BRABENEC, A.

Recent discoveries in the automatization and control of equipment for submerged arc welding.

P. 226 (Zvaracsky Sbornik) Vol. 6, No. 2, 1957, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. - VOL 7, NO. 1, JAN. 1958

BRABENEC, A., inz.; PAVLASEK, M., inz.

Equipment for welding wheels of commercial vehicles on an assembly line. Zvaranie 13 no.12:363-367 D '64.

1. Zavody tepelnych zarizeni, Chotebor.

CA. BRABENEC, J.

17

Production of alkaloids and glycosides by extraction of plant materials. J. Brabenec. *Českoslov. farm.* 1, 218–20 (1952).—A review with 8 references. Dagmar Hubíková

BRABANETS, Irzhi [Brabenec, Jiri]

Nobel Prize in Czechoslovakia. Nauka i zhizn' 27 no.5:24-26 My '60. (MIRA 13:6)
(Heyrovsky, Jaroslav, 1890-)
(Nobel prizes)

BRABENEC, J.

BRABENETS, Irzhi [Brabenec, J.]

The winner of the Nobel Prize. Nauka i zhyttia 10 no.5:63 My '60. (MIRA 13:7)

(Heyrovskiy, Jaroslav, 1890-)

SANTAVY, F.; HORAK, M.; MATUROVA, M.; BRABENEC, J.

Contribution to the configuration chelidonines and esplanation of their certain reactions. Coll Cz Chem 25 no.5:1344-1350 My '60.

1. Chemisches Institut, Medizinische Fakultat, Palacky Universitat, Olomouc, und Chemisches Institut, Physikalisch-chemische Abteilung, Tschechoslowakische Akademie der Wissenschaften, Prag.

L 11397-65 Pz-4 AFTC(b)/AMD

ACCESSION NR: AP4049750 Z/0049/64/000/007/0522/0540

AUTHOR: Hudec, V. (Gudets, V.); Brabenec, J. (Brabanets, Ya.) (B)

TITLE: Occurrence of snail Candidula Soosiana (J. Wagner) in Czechoslovakia. (Contribution to the theory of origin and development of species)

SOURCE: Biologia, Vol 19 no. 7, 1964, 522-540

TOPIC TAGS: zoology, conchology, anatomy, snail, ecology, bionomics

Abstract: The determination of the species Candidula soosiana and C. unifasciata according to conchology is described. Differences in their anatomy are reviewed. As neither of the species is found in Czechoslovakia in the fossilized form, it is concluded, that the snails entered the region only in the most recent geological period. Both species have recently been found to be expanding in the Easterly direction. The places where the C. soosiana is most likely to be found are described. The snail buries itself underground only in the periods of steady freezing temperatures. 8 Figures.

Card 1/2

L 11397-65
ACCESSION NR: AP4049750

ASSOCIATION: none

SUBMITTED: 17Dec63 ENCL: 00 SUB CODE: LS

NO REF SOV: 000 OTHER: 023 JPRS

Card 2/2

HRABENEC, R.

Before the new tasks. p. 1 (Slevarenstvi. Praha. Vol. 2, no. 1, Jan. 1954)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

BRABENEC, R.

Technical staffs. p. 65 (Slevarenstvi. Praha. Vol. 2, no. 3, Mar. 1954)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

HRABENEC, R.

"State of Our Metallurgical Industry." p. 97. (SLEVARENSTVI. Vol. 2, No. 4, Apr. 1954; Praha, Czech.)

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

BRABENEC. R.

"For greater economy in foundries." Slevarenstvi, Praha, Vol. 2, No. 6, June 1954, p. 161.

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

BRABANEC, R.

On the threshold of a new year, p. 1, SLEVARENSTVI (Ministerstvo strojirenstvi a Ministerstvo hutniho prumyslu a rudnych dolu) Praha, Vol. 3, No. 1, Jan. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 1955

BRABENEC, R.; ULC. A.

"Introducing work in several shifts. p. 239"

SLEVARENSTVI. (Ministerstovo tezkeho strojirenstvi a Ceskoslovenska vedecka technicka spolecnost pro hutnictvi a slevarenstvi) Praha, Czechoslovakia, Vol. 3, No.8 Aug. 1955.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No.6 June 1959
Unclas.

[redacted]

"Foreword name. [Avt. 1.] Praha, Statni nakl. technicke literatury. [Editor name.] 1st ed. illus., diagrs., tables]."

[illegible] (1966, Prague, Czechoslovakia)

[redacted]

Monthly Index of East European Accession (MIEEA) LC, Vol. 7, No. 8, 1966

BRABENEC, R.

On the threshold of the second Five-Year Plan. p. 1
SLEVARENSTVI, Prague, Vol 4, no. 1, Jan. 1956.

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

BRABENEC, R.

State and outlook of Czechoslovak founding. p. 104.

SLEVARENSTVI Vol. 4, no. 4, Apr. 1956

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956

BRABENEC, R.

BRABENEC, R. Notes on the International Foundry Congress and Exhibition in Dusseldorf. p. 321. Vol. 4, no. 11, Nov. 1956. SLEVARENSTVI. Praha, Czechoslovakia.

SOURCE: EAST European Accessions List (EEAL) Vol. 6, No. 4--April 1957

BRABENEC, R.

Use of pneumatic hammers in foundries. p. 241. (SLEVARENSTVI, Vol. 5, No. 8, Aug 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

BRABENEC, RUDOLF.

Prirucka pro slevace. Napsal kolektiv slevarenskych techniku. Clenove kolektivu: Josef Dlezek [et al. Vyd. 1.]

Praha, Czechoslovakia. Statni nakl. technicke literatury, 1959. 333 p.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
Uncl.

STARKA, Lubos; BRABENKOVA, Hedvika.

Fractionation of urinary 17-ketosteroids with paper chromatography.
Cas. lek. cesk. 98 no.39:1229-1232 25 S '59.

1. Vyzkumny ustav endokrinologicky, Praha, prednosta doc. dr. K. Silink.
(17-KETOSTEROIDS urine)

BRABETS, V.I.; BRABETS, O.A.

Effect of surface preparation on drawing of nickel and copper-nickel alloy wire. TSvet. met. 38 no.6:72-76 Je '65. (MIRA 18:10)

24(5),21(7)

AUTHORS: Brabets, V., Gromov, K. Ya., Dzhelepov, B. S., Dmitriyev, A. G., Morozov, V. A.

