

FURY, Mihaly

Portable triangulating pyramids made of aluminum tubes.
Geod kart 16 no.6:455-456 '64.

FURY, Mihaly; PIRITYI, Istvan

The 4th Czechoslovak conference on geodesy. Geod kart 17 no.1;
57-58 '65.

FURY, Mihaly

Terminology of the parts of a 400-circle dividing instrument.
Geod kart 17 no.2:142 '65.

FURY, Mihaly, nyugalmazott erdomernok

Proposal for employing woman specialists. Erdo 13 no.5:220
My '64.

FURZAN, M.D., kand.tekhn.nauk; YAKOVLEV, O.A., inzh.

Effect of the coefficient of the loosening of broken-off ore on
conditions of its drawing. Nauch. soob. IGD 21:32-43 '63.

(MIRA 17:2)

FURZIKOV, I.S., fel'dsher.

How I conduct my home calls. Fel'd. 1 akush. 21 no.10:34-36 0 '56.

(MIRA 9:12)

1. Cherny-Klyuchinskiy meditsinskiy punkt Mariyskoy ASSR.
(PUBLIC HEALTH, RURAL)

FURZIKOV, I.S.
FURZIEOV, I.S., Fel'dsher

How we organize preventive inoculations. Fel'd. i akush. 22 no.11:
42-43 N '57. (MIRA 11:2)

1. Chernoklyuchinskiy meditsinskiy punkt Mariyskoy ASSR.
(VACCINATION)

FURZIKOV, I.S., fel'dsher (selo Orshanka Mariyskoy ASSR)

Public health data registration in rural areas. Fel'd, 1 akush.
25 no.5:45-46 My '60. (MIRA 13:7)
(MARI A.S.S.R.--PUBLIC HEALTH, RURAL)

FURZIKOV, N.

AUTHOR: Furzikov, N.

85-58-2-14/36

TITLE: Reserve Officer is Public Instructor (Ofitser zapasa - instruktor obshchestvennik)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 2, p 15 (USSR)

ABSTRACT: The author describes the career of Ivan Maksimovich Zelenin, Guards Major. A fighter pilot during the last war, he was compelled to retire from the air force for reasons of health in 1955, and became a DOSAAF public instructor and lecturer in Yoshkar-Ola, helping in the establishment of three DOSAAF primary branches in 1957, and assisting in the training of five local groups in anti-aircraft defense. There is one photograph.

AVAILABLE: Library of Congress

Card 1/1

COLOMEI, I., ing.; FUSALAU, I.

Experimentation with the Fapico dehydrating accelerator
on the papermaking machine of the "Comuna din Faris" Paper
and Board Plant. Cel hirtie 13 no.11/12:427-4:9 N-D '64.

FUSAN, OFO

Chemical Abst.
Vol. 48 No. 3
Feb. 10, 1954
Mineralogical and Geological Chemistry

(4)
Sedimentary iron ores in the Wertzen layers of the Zips-Gömler ore deposits. (In ~~Verstrick, Otto Ruzick, and (in Kantor (Slovensk. dšfred. hlav geol. Bratšlava, Slovakia). Geol. Sbornik 3, 133-51(1952)(German summary).~~
—Hematite, assoc. with pyrite, quartz, and an Fe chlorite, occurs disseminated in shale. Chem. analyses of 2 ores are given.
Michael Fleischer

EH
Sept 16, 1954

FUSAN, O.

"Dionys Stur's studies of the Spis-Gemer Ore Mountains." p. 73
(GEOLOGICKY SBORNÍK. Vol. 4, No. 1/2, 1954; Bratislava, Czech.)

So: Monthly List of East European Acquisitions, (EEAL), LC, Vol. 4,
No. 4, April 1955, Uncl..

FUSON, O.T.

CZECH

Micromorphic observations on the "Alibeta" sulfide deposits in Bystř' Potok. (Oto Fušán and Ján Kuncor (Geol. Inst. Slovákia, Bratislava): *Geol. Sborník* 4, 623-81 (in German, 671-84) (Publ. 1954).---A detailed microscopic study with 36 photomicrographs. Pyrite, pyrrhotite, sphalerite, and galena occur with minor arsenopyrite, chalcopyrite, cassiterite, marcasite, tetrahedrite, and Au. The so-called "mineralized S. Lactaria" are described in detail. The evidence indicates that they are of strictly inorg. origin and were formed by the metamorphism of gel.
Michael Fletcher

FUSAN, O.

"The Paleozoic of the Gomerides."

P. 17. (Chesky Lid., Vol 10, No. 3, 1958, Prague, Czechslovakia)

GEOGRAPHY & GEOLOGY

Monthly Index of East European Accessions (EEAI) LC, Vol 7, No. 12, Dec 58

FUSAN, O.

GEOLOGY & GEOGRAPHY

Periodicals: GEOLOGICKE PRACE; ZPRAVY No. 12, 1958

FUSAN, O. Outline of geologic conditions in the Hornad Valley between Kysak and Kosice. p. 34.

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

FUSAN, O. (Chekhoslovakiya)

Stratigraphic and paleogeographic conditions in the upper Paleozoic
of the Western Carpathians. Mat.Karp.-Balk.assots. no.3:50-
52 '60. (MIRA 14:12)

(Carpathian Mountains--Geology, Stratigraphic)
(Carpathian Mountains--Paleogeography)

C.A. FUSCHL, M.

Poppy-ripening processes. Béla Benzer, M. Fuschl, and K. Cs. Nagy (State Chem. Inst., Budapest, Hung.). *Magyar Kem. Lapja* 4, 711 (1949), cf. C. I. 43, 8612J. Poppy heads obtained from seeds of Turkish origin were examined. Av. values for 1000 unripe, green poppy heads and for fully matured yellowish poppy heads were, resp. dry matter 90.6 and 87.7%, wt. % of seeds in head 49.4 and 60.4. Poppy seeds contained dry matter 98.8 and 94.1%, resp. This dry matter contained protein 15.4 and 19.2%, fat 12.0 and 48.0%, and thiamine 1.89 and 3.50 mg %. No changes in alkaloid content of the seeds could be observed during ripening. The alkaloid can be increased by placing white plates around the poppy plants on the field and thus increasing irradiation by sun. The white seeds of unripe poppy heads can be ripened by storing. Increased temp during storage quickens the process. L. Eady.

SOUREK, Karel; FUSEK, Ivo

The syndrome of acute compression of the lumbar spinal cord from the front. Cesk. neur. 24 no.5:295-299 S '61.

1. Neurochirurgická klinika fakulty všeobecného lékařství v Praze,
prednosta prof. dr. Z. Kunc.

(SPINAL CORD wds & inj)

FUSEK, I.

MR. Miller 2

1. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
2. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
3. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
4. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
5. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
6. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
7. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
8. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
9. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
10. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
11. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
12. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
13. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
14. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
15. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
16. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.
17. Pravda, "The Russian Revolution," Vol. 1, No. 6, 1937 (1938), p. 107.

