

L 31561-66

ACC NR: AP6025510

SOURCE CODE: CZ/0014/65/000/012/0448/0452

AUTHOR: Pacak, Miroslav (Engineer; Candidate of sciences)

43

ORG: none

B

TITLE: Transistorized stabilizer of high DC voltage

SOURCE: Sdelovaci technika, no. 12, 1965, 448-452

TOPIC TAGS: transistorized circuit, voltage stabilizer, direct current

ABSTRACT: The article presents the calculations and circuits of a transistorized stabilizer of high DC voltage (up to 2000 V). The design and technical adjustment of the instrument are discussed in detail and the obtained results are presented. Orig. art. has: 8 figures and 5 formulas. [JPRS: 34,691]

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 001

Card 1/1 *dy*

FACAK, Miroslav, inz. GSc.

Time switch with compensation. Sdel tech 13 no.1:17-20 Ja '65.

L 31103-66

ACC NR: AP6022778

SOURCE CODE: CZ/0039/66/027/002/0084/0090

AUTHOR: Pacak, Miroslav (Engineer; Candidate of sciences)

ORG: Institute of Physical Chemistry, CSAV, Prague (Ustav fyzikalni chemie CSAV)

TITLE: Transistorized stabilizer with compensation

SOURCE: Slaboproudy obzor, v. 27, no. 2, 1966, 84-90

TOPIC TAGS: voltage stabilizer, transistor, positive feedback, circuit design, direct current

ABSTRACT: The article presents the design of a very accurate transistorized DC voltage regulator in which the disturbances are compensated by positive feedback and other special steps. A simple calculation is derived for its main parameters and design data. The circuit thus designed is presented, as well as the results achieved during measurements. [JPRS]

SUB CODE: 09 / SUBM DATE: 22Feb65 / ORIG REF: 002

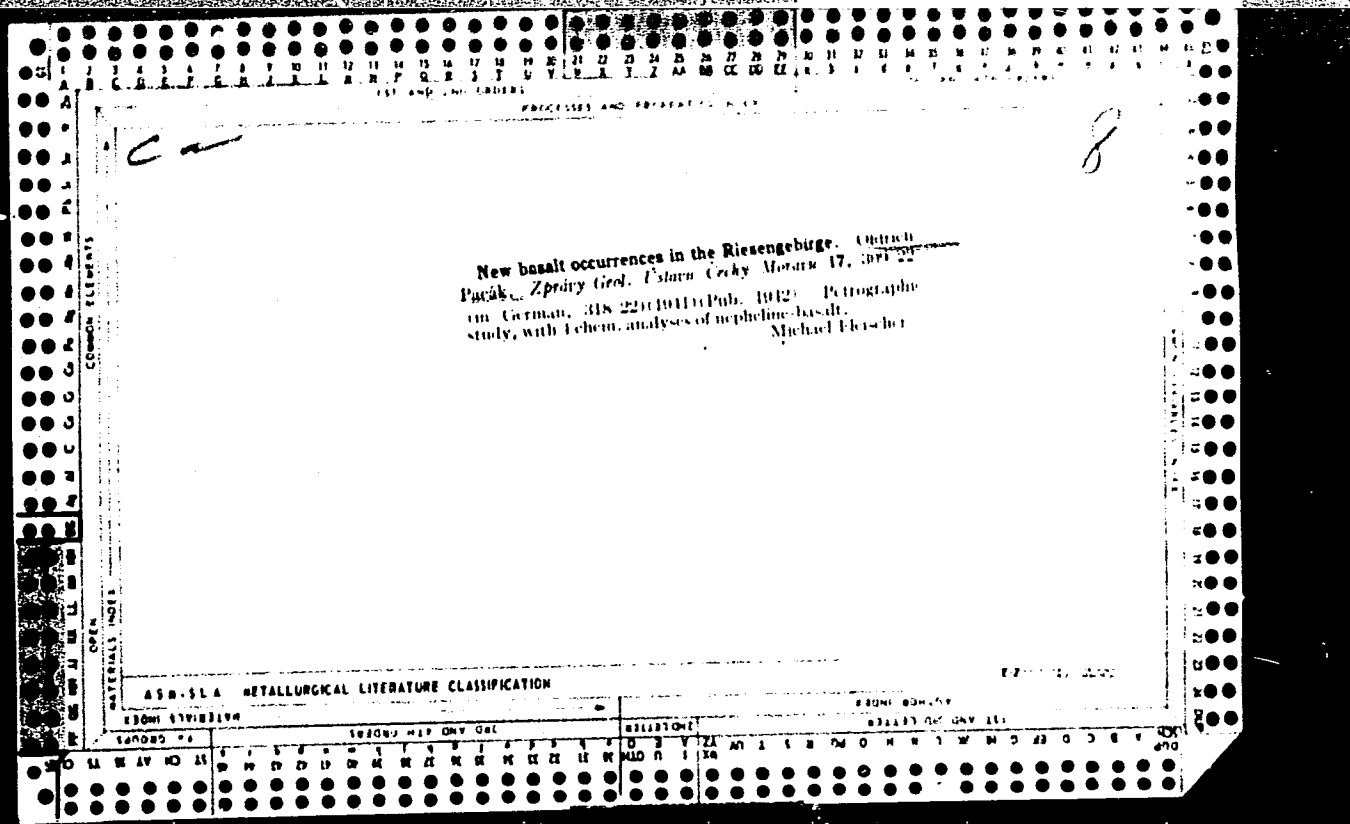
Card 1/1

UDC: 621.316.722.1.076.7

VANYSEK, J., Prof. MUDr; PACAK, Miroslav, Ing.; AMBROZ, Ludvik, MUDr;
SERLE, Jan, MUDr

Attempted construction of an apparatus for extraction of intra-ocular non-magnetic foreign bodies. Cesk. ofth. 10 no.3:194
Je '54.