SOV/48-23-7-4/31

TITLE: Conversion Electrons of Yb^{166} and Tu^{166} (Konversionnyye elektrony Yb^{166} i Tu^{166})

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 7, pp 812-818 (USSR)

ABSTRACT: The spectrum of the conversion electrons of the decay $Yb^{166} \xrightarrow[60s]{K} Tu^{166} \xrightarrow[7,7h]{K} Er^{166}$ (stable) was investigated by an improved magnetic β-spectrometer. The obtaining of the isotopes Yb^{166} and Tu^{166} carried out in Leningrad is described in short. The first part of this paper deals with the conversion electrons of Tu^{166}. As Tu^{166} has the daughter isotope Yb^{166}, three types of preparations were investigated: 1) The thulium fraction obtained by means of chromatographic separation from the rare earths. 2) The ytterbium fraction obtained by means of chromatographic separation from rare earth elements. 3) A thulium preparation separated from the ytterbium fraction

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20 hours after the chromatographic separation. The results of the measurements are compiled in table 1, and it becomes clear that the spectrum of the conversion electrons of Tu^{166} in most cases agrees with the ytterbium fraction. It is pointed out that the value of these results depends on the evaluation of the limiting intensity of the β-rays. Figure 1 shows the spectrum of the conversion electrons of the isotope Tu^{166} in the range of 10-185 kev of the thulium preparation separated from the ytterbium fraction. All intensities have a half-life of eight hours. Table 1 compares the experimentally determined ratios of the intensities of the K- and L-conversion lines with the theoretical ratios. The second part investigates the conversion electrons of the isotope Yb^{166}, and it is ascertained that the ratios of the intensities of the K- and L-conversion lines of the γ-transition of 80 kev strongly differ. The papers by V. N. Pokrovskiy (Ref 8) and Ye. P. Grigor'yev are mentioned here. Further it was ascertained that a γ-transition with the energy of 81.0 kev takes place in the decay $Yb^{166} \longrightarrow Tu^{166}$, and one with

79.4 kev in the decay $Tu^{166} \longrightarrow Er^{166}$. Finally, the intensity of the K-2L-Auger-electrons is investigated with the aid of the diagrams (Figs 1 and 4), and it is ascertained that the data obtained are in good agreement with the data known from publications. There are 4 figures, 3 tables, and 12 references, 5 of which are Soviet.

ASSOCIATION: Radiyevyy institut im. V. G. Khlopina Akademii nauk SSSR (Radium Institute imeni V. G. Khlopin of the Academy of Sciences, USSR)

BRABETS, V. [Brabec, V.]; KRATSIK, B.; KRATSIKOVA, T.; MILIGI, Z.; VEYS, M.; MASHTALKA, A.; VOBETSKY, M.; GNATOVITSZ, V.

Radioactive radiation from neutron-deficient hafnium isotopes. Izv.AN SSSR.Ser.fiz. 25 no.10:1266-1268 '61. (MIRA 14:10)

1. Institut yadernykh issledovaniy Chekhoslovatskoy Akademii nauk, Rzhezh, i Fakul'tet tekhnicheskoy i yadernoy fiziki ChVUT, Praga.
(Hafnium--Isotopes)

BRABETS, V. [Brabec, V.]; FIALA, Ya. [Fiala, J.]

Viability of erythrocytes following the transportation of preserved blood. Probl.gemat.i perel.krovi no.3:53-55 '62. (MIRA 15:3)

1. Iz Instituta gematologii i perelivaniya krovi (dir. - prof. Ya. Gorzheyshi), Praga.
(ERYTHROCYTES) (BLOOD--TRANSPLANTATION)

LIBANSKY, J.; BRABEC, V.; MALASKOVA, V.; PUDLAK, P.

Post-transfusion hemolytic reactions without kidney function disorders. Cas.lek.cesk 100 no.37:1157-1162 15 S '61.

(BLOOD TRANSFUSION compl) (HEMOLYSIS)

S/048/62/026/012/006/016
B117/B186

AUTHORS: Brabets, V., Kratsik, B., Kratsikova, T., Mashtalka, A., Veys, M., Vobetski, M., and Chernukh, I.

TITLE: Conversion spectrum of Hf^{172}

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 12, 1962, 1486 - 1487

TEXT: The long-lived hafnium isotope Hf^{172} of $T_{1/2}$ = 5 years was obtained in the synchrocyclotron of the OIYaI in Dubna by bombarding a tantulum target with protons for a month. The hafnium fraction was separated from the target using the method described by M. Vobecký and A. Mastalka (Collection Czechoslov. Chem. Commun., 26, 1716 (1961)). The conversion spectrum of the hafnium fraction was measured with a β-spectrometer having an intermediate image and a 2% resolution, 7 months after irradiation had been completed. By this time the short-lived isotope had decayed completely and the Hf^{175}, of $T_{1/2}$ = 70 days to a considerable extent. The source of radiation used for most of the experiments was an equilibrium mixture of

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Conversion spectrum of Hf^{172}

Hf^{172} and Lu^{172} on aluminum foil. Measurements carried out in the range up to 1100 kev showed that Hf^{172} has no conversion lines above 120 kev. In the range up to 120 kev, 11 lines were found, corresponding to transitions with energies of 23.6, 42, 44.5, 81.1, 112.7, and 125.5 kev. The γ-transition with an energy of 112.7 kev is already known from the decay of Lu^{172}. The increase in intensity of the conversion line corresponding to this transition took place more slowly than that of the other conversion lines of Lu^{172}. This leads to the conclusion that there exist conversion lines belonging to Hf^{172} at this position in the spectrum, which also correspond to a transition having an energy of about 112.7 kev. As a result of the incomplete separation of the individual lines, the relative intensities of the conversion lines in question could only be determined approximately. For the same reason, it was impossible either to determine the multipole order of the γ-transition unambiguously, or to propose a final decay scheme. This paper was read at the 12th Annual Conference on Nuclear Spectroscopy held in Leningrad from January 26 through February 2, 1962. There is 1 table.

Conversion spectrum of Hf^{172}

S/048/62/026/012/006/016
B117/B186

ASSOCIATION: Institut yadernykh issledovaniy Chekhoslovatskoy akademii nauk, Rzhezh (Institute of Nuclear Research of the Czechoslovak Academy of Sciences, Rzhezh); Fakul'tet tekhnicheskoy i yadernoy fiziki ChVUT (Division of Technical and Nuclear Physics ChVUT)

Card 3/3

BRABETS, V.I.; NUZHNOV, A.G.

Production of nickel-base themoelectrode wire. TSvet. met. 36 no.12: 67-69 D '63. (MIRA 17:2)

BRABETS, V.I.; BRABETS, O.A.

Effect of surface preparation on drawing of nickel and copper-nickel alloy wire. TSvet. met. 38 no.6:72-76 Je '65.
(MIRA 18:10)

MASLOV, I.N.; SHKVARKINA, T.I.; KIZIMA, P.N.; BRABETS, Ye.N.

Comparison testing of various wheat varieties different as to their baking properties. Trudy TSNIIKHP no.8:100-111 '60. (MIRA 15:8)

(Wheat—Testing)

MASLOV, I.N.; SHKVARKINA, T.I.; KIZIMA, P.N.; BRABETS, Ye.N.

Estimating the baking properties of the new wheat varieties presently under industrial testing in collective and state farms and having prospects for use in zoning. Trudy TSNIIKHP no.8:90-100 '60. (MIRA 15:8)

(Wheat--Testing)

BRABICH, V.M.