DRAHOZAL, Hypolit; FUSEK, Ivo; SVACINA, Jaroslav

Reticulum cell sarcoma of the spine with the involvement of the
cord. Rozhl. chir. 40 no.11:707-712 N '61.

1. Neurologické oddelení UNV Praha (nacelnik MUDr. Frantisek Pleskot)
a neurochirurgická klinika fakulty vseobecneho lekarstvi Praha-Stresovice
(prednosta prof. MUDr. Zdenek Kunc)

(SPINAL CORD neopl)
(SARCOMA RETICULUM CELL case reports)
(SPINE neopl)

SCOREK, Karel; FUSEK, Ivo

Syndrome of traumatic involvement of the anterior spinal artery in the cervical spine. Rozhl. chir. 40 no.11:718-725 N '61.

1. Neurochirurgická klinika FVL Praha, prednosta prof. dr. Zd. Kunc.

(SPINAL CORD blood supply)

FUSEK, I.; SOUREK, K.

Some considerations on the problem of radical surgery of cerebellar medulloblastoma. *Cesk. neurol.* 25 no.5:313-319 S '62.

1. Neurochirurgická klinika fakulty všeobecného lékařství University Karlovy v Praze, přednosta prof. dr. Z. Kunc.
(MEDULLOBLASTOMA) (CEREBELLAR NEOPLASMS)

CZECHOSLOVAKIA

Major Ivo FUGEK MD, Neurosurgical Clinic (Neurochirurgická klinika)
FVL (abbreviation not identified; Fakulta vojenského lékařství = Faculty
of Military Medicine ?) ÚV "Ústřední vojenská nemocnice - General Military
Hospital," Prague.

"The Neurosurgical Department of the Military Hospital in Budapest."

Prague, Vojenské Zdravotnické Listy, Vol 31, No 6, Dec 62; p 286.

Abstract : Report of things seen during two-week trip in June 1962:
description of facilities of 100-bed military hospital in Budapest,
its staff, & ritual procedures (criticize routine administration of
penicillin and streptomycin to all surgical patients in view of known
frequency of antibiotic-resistant staphylococci); mostly data about
neurosurgical facilities and procedures.

KUNC, Z.; SOUREK, K.; FUSEK, I.

Our experience with the treatment of neuroectodermal tumors of the cerebellum in adolescents. Rozhl. chir. 41 no.3:198-205 Mr '62.

1. Neurochirurgická klinika fakulty všeobecného lékařství Karlovy university v Praze, přednosta prof. MUDr. Z. Kunc.
(BRAIN NEOPLASMS in adolescence) (CEREBELLUM neopl)

VORREITH, M.; FUCHSOVA, M.; FUSEK, I.; SOUREK, K.; FRYC, O.

Evaluation of biological characteristics and prognosis in glioma. Cesk. neurol. 26 no.5:311-316 S '63.

1. Patologickoanatomicke oddeleni UVN v Praze, nacelnik MUDr.
M. Vorreith, CSc. Neurochirurgicka klinika fakulty vseobec-
neho lekarstvi KU v Praze, prednosta prof. dr. Z. Kunc, DrSc.
(GLIOMA) (NEUROSURGERY) (STATISTICS)
(PROGNOSIS)

FUSEK, I.

Concentration of the antibiotic tetracycline in brain tumors.
Cesk. neurol. 26 no.5:321-324 S '63.

I. Neurochirurgicka klinika fakulty vseobecneho lekarstvi KU
v Praze, prednosta prof. dr. Z. Kunc, DrSc.
(BRAIN NEOPLASMS) (TETRACYCLINE)
(CHLORTETRACYCLINE) (BLOOD CHEMICAL ANALYSIS)

FUSEK, I.

History, current status and perspectives of neurosurgery
in the Hungarian People's Republic. Rozh. chir. 42 no.9:
643-648 S '63.

1. Neurochirurgická klinika fakulty všeobecného lékařství KU
v Praze, přednosta prof. dr. Z. Kunc.
(NEUROSURGERY) (MILITARY MEDICINE)
(RESEARCH)

VLADYKA, V.; FUSEK, I.; BRET, J.

Orbital angiography. Sborn. lek. 65 no.8/9:225-229 Ag '63.

1. Neurochirurgická klinika fakulty všeobecného lékařství
University Karlovy v Praze, přednosta prof. dr. Z. Kunc
Rentgenologické oddělení Ústřední vojenské nemocnice v Praze,
vedoucí MUDr. F. Sykora.

(ANGIOGRAPHY) (ORBITAL NEOPLASMS)
(HEMANGIOMA) (EXOPHTHALMOS)
(VASCULAR DISEASES) (ORBIT)

VORREITH, M.; FUCHSOVA, M.; SOUREK, K.; FUSEK, I.; FRYC, O.

Central nervous system tumors in young men. Cas. lek. cesk. 102
no.44:1202-1206 1 N '63.

1. Patologickoanatomicke oddeleni UVN v Praze, (nacelnik MUDr.
M. Vorreith, CSc.); Neurochirurgicka klinika fakulty vseobecneho
lekarstvi KU v Praze a Ustredni vojenska nemocnice, (prednosta
prof. dr. Z. Kunc, DrSc.)

VORREITH, M.; FUCHSVA, M.; DEMCIK, K.; FUSEK, I.

Spinal cord tumors and tumors causing spinal cord compression.
Cesk. neurop. 27 no.6:372-378 N 164.

1. Patologickoanatomicke oddeleni UNV v Praze, (vedouci doc.
dr. M. Vorreith CSc.) Neurochirurgicka klinika fakulty vseobecneho
lekarstvi Karlovy University v Praze (prednosta prof. dr. Z. Kunz,
I. doc.).

FUSEK, I.

Diastematomyelia. Rozhl. chir. 44 no.9:661-666 S '65.

1. Neurochirurgická klinika fakulty všeobecného lékařství
Karlovy University v Praze (prednosta prof. dr. Z. Kunc,
DrSc.).

KRIVSKIY, I. Yu. [Kryvs'kyi, I. IU.]; LOMADZE, Yu.M.; FUSHCHICH, V.I.;
KHIMICH, I.V.

.Problem of theradiative decay of a π -meson. Ukr. fiz. zhur. 5
no.6:777-780 N-D '60. (MIRA 14:3)

1. Uzhgorodskiy gosudarstvennyy universitet.
(Mesons—Decay)

S/058/61/000/010/006/100
A001/A101

AUTHORS: Lomsadze, Yu. M., Lend'yel, V. I., Krivskiy, I. Yu., Fushchich, V.I.,
Khimich, I. V., Lukin, L. P., Ernst, B. M.