1. Z očni kliniky VIA.
(EYE, foreign bodies,
*extraction of non-magnetic objects, appar.)
(FOREIGN BODIES,
*eye, extraction of non-magnetic object, appar.)
(OPHTHALMOLOGY, apparatus and instruments,
*for extraction of non-magnetic for. body)



CA

Tertiary eruptive rocks near Pardubice. *Uliček, Bohumír*
Časopis Státního ústředního úřadu geologie, 21, 249-9
54 (in English 254) (1946).—Petrographic study and computed analyses of nepheline basalts and phonolitic rocks.
Michael Fleischer

PROCESSES AND PROPERTIES INDEX

COMMON ELEMENTS

OPEN MATERIALS INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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PACHK, D.

5
Geo ②

Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
Mineralogical and Geological Chemistry

✓ The chemical nature of the basaltic volcanic rocks in the area of special map 1, Mladá Boleslav, Bohemia. Oldřich Pacák (Charles Univ., Prague). *Sborník Ústředního Ústavu Geol.* 19, 421-38 (1952) (English summary).—A chem. analysis of basalts and basalt Jasper was carried out. They were then classified according to Niggli's system. They are alk., and comparison with the compn. of the ground waters in the area showed that all the chem. components were already present in the original sediment. The migration of mineral substances from the sediment to the volcanic rock and the resultant metamorphosis is discussed. H. N.

PACOR, OLDRICH

BERAN, P.; DOLEZAL, J.; PACAK, P.

Use of oscillographic polarography in quantitative analysis.
Pt.22. Chem zvesti 18 no.5/6.333-340 '64.

1. Institute of Analytical Chemistry of the Faculty of Natural
Sciences, Charles University, Prague.

SA

621.316.93 : (621.3.014.7

2104. Single-phase fault and currents in transformer neutrals. S. PACAK. *Elektrotech. Obs.*, 39 (No. 19-20) 417-25 (1956) in Czech.

In systems with an earthed neutral the fault current in the case of a 1-ph. short-circuit to earth is usually higher than for a 3-ph. fault. The theory of the 1-ph. fault is given in symmetrical component representation, overall assessment of the circuit parameters is carried out and means of limiting the 1-ph. a.c. current are discussed. Stress is laid on the different requirements in this respect of systems for 100 kV and above. Sectionalizing of the system, earthing through a small impedance for triple-wound transformers in delta-connection, use of the tertiary winding for limiting a.c. currents (by inserting a reactor into the tertiary delta) are all satisfactory. An example shows the simplest method of calculation, using short-circuit curves.

B. F. KRAUS

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

BU4
N

49 The inhibition of ... network ...
S. P.
~~...~~
Description of a method
... ..
... ..
... ..
... ..
... ..

PACAK, S.

" Solution of AC Networks. " p. 481 (ELEKTROTECHNICKY OBZOR, Vol. 42, no. 9, September 1953, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954, Unclassified

Facak, S.

Some problems concerning compensation and stability of transmission with very high voltage. (Supplement) p. 25. ENERGETIKA. (Ministerstvo paliv a energetiky. Hlavni sprava elektraren) Praha. Vol 6, no. 5, May 1956.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

PACAK, Slavoj, inz.

Equivalent circuit of an autotransformer with an additional control transformer in the neutral point. El tech obzor 51 no.12:618-626 D '62

1. Vyzkumny ustav energeticky, Brno.

PACAK, S., inz.

Alternate design of an autotransformer with additional
control transformer and series transformer. Bul EGU
no. 5: 1-8 '63.

KELEMEN, Geza, dr.; MAROCZI, Jozsef, dr.; PACSA, Sandor; RETHY, Lajos, dr.

Immunological effect of simultaneous administration of poliomyelitis and combined diphtheria-tetanus-pertussis vaccines. II. Effect of combined diphtheria-tetanus-pertussis vaccine on immunological activity of Sabin's monovalent poliomyelitis vaccine. Orv.hetil. 102 no.6:249-250 5 F'61.

1. Orvostudományi Egyetem, Mikrobiológiai Intézet, Pécs. Baranya megyei KOJAL. Viruslaboratórium, Pécs. Human Oltoanyagtermelő és Kutató Intézet, Budapest.

(VACCINATION)

(POLIOMYELITIS immunol)

(DIPHTHERIA immunol)

(TETANUS IMMUNOL)

(WHOOPIING COUGH immunol)

HERAL, Jan; PACAK, Slavoj, inz.

Development of power distribution systems from the viewpoint of automation and remarks by Slavoj Pacak. Bul EGU no.1:1-8 '63.

TEXTL, Karel, inz.; KRENEK, Josef, inz.; BAYER, Vilem, inz.; PACAK, Slavoj,
inz.; VYSKOCIL, Vaclav, inz.

The 1964 Meeting of the International Conference on Large
Electric Systems. Energetika Cz 14 no.12:622-644 D '64.

PACAK, Slavoj, inz.

Calculation of the performance of a network with longitudinal
and quadrature transformers. El tech obzor 53 no. 6:304-307
Je '64.

1. Research Institute of Power Engineering, Brno.

PACAK, V., and others.

SCIENCE

Periodical CESKOSELOVENSKA MIKROBIOLOGIE. Vol. 3, no. 1, 1958.

PACAK, V., and others. Stimulation of chlortetracycline biosynthesis by benzylthio-
cyanate. p. 1.

Monthly List of East European Accessions (SEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

PACAKOVA, Iva

"Measurement and calculation in physics" by Ulrich Stille.
Reviewed by Iva Pacakova. Cs cas fys 15 no.3:274-276 65.

1. Chair of Physics of the Faculty of Mechanical Engineering of
the Czech Higher School of Technology, Prague. Submitted December
10, 1964.

PACAL, J.; KUBAT, K.; UBL, O.

Specifications of the standards of personal material interest within an enterprise. p. 2

PRUMSYL POTRAVIN. (Ministerstvo potravinarskyho prumyslu) Praha, Czechoslovakia
Vol. 10, no. 1, Jan. 1959

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

PACAL, Karel, inz.

Attachment of synchronous motor poles in uniform sets. El tech,
obzor 52 no.3:137-140 Mr '63.

1. Ceskomoravska-Kolben-Danek Praha, n.p.

PACAL, Z.