Effective nutrition for college students. Vop.pit. 15 no.2:19-22 Mr-Ap '56. (MLRA 9:7)

1. Is Nauchno-issledovatel'skoy laboratorii Narpita, Leningrad.
(NUTRITION,
of university students (Rus))
(UNIVERSITIES,
students, nutrition (Rus))

DOBROVOL'SKIY, I.G.; ERABICH, V.M.

Antonius Pius' coins from Alexandria with reproduction of zodiac signs. Ist.-astron.issl. no.5:223-229 '59.
(MIRA 12:12)

(Alexandria--Coins, Ancient)

BRABICH, V.; DOBROVOL'SKIY I.

Plants and animals on coins. IUn.nat. no.8:33-34 Ag '60.
(MIRA 13:8)
(Numismatics)

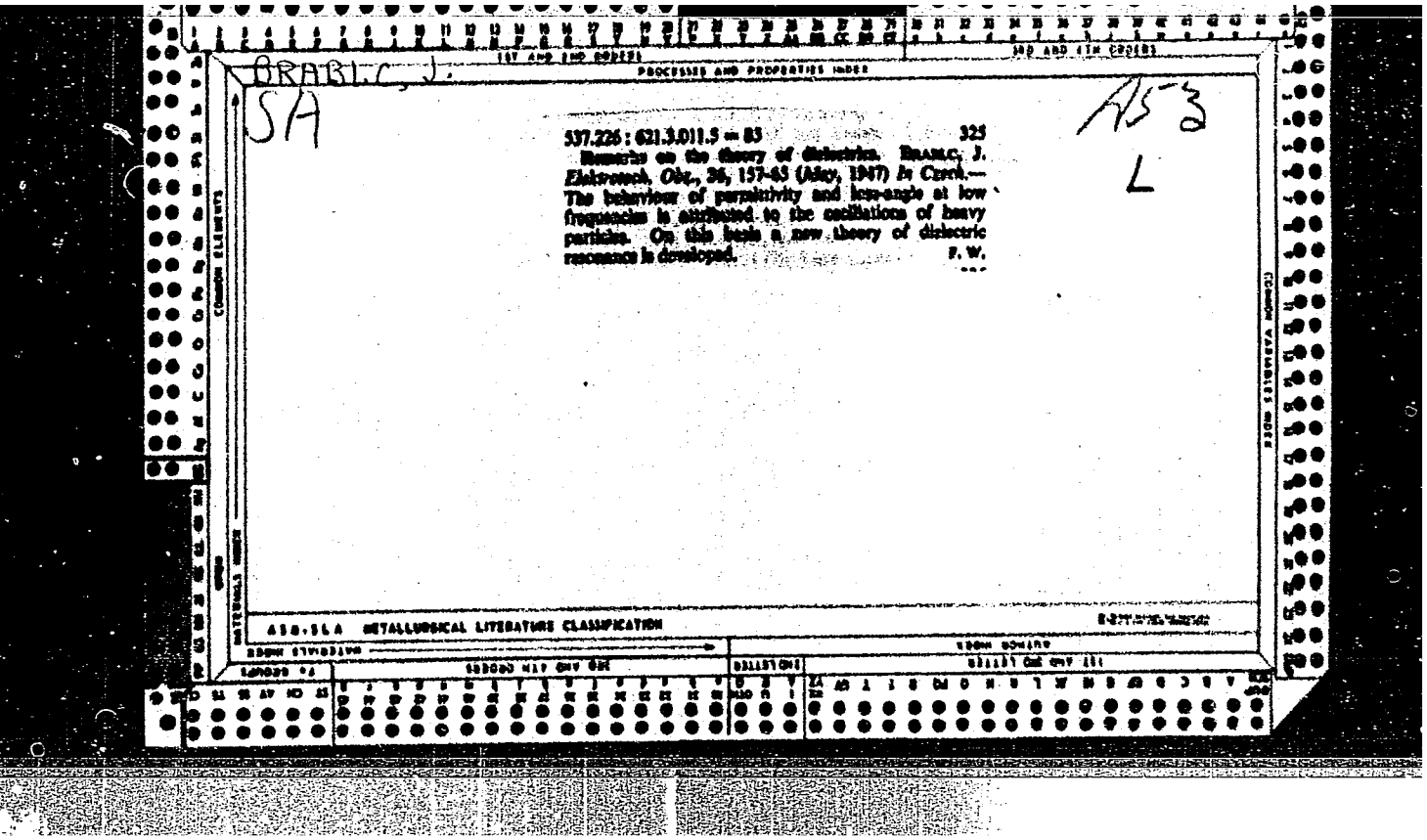
CZECHOSLOVAKIA

BRABINEK, M.,MD ; NACHTMANNOVA, L., MD.

Children's Bath Clinic for Diseases of the Liver and Digestive Tract (Detska lazenska lecebna pro choroby jaterni a traviciho ustroji), Karlovy Vary (for both)

Prague, Prakticky lekar, No 17, 1963, pp 652-656

"Ulcer Ailments in Children."



BRABLC, J. CZECH

621.315.617.4

3596. Polymerization of impregnating lacquers. J. BRABLC. *Elektrotech. Obzor*, 43, No. 7, 342-6 (1954) In Czech.

The polymerization of a glyptol type lacquer mixed with transformer oil is followed by taking viscosity measurements. Conclusions are drawn about conditions of storing the lacquer and its quality from the measurement of the hardening curves. P. CUCKA

BRABLC, JOSEF

Category : CZECHOSLOVAKIA/Atomic and Molecular Physics - Gases D-7

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 918

Author : Brablc, Josef
Title : Dependence of the Viscosities of Gas, Vapor, and Liquid on the Pressure

Orig Pub : Ceskosl. casop. fys., 1955, 5, No 6, 670-675

Abstract : See Ref. Zhur. Khim. 1956, 35520

Card : 1/1

CZECHOSLOVAKIA / Physical Chemistry--Liquids. B-6
Amorphous substances. Gases.

Abs Jour : Referat Zhur--Khimiya, No. 11, 1959, 37778

Author : Brablo, J.
Inst : Not given
Title : On the Problem of the Analytical Formulation of the Dependence of the Viscosity of Gases, Vapors, and Liquids on the Temperature and on the Pressure.