TITLE: On applying modified perturbation method to interpretation of nucleon
scattering

PERIODICAL: Referativnyy zhurnal. Fizika, no. 10, 1961, 25, abstract 10A257
(V sb. "Probl. sovrem. teorii elementarn. chastits", no. 2, Uzh-
gorod, 1959, 211-216, Engl. summary)

TEXT: Differential effective cross sections for all types of NN-scatter-
ing have been determined in the first non-vanishing approximation of the modified
perturbation method (consisting in a special summation over all simplest baryon
loops inserted into internal \bar{K} -meson lines of the Feynman 2nd-order graphs);
assumptions are made on existence of scalar \bar{K} -mesons and violation of charge
independence of nuclear forces at high energies. The cross sections calculated
for the range 100 - 600 Mev agree sufficiently well with experimental data.
Thereby the results of the preceding study (abstract 10A256) are additionally
substantiated. An interesting possibility is discussed that at sufficiently

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S/058/61/000/010/006/100
A001/A101

On applying modified perturbation ...

great coupling constant, the scattering cross section may be completely independent of its value.

[Abstracter's note: Complete translation]



Card 2/2

FUSHCHICH, V.I. (Kiyev)

Analytic properties of production amplitudes in a single-particle approximation as a function of two variables. Ukr. mat. zhur. 15 no.2:227-232 '63. (MIRA 16:9)

L 12455-65 EWT(L) AFWL/ESD(t)/ASD(a)-5
 ACCESSION NR: APL4047519

S/0041/64/016/005/0610/0623

AUTHORS: Kolomytsev, V. I. (Kiev); Fushchich, V. I. (Kiev)

TITLE: Analytic property of scattering amplitudes corresponding to a class of Feynman diagrams ¹³

SOURCE: *Ukrainskiy matematicheskiy zhurnal*, v. 16, no. 5, 1964, 610-623

TOPIC TAGS: Feynman diagram, complex variable, singular function, scattering amplitude

ABSTRACT: The analytic property of Feynman amplitudes was studied. In the first part of the analysis a theorem is obtained proving the absence of complex singularities in a Feynman scattering amplitude of a specific type. In the second part a class of diagrams is considered where the scattering amplitude satisfies the theorem derived above. The Feynman amplitude is given by

$$F(s, t) = \int \prod_{l=1}^n da_l \delta \left(1 - \sum_{l=1}^n a_l \right) \frac{(C(a))^p}{(D(a; s, t))^r}$$

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L 12455-35
 ACCESSION NR: APL4047519

0

where $D(\alpha; s, t) = f(\alpha)s + g(\alpha)t - K(\alpha; m_i^2, M_i^2)$

satisfying the conditions

$$f(\alpha) = \alpha_n f_1(\alpha_{n-2}) > 0,$$

$$g(\alpha) = \alpha_{n-1} g_1(\alpha_{n-2}) > 0,$$

$$-K(\alpha; m_i^2, M_i^2) = \alpha_n \alpha_{n-1} k_1(\alpha_{n-2}) M_i^2 + \alpha_n k_2(\alpha_{n-2}, m_i^2, M_i^2) + \alpha_{n-1} k_3(\alpha_{n-2}, m_i^2, M_i^2) + k_4(\alpha_{n-2}, m_i^2, M_i^2).$$

In order to show that for $\Re_j^2 \leq 0$, the function $F(s, t)$ has no complex singularities in either variable s and t , the analytic nature of the integrand

$$\phi(\alpha; s, t) = \int_0^{\sum_{i=1}^{n-2} \alpha_i} da_{n-1} \frac{1}{(c_{n-1} a_{n-1}^2 + 2b_{n-1} a_{n-1} + a_{n-1})^r}$$

is examined over the Landau surface

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$$\Delta_{n-1} = (2b_{n-1})^2 - 4c_{n-1}a_{n-1} = 0.$$

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 ACCESSION NR: AP4047519

in seven different domains in the plane of the real variables s, t . The following lemma is then obtained: $\Phi(\alpha; s, t)$ has only real singular points at any α in the integration domain

$$F(s, t) = \int \frac{\prod_{i=1}^{n-1} da_i (C(a))^p}{(c_{n-1}a_{n-1}^2 + 2b_{n-1}a_{n-1} + a_{n-1})^r}.$$

From this lemma a theorem is formulated which states: the Feynman amplitude, as given above and satisfying conditions 3-5 at $K_j^2 \leq 0$, forms an analytic function in s and t in the domain of two arbitrary planes with the exclusion of a branch cut along the real axis

$$s_1 = \text{Im } s = 0, \quad s_0 \leq \text{Re } s < \infty; \quad t_1 = \text{Im } t = 0, \quad t_0 \leq \text{Re } t < \infty.$$

These results are applied to a Feynman diagram of fourth order (see Fig. 1 on the Enclosure) where $f(\alpha)$ and $g(\alpha)$ of the quadratic discriminant D are represented by

$$f(\alpha) = a_n f_1(a_1, \dots, a_{n-2}),$$

$$g(\alpha) = a_{n-1} g_1(a_1, \dots, a_{n-3}).$$

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ACCESSION NR: AP4047519

Furthermore, it is shown that D itself can be represented by

$$D(a; s, t) = a_n f_1(a_{n-2}) s + a_{n-1} g_1(a_{n-2}) t + a_n a_{n-1} k_1(a_{n-2}) M_3^2 + \\ + a_n k_2(a_{n-2}, m_i^2, M_i^2) + a_{n-1} k_3(a_{n-2}, m_i^2, M_i^2) + k_4(a_{n-2}, m_i^2, M_i^2),$$

and consequently that the part contributing to the scattering amplitude satisfies all the conditions of the theorem derived in part one. The analysis is then extended to a Feynman diagram of order six. Orig. art. has: 49 equations and 4 figures.

ASSOCIATION: none

SUBMITTED: 07Dec63

ENCL: 01

SUB CODE: MA, GP

NO REF SOV: 002

OTHER: 004

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L 12455-65

ACCESSION NR: AP4047519

ENCLOSURE: 01

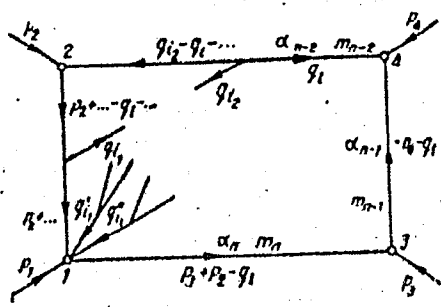


Fig. 1. Feynman diagram.

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FUSHCHICH, V.I. [Fushchych, V.I.]

