 10.4 g IV with 4.74 g A and hydrogenation of the resulting Schiff's base in EA yielded 13.07 g III, m.p. 171°. 2.06 g I and 1.86 g A in 30 ml alcohol + 0.4 ml 50% KOH were boiled for 2 hours. In 2 days at 0° 2.3 g Ia were obtained, m.p. 121° (from Alc). In  $\text{CH}_3\text{OH}$  or n- $\text{C}_4\text{H}_9\text{OH}$  corresponding methyloxy and n-propyloxy

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HUNGARY / Organic Chemistry. Synthetic Organic  
Chemistry.

G

Abs Jour : Ref. Zhur. - Khimiya, No. 15, 1958, No. 50372

n-propyloxy derivatives of Ia alkoxy groups can be easily interchanged. For such substitution it is sufficient to recrystallize the compound containing one radical from an alcohol containing a different one. -- S. Rosenfeld.

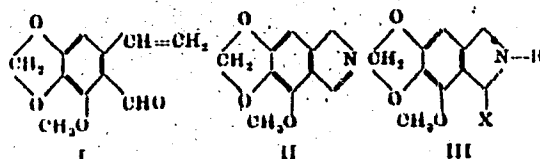
Card 5/5

HARSANYI, K.

7  
 29. A new isoquinoline ring closure reaction. (In German) D. Beck, K. Harsanyi, D. Korbonitz, *Periodica Polytechnica, Chemical Engineering*, Vol. 2, 1958, No. 4, pp. 223-229.

The reactions of various *o*-formyl styrenes with ammonia and amines were studied in alkaline alcoholic medium. Cotarnone (I) was converted by ammonia into norcotarnone (II) while reaction with aliphatic or aromatic amines resulted in the formation of Schiff bases for the derivatives of analogs of cotarnone bearing various alkyl, arylalkyl or aryl groups at the nitrogen atom depending on the conditions of the reaction. In these compounds the O<sub>2</sub> carbon atom bears an alkoxy (IIIa) or arylamino (IIIb) group and an urido (IIIc) or arylamino (IIId) group if urea or alkali cyanide was simultaneously added to the reaction mixture. The isoquinoline derivatives may also be prepared from isolated Schiff bases. Aromatic amines bearing substituents of -I and -T effects formed only Schiff bases (e. g. *p*-aminoacetophenone) or produced no reaction whatever (e. g. *p*-nitroaniline).

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R = alkyl, arylalkyl or aryl  
 X = -OR (a); -NH<sub>2</sub>·Ar (b); -NH-CO-NH<sub>2</sub> (c); -CN (d).  
 In addition to I, cyclization could be carried out in the series of the studied *o*-formyl styrenes only with bromocotarnone. The experiment failed with hydrastal as well as with 4,5-dimethoxy-2-formyl styrene.

HUNGARY / Organic Chemistry. Natural Compounds and Their Synthetic Analogs. G-3

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77831.

Author : Beke, D., Harsanyi, K., and Korbonits, D.  
Inst : Not given.  
Title : A New Type of Isoquinoline Ring Closure Reaction.  
II. A New Synthesis and Chemical Reactions of  
Norcotarnine (6,7-methylenedioxy-8-methoxy-  
3,4-dihydroisoquinoline).

Orig Pub: Magyar Kem Folyoirat, 64, No 3, 118-120 (1958)  
(in Hungarian with a German summary); Acta Chim  
Acad Sci Hung, 16, No 4, 439-444 (1958) (in German  
with summaries in English and Russian).

Abstract: The action of  $\text{NH}_3$  on cotarnone (I) in the presence  
of KOH in alcoholic solution leads to the synthes-  
is of norcotarnine (6,7-methylenedioxy-8-methoxy,

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HUNGARY / Organic Chemistry. Natural Compounds and Their Synthetic Analogs. G-3  
"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000617910013-3"

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77831.

Abstract: 3,4-dihydroisoquinoline) (II). Preparation: A  
solution of 1.03 gm I in 7 ml alcohol, 8 ml of  
alcoholic  $\text{NH}_3$  (0.04 gm  $\text{NH}_3$  per ml), and 0.2 ml  
KOH (1.4 gm KOH / 1 gm water) are heated together  
in a bomb at  $80^\circ$  for 15 hrs; the addition of dry  
HCl to the ether solution of the residue (after  
removal of the solvent) gives a precipitate of  
0.92 gm of the hydrochloride of II which on pur-  
ification with acetone is reduced to 0.87 gm, mp  
 $187^\circ$ ; the base obtained from the latter compound  
by the action of  $\text{Na}_2\text{CO}_3$  has an mp of  $91-92^\circ$  (from  
benzene, bp  $40-100^\circ$ ), picrate mp  $181-182^\circ$ , iodide  
mp  $180^\circ$  (from alc). When 2.05 gms II in 15 ml of  
ethyl acetate are heated with 2 ml  $\text{C}_2\text{H}_5\text{I}$ , 3.29

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HUNGARY / Organic Chemistry. Natural Compounds  
and Their Synthetic Analogs.

G-3

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77831.