Certain knowledge acquired in the study of geochemical methods of prospecting. p.125.
VESTNIK, Prague, Vol. 29, no. 3, 1954.

SO: Monthly List of East European Accessions, (BEAL), IC, Vol. 5, No. 6 June 1956, Uncl.

CZECH

Iodine in waters of the Prešov region. T. Jarchovský and Z. Pácal (Vys. škola chem. technol., Prague). *Vestník ústředního úřadu geol.* 29, 250-8(1954).—I and Cl were detd. in 85 samples of water by a modified polarographic method (cf. Novák, *C.A.* 48, 3847b). Fountain, river, and mineral surface waters contained up to 0.5 mg. KI/l. and 11.5-6187 mg. NaCl/l. Waters from salt mines contained 0.5-5 mg. KI/l. L. J. Urbánek.

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CIA-RDP86-00513R001238

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CARD:

PACAL, Z.

POLAND / Cosmochemistry. Geochemistry. Hydrochemistry. D

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 804.

Author : ~~Pacal, Z.~~
Inst : Not given.
Title : Hematite with an Admixture of Tungsten.

Orig Pub: Przegl. geol., 1958, 6, No 3, 120-121.

Abstract: Using spectrographic and chemical methods of analysis, W was found to be present (from 0.04-0.06%, based on total amount), in certain veins of the Ban'skoshcavnistky district (Czechoslovakia) where it is combined mainly with hematite (up to 0.20%). It is assumed that W is present in the form of ferberite. -- A. Yegorkin.

Card 1/1

PACAL Z.

CZECHOSLOVAKIA / Cosmochemistry. Geochemistry. Hydrochemistry. D

Abs Jour: Ref Zhur-Khimiya, No 22, 1958, 73568.

Author : Zdenek Pacal.
Inst :
Title : Isotope Clarkes.

Orig Pub: Vest. Ustred. ustavu geol., 1958, 33, No 2, 131-134.

Abstract: Isotope clarkes for the first 50 elements (up to Sn) were computed based on bibliographical data. The computation was carried out by the equation isotope clarke = element clarke (in at. %) x content of the isotope in question (in at. %): 100. The following magnitudes of isotope clarkes are presented: Li⁶ - 1.4 .

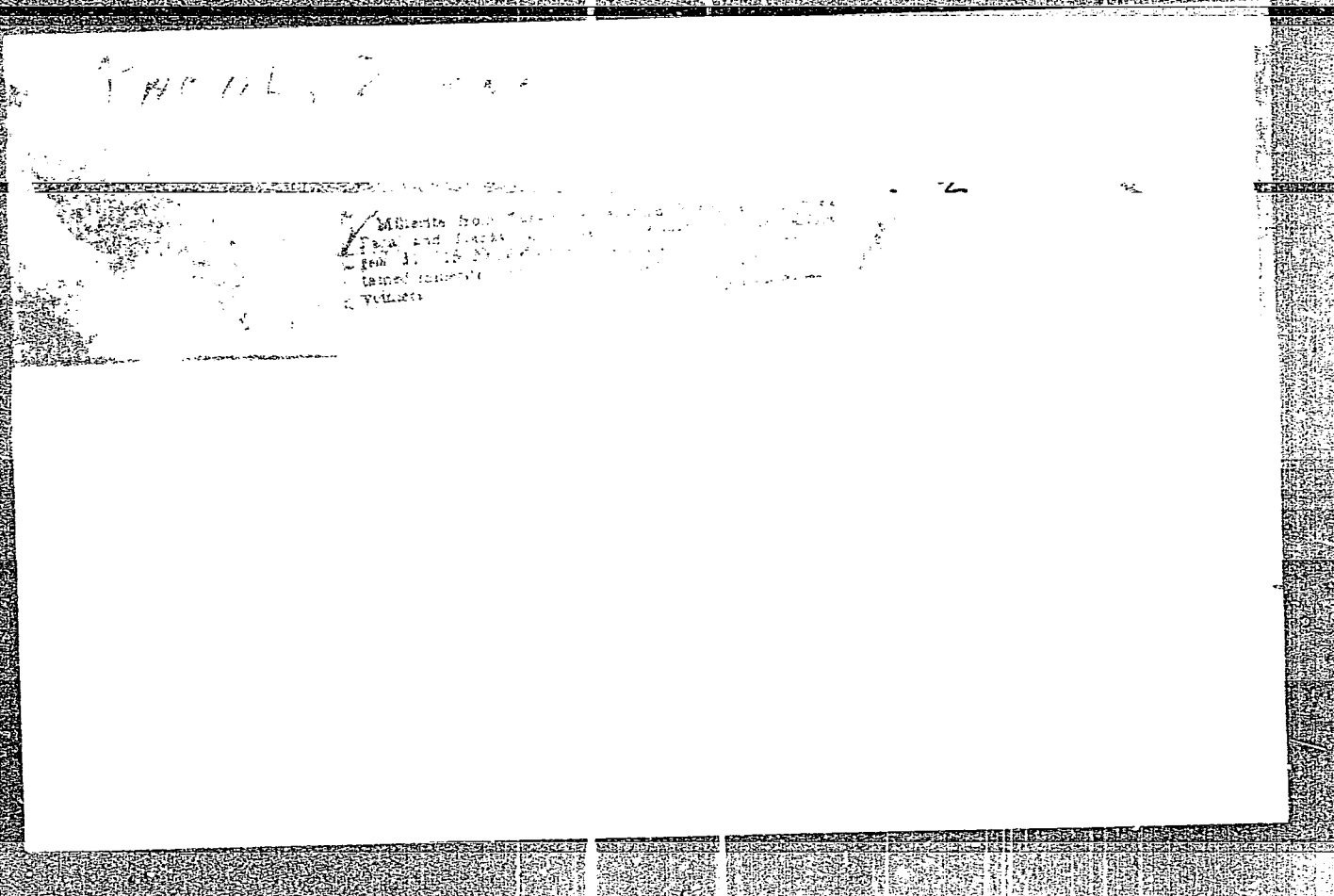
Card : 1/2

PACAL, Z; FIALA, F

"Zinwaldite from Krasno nad Teplou in Cisarsky les (special map, page 3949, Cheb)."