Analytic properties of production amplitudes and Chew -
Low's method. Ukr. fiz. zhur. 9 no.3:277-282 Mr '64.
(MIRA 17:9)

1. Institut matematiki AN UkrSSR, Kiyev.

KOLOMITSEV, V.I (Kiyev); FUSHCHICH, V.I. (Kiyev)

Analytic properties of the scattering amplitude corresponding to a
class of Feynman diagrams. Ukr. mat. zhur. 16 no.5:610-623 '64.
(MIRA 17:10)

1. 6475-66 EWT(d) IJP(c)

AFC NR: AP5025251

SOURCE CODE: UR/0389/65/002/004/0157/0160

AUTHOR: Fushchich, V. I. 44, 52

ORG: none

TITLE: Unitary symmetry and the Poincare group 14, 44, 55

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu (Prilozheniye), v. 2, no. 4, 1965, 157-160

TOPIC TAGS: group theory, Lie group, algebra

ABSTRACT: For the purpose of ascertaining whether a union of the Poincare group P with the group of internal symmetries, S (simple Lie group) is trivial or not the author derives the conditions under which an algebra, containing in addition to the generators of the algebras P and S also additional generators, is a trivial union of P and S. It is proved that if the generators of the algebra G are the generators of the algebras P and S. and also the generators of H_l^i and E_v^i , satisfying the conditions

$$[H_l^i, H_m^i] = 0 \quad (l, m = 1, 2, \dots, k),$$

$$[E_\gamma^i, E_\nu^i] \neq 0 \quad (\gamma, \nu = 1, 2, \dots, r)$$

then $[E_\alpha, P_\rho] = 0$, i.e., the union of G will be physically trivial and no mass formula

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ACC NR: AP5025251

can be obtained in any one of the following three cases:

$$1. \quad [H_j, H_l] = A_{jl}^m H_m, \quad [P_\rho, E_\gamma] = B_{\rho\gamma}^v E_v, \quad [E_\gamma, E_\alpha] = 0$$

$$2. \quad [E_\gamma, H_l] = D_{\gamma l}^v E_v, \quad [P_\rho, H_l] = C_{\rho l}^m H_m, \quad [H_l, E_\alpha] = 0$$

3. If there exists in G at least one generator of H_l which commutes with the generators of P and S, then in this case, too, $[E_\alpha, P_\rho] = 0$. Orig. art. has: 15 formulas.

SUB CODE: MA/ SUBM DATE: 03Jun65/ ORIG: REF: 001/ OTH REF: 004

nw

Card 2/2

FUSCHS, E.G.

Determination of the residual austenite content in hardened steels
by X-ray diffraction analysis. Acta techn Hung 32 no.3/4:389-414 '61.
(EAI 10:6)

1. Eisenforschungsinstitut, Budapest.
(Steel) (Austenite) (X rays)

VLADYKA, V.; FUSEK, I.

Stereotactic surgical treatment of chronic choreatic hyperkinesia.
Cas. lek. cesk. 102 no.44:1213-1216 1 N '63.

1. Neurochirurgická klinika fakulty všeobecného lékařství KU v
Praze a Ustřední vojenská nemocnice, (prednosta prof. dr. Z. Kunc,
DrSc.)

*

FUSEK, I.

Penetration of tetracycline through the hemato-encephalic barrier.
Cas. lek. cesk. 102 no. 44:1225-1228 1 N '63.

1. Neurochirurgická klinika fakulty všeobecného lékařství KU v
Praze. Prednosta prof. dr. Z. Kunc, DrSc.

FUSHCHIN, V.I. [Fushchyn, V.I.]

Analytic properties of generalized loop diagrams. Dop. AN URSR no.1:7-9
'64. (MIRA 17:2)

1. Institut matematiki AN UkrSSR. Predstavleno akademikom AN UkrSSR Yu.
A.Mitropol'skim [Mytropol's'kyi, IU.O.].

FUSHMAN, E.A.; TSVETKOVA, V.I.; CHIRKOV, N.M.

Special features of catalytic polymerization of ethylene of the system $(C_2H_5)_2TiCl_2 - Et_2AlCl$ and $(C_2H_5)_2TiCl_2 - Et_3Al$ in an alkyl chloride medium. Dokl. AN SSSR 167, no.5:1085-1088 0 '65.

(MIRA 18:10)

1. Institut Khimicheskoy fiziki AN SSSR. Submitted March 17, 1965.

E 11707-66 EWT(m)/EWP(j)/T RM

ACC NR: AP6002104 (A)

SOURCE CODE: UR/0062/65/000/011/2075/2077

AUTHORS: Fushman, E. A.; Tsvetkova, V. I.; Chirkov, N. M. 35 BCRG: Institute for Chemical Physics, Academy of Sciences, SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR) XTITLE: Polymerization of ethylene by the system $(C_5H_5)_2TiCl_2 - AlEt_3$ in 1,2-dichlorethane solution

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 11, 1965, 2075-2077

TOPIC TAGS: polymer, polyethylene, catalytic polymerization, titanium compound

ABSTRACT: The effect of the catalytic system $(C_5H_5)_2TiCl_2 - AlEt_3$ in 1,2-dichlorethane solution on the polymerization of ethylene was studied to extend the previously published work by the authors (Dokl. AN SSSR. 164, 1085, 1965). The experimental procedure was identical to that reported by I. N. Meshkova, G. M. Bakova, V. I. Tsvetkova, and N. M. Chirkov (Vysokomolekul. soyedineniya. 10, 1516, 1961). The influence of the ethylene concentration and of the catalyst composition and concentration on the yield and molecular weight of the polyethylene was investigated. Experimental results are presented in graphs and tables (see Fig. 1). It was found that this catalytic system polymerized ethylene at a high rate of polymerization. The activity of the system is mainly determined by the molar ratio of

Card 1/2

UDC: 542.952+541.127

2

L 14707-66

ACC NR: AP6002104

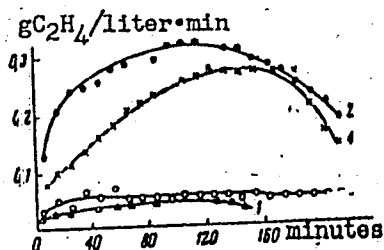


Fig. 1. Change of the catalytic activity of the system $(C_5H_5)_2TiCl_2 - AlEt_3$ in time for different concentrations of $(C_5H_5)_2TiCl_2$ and $AlEt_3$ at 20C. Solvent - 1,2-dichloroethane, $P_{C_2H_4} = 390$ mm Hg. 1 - $[(C_5H_5)_2TiCl_2] = 1.2 \times 10^{-3}$ M. Al:Tl = 3.3:1; 2 - $[(C_5H_5)_2TiCl_2] = 1.2 \times 10^{-3}$ M. Al:Tl = 13.5:1; 3 - $[(C_5H_5)_2TiCl_2] = 0.32 \times 10^{-3}$ M. Al:Tl = 12.5:1; 4 - $[(C_5H_5)_2TiCl_2] = 0.32 \times 10^{-3}$ M. Al:Tl = 3.75:1.

