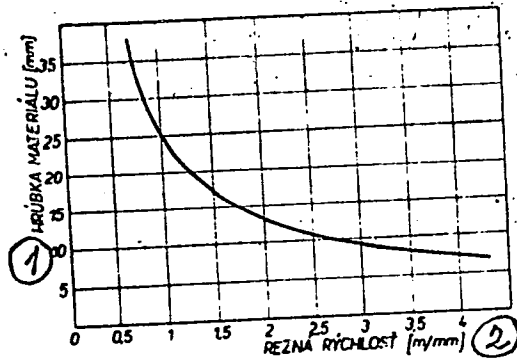


Gas-shielded electric-arc...



Obr. 11. Závislosť rýchlosti rezania od hrúbky hliníkového plechu.

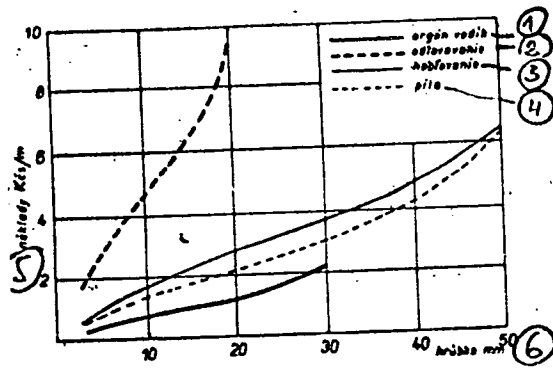
Current, 250-380 amp.; voltage, 65-75 v; gas quantity, 22-25 liters/min. The pattern of the curve for other materials is similar except that the cutting speeds are lower. The economy of the new method as compared to other cutting methods can be seen from Fig. 12.

Card 5/7

SLOV/006/60/000/001/002/002
D216/D306

Fig. 11. Dependence of cutting speed on thickness of aluminum plate. - Legend: (1) Material thickness (mm); (2) Cutting speed (m/mm)

Gas-shielded electric-arc...



Obr. 12. Ekonomía delenia hliníka.

SLOV/006/60/000/001/002/002
D216/D306

Fig. 12. Economy of aluminum plate cutting. - Legend:
(1) argon-hydrogen; (2) melting down; (3) planing; (4) sawing; (5) costs (Kčs/m; (6) thickness (mm)

In conclusion it can be said that the gas-shielded arc cutting method can be advantageously applied to cutting aluminum, copper, stainless-clad plates and other materials which cannot be severed by

oxygen cutting. The fused-on and heat-affected zones in all these materials are much smaller than with oxygen cutting. The kerf faces are of a high quality and the economy is very favorable and was confirmed

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Gas-shielded electric-arc...

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D216/D306

during the test operation of the prototype machines. There are 12 figures.

ASSOCIATION: VUZ Bratislava

Card 7/7

12360

89840
G/014/60/000/002/002/002
D027/D109

AUTHOR: Matejec, M., Engineer

TITLE: New equipment for cutting of metals with the aid of the shielded electric arc.

PERIODICAL: Schweisstechnik, no. 2, 1960, 51-53

TEXT: Many tests have been made during the past years to study the phenomena of the shielded arc. However, a practical evaluation was made possible only recently when with the aid of a special test arrangement the arc plasma in the form of a narrow nozzle was used for cutting only, thus eliminating the material transport, whereas the arc transporting the welding material is only used for welding and fillet welding. The author then briefly describes fundamentals of shielded arc welding and mentions the following characteristic results obtained during electric arc tests: (1) the arc is thin where- by its caloric value is very large due to the surrounding atmosphere; (2) voltage and amperage have to match the thickness of the material to be cut; (3) that part of the heat generated at the electrode and in the upper part of the arc must be transferred to the material by the stream of gas; (4) the

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89840

G/014/60/000/002/002/002
D027/D109

New equipment for cutting metals

exhaust velocity of gases in the arc and in the jacket is so high, that the gas stream, reinforced by the influence of the arc, drives off the molten material from the cutting groove so that edges remain smooth and clean.

The arc voltage depends on the elements of which the gas shielding surrounding the arc is composed. By adding hydrogen to argon - eventually by adding also nitrogen - the arc voltage increases to 60 to 90 V due to dissociation. A further increase of the terminal voltage above 100 to 110 V would endanger handling during operation. Hydrogen increases remarkably the exhaust velocity of gases at the torch opening and directly effects the removal of molten material from the cutting groove. Its quantity depends on the characteristic of the material to be cut; and also the mixture ratios argon - hydrogen, and nitrogen - hydrogen change.