VESTNIK, Praha, Czechoslovakia, Vol. 34, no. 4, 1959

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, Sept 59
Unclas



PACAL, ZDENEK

80 The influence of the lanthanide contraction on the geo-chemistry of hafnium, tantalum, and tungsten. Zdenek Pacal. *Věstník ústředního ústavu geol.* 32, No. 1, 31-7 (1937) (English summary).—A discussion. Michael Fleischer

CZECHOSLOVAKIA/Cosmochemistry. Geochemistry. Hydrochemistry.

D

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77120.

Author : Pacal Zdenek.

Inst :

Title : Arsenic in Mud of Mineral Water Spring Pfarr
Sauerling (Mariánské Lázně).

Orig Pub: Casop. mineral. a geol., 1958, 3, No 1, 115-116.

Abstract: 0.22% of As and traces of Ni, Co and Cr were revealed in mud-like limonite deposits (35% of Fe by dry weight) of the spring. The spring is coordinated to the South-Western part of the serpentine mountain range Wolfstein (a region of widespread amphibolites). The rocks in that range contain from 0.1 to 0.25% of Ni. It is assumed that the water of the spring rises in

Card : 1/2

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PACAL, Zdenek

Trace elements in Sobov quartzites (Banska Stiavnica). Sbor chem
tech no.3, part 2:253-259 '59.

1. Katedra mineralogie, Vysoka skola ~~chemicka-technologiccka~~, Praha.

PACAL, Zdenek

Geochemical spoil profiles west of Krasno on Tepla River. Sbor chem
tech no.3, part 2:261-284 '59.

1. Katedra mineralogie, Vysoka skola chemicko-technologicka, Praha.

PACAL, Zdenek

Germanium in the sphalerite from Stribro. Sbor chem tech no.3, part
2:327-335 '59.

1. Katedra mineralogie, Vysoka skola chemicko-technologicka, Praha.

PACAL, Zdenek

Calcite from Chrast near Cesky Brod. Sbor chem tech 4 no.1:377-382
'60. (ZAI 10:9)

1. Katedra mineralogie, Vysoka skola chemicko-technologicka, Praha.

(Calcite)

HAVLICEK, Jaroslav; PACAL, Zdenek

Arsenic in the mine water from Staroceske pasmo, (Kank near
Kutna Hora). Cas min geol 7 no.3:260-268 '62.

PACAL, Zdenek

Classification of rare metal deposits. Geol pruzkum 5 no.3:87 Mr
'63.

Pyral, Zdenek; F.V.M., Dana

Tin in tourmaline rocks west from Horni Blatna. Vest. list. geol. 39 no. 6:
467-469 N 1964.

1. Central Geological Institute, Prague. Submitted June 2, 1964.

PACAL, Zdenek, inz., kandidat geologicko-mineralogickych ved

Distribution of cassiterite in the alluviums of the Ohre River
near Dubi. Geol pruzkum 7 no.2:37-39 F '65.

1. Central Geological Institute, Prague.

34716

S/137/62/000/002/086/14

A060/A101

18.1240

AUTHORS: Balicki, S., ~~Pacalowski, J.~~

TITLE: Influence of arsenic upon the characteristics of alloy B 10

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 60, abstract 2I388
("Rudy i metale nieznel.", 1960. 5, no. 2, 55-60, Polish; Russian, English, French and German summaries)

TEXT: An investigation was carried out upon the influence of admixtures of As (0.13 - 1% As) upon the mechanical (σ_b , H_B , a_k) and the antifriction characteristics of bearing alloy L 10 with composition (in %): Sn 9.5 - 10.5, Sb 14.5 - 15.5, Cu 0.5 - 1.5, Pb the remainder in which according to the Polish standard, up to 0.15% As is tolerated. It is shown that admixtures of As up to 0.6 - 0.8% raise the σ_b and a_k , while the H_B is then somewhat lowered. Abrasion tests of the specimens in conjunction with steel shafts under static and dynamic loadings of various magnitude and durations have indicated that the alloy with 0.4% As is more abrasion resistant than the alloy with 0.13% As or L 10, produced from pure metals. The conclusion is drawn that admixtures of As in the alloy L 10 in the excess of the established norm up to 0.4% are not deleterious and the

Card 1/2

PACALOWSKI, Janusz, mgr inz.; BIGAJ, Jozef, mgr inz.

Bronze B 476 as alternate for bronze B 555 and bronze
B 663. Rudy i metale 8 no. 5: 171-177 My '63.

PACALOWSKI, Janusz, mgr inz.; BIGAJ, Jozef, mgr inz.

B -476 bronze as a substitute for B-555 or B-663 bronze. Pt. 2.
Rudy i metale 8 no.7:266-272 Je '63.

RADWAN, Maciej, prof. dr; BANASIK, Z., mgr inz.; PACALOWSKI, Janusz, inz.

Tin segregation tests in AlSn30 alloy ingots with radioisotopes. Hutnik P 30 no.6:169-174 Je '63.

PACANOVSKY, K.

Some remarks on a study of the zone of the High Tatra. p. 74.
OCHRANA PŘÍRODY. (Ministerstvo kultury. Statni pece o ochranu prírody)
Praha. Vol. 11, no. 3, Apr. 1956.

SOURCE: East European Accessions: List, Vol. 5, no. 8, September 1956

PACANOVSKY, M.

"A new natural reservation in the upper valley of Vah."

p. 131 (Krasý Slovenska, Vol. 34, No. 4, Apr. 1957, Bratislava, Czechoslovakia.)

GEOGRAPHY & GEOLOGY Periodicals

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 11, Nov. 1958

PACANOVSKY, M.

"Thoughts on the development of agriculture in mountain areas, on tourist trade and on the preservation of nature."

KRASY SLOVENSKA. (Poverenictvo dopravy. Riaditelstvo pre cestovny ruch)
Bratislava, Czechoslovakia, Vol. 36, No. 5, May 1959.