Orig Pub : Ceskoslov Casop Fys, 8, No. 4, 444-449 (1958) (in Czech); Chekhoslov Fiz Zhur, 8, No. 4, 450-456 (1958) (in German with a Russian summary)

Abstract : The author has plotted the reduced viscosity (the viscosity divided by its value at the critical point) as a function of the temperature and the pressure, using data reported in the literature. A new position was selected for the

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null isobar, which was located somewhat lower than usual. The null isobar resembles the Sazerlend /transliterated/ curve but has a smaller coefficient /sic: slope?/, which has been extrapolated to zero pressure taking into account the pressure of the gas. The new position of the null isobar makes it possible to use the similarity of the course of the isotherm to the form of the van der Waals equation in the analytical formulation of the former. The analytical expression for the viscosity isotherm is expressed in curvilinear coordinates. The straightline axis represents the logarithm of the viscosity /units not specified/, while the

Abs Jour : Referat Zhur--Khimiya, No. 11, 1959, 37778

curvilinear axis represents the asymptote towards which one of the isotherms is tending. In this system of cordinates the isotherm equation is formally identical with the van der Waals equation. Values for the van der Waals constants are obtained after the transformation to rectangular coordinates, which is made on the basis of assumptions concerning the nature of the dependence of the shape of the asymptote on the temperature and the pressure. Contradictions between the expression obtained and the theorem of Birkhoff are discussed together with future possibilities for a similar formulation of the analytic dependence of other transport processes. -- S. Shushurin

CZECHOSLOVAKIA/Atomic and Molecular Physics - Gases. D.

Abs Jour : Ref Zhur - Fizika, No 7, 1959, 15275

Author : Brablc, Josef

Inst : Vys-ke skoly Zeleznicu Czechoslovakia

Title : On an Analytic Representation of the Dependence of the Viscosity of Gases, Vapors, and Liquid on the Temperature and on the Pressure.

Orig Pub : Chekhosl. fiz. zh., 1958, 8, No 4, 450-456

Abstract : Based on an analysis of the experimental data on the behavior of viscosity over a wide range of temperatures and pressures, including the slippage region, the author derives an analytical expression relating the viscosity of gases, vapors, and liquids, with the temperature and the pressure. The form of this equation recalls the Van-der-Waals equation. The result obtained, in the

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Abs Jour : Ref Zhur - Fizika, No 7, 1959, 15275

author's opinion, shows that the theorem of corresponding states is correct also for the viscosity coefficient. A similar result can also be expected for the coefficient of heat conduction and for the coefficient of diffusion.
-- A.I. Osipov

45265
Z/037/62/000/005-6/014/049
E192/E382

24.2120

AUTHOR: Brablc, J.

TITLE: The electrical resistance of plasma as a function of temperature and pressure

PERIODICAL: Československý časopis pro fysiku, 12 no. 5-6, 1962, 509 - 516

TEXT: An analogy between the diffusion coefficient of a physical system and the electrical resistivity $\varrho(p, T)$ of plasma is established by examining the diffusion equation and the corresponding Maxwell equations for plasma. A set of graphs showing ϱ as a function of the normalized temperature T for various normalized pressures is given. This is shown in Fig. 3. The dotted curve in the figure is a critical isobar for a normalized pressure of $p_R = 1$. It is seen that four regions can be distinguished on the curves of Fig. 3: I) the region of high-pressure plasma for $p_R > 1$; II) region of non-saturated ionisation; III) region of non-self-maintaining discharge and IV) region of the electron gas. It is therefore possible to distinguish, during analysis of the plasma, the four regions

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The electrical resistance ....

similar to those observed in liquids. Analogy with the diffusion or viscosity can be used to determine $\rho(p, T)$ analytically and it is found that:

$$\frac{T}{p} = \frac{B}{\rho - b(T)} - \frac{A}{\rho^2}, \quad b(T) = b_o T^{1/2} \exp\left(-\frac{\varkappa}{T}\right) \qquad (6)$$

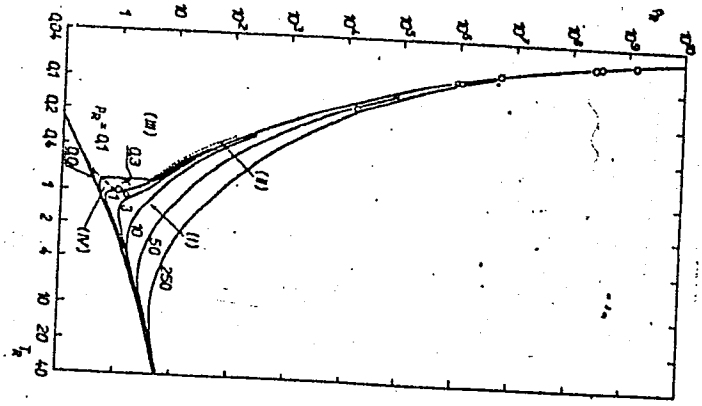
where A and B are constants. Eq. (6) gives a qualitative expression for a resistance isobar. There are 4 figures.

ASSOCIATION: Katedra fysiky Vysoke školy dopravní, Praha
(Department of Physics of the Transport University, Prague)

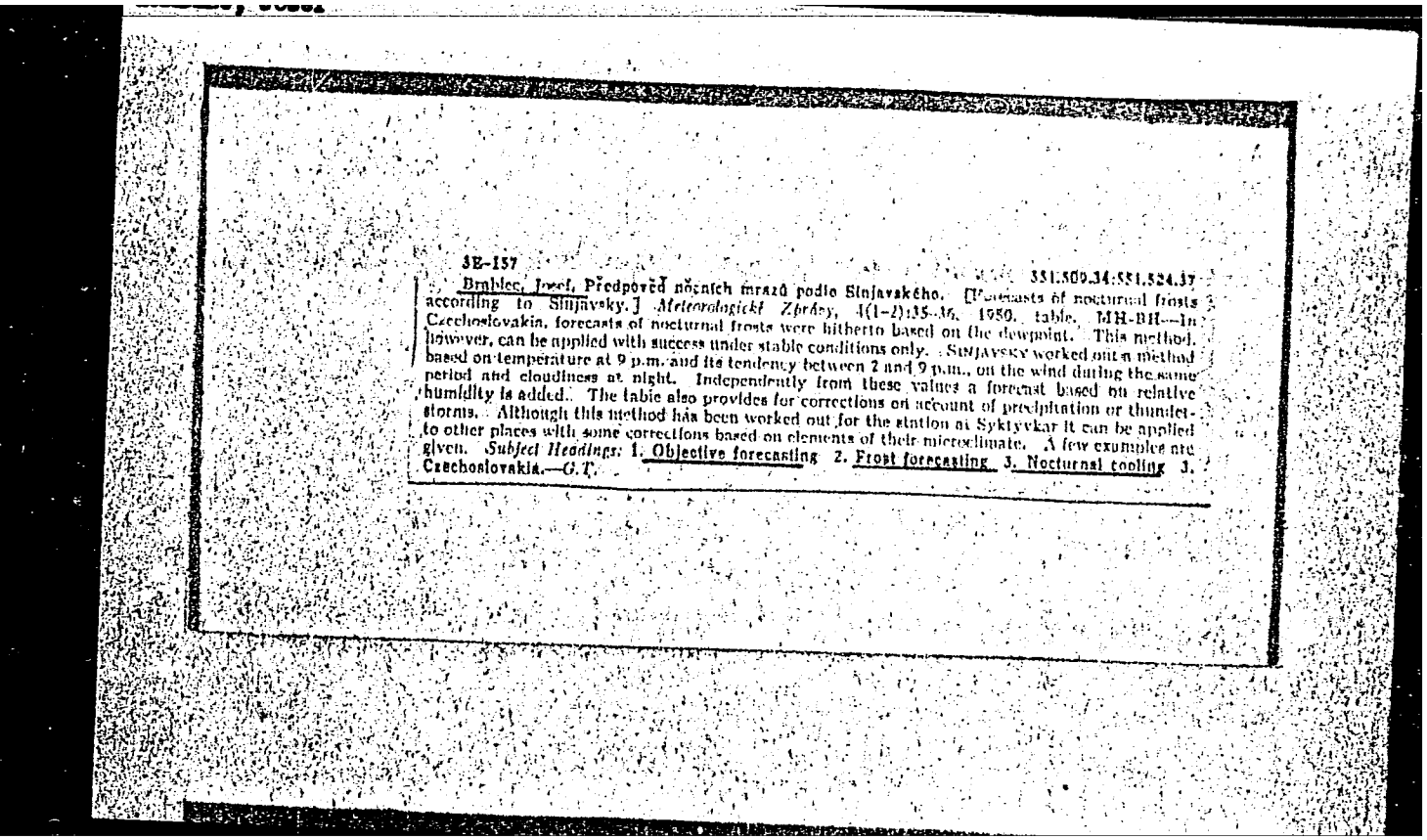
The electrical resistance ....