After finishing the tests on properties of the narrow arc, a prototype of the VUS torch "arg.ORS" was developed. It was intended to also use this torch with present oxygen torches. Fig.2 shows the complete set, Fig.3 the semi-automatic torch cutter "Mikron" RSO (with oxyacetylene torch replaced by arc torch), and Fig 4 shows the hand torch (abstractor's note: Figs 3 & 4 have been mixed up in the text).

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D027/D109

New equipment for cutting metals.....

Cutting of edges can be performed by the usual adjusting of an angle under which the torch has to cut. The orifice must be designed such as to enable an arbitrary angle setting without changing the distance between the material and the orifice. Torch cutting of cast iron, plated steel and other hard-to-cut metals is not limited by the material property but only by material thickness. All edges cut with the arc are straight and clean and can be used for welding without any additional processing.

According to the given conditions aluminium can be cut up to 35 mm thickness, stainless steel and copper up to 30 mm thickness. For cutting of greater thicknesses it becomes necessary to adapt the torch as well as the power source. The cutting speed for shielded arc cutting depends to a large extent on the material thickness. Fig.5 shows the cutting speed depending on sheet thickness. For cutting of other material the diagram characteristics are similar. The author ends his article with the statement that a wide application of this shielded arc cutting equipment largely depends on the availability of a suitable power source which is presently being developed in the CSR. As temporary replacement serves the set Praga 500 (domestic product) which can be used to cut aluminum up to 35 mm and

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89840

G/014/60/000/002/002/002
D027/D109

New equipment for cutting metals.....

other material up to 20 mm thickness. For cutting of greater thicknesses
the power source has to be connected series-parallel. There are 5 figures. ✓

ASSOCIATION: Forschungsinstitut fuer Schweisstechnik, Bratislava (Research
Institute for Welding Engineering).

Card 4/6

MATEJEC, Michal, inz.

Equipment for plasma-cutting of metals. Zvaranie 11 no. 6:169-172
Je 62.

1. Vyzkumny ustav zvaracsky, Bratislava.

MATEJEC, Michal, inz.

Plasma cutting technology. Zvaranie 12 no.1:2-6 Ja '63.

1. Vyskumny ustav zvaracsky, Bratislava.

MATEJEC, R

24
16019. LIGHT ABSORPTION MEASUREMENTS ON SILVER
HALIDE CRYSTALS AT HIGHER TEMPERATURES. R. Matejec.

Z. Phys., Vol. 147, No. 5, 593-9 (1957). In German.

Crystals of Ag halides formed between quartz plates showed the long wavelength tail of the absorption curve extending further into the visible as the temperature increased up to 540°C, with a sudden larger shift at the melting point. This was more sharply defined for AgBr than for AgCl. Slow cooling reversed the changes. Several hours' heating at 500-600°C produced a new absorption band centred at about 7200 Å due to the formation of colloidal Ag, which disappeared on cooling. This colloidal Ag was not increased in quantity by exposure to white light at the high temperature. Colloidal Ag produced by light at room temperature granulated on heating and was not reabsorbed; it gave general optical absorption, not the band at 7200 Å.

S.T. Henderson

for KLS
MT

EAST GERMANY/Electricity - Dielectric.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 13310

Author : Matejec, R.

Inst : -

Title : Measurements of Electric Conductivity of Single-Crystal
Silver Halogenides.

Orig Pub : Z. Phys., 1957, 148, No 4, 454-495

Abstract : No abstract.

Card 1/1

COUNTRY	:	GDR	B-5
CATEGORY	:		
ABS. JOUR.	:	REXchim., No. 21 1959, No.	74007
AUTHOR	:	Matzke, R.	
INFO.	:	Not given	
TITLE	:	The Kinetics of the Formation and Recombination of Frenkel Defects in Silver Halide Crystals	
ORIG. PUB.	:	Z Phys, 151, No 5, 595-612 (1958)	
ABSTRACT	:	A nonequilibrium concentration of defects in Ag halide crystals under various conditions of heating and cooling has been obtained from data on the temperature dependence of the equilibrium concentration of defects, interstitial Ag^+ ions and vacancies in the silver sublattice. The kinetics for the establishment of the equilibrium concentration have been calculated. The theory is compared with the experimental results. Crystalline AgBr was rapidly cooled from room temperature	
CARD:		1/3	

COUNTRY : GDR
CATEGORY :

B-5

ABS. JOUR. : RZKhlm., No. 21 1959, No.