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

ZARZYCKA, H.; MARGOLIS, A.; PACANOWSKA, M.

Treatment of pleural empyema with streptokinase and streptodornase.
Pediat. polska 30 no.12:1145-1152 Dec 55.

1. Z II Kliniki Chorob Dzieci A.M. w Lodzi. Kierownik: prof. dr.med.
Fr. Redlich. Lods, Armii Czerwonej 15.

(EMPYEMA, PLEURAL, ther.

streptodornase & streptokinase)

(STREPTODORNASE AND STREPTOKINASE, ther. use)

empyema, pleural)

WILKOSZEWSKI, E., (Warszawa, ul., Litewska 16); PACANOWSKA, M., BEDNARSKA, A.

Diphtheria antibody content in mother and newborn. *Pediat. polska*
33 no.1:51-61 Jan 58.

1. Z I Kliniki Chorob Dzieci A.M. w Lodzi. Kierownik: doc. dr med.
E. Wilkoszewski i Z II Kliniki Chorob Dzieci A.M. w Lodzi. Kierownik:
prof. dr med. Fr. Redlich.

(DIPHTHERIA, immunol.

antibodies in mother and newborn (Pol))

(INFANT, NEWBORN, blood in
diphtheria antibodies (Pol))

(PUERPERIUM, blood in
same (Pol))

BIELINSKA, W.; CZERNIELEWSKI, A.; PACANOWSKA, M.

3 cases of Rothmund-Thomson syndrome in brothers and sisters. *Pediat.*
pol. 37 no,6:635-640 Je '62.

1. Z II Kliniki Chorob Dzieci AM w Lodzi Kierownik: prof. dr. med.
Fr. Redlich i z Kliniki Dermatologicznej AM w Lodzi Kierownik: prof.
dr med. J. Lutowiecki.

(SKIN dis) (KERATOSIS in inf & child)
(CATARACT in inf & child)

PACANOWSKA, Maria

PACANOWSKA, Maria

Case of fibrous dysplasia of the bone; Albright's syndrome.
Pediat. polska 29 no.6:617-621 June 54.

1. Z II Kliniki Chorob Dziecięcych Akademii Medycznej w Łodzi.
Kierownik: prof. dr med. Fr Redlich.
(OSTEITIS FIBROSA, in infant and child,
fibrous dysplasia)

PACANOWSKA, Maria

Vaccination against influenza in children. *Pediat.polska* 30
no.8:723-729 '55.

1. Z II Kliniki Chorob Dzieci A.M. w Lodzi. Kierownik: prof.dr.
med. Fr.Redlich, Lodz, Jaracza 69 m. 19.

(INFLUENZA, prevention and control,
vacc. in child.)

(VACCINES AND VACCINATION,
influenza, in child)

PACANOWSKA, Maria

Principles of the treatment with ACTH and adrenal cortex hormones.

Pediat. pol. 36 no.6:663-670 '61.

(CORTICOTROPIN ther)

(ADRENAL CORTEX HORMONES ther)

(PEDIATRICS ther)

JUDKIEWICZ, Luła; PACANOWSKA, Maria

Anaemia sideroblastica. Pol. tyg. lek. 17 no.30:1195-1199 23 J1 '62.

1. Z II Kliniki Chorob Dzieci A.M. w Lodzi; kierownik: prof. dr med.
Fr. Redlich.

(ANEMIA)

BIELINSKA, Wanda; PACANOWSKA, Maria

A case of an embryonic tumor of the liver (hepatoblastoma) in a 22-month-old infant. *Pediat Pol* 37 no.2:173-178 F '62.

1. Z II Kliniki Chorob Dzieci AM w Lodzi Kierownik: prof. dr med. Fr. Redlich.

(HEPATOMA in inf & child)

BIELINSKA, Wanda; JUDKIEWICZ, Luba; LOBA, Jeremi; PACANOWSKA, Maria

Clinical contribution to hypochromic anemia resistant to iron therapy (sideroachrestic anemia). *Pediat. pol.* 37 no.11:1209-1214, '62.

1. Z II Kliniki Chorob Dzieci AM w Lodzi Kierownik: prof. dr med. Fr. Redlich.

(ANEMIA HYPOCHROMIC)

PACANOWSKA, Maria

Clinical contribution to prolonged jaundice of newborn infants. *Pediat. pol.* 38 no.2:187-192 '63.

1. Z II Kliniki Chorob Dzieci AM w Lodzi Kierownik: prof. dr med. F. Redlich.

(JAUNDICE, NEONATAL)

BODALSKI, Jerzy; JUDKIEWICZ, Luba; PACANOWSKA, Maria

Notes on the treatment of Fanconi's syndrome. *Pediat. pol.*
38 no.6:579-585 Je '63.

1. Z II Kliniki Chorob Dzieci AM w Lodzi Kierownik: prof. dr
med. F. Redlich i z Laboratorium Panstwowego Szpitala
Klinicznego nr 4 Kierownik: dr med. H. Kolodziejska.
(ANEMIA, APLASTIC) (BLOOD TRANSFUSION)
(ADRENAL CORTEX HORMONES) (SPLENECTOMY)

BODALSKI, Jerzy; DEFECINSKA, Eleonora; JUDKIEWICZ, Luba;
PACANOWSKA, Maria

Combination of Fanconi's anemia and dyskeratosis congenita
into a single syndrome. *Pediat. pol.* 38 no.9:849-852 S '63.

1. Z II Kliniki Chorob Dzieci AM w Lodzi Kierownik: prof.
dr med. Fr. Redlich i z Kliniki Dermatologicznej AM w Lodzi
Kierownik: prof. dr med. J. Lutowiecki.

(ANEMIA, APLASTIC) (KERATOSIS)

JUDKIEWICZ, Luba; KOŁODZIEJSKA, Helena; PĄGANOWSKA, Maria.