Abstract: norcotarnine hydroiodide crystals precipitate, yield 0.518 gm, mp 180-181° (from alc). When a solution of 4.1 gms II in 25 ml alcohol is treated with 25 ml conc HCl and 12 gms Sn and refluxed for 15 hrs over a water bath, the residue remaining after ether extraction is dissolved in 6 ml alcohol (after alkalization with 40% NaOH), and 3 ml 48% HBr and 10 ml acetone are added to the alcoholic solution, 2.3 gms of 6,7-methylenedioxy-8-methoxy-1,2,3,4-tetrahydroisoquinoline are obtained, mp 240° (decomp; from butanol). The dropwise addition of a solution of 4 gms Br<sub>2</sub> in 5 ml CHCl<sub>3</sub> to 1.03 gm II in 20 ml CHCl<sub>3</sub> followed by the decomposition of the perbromide which

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COUNTRY : Hungary G-5  
CATEGORY :  
ABST. SOUR. : RZKhim., No. 5 1960, No. 17967  
AUTHOR : Beke, D., Harsanyi, K., and Korbonits, D.  
INST. : Hungarian Academy of Sciences  
TITLE : A New Isoquinoline Ring-Closure Reaction. III.  
The Reaction of Cotarnone with Aromatic Amines.  
IV. The Reaction of Cotarnone with Aliphatic\*  
ORIG. PUB. : Acta Chim Acad Sci Hung, 19, No 2-3, 259-266, 267-  
272 (1959)  
ABSTRACT : See RZhKhim, 1959, No 22, 78738, 78739.

\* Amines.  
CARD: 1/1

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APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617910013-3"

MAGYAR NYELV, K.: YOLICHT, D.; H.K., D.

"A new isoquinoline-ring-closure reaction. III. Cotarnone reaction with aromatic amines." p. 37.

MAGYAR DEMIAI FOLYOIRAT. (Magyar Kemikusok Egyesulete). Budapest, Hungary, Vol. 65, No. 1, Jan. 1959.

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

COUNTRY : Hungary 6-3  
 CATEGORY :

ABS. JOUR. : RZKhim., No. 22 1959, No. 78739

AUTHOR : Beke, D., Harsanyi, K., and Korbonits, B.  
 : Not given

TITLE : A New Isoquinoline Ring Closure Reaction. IV.  
 : The Reaction of Cotarnone with Aliphatic Amines

ORIG. PUB. : Magyar Kem Folyoirat, 65, No 2, 78-81 (1959)

ABSTRACT : By heating cotarnone (2-vinyl-4,5-methylenedi-  
 hydroxy-6-methoxybenzaldehyde) (I) in alkaline al-  
 cohol with aliphatic amines or with benzylamine,  
 or with the Schiff bases prepared from these  
 amines, in the presence of KCN or CO(NH<sub>2</sub>)<sub>2</sub>, the  
 authors were able to prepare compounds containing  
 the isoquinoline skeleton, i.e., analogs of hydro-  
 cotarnone containing as substituents the CN- or  
 NHCONH<sub>2</sub>-groups at the 1-position. A solution of  
 5.15 gms I in a mixture of 40 ml CH<sub>3</sub>OH and 4 ml

CARD: 1/9

COUNTRY : Hungary 6-3  
 CATEGORY :

ABS. JOUR. : RZKhim., No. 22 1959, No. 78739

AUTHOR :  
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ORIG. PUB. :

ABSTRACT : 50% KOH is treated at 40° with 10 ml 50% aqueous  
 CH<sub>3</sub>NH<sub>2</sub>; when the solution is allowed to stand  
 24 hrs at 0°, 5.12 gms of 2-vinyl-4,5-methylene-  
 dihydroxy-6-methoxybenzilideneazethylamine (II)  
 are obtained, mp 85-87°. On addition to the  
 solution of 1.03 gm I in a mixture of 15 ml  
 CH<sub>3</sub>OH, 4 ml 50% KOH, and 2 ml C<sub>2</sub>H<sub>5</sub>N (40°), fol-  
 lowed by the addition of 0.92 gm benzylamine  
 after about 12 hrs at 0°, 1.55 gm of 2-vinyl-  
 4,5-methylenedihydroxy-6-methoxybenzilideneben-  
 zylamine (IIa) is obtained, mp 70-71° (from

CARD: 2/9

COUNTRY : Hungary  
 CATEGORY :  
 ABS. JOUR. : RZKhim., No. 21 1959, No. 73759  
 AUTHOR :  
 TITLE :  
 ORIG. PUB. :  
 ABSTRACT : cool; 0.71 gm of 1-ureidohydrocotarnine (1-ureido-2-methyl-5,7-methylene-dihydroxy-3-methoxy-1,2,3,4-tetrahydroisoquinoline) is obtained, mp 171°; the compound does not give a depression with the 1-ureidohydrocotarnine obtained by the reaction of CO(NH<sub>2</sub>)<sub>2</sub> with cotarnine (see RZKhim., 1958, No 7, 21604). 1.43 gms IIa under the identical conditions gives 1.30 gm of 1-ureido-2-benzyl-norhydrocotarnine (1-ureido-2-benzyl-5,7-methylene-dihydroxy-3-methoxy-1,2,3,4-tetrahydroisoquino-

CARD: 6/9

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COUNTRY : Hungary  
 CATEGORY :  
 ABS. JOUR. : RZKhim., No. 22 1959, No. 73759  
 AUTHOR :  
 TITLE :  
 ORIG. PUB. :  
 ABSTRACT : line), mp 159-160° (from alc). Following decomposition with HCl (acid), neutralization, and conversion to the isocyanide, the last-named product does not give a depression with the isocyanide obtained from the bromide of N-benzylroscotarnine by reaction with KCN. In studying the ring closure in the presence of semicarbazide, the authors refluxed (water bath) 1.43 gm IIa for 10 min with 10 ml C<sub>2</sub>H<sub>5</sub>OH, 0.6 ml 50% KOH, and 0.65 gm NH<sub>2</sub>CO-NHNH<sub>2</sub>·HCl; after 24 hrs, crystals (1.0 gm) of the

CARD: 7/9

BEKE, Denes; HARSANYI, Kalman; KORBONITS, Dezso

A new isoquinoline ring closure reaction. Pt. 5. Magyar kem  
folyoir 65 no. 8:298-301 Ag '59.

1. Budapesti Muszaki Egyetem Szerves-Kemiai Tanszeke.