74007

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT

: to liquid air temperature, held for some time at that temperature, and then rapidly heated to -20°. On heating, the electric conductivity begins to increase, attains a maximum, and then decreases to the equilibrium value for that temperature. A sudden cooling of the crystals freezes the defects. The subsequent rapid heating to a temperature below that from which the initial quenching was started results in an excess concentration of defects for that particular temperature; the excess

CARD: 2/3

21

MATEJECK, J.

Paris exhibition of aeronautics. Words and pictures about the world of aviation.

p. 416

p. 418

No. 18, Sept. 1955

KRIDLA VLASTI

Praha, Czechoslovakia

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, no. 2
February 1956, Uncl.

YUGOSLAVIA/Chemical Technology. Chemical Products and Their
Application. - Corrosion. Corrosion Control.

R-4

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5046.

Author : Matejic, Milorad.

Inst :

Title : Effect of Corrosion on Fatigue of Metals.

Orig Pub: Zast. mater., 1957, 5, No 12, 423-427.

Abstract: Questions concerning the corrosion (C) of various metals and alloys under conditions of fatigue are discussed. The determination of σ_w of specimens of metals, which had preliminarily been exposed to C, yielded following results depending on the kind of C. Uniform C did not affect the fatigue of a metal. Pitting noticeably decreased σ_w , as well as other mechanical properties. Intercrystallite C affects the fatigue very much. The determination of σ_w of specimens in the simultaneous

Card : 1/4

YUGOSLAVIA/Chemical Technology. Chemical Products and Their
Application. Corrosion. Corrosion Control.

E-4

Abs Jour: Ref Zhur-Khil., No 2, 1959, 5046.

action of the corrosion medium resulted in following relations: In the absence of O_2 , a solutions of sea water had a quite negligible effect on the decrease of Δw of carbon steel. Δw of many materials (steel containing 0.5% C, stainless steel with 0.12% C and 15% Cr, duralumin, pure annealed Cu, annealed brass, Pb) was greater in vacuo than in air. In the case of Pb, it was 2.24 times greater. The presence or absence of O_2 did not influence the magnitude of Δw only in the case of alloys of Mg with 2% Al. Δw increased in dry air. It is assumed that the influence of the atmospheric C on the fatigue of metals is caused by the catalytic action of water in the presence of O_2 . The following explanation of the mechanism of destruction in consequence of the corrosion fatigue is offered. The protective film appearing on the surface of the metal is continually

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YUGOSLAVIA/Chemical Technology. Chemical Products and Their
Application. Corrosion. Corrosion Control.

H-4

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5046.

destroyed in various places under the influence of
sign-changing loads, and thus the conditions for the
formation of initial seats of corrosion in the shape of
intercrystallite fissures are created. In time the
fissures expand as branches or as a cob web under the
action of repeated loads, which results in a rapid de-
struction of the protective film. The dependence of
C_w on the number of cycles of sign-changing loads was
noted. Thus, a specimen of steel alloyed with Si and Ni
exposed to the action of sweet water withstood 1 million
of blows made at the rate of 1450 blows per min, while
at the rate of 5 blows per min and under the influence of
the same loads the destruction took place after 110,000
blows. The following are the most effective methods of

Card : 3/4

YUGOSLAVIA/Chemical Technology. Chemical Products and Their
Application. Corrosion. Corrosion Control.

H-4

Abs Jour: Ref Zhur-Khim., No 2, 1959, 5046.

protection of various steels from C in sweet water and
from the decrease of j_v connected with it: electrolytic
coating, nitriding, coating with plastics and addition
of 0.02% $Na_2Cr_2O_7$ to the water. - V. Levinson.

Card : 4/4

MARIN, S.; FRANCISKOVIC, V.; KUIS, M.; MATEJCIC, M.

Clinical and surgical evaluation of the resectability of bronchial carcinoma. Tuberkuloza 17 n 1/22195-101 Ja-Ap 1955.

1. Bolnica za tuberkulozu pluca, Isici; Kirurska klinika bolnice dr. Kucic, Rijeka. Grudno odeljenje opce bolnice, Isic; Rendgen zavod bolnice dr. Kucic, Rijeka.

MATEJIC, Vlastimir, inz. (Beograd, Bulevar Revolucije 54)

Methods of operational research. Tehnika Jug 17 no.7:Suppl.:
Organizacija rada 12 no.7:1403-1413 J1 '62.

1. Upravnik Centra za obucavanje rukovodecih kadrova, Beograd.

Czechoslovakia/Fitting Out of Laboratories - Instruments, Their Theory, Construction, and Use, H

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62005

Author: Matejicek, A., Pajl, Z.