Neurologic complications in acute leukemia in children. Pol. tyg.
lek. 19 no.1:16-18 I Ja'64

1. Z II Kliniki Chorob Dzieci AM w Łodzi; kierownik: prof.dr.med.
Fr.Redlich.

*

BYEDNNSKA, Wanda; PACANOWSKA, Maria; PAISZCZYK-KIESZKINIAŁA, Teresa

Acid phosphatase activity and phosphorus in the blood of the mother and newborn infant. Ped. Pol. 1978;23:3-4. Ja 78

1. Z II Kliniki Chorob Dzieci Akademii Medycznej w Łodzi
(Kierownik prof. dr. med F. Redlich [deceased]) i z I Kliniki
Pozostwa i Chorob Kobiecych Akademii Medycznej w Łodzi
(Kierownik prof. dr. med. J. Sieroszewski).

PACANOWSKA, Maria

Contribution to the problem of anemia associated with digestive absorption disorders. *Pediat. Pol.* 40 no.5:509-511 My '65.

1. Z II Kliniki Chorob Dzieci AM w Lodzi (Kierownik: prof. dr. med. F. Redlich).

BIEI.INSKA, Wanda; DEBIEC, Barbara; NAREBSKA, Elzbieta; PACANOWSKA, Maria

Contribution to the problem of liver cirrhosis in children according to our observation. *Pediat. Pol.* 40 no.10:1041-1048 0 '65.

1. Z II Kliniki Chorob Dzieci AM w Lodzi (p.o. Kierownik: dr. med. B. Debcowa; Kurator: prof. dr. med. K. Sroczyński).

BIELINSKA, Wanda; PACANOWSKA, Irena

Etiological and clinical problems in liver cirrhosis in children.
Pediat. Pol. 40 no.10:1131-1137 0 '65.

PACANOWSKA, Maria

Simple laboratory methods in the diagnosis of anemia in children during mass investigation. Wiad. lek. 18 no. 21: 1663-1669 1 N ' 65.

1. Z II Kliniki Chorob Dzieci AM w Łodzi (Kierownik: prof. dr. med. F. Redlich [deceased]).

PACANOWSKA-HALTRECHT, Natalia

The scientific film. Problemy 18 no.9:651-657 '62.

POLAND/General and Specialized Zoology - Insects.

P.

Abs Jour : Ref Zhur - Biol., No 9, 1958, 40095
Author : Wilusz, Z., Gorny, M., Harkiewicz-Jodko, J., Pacanowski, A.
Inst : -
Title : The Micromigrations of the Colorado Beetle.
Orig Pub : Postepy nauk roln., 1956, 3, No 1, 129-133.

Abstract : To ascertain the grounds for the method of trapping fields, the micromigrations of the Colorado beetle were studied. The micromigrations were accomplished by flight, and also by moving on foot. The beetle flies, as a rule, against the wind, and only accidentally with the wind. The migrating beetles inhabit fields which are close to their hibernation habitats. When the latter are close to potato fields the migration is accomplished on foot, the outside beds being populated at first. At the beginning of spring-migrations, the beetles appear first of all on open fields, near the yester-year potato fields; the beetles appear

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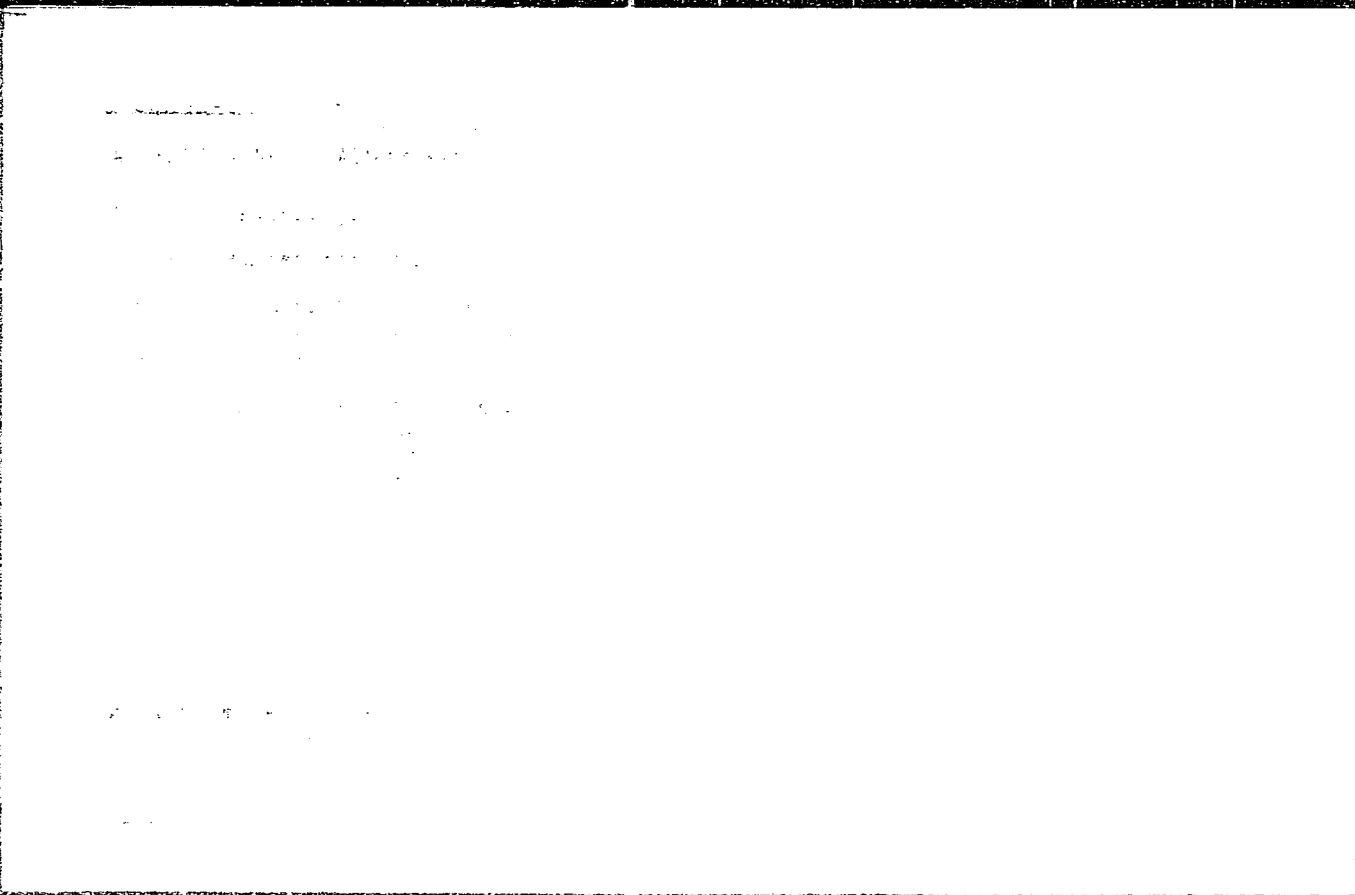
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Effect of the disinfection on the hatchability of eggs from
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ACCESSION NO. ATLAS 441