$(C_5H_5)_2TiCl_2:AlEt_3$. The molecular weight of the polyethylene increases with increase in the concentration of monomer, is practically independent of the initial concentration of $(C_5H_5)_2TiCl_2$, and decreases with increase in the initial concentration of $AlEt_3$. Orig. art. has: 1 table and 1 graph.

SUB CODE: 07/ SUBM DATE: 01Apr65/ ORIG REF: 003/ OTH REF: 003
 BVK
 Card 2/2

L 9822-66 EWT(m)/EWP(J)/T RM

ACC NR: AF5026990

SOURCE CODE: UR/0020/65/164/005/1085/1088

AUTHOR: ^{44.5}Fushman, E. A.; ^{44.5}Tsvetkova, V. I.; ^{44.5}Chirkov, N. M.; ^{44.5}Doloplosk, B. A.
(Academician)

44.5
44
41
B

ORG: IKHFANS

ORG: ^{44.5}Institute of Chemical Physics, AN SSSR (Institut khimicheskoy fiziki AN SSSR)

TITLE: Peculiarities of ethylene polymerization catalysis with the use of the systems $(C_5H_5)_2TiCl_2-Et_2AlCl$ and $(C_5H_5)_2TiCl_2-Et_3Al$ in alkyl chlorides media

SOURCE: AN SSSR. Doklady, v. 164, no. 5, 1965, 1085-1088

TOPIC TAGS: ethylene, polymerization catalysis, titanium

ABSTRACT: The use of solvents containing an active Cl atom, such as $(CH_2Cl)_2$, $EtCl$, or CH_2Cl_2 for polymerization of C_2H_4 with the title systems (I) and (II), respectively, results in reactivation of the complexes that become practically inactive during the process. Kinetic curves for polymerization of C_2H_4 in various

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UDC: 542.973-541.6

L 9822-66
ACC NR: AF5026990

3.

solvents in the presence of (I) indicate that in C_6H_6 or $PnCl$ the system is deactivated within 1 hour, owing to reduction of $Ti(IV)$ to $Ti(III)$. With (II) this reduction occurs very fast and there is practically no polymer formed. In the same conditions but with alkyl chlorides as solvents, the activity of (I) and (II) remains unchanged for long periods. As a result, the yield of polyethylene is much higher, no significant change of the molecular weight occurs, and the degree of branching remains low. The author thanks Academician A. N. Nesmeyanov for laboratory assistance. Orig. art. has: 4 figures and 2 tables. 44,55

SUB CODE: 07/ SUBM DATE: 25Feb65/

NR REF SOV: 007/ OTHER: 004

2/2

L 13409-66

ACC NR: AP6007050

SOURCE CODE: HU/0018/65/017/003/0317/0321

AUTHOR: Benyo, Imre--Bene, I.; Mitsanyi, Attila--Michani, A.; Fusi, Jozsef--
Fyushi, Y.; Gorgo, Pal--Gerge, P.; Ludany, Gyorgy--Ludan', D. 30
R

ORG: Medical University of Budapest, II. Surgical Clinic and Experimental
Research Laboratory (Budapesti Orvostudományi Egyetem, II. sz. Sebészeti Klinika
és Kísérleti Kutató Laboratorium)

TITLE: Effect of lowering of the pH in the duodenum on hepatic blood flow

SOURCE: Kísérletes orvostudomány, v. 17, no. 3, 1965, 317-321

TOPIC TAGS: dog, drug effect, pharmacology, digestive system, liver,
hydrochloric acid, blood pressure, blood circulation

ABSTRACT: In dogs under chloralose anesthesia, it was determined by means of Hensel's heat-conduction catheter that the hepatic blood flow increases by a mean value of 21 per cent upon the injection of 2.5-3.0 ml/kg of an 0.35 per cent HCl solution into the duodenum. The effect disappears in 5-16 minutes during which period there is a slight but definite drop in blood pressure. The renal blood flow remains unchanged. The intraduodenal administration of physiological saline solution produces no similar effect. The mechanism and clinical aspects of the phenomenon are referred to briefly. The authors thank Gyula Szilassy, Varga Lajos,

Card 1/2

2

L 13409-66

ACC NR: AP6007050

and Marie Fekete for assistance with the technical work. Orig. art. has:
1 figure and 2 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: 12Aug64 / ORIG REF: 004 / OTH REF: 013

Card 2/2

FUSI, Lajos, egyetemi adjunktus

Theoretical and methodological questions of the Hungarian geomorphological map making. Geod kart 14 no.5:342-346 '62.

1. Eotvos Lorand Tudományegyetem, Budapest.

FUSIAN, Boleslaw

Lublin Province agriculture and the share of the Association of Engineers and Technicians of Agriculture in its development. Przegl techn 85 no.28;5 12 J1'64.

1. Chairman of the Executive Board of the Lublin Branch of the Association of Engineers and Technicians of Agriculture.

FUSKA, J.; KUHR, I.; PODOJIL, M.; SEVCIK, V.

The influence of the nitrogen source on the production of
gibberillic acid in submerge cultivation of *Gibberella Fujikuroi*.
Folia microbiol 6 no.1:18-21. '60. (KEAI 10:5)

1. Biotika, Slovenska Lupca. 2. Department of Microbiology, Institute
of Biology, Czechoslovak Academy of Sciences, Prague.
(NITROGEN) (GIBBERILLIC ACID) (GIBBERELLA FUJIKUROI)

KUHR, I.; FUSKA, J.; PODOJIL, M.; SEVCIK, V.

Factors affecting the production of various gibberellins during submerged cultivation of *Gibberella fujikuroi*. *Folia microbiol* 6 no. 3:179-185 '61. (EEAI 10:8)

1. Biotika, Slovenska Lupca, and Department of Microbiology, Institute of Biology, Czechoslovak Academy of Sciences, Prague. (GIBBERELLIN) (GIBBERELLA FUJIKUROI)

PODOJIL, M.; SEVCIK, V.; KUHR, I.; FUSKA, J.

Isolation of gibberellic acid by means of ion exchange resins.
Folia microbiol 6 no.4:273-276 '61.

1. Department of Microbiology, Institute of Biology, Czechoslovak
Academy of Sciences, Prague 6 and Biotika, Slovenska Lupca.

(GIBBERELIC ACID) (ION EXCHANGE)

FUSKA, Jan, ina.; HRONSKA, Helena

Effect of wetting agents on the production of penicillin V.
Chem zvesti 17 no.3:170-176 '63.

l. Biotika, n.p., Vvojove laboratoria, Slovenska Lupca.

FUSKA, Jan, inz.; KUHR, Ivo, promovany chemik; BENDA, Antonin, inz.;
IVANOV, Leonid

Use of sugar-beet molasses for the fermentation of penicillin.
Chem zvesti 17 no.8:533-541 '63.

1. Biotika, n.p., Slovenska Lupca.

MAKA, Y. [Maka, J.]; KURR, U. [Kurr, I.]; TILLER, Y. [Tiller, ...]