Institution: None

Title: Device for Automatic Recording of Distillation Curve

Original

Periodical: Pritroj pro samocinny zaznam destilacni krivky, Chem. prumysl., 1956, 6, No 3, 96-98; Czech; Russian, English resumés

Abstract: Description of a laboratory instrument in which the amount of distillate is determined by means of a photoelectric cell (recording of liquid level in measuring cylinder) and is recorded concurrently with the temperature.

Card 1/1

CZECHOSLOVAKIA/Laboratory Equipment. Instruments. Their
Theory, Construction, and Use.

F

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43155.

Author : Matejicek A

Inst :

Title : Laboratory Rectification Column.

Orig Pub: Chem. promysl, 1956, 6, No 8, 343.

Abstract: Brief description of a column with an electro-
magnetic device for the collection of samples or
fractions.

Card : 1/1

MATEJICEK, A.

A laboratory viscosimeter for measurements in vessels used for chemical reactions.

p. 106 (Chemicky Průmysl. Vol. 7, no. 2, Feb. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) 10. Vol. 7, no. 2,
February 1958

SIVOKOVA, Marta; MATEJICEK, Alois

The ternary system methanol-water-1,2-dichloroethane.
Chem prum 12 no.10:544-546 0 '62.

1. Vyzkumny ustav syntetickych pryskyric a laku,
Pardubice.

1. KA, (int); (ALPH) (R), (ALPH)

laboratory equipment for finding. (int) (ALPH) (R), (ALPH)
6200083 (int) (ALPH) (R).

1. Research Institute of Synthetic Leather, (int) (ALPH) (R).

EXCERPTA MEDICA Sec 9 Vol. 9/8 Surgery Aug 55
MATEJČEK, E.

4368. MATEJČEK E. Chir. Klin., Košice. *Thromboza abdominálnej aorty so zreteľom na výskyt u žien. Thrombosis of the abdominal aorta: its incidence in women ROZHL. CHIR. 1954, 33/2-3 (86-92) Illus. 3
A short survey of the cases published in the world literature from the first description of Graham to that of Leriche (1814-1940). Three cases are analysed and the relation to thrombosis of an iliac artery is emphasized. Gangrene of the limb was present in all 3 cases. Bilateral lumbar sympathectomy was followed by marked improvement with a return of the interrupted menstruation.

Vlcek - Prague

MATEJICEK, E.

Two unusual cases of six-lobe lungs. Bratisl. lek. listy 34 no.5:
525-531 May 54.

1. Z Chirurgickej kliniky LFŠU v Kosiciach, prednosta prof. dr.
J.Knasovicky.

(LUNGS, abnormalities,
accessory lobes)

(ABNORMALITIES,
lungs, accessory lobes)

MATEJICK, Emil

Phlegmasia caerulea dolens with gangrene of the extremities.
Roshl, chir. 34 no.5:304-310 May 55.

1. 2 chirurgickej kliniky v Kosiciach - prodnosta: prof. MUDr
J. Knasovicky

(THROMBOPHLEBITIS

phlegmasia caerulea dolens, with gangrene of
extremities, pathol.)

(GANGRENE

extremities in phlegmasia caerulea dolens, pathol.)

MATEJICEK, E.

~~SECRET~~

Surgery of the thoracic aorta. Rozhl.chir. 34 no.9:561-569 Nov 55.

1. Z chirurgickej kliniky v Kosiciach, prednosta prof. J.Knazovicky
(AORTA, surgery,
thoracic (Gz))

MATEJICEK, E.

Possibilities of application of Blakemore's synthatic rings in vascular surgery. Rozhl.chir. 34 no.10:594-604 Dec 55.

1. Z chirurgickej kliniky LFŠU v Kosiciach; prednosta prof. MUDr Jan Knazovicky.

(CARDIOVASCULAR SYSTEM, surgery,
plastic rings in exper. surg. (Gz))

MATEJICEK E. MEDICA Soc.9 Vol.11/6 Surgery June 57

3281. MATEJÍČEK E. and FANTIŠ A. Chr. Klin. LFUK. Košiciach; Chr. Klin. VLA, Hradec Králové. Transplantácia cievnych štiepov. Transplantation of vascular grafts BRATISLAVSKÉ LEKÁRS. LISTY 1956, 36(II)/1 (24-27) Tables 2 illus. 5

After a review of the literature on advantages and deficiencies of different conservation methods, the authors present their early results with the transplantation of vascular grafts in 43 dogs. They performed 19 experiments on peripheral arteries with venous grafts, and 24 on the thoracic part of the aorta with aortic grafts. They used as preserving agent a mixture of 10% plasma and physiological saline with the addition of penicillin and formalin which represented in the preserving solution a 0.1-0.2% concentration. Grafts so preserved kept their elasticity and solidity for a relatively long time. Based on the clinical and histologically confirmed findings the authors are of the opinion that, beside the quality of the preserving agents and the method of performing the transplantation, morphological changes in the graft are caused by functional stress and the biological milieu into which they are placed.