S/137/62/000/004/079/201
A052/A101

AUTHORS: Pačes, J., Šuda, P.

TITLE: The influence of plastic deformation on the magnetostriction constant of nickel

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 6, abstract 4I40 ("Chekhosl. fiz. zh.", B 11, no. 6, 1961, 439 - 443, English; Russian summary.)

TEXT: The magnetostriction constant of polycrystalline Ni samples was measured as a function of the value of plastic deformation (tension). The apparent value of magnetostriction constant is equal to $(-36.1 \pm 0.25) \cdot 10^{-6}$. Absolute values of magnetostriction constant increase slightly (by $\sim 1\%$) at small deformations and show a linear decrease at large deformations ($\sim 5\%$ at $\delta = 30\%$). With deformed samples a spread of values ($\pm 5\%$) is observed which cannot be explained by an inaccuracy of measurements. There are 6 references.

[Abstracter's note: Complete translation]

B. Slonimskiy

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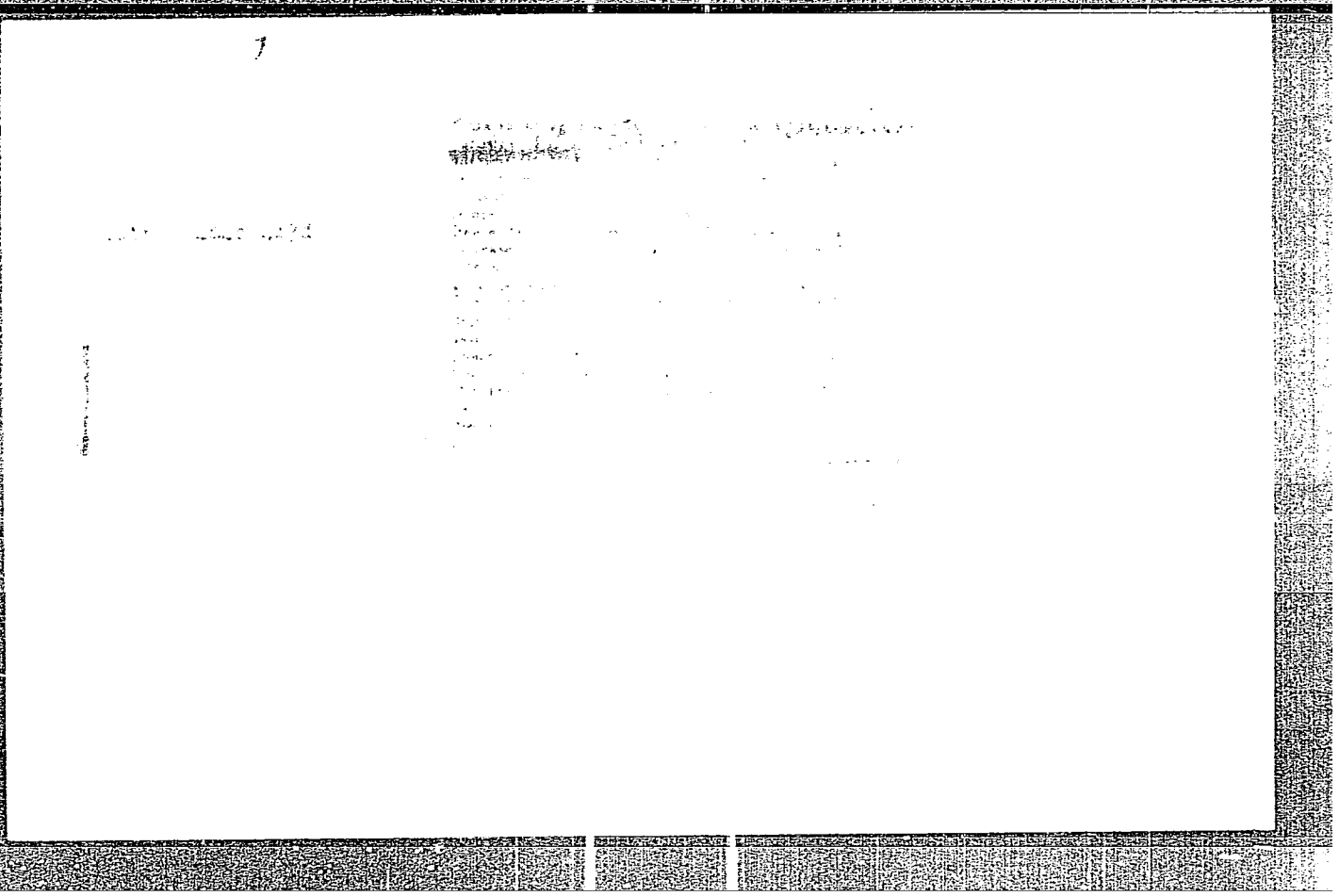
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CZ/37-58-5-7/19

AUTHOR: Pačes, Jaroslav

TITLE: On Determining the Spontaneous Magnetisation in the Neighbourhood of the Curie Point (K určování spontánní magnetisace v oblasti Curieova bodu)

PERIODICAL: Československý časopis pro Fysiku, 1958, Nr 5, pp 566-574 (Czech)

ABSTRACT: The spontaneous magnetisation in the neighbourhood of the Curie point is usually determined by indirect methods and these can be sub-divided into the following four groups:

1. Method utilising the quadratic relation of certain phenomena (the even effects) on the magnetisation;
2. Method of lines of equal magnetisation;
3. Method of anomalies of non-magnetic properties;
4. Method of thermo-dynamic coefficients, proposed by Belov and Gorjaga (Ref 4).