Z/037/62/000/005-6/014/049
E192/E382

Fig. 3:

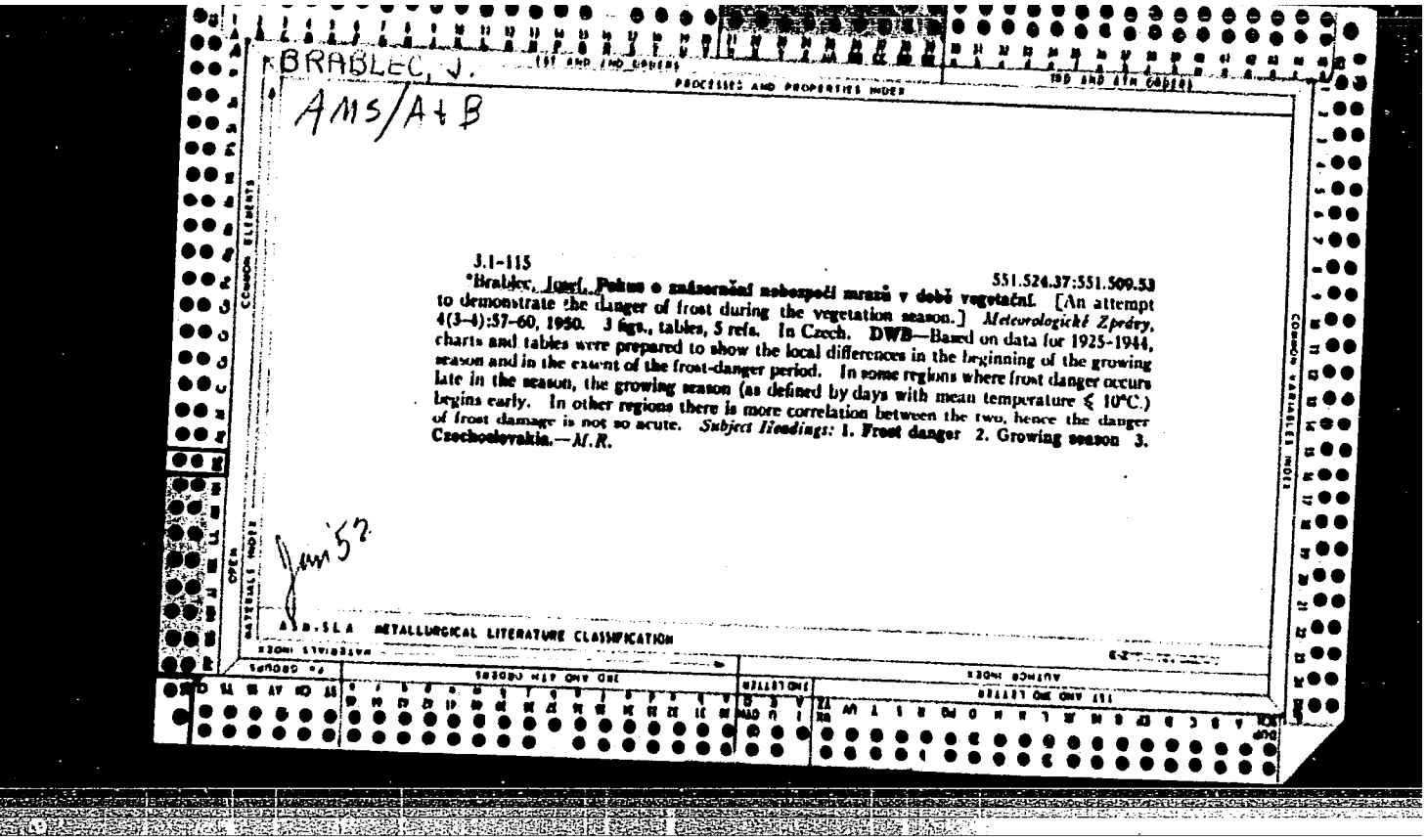


Card 3/3



3E-157 551.509.34:551.524.37

Brnblec, Josef. Předpověď nočních mrazů podle Sinjavského. [Forecasts of nocturnal frosts according to Sinjavsky.] *Meteorologické Zprávy*, 4(1–2):35–36, 1950. table. MH-BH—In Czechoslovakia, forecasts of nocturnal frosts were hitherto based on the dewpoint. This method, however, can be applied with success under stable conditions only. Sinjavsky worked out a method based on temperature at 9 p.m. and its tendency between 2 and 9 p.m., on the wind during the same period and cloudiness at night. Independently from these values a forecast based on relative humidity is added. The table also provides for corrections on account of precipitation or thunderstorms. Although this method has been worked out for the station at Syktyvkar it can be applied to other places with some corrections based on elements of their microclimate. A few examples are given. *Subject Headings:* 1. Objective forecasting 2. Frost forecasting 3. Nocturnal cooling 3. Czechoslovakia.—*G.T.*



BRABLEC, J.

AMS/A+B

3.1-115

551.524.37:551.509.53

*Brablec, Josef. Pokus o znázornění nebezpečí mrazů v době vegetační. [An attempt to demonstrate the danger of frost during the vegetation season.] *Meteorologické Zprávy*, 4(3–4):57–60, 1950. 3 figs., tables, 5 refs. In Czech. **DWB**—Based on data for 1925–1944, charts and tables were prepared to show the local differences in the beginning of the growing season and in the extent of the frost-danger period. In some regions where frost danger occurs late in the season, the growing season (as defined by days with mean temperature ≤ 10°C.) begins early. In other regions there is more correlation between the two, hence the danger of frost damage is not so acute. *Subject Headings:* 1. **Frost danger** 2. **Growing season** 3. **Czechoslovakia.**—*M.R.*

Jan '52

A.S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

BRABLEC, J.