Effect of nitrogen compounds contained in wheat flour on the quality of gibberellin produced by the submerged cultivation of *Gibberella fujikuroi* (Saw.) Wb. *Mikrobiologiya* 33 no.5:783-786 S-O '64. (MIRA 18:3)

I. Biotika, issledovatel'skiye laboratorii, Slovenska kmetstva, Cechoslovatskaya Sotsialisticheskaya Federatsiya.

1, 7041-00

ACC NR: AP6001102

SOURCE CODE: CZ/0043/65/000/002/0120/0125

AUTHOR: Fuska, J.⁶⁵ --Fuska, Ya. (Engr.); Sulo, S.⁶⁵ --Shulo, Sh. (Pharmacist)

29
31

ORG: Biotika National Enterprise, Slovenska Lupca (Biotika, n.p.)⁶⁵

TITLE: Fermentation of riboflavin⁶⁵ using bactericidal and fungicidal substances

SOURCE: Chemické zvesti,¹⁹⁻ no.2, 1965, 120-125

TOPIC TAGS: vitamin, biochemistry, fermentation, bactericide, fungicide, microbiology

ABSTRACT: 12 contaminating organisms were isolated from riboflavin media, and from the apparatus used for biosynthesis of riboflavin. By a diffusion test the sensitivity of the isolated microorganisms on 7 selected media was determined. Nitrofuranes, either by themselves or with penicillin suppress the development of the contaminants, without however influencing the production of riboflavin, Orig. art. has 3 tables.

[JPRS]

SUB CODE: 06 / SUBM DATE: 04 Nov 64 / ORG REF: 006 / OTH REF: 007

80

Card 1/1

FUST, Laszlo, okleveles villamosmérnök

Semiconductor remote control systems. Elektrotechnika 56
no.1/2:39-44 F '63.

1. Villamos Energetikai Kutató Intézet tudományos munkatársa,
Budapest, VI., Rudas Iászló u.27.

FUSTANOVICH, V. H.

Call Nr: TN 705.R8

AUTHOR: Ministerstvo tyazhelogo mashinostroyeniya SSSR.
Tekhnicheskiy otdel

TITLE: Metallurgical Equipment (Metallurgicheskoye oborudovaniye)

PUB. DATA: Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo
mashinostroitel'noy literatury, Moscow, 1947, Part III,
299 pages, 4,000 copies

ORIG. AGENCY: Ministerstvo tyazhelogo mashinostroyeniya SSSR

EDITOR: Fustanovich, V.A.; Scientific Editor: Tselikov, A.I.;
Compilers of Part III: Revin, I.A.; Chayka, V.Kh.

PURPOSE: The purpose of this publication is to acquaint a wide
circle of engineers, technicians, planners, etc., connected
with metallurgical plants, of machine designers and pro-
duction engineers, as well as the students of higher and
other technical schools, with the design and types of

Card 1/5

Call Nr: TN 705.R8

Metallurgical Equipment (Cont.)

metallurgical equipment produced under the authority of the Ministry of Heavy Machinery Construction.

COVERAGE:

This book has a dual function, being both a catalog and a reference book. It lists, according to a generalized and systematic scheme, the basic assortment of equipment produced by plants of the Ministry, as well as the engineering data on 347 types of machinery and automatic equipment of standard size, and found satisfactory in operation as based on the production records for the years preceding World War II of the Soviet plants which are listed below. The present volume is Part III of a three-part publication, whose separate sections deal with the following equipment: I, Crushing and Grinding, Sintering, Blast-Furnace and Steelmaking Equipment; II, Cranes for Metallurgical Plants and For Special Purposes; Mechanical Equipment for Coking Plants; III, Rolling-Mill and Auxiliary Rolling-Mill Equipment.

Card 2/5

Call Nr: TN 705.R8

Metallurgical Equipment (Cont.)

The book contains the following information on each listed item: A general layout giving the principal dimensions; a brief description; the principal technical performance data; the basic weight data and, for the sake of orientation, the basic data on the electric motors. No personalities are mentioned in the Preface. The facilities which are mentioned follow: Metallurgical equipment plants: Uralmashzavod im. Ordzhonikidze; the Novo-Kramatorskiy Plant im. Stalin (in Kramatorsk); the Staro-Kramatorskiy Plant im. Ordzhonikidze; the Novo-Kramatorskiy Plant im. Stalin (in the town of Elektrosal'); the Irkutsk Machine Construction Plant im. Kuybyshev. There are no references.

Card 3/5

Call Nr: TN 705.R8

Metallurgical Equipment (Cont.)

TABLES OF CONTENTS

Preface

Part I. Rolling Mills and Basic Rolling-Mill Equipment

Specifications for rolling mills and rolling-mill equipment
produced by plants of the Ministry of Heavy Machinery Construction

Rolling mills

Main lines of rolling mills

Operating stands of rolling mills

Geared stands and universal spindles for rolling mills

Liquid-friction bearings for rolling mills

Card 4/5

Call Nr: TN 705.R8

Metallurgical Equipment (Cont.)

Part II. Auxiliary Rolling-Mill Equipment

Specifications for auxiliary rolling-mill machinery and mechanisms produced by plants of the Ministry of Heavy Machinery Construction

Auxiliary Finishing machines for rolling mills

Auxiliary transfer machines and mechanisms for rolling mills

AVAILABLE: Library of Congress

Card 5/5

EL AK, Petar; FUSTAR, Antun

Therapeutic and metabolic results in the treatment of asthmatic children with minimal dosis of gamma globulin and with venail zation. A comparative analysis. *Cesk. pediat.* 20 no.3:247-258. Mr. 1966.

1. Kinderklinik der Universität, Zagreb, und Thalassotherapeutisches Institut für Kinder "Dječje Selo", Makarska.

FUSTAR, Nikola

Application of the voltmeter checking pole during the operation. Energija Hrv 12 no. 9/10:292-294 '63.

FUSTHY, O. 1947

"On the Pathogenesis of the Infection With Intestinal Worms."

Orvosok Lapja, Budapest, 1947 3/47(1964)
No abst. in Exc. Med.

FUSTHY, O. 1948

(Nepjoleti Miniszterium Kozlemenye)

"Hygienic Care of Returning Prisoners of War."