The aim of the work described in this paper was to evaluate the applicability of each of these methods for determining the spontaneous magnetisation in the neighbourhood of the Curie point and to attempt to explain

Card 1/4 some of the deviations from the theoretically assumed

resistance and the magnetostriction it is necessary to take into consideration the fact that magnetisation has a considerable influence on the magnitude of these phenomena. A method is described by means of which it

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On Determining the Spontaneous Magnetisation in the Neighbourhood
of the Curie Point

is possible to determine from the graphs of the dependence of magnetisation changes of the resistance on the square value of the total magnetisation the correct value of the spontaneous magnetisation, taking into consideration the influence of "technical" magnetisation. It is shown that the deviations from the linear characteristic of the functions $\Delta R(I^2)$ (or $\Delta T(I^2)$ of the magneto-heat effect) observed for certain materials can be explained by the non-homogeneity of the material. Equally, the form of the thermal dependence of the spontaneous magnetisation can be explained which, in contrast to the theoretical assumptions, indicates some sort of extension of the spontaneous magnetisation above the Curie point. A method is described which permits evaluating the degree of non-homogeneity of the material from the shape of the curve of the thermal dependence of the spontaneous magnetisation. This paper is based on experimental results obtained during Candidate Dissertation work carried out by the author at the Moscow State University.

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CZECH/37-59-4-8/16

AUTHOR: Jaroslav Pačes

TITLE: The Efficiency of a Helium Liquifier²¹
pp 400-405

PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 4,
Thomson effect is positive, has considerably simplified the construction of helium liquefiers. Such liquefiers are now in commercial production (Ref 2). The construction of such engines is exceedingly difficult because very few materials can be used and the accuracy required is extremely high. These difficulties can be by-passed by using bellows. Long and Simon (Ref 3) have shown that the life of bellows increases with decreasing temperature. On the other hand, bellows can only operate up to pressures of about 5 atm. This considerably reduces the cooling efficiency and such liquefiers therefore require particularly accurate choice of working conditions. This paper sets out to consider these conditions. A schematic diagram of the liquifier is shown in Fig 1, where N is a nitrogen cooling bath, D1 and D2 are

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The Efficiency of a Helium Liquifier with Bellow Expanders engines, E is the expansion valve and V_{1-6} heat exchangers. Table 1 shows the amount of cooling that the gas obtains in engine D_2 . The thermo-dynamic efficiency of the engine is defined as the ratio of the real change in specific enthalpy to the change in enthalpy in purely adiabatic processes. Table 1 is based on published results (Refs 5,6 and 7). The aim in designing a liquifier is to obtain a maximum output of liquid helium. A rough guide is obtained from considering the enthalpy. A quantity " M " of gas is compressed to pressure " p " and then expanded through the expansion valve. A quantity " m ", to be adiabatically expanded in the engine, is compressed to pressure " p ". The specific enthalpy of gas under pressure " p " at temperature " T_1 " is " i_{p1} ". The specific enthalpy of the liquid is " i_0 ". ϵ is the yield in liquid helium, i.e. the amount liquified during the Joule-Thomson expansion of the quantity " M " of gas. The balance of enthalpies gives Eq (1). The yield can be increased either by increasing $\Delta i'$ and $\Delta i''$ (changes in specific enthalpy during expansion in the engines) or by

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The Efficiency of a Helium Liquifier with Bellow Expanders

reducing 16. The temperature T_6 can be reduced to 63,14 °K by reducing the vapour pressure of the nitrogen. This reduces the denominator in Eq (1) by 20%. Eq (1) seems to indicate that the engines should work at the highest possible temperature because then $\Delta i'$ and $\Delta i''$ are largest. One must not forget, however, that the temperature T_2 must be sufficiently low as otherwise no liquification will occur. This fact is not obvious from Eq (1) and a more detailed analysis is needed to determine the optimum working conditions. A detailed analysis of the expansion valve and the heat exchanger V_1 can be found in Ref 8. Fig 2 shows the yield of liquid helium for an expansion valve under varying conditions of temperature and pressure. Fig 2 was obtained from values given in Ref 6 and makes less idealised assumptions than Ref 8. The working points of the engine will be determined by considerations of energy. The balance of energies is given by Eq (3). Useful analytical expressions are not easy to find and a graphical method is recommended. An example of a liquifier with only one engine is worked out. We assume a starting temperature of 80 °K where $P = 15$ atm and

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The Efficiency of a Helium Liquifier with Bellow Expanders

$p = 5$ atm. The working points can be found by solving Eqs (2) and (3). Fig 3 shows $\epsilon(T_2)$ for an expansion valve with Joule-Thomson expansion from 15 atm to 1.3 atm. Assuming the thermo-dynamic efficiency of the engine $\eta = 0.8$, we obtain curve 1 of Fig 4, showing that the maximum yield is obtained if 20% of the total amount of gas is used for Joule-Thomson expansion. As a further example, a liquifier with 2 engines is considered under similar conditions to the one-engined liquifier; the two-engined liquifier produces a 65% higher yield. The maximum theoretical yield for a liquifier with one bellows engine $\epsilon_M = 0.034$ kg/kg. With two engines, it is 0.055 kg/kg. Heat losses into the surroundings have been neglected.

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There are 4 figures, 1 table and 8 references, of which 5 are English, 2 Soviet and 1 German.

ASSOCIATION: Fyzikální ústav ČSAV, Praha (Department of Physics, Czechoslovak Academy of Sciences, Prague) X

SUBMITTED: December 31, 1958

PACES, T.

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