Phenological calendar of nature at Strednice u Melnika in Bohemia. p. 78.
METEOROLOGICKE APRAVY. Vol. 6, N_o. 3, June 1953

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

BRABLE J.

CZECHOSLOVAKIA/Atomic and Molecular Physics - Gas. D

Abs Jour : Ref Zhur Fizika, No 1, 1960, 905

Author : Brable, Josef

Inst : -

Title : On the Analytic Representation of the Dependence of the Viscosity, of Gases, Vapors, and Liquids on the Temperature and Pressure.

Orig Pub : Ceskosl. casop. fys., 1958, 8, No 4, 444-449

Abstract : See Referat Zhur Fizika, No 7, 1959, 15275.

Card 1/1

HRABLIK, J.

"Straightening by Fire as Achieved by Comrade Ota Vlach." p. 205, Praha, Vol. 2, no. 5, May 1954. "Discussion of Electric Spark Hardening of Tool Edges." p. 210, Praha, Vol. 2, no. 5, May 1954.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

BRABLIK, J.

Adjusting the flames, p. 173, ZVARANIE, (Ministerstvo hutneho prumyslu a rudnych bani a Ministerstvo strojarstvo) Bratislava, Vol. 3, No. 6, June 1954

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 1955

BRABLIK, J.

Straightening by flame, p. 203, STROJIRENSKA VYROBA (Ministerstvo strojirenstvi) Praha, Vol. 3, No. 5, May 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 1955

BRABLIK, Ya.; SHMELEV, A.; SHILKINA, M.M., redaktor; RAKOV, S.I., tekhnicheskiy redaktor

[Truing metal according to Otokar Vlakh's oxyacetylene method] Pravka metalla atsetileno-kislorodnym plamenem po metodu Otakara Vlakha. [Moskva] Izd-vo VTsSPS Profizdat, 1956. 64 p. (MIRA 10:2)
(Sheet-metal work) (Gas welding and cutting)

MEILA, I.; BRABORESCU, Elisabeta ; MEILA, D.

Aseptic osteonecrosis of the lunate bone caused by repeated microtrauma in the mining and metallurgic industry. Rumanian med.rev. 7 no.4:89-93 O-D'63

LUCA,P., dr.; BALABAN, Gh.conf.; GEORGESCU, L., conf.; MEILA, I.dr.; BOLOVEDEA, M. dr.; BRABORESCU, Elisabeta, dr.; LUFT.E.chim.

Association of Recklinghausen's neurofibromatosis with pheochromocytoma; adrenalectomy. Med. intern. (Bucur.) 10 no.5: 625-628 My'64

1. Lucrare efectuata in Sectia de cardiologie si Sectia de chirurgie, S.M.S., Resita.

RUMANIA

BRACACIU, Florica, Professor, Bucharest [affiliation not given]

"Aquarium Work -- a Pleasant and Interesting Occupation for Pupils."

Bucharest, Natura. Serie Biologie, Vol 15, No 2, Mar-Apr 1963, pp 65-70.

Abstract: Details the activities connected with the establishment of an "aquarium corner" at the Small Naturalists Station of the Pioneers' Palace of Bucharest. It is suggested that this experience could be used by the schools; details are given on the materials required for the fishtanks, the construction techniques, the types of plants and fishes that would be appropriate, the importance of proper lighting and heating provisions, and the various associated devices.
Includes 5 figures.

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BRACACIU, Florica, prof. (Bucuresti)

Aquarium practical tasks, a pleasant and interesting activity for pupils. Natura Biologie 15 no.2:65-70 Mr-Ap '63.

POLAK, Zdenko; ERACAK, Jaroslav

On the specific difference in the local necrotic response to infection by tobacco mosaic and cabbage black ringspot viruses in tobaccos. Biologia plantarum 4 no.2:110-111. '62.

1. Department of Plant Pathology, Institute of Experimental Botany of the Czechoslovak Academy of Sciences, Praha 6 - Dejvice, Na Karlovce 1.

BRACANIN, Frano

What one should know about the heat treatment on the fire. Basic knowledge of forging. Pogon 3 no.5/6:84-86 My-Je '62.

BRACANIN, Frano

Let us refresh our knowledge of hammering. Fixing and fastening tools. Pogon 3 no.7/8:116-118 Jl-Ag '62.

BRACANIN, Frano, pedagoski savjetnik

Let us get acquainted with welding. Pogon 4 no.1/2:26-29 Ja-F '63.

1. Direktor Ind. Skole "Joza Vlahovic", Zagreb, i clan Redakcionog odbora, "Pogon."

BRACANIN, Frano, pedagoski savjetnik

Some pointers about hand flattening and bending of thin plates. Pogon 4 no.9/10:156-157 S-O'63.

1. Direktor Ind. skole "Joza Vlahovic", Zagreb, i clan Redakcionog odbora, "Pogon".

BRACANIN, Frano, pedagoski savjetnik

Let us get acquainted with marking and checking. Pogon 4 no.11/12: 190-191 N-D '63.

1. Direktor ind. skole "Joze Vlahovic", Zagreb, clan Redakcionog odbora, "Pogon".

BRACANIN, Frano

What is good to know about bauxite and aluminum. Pogon 5 no.3/4: 51-55 Mr-Ap '64

1. Director, Joza Vlahovic Industrial School, Zagreb.

BROWN, Ray E.; BRACEVACKI, E.[translator]

Are you prone to some usual errors in management? Produktivnost 3 no.11: 736-738 N '61.

BRACEVACKI, Emina

Typewriting. Produktivnost 3 no.9:571-577 S '61.

1. Jugoslovenski zavod za produktivnost rada, Beograd.

BRACEBACKI, Emina

Studying methods of work. Tehnika Jug 18 no. 12:
Supplement: Organizacija rada 13 no. 12: 2354-2357
D '63

S/181/61/003/003/015/030
B102/B205

26.2532

AUTHORS: Brach, B. Ya., Zhdanova, V. V., and Lev, Ye. Ya.