Orvosok Lapja, 1948 4/20(201-310)

Abst: Exc. Med. IV, Vol. 11, No. 2, p. 206

KONRADY L. and FUSTHY O. a Budapesti Allami Korhazbol. Erdekes parazitologiai leletke az epeben Interesting parasitological findings in the bile Orvosok Lapja, Budapest 1949, 5/20 (670-671)

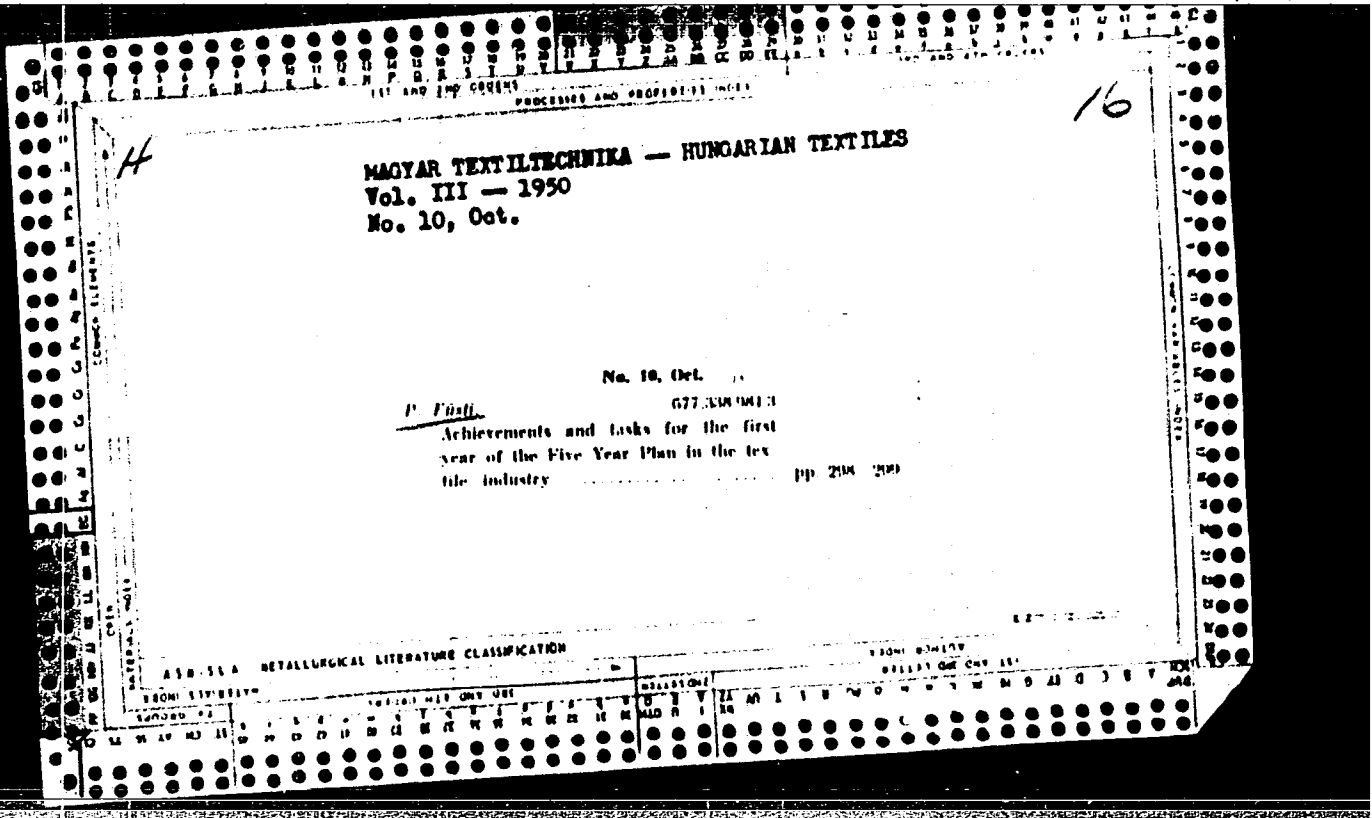
In two cases of cholecystitis the authors found *Chilomastix mesnili* in the bile of one, and *Strongyloides stercoralis* together with *Giardia lamblia* in that of the other.

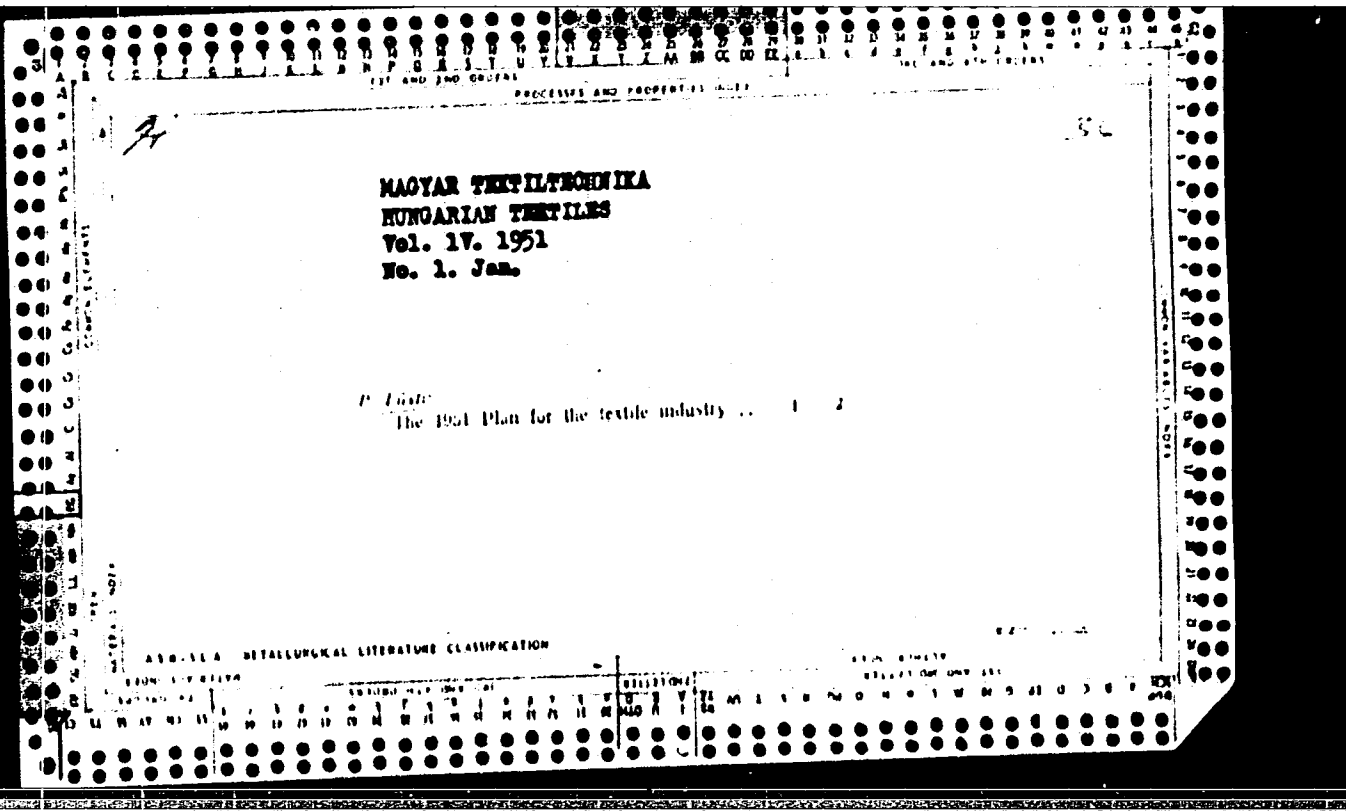
Molnar - Budapest (IV, 6)

FUSTHY, O.; PALOCZY, J.