TITLE: Thermoelectric properties of the system HgSe - HgTe

PERIODICAL: Fizika tverdogo tela, v. 3, no. 3, 1961, 786-789

TEXT: The system HgSe - HgTe, which has very interesting thermoelectric properties, has so far been investigated very insufficiently, and the published data are contradictory because the system probably contained also free Hg. A very detailed study has now been made of the thermoelectric properties of very carefully prepared samples which contained no unreacted Hg any longer. Hg of the type P-1 (R-1) with a purity of 99.999%, Se with a purity of 99.999% produced by the factory "Krasnyy khimik", and bidistilled Te were used for the synthesis. The latter contained Al and Pb impurities which had been detected by spectrum analysis. The pure elements were fused in quartz ampoules (HgTe~660°C, HgSe~790°C). To obtain a complete reaction, the melts were kept at 500°C for 100 hr, after which no free Hg was found any longer. Specimens of a size of 0.8 - 0.9 cm^2 · 25 mm were subjected to a homogenizing heat treatment (200°C, 200 - 300 hours). Subsequently, they

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Thermoelectric properties ...

were subjected to X-ray and microstructural analyses. The electrical conductivity σ, the thermo-emf α, and the Hall constant R of these specimens at room temperature were measured. Results: A study of the dependence of σ on the composition of the system has shown that σ has a broad maximum at a concentration of 50:50. α was found to be a linear function of the concentration; it changes from -95 $\mu v/^{o}C$ (HgSe) to -115 $\mu v/^{o}C$ (HgTe). This low value of α indicates either a nearly stoichiometric composition or degeneracy. A study of the deviation of the curve $\alpha = f(\log n)$ from the theoretical one shows that there exists a partial degeneracy. Taking the latter into account, the authors calculated the carrier concentration (n) from the Hall constant. Fig. 4 illustrates the dependence of carrier concentration and carrier mobility (u) on the composition. u had been calculated from R and σ. Whereas n is almost equal for both pure HgSe and pure HgTe, u is 20,000 for pure HgSe, and 22,900 $cm^2/v \cdot sec$ for pure HgTe. The absence of a λ-point is indicative of the absence of a hyperstructure. Many specimens which had not been subjected to heat treatment, showed anomalously high values of u (at $n \sim 3.1\text{-}3.9 \cdot 10^{17} cm^{-3}$): 28,000 $cm^2/v \cdot sec$ for 93% HgSe + 7% HgTe, 31,000 $cm^2/v \cdot sec$ for 80% HgSe + 20% HgTe, 32,000 $cm^2/v \cdot sec$ for 30% HgSe + 70% HgTe. Fig. 5 shows $u = f(\log n)$ for specimens of different compositions.

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Thermoelectric properties ...

The anomalous course of curves 2 and 5 can be ascribed either to a nearly stoichiometric composition or to the effect of impurities. It is known that the effective carrier masses for HgSe and HgTe are very small. The values calculated for different compositions (1) in mole% are listed in a table. The authors thank A. R. Regel' for his interest in the work, and L. S. Stil'bans and B. P. Mitrenin for discussions. Ye. I. Nikol'skaya is mentioned. A. I. Zaslavskiy and T. B. Zhukova carried out the X-ray structural analyses. There are 5 figures, 1 table, and 17 references: 10 Soviet-bloc and 7 non-Soviet-bloc.

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors, AS USSR, Leningrad)

SUBMITTED: July 8, 1960

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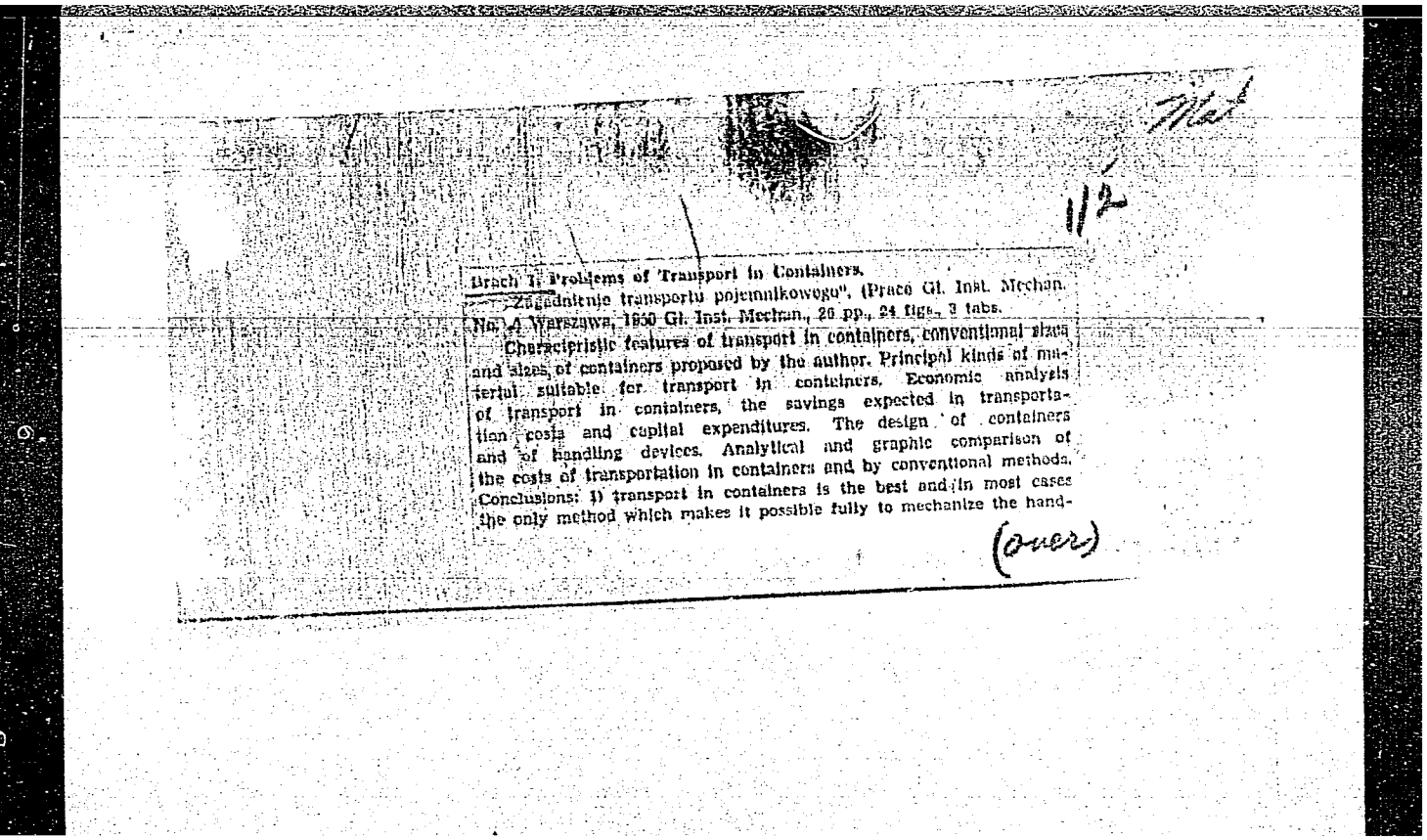
ARIYA, S.M.; BRACH, B.Ya.

Electroconductivity of iron oxide at high temperatures. Fiz. tver tela 5 no.12:3496-3499 D '63. (MIRA 17:2)

1. Leningradskiy gosudarstvennyy universitet.



Brach I. Problems of Transport in Containers.
"Zagadnienie transportu pojemnikowego", (Prace Gl. Inst. Mechan.
No. 4 Warszawa, 1950 Gl. Inst. Mechan., 20 pp., 24 figs., 3 tabs.

Characteristic features of transport in containers, conventional sizes and sizes of containers proposed by the author. Principal kinds of material suitable for transport in containers. Economic analysis of transport in containers, the savings expected in transportation costs and capital expenditures. The design of containers and of handling devices. Analytical and graphic comparison of the costs of transportation in containers and by conventional methods. Conclusions: 1) transport in containers is the best and in most cases the only method which makes it possible fully to mechanize the hand-

(over)

Brach, Z.

ling of material; 2) the development of transport in containers offers considerable advantages to national economy; 3) extensive development of transport in containers is possible under the following conditions: a) the size and charging capacity of containers should be chosen by reference to the maximum space saving in railway transportation and facility of loading operations on lorries. The present paper proposes three different sizes in containers which fulfil these requirements, b) the handling equipment should be simple, standardised and available in all places where container transport may be expected. Swing cranes, overhead travelling cranes, electric fork lift trucks and carriers mentioned in this paper fulfil these requirements and are suitable for general use; c) for facilitating transport in containers to small customers, and for handling containers on railway stations, all lorries destined for container transport should be provided with light jib cranes; 4) for very long distances, exceeding 2,500 km, transport in containers has no obvious advantages over conventional methods of transport.

Brach I. Engineering Progress and Methods of Defining It.

"...rostu, techniczny i metody jego określania". Przegląd Techniczny No. 8, 1953, pp. 300--308.

Engineering progress arising from efforts to increase output and to improve human work conditions. Own cost as a factor indicating the extent of engineering progress in the performance of economic task.. Formulae which make it possible to analyse the cost of production per-unit at all work points, and to ascertain which of the alternative novel forms of solutions is the more conductive to engineering progress. Survey of certain work methods introduced with a view to achieving engineering progress. ...

BRACH, I.

The New Stage in Organization and Development of Scientific Technical Societies

Source - PRZ GLAD MECHANICZNY (Mechanical Engineering Review) Poland
Vol. XII, No. 10 October 1953, pp. 339 - 370

BRACH, Ignacy

Urzadzenia do transportu bliskiego; wykaz i charaktarystyki techniczne. Pod red. Ignacego Bracha. Wyd. 1. Warsgawa, Panstwowe Wydawn. Techniczne, 1954. 335 p. (Installations for intrafactory transportation; a list and technical characteristics. 1st ed. illus., bibl., diagrs., tables).

SO: Monthly list of East European Accessions List, (EEAL), LC, Vol. 4, No. 11 Nov. 1955, Uncl.

BRACH, I.

Classification of excavating machinery.

p. 349 (Przeglad Techniczny Vol. 77, no. 8, Aug. 1956. Warszawa, Poland)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

BRATH, J.

Multigrab digging machines of Polish construction. p. 197.

PRZEGLAD MECHANICZNY. (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich) Warszawa. Poland. Vol. 17, no. 5, May 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1959.

Uncla.

BRACH, Ignacy, prof.inz.

Science and industry. Przegl techn 79 no.7:239-243 Ap '58.

BRACH I.

TECHNOLOGY

Periodicals: PRZEGLAD TECHNICZNY. Vol. 79, no. 17, Sept. 1958

BRACH, I, Experts of the scientific-technical organizations. p. 820.

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BRACH, I.

TECHNOLOGY

PERIODICAL: MECHANIK, Vol, 32, no. 1, Jan. 1959.

BRACH, I. The tasks of the Association of Polish Mechanical Engineers and Technicians in the framework of decisions taken by the 12th Plenum of the Central Committee of the Polish United Workers Party. p. 23.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4
April 1959, Unclass.

BRACH, Ignacy, prof., dr., inz.

The problem of transport in unit loads. Przegl mech 20 no.23:699-702 '61.

1. Politechnika Warszawska.

(Transportation)

BRACH, Ignacy, prof., dr., inz.

Working system load of single bucket excavators. Przegl mech 20 no.24:752 '61.

1. Politechnika Warszawska.

(Excavating machinery)

BRACH, Ignacy (Warszawa)

Theories on the comminution of hard substances. Archiw bud masz 9 no.1:3-27 '62.

BRACH, Ignacy, prof.

The Scientific and Technical Association of Polish Mechanical Engineers and Technicians; its activities and plans. Przegl techn 79 no.1:32 Ja '58.

1. Przewodniczacy Zarzadu Glownego Stowarzyszenia Naukowo-Technicznego Inzynierow i Technikow Mechanikow Polskich, Warszawa.

BRACH, I., prof. dr inz.

Mechanization of digging as a topic of the International Conference in Dresden. Przegl budow i bud mieszk 34 no.2:102, 107 F '62.

BRACH, Ignacy, prof. dr

Theories of the granulation of minerals; fundamentals for the computation of power and efficiency of granulating machines. Przegl mech 21 no.14:421-426 25 Jl '62.

1. Stowarzyszenie Inzynierow Mechanikow Polskich i Politechnika, Warszawa.

BRACH, Ignacy, prof. dr inz.

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1. Rzeczoznawca Stowarzyszenia Inzynierow i Technikow Mechanikow Polskich, Kierownik Katedry i Zakladu Maszyn Budowlanych i Drogowych, Politechnika, Warszawa.

BRACH, Ignacy, prof. dr

International Conference on Mechanization of Earthwork.
Przegl mech 22 no. 23:742-743 10 D '63.

BRACH, Ignacy (Warszawa)

Certain problems concerning the new hypothesis on multiple crushing work in mineral comminution processes. Archiw bud masz 11 no. 1: 39-47 '64.

BRACH, Ignacy, prof. dr inz.

Hypothesis of reiterated crushing work in the process of breaking fragile bodies and its further development. Przegl mech 24 no.3:65-69 10 F '65.

1. Head, Department of Building and Road Construction Machines of the Warsaw Technical University.

BRACH, Ignacy; ROJEK, Karol; WISLICKI, Alfred (Warszawa)

International Conference on Mechanization in Earthwork. Przegl budowl i bud mieszk 36 no.3:150-151 Mr '64.

BRACH, Ignacy, prof., dr., inz.; CIECHANOWSKI, Zygmunt, prof., dr., inz.

New honorary members of the Polish Engineers and Technicians-Mechanics Association. Przegl mech 20 no.21:664-665 '61.

1. Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich.

(Poland--Engineers)

BRACH, Ignacy, prof. dr

Mechanization of digging. Problemy 19 no.12:775-776 '63.

1. Kirownik Katedry Maszyn Budowlanych i Drogowych, Politechnika, Warszawa.

OLIKER, I.I., kand. tekhn. nauk; PERMYAKOV, V.A., kand. tekhn. nauk; BRACH, N.M., inzh.

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