"Unification of examination of methods in laboratories" p. 246.
(NEPEGESZSEGUGY, Vol. 34, No. 9, September 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 4, April 1954





FUSTI, P

"The Textile Industry, Its Structure, Organization, and Relation to the Sciences.
Also Critical Remarks by Dr. Erzsebet Jakab." p. 321 (Magyar Textiltechnika.
No. 11/12, Nov./Dec. 1953 Budapest.)

Vol. 3, no. 6
SO: Monthly List of East European Accessions, Library of Congress, June 1954, Uncl.

FISST, T.

Prospects of developing technically the textile industry. p. 349.
(MAGYAR TEXTILTECHNIKA, Budapest, Hungary), No. 11/12, Dec. 1954.

SO: Monthly List of East European Accessions, (SEAL), IC, Vol. 4,
No. 5, May 1955.

FUSTI, P.

Results of the contest of the 4th Conference of the Textile Industry. p. 396.
(MAGYAR TEXTILTECHINKA, Budapest, Hungary), No. 11/12, Dec. 1954.

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 4,
No. 5, May 1955.

FUSTI, P.

Contests announced by the 5th Conference of the Technological and Scientific Association of the Textile Industry. p. 398. (MAGYAR TEXTILTECHNIKA, Budapest, Hungary), No. 11/12, Dec. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955.

FUSTI, P.

Activists rewarded by the Association. p. 400. (MAGYAR TEXTILTECHINKA, Budapest, Hungary), No. 11/12, Dec. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955.

FUSTI, P.

Resolutions passed by the 5th National Technical Conference of the Technological and Scientific Association of the Textile Industry. p. 402. (MAGYAR TEXTILTECHINKA, Budapest, Hungary), No. 11/12, Dec. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955.

FUSTI, P.

Magyar Textiltechnika - No. 4, Apr. 1955.

April 4, the 10th anniversary of our liberation. p. 121.
Dr Gyözo Dischka; an obituary. p. 122.

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

FUSTI, P.

FUSTI, P. Some problems of the application of new techniques and increasing productivity in the textile industry. p. 402.

No. 11/12, Nov./Dec. 1955.

MAGYAR TEXTILTECHNIKA.

TECHNOLOGY

Budapest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

FUSTI, P.

The young generation's tasks in the development of the textile industry.p.426.

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

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

FUSTI, Pal

Some questions relating to the development of Hungary's textile industry. Magy textil 13 no.7:265-270 J1 '61.

1. "Magyar Textiltechnika" foszerkesztoje.

FUSTI, Pal

Conference of the Swiss Society of Chemical Coloring.
Magy textil 14 no.2:90-91 F '62.

1. "Magyar Textiltechnika" foszerkesztoje.

FUSTI, Pal

On the finishing of textiles. Technika 6 no.2:3 F '62.

FUSTI, Pal

On the Polish issue of "Magyar Textiltechnika." Magy textil
15 no.5/6:193 My-Je '63.

1. "Magyar Textiltechnika" foszerkesztoje.

FUSTI, Pal

Some questions relating to the long-range planning in the textile industry. Magy textil 15 no.11:489-492 '63.

1. "Magyar Textiltechnika" foszerkesztoje.

FUSTI, Pal

The state and perspective of the Hungarian textile industry.
Magy textil 16 no.7:289-293 J1 '64.

1. Editor-in-Chief, "Magyar Textiltechnika."

FUSTI MOLNAR, Lajos

Modification of screw driver standards. Kzabvany kozl 13
no.1:18 Ja '61.

FUSTI-MOLNAR, S.

HUNGARY / Analytic Chemistry. Analysis of Inorganic Substances.

E

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60645.

Author : Laszlo Legradi, ~~Sandor Fusti-Molnar.~~
Inst : -
Title : Titrimetric Determination of Sulfate Ion.

Orig Pub: Magyar kem. folyoirat, 1958, 64, No 1, 29-30.

Abstract: A simple and rapid titrimetric method of SO_4^{2-} determination was developed. An excess of BaCl_2 solution (25 ml of 0.02 M solution) and 2 ml of ammonium buffer solution are added to the sulfate solution to be analyzed or to H_2SO_4 (0.03 to 0.04 g of SO_4^{2-}), and the excess of BaCl_2 is titrated

Card 1/2

HUNGARY / Analytic Chemistry. Analysis of Inorganic
Substances.

E

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60645.

Abstract: off with 0.01 M ethylenedinitrilotetraacetic acid solution in the presence of the indicators Eriochrome Black T (2 drops) and Na rhodizonate (5 drops). If the above conditions were strictly complied with, a sharp color transition from bluish-green into green is observed at the equivalence point. A check experiment is carried out with BaCl_2 at the same time. 5 g of KCN is introduced into the solution to be titrated after the addition of BaCl_2 , if CuSO_4 , CdSO_4 or NiSO_4 were to be analyzed. The accuracy of SO_4^{2-} determination is $\pm 0.5\%$. Ions of Pb, Hg(1+), Bi, As, Sb, Sn, Co, Fe, Mn and alkaliearth metals, as well as anions producing precipitates with BaCl_2 , interfere.

Card 2/2

FUSTI MOLNAR, Sandor; LEGRADI, Laszlo

Complexometric control of sulfonation reactions. Magyar folyoir
67 no.10:455-456 0 '61.

1. Mendelejev Muszaki Egyetem, Muanyag Tanszek, Moszkva (for
Fusti Molnar). 2. Medicolor Vegyitermekek Gyara, Fuzfogyartelep
(for Legradi).

LEGRADI, Laszlo; FUSTI MOLNAR, Sandor

Complexometric determination of zinc and sulfate ion in the presence of each other. Magy kem folyoir 67 no.11:490-491 N '61.

1. Medicolor Vegyitermekek Gyara, Fuzfogyartelep.

FUSTI-MOLNAR, Sandor, dr.

Sanitary education and agricultural socialistic reorganization. Nepe-
gyszegugy 42 no.4:110-112 Ap '61.

1. Közlemeny az Egyszegugyi Miniszterium Egyszegugyi Felvilagositasi
Kozpontjabol (igazgato: Metneki Janos dr.)

(RURAL HEALTH) (HEALTH EDUCATION)

FUSTOS, Ferenc

Technical development and role of innovators in fulfilling the plan.
Ujit lap 13 no.10:3 My '61.

1. Ganz-MAVAG muszaki igazgatoja.

(Hungary--Machinery industry)
(Hungary--Iron industry and trade)
(Hungary--Steel industry and trade)