MATEJICKY, E.

Problems of angiostomy in chronic experiments. Cesk. fysiол. 6 no.1:
104-105 '57.

1. Chirurgická klinika v Kosičciach.
(BLOOD VESSELS, surgery,
angiostomy (Cz))

MATEJICEK, Emil

Advantages and disadvantages of artificial extracoronary circulation
in myocardial revascularization. Rozhl. chir. 38 no.4:243-254 Apr 59.

1. Z chirurgickej kliniky LFUK v Kosiciach, prednosta: prof. J. Knazovicky.
(HEART, surg.
extracoronary myocardial revascularization (Cz))

EXCERPTA MEDICA Sec 18 Vol 4/1 Cardiovas. Dis. Jan. 60

226. *Phlegmasia caerulea dolens* in infants MATEJICEK E., FISCHLER V. and KOVACIK
M. Surg. and Ped. Depts, Komensky Univ., Kosice *Ann. paediat. (Praslo)* 196:
192/6 (369—377) illus. 2 (XVIII) 7.

MATEJICEK, E.

Modern trends in complex therapy of late embolisms. Rozhl. chir.
39 no.4:237-244 Ap '60

1. Chirurgická klinika v Kosičích, UK, prednosta prof. J. Khazovický.
(THROMBOEMBOLISM, ther.)

MATEJICEK, B.

A case of double rupture of aneurysm of the abdominal aorta.
Rozhl. chir. 39 no.5:353-359 My '60.

1. Chirurgická klinika univerzity J.P. Safarika v Kosiciach,
prednosta prof. J.Knazovicky.
(AORTIC ANEURYSM compl.)

MATEJICEK, E.

Bilateral parasternal congenital diaphragmatic hernia in a 12-year-old girl. Cesk. pediat. 16 no.4:349-352 Ap '61.

1. Chirurgickej klinika lek. fak. Univ. P. J. Safarika v Kosiciach, prednosta prof. J. Knazovicky.

(HERNIA DIAPHRAGMATIC in inf & child)

MATEJICEK, E.; MILICHOWSKY, E.; FAGULA, J.

Elevation of venous pressure in the coronary sinus and its effect
on coronary circulation and on changes in the myocardium. Rozhl.
chir. 40 no.7:444-452 J1 '61.

1. Chirurgicka klinika v Kosiciach, prednosta prof. dr. J. Knazovicky.

(BLOOD PRESSURE ^{physiol}) (CORONARY VESSELS ^{physiol})
(MYOCARDIUM ^{pathol})

35

1. "Professor Vladimir RAVAT, MD and Doctor of Sciences, is sixty," editorial, pp 521-522.
2. "Postoperative Complications and After-Treatment in Patients Having Undergone an Operation Using Extracorporeal Circulation," by K. SINKA, I. STACHOVIC, E. VASCOVITA, M. SEKOVANEC, V. SEKOVANEC, K. SINKA and V. CHODKOVA, of the No 2 Surgery Clinic at the Medical Faculty of Comenius University (II. Chirurgická klinika Lekárskeho ústavu) in Bratislava, headed by (prednosta) E. SINKA, corresponding member of the CASP (Československá Akademie Vied; Czechoslovak Academy of Sciences); pp 523-535 (English summary).
3. "Controversial Problems in the Diagnosis of Bone Tumors and Similar Bone Affections," by J. CERNÝ, chief (prednosta) and corresponding member of the CASP (Československá Akademie Vied; Czechoslovak Academy of Sciences) and S. STACHOVIC, of the Orthopedic Clinic (Ortopedická klinika) at the Medical Faculty of Comenius University (see No 2) in Bratislava; pp 535-548 (English summary).
4. "Traumatic Craniocerebral Fistulae and Cranial Vascular Fistulae -- Therapy Results in 55 Cases," by docent J. ZICHÁ, MD, head of the Clinic of Pediatric and Brain Surgery (Klinika detstva) a neurochirurgie) at the Medical Faculty of Comenius University (see No 2) in Bratislava; pp 548-556 (English summary).
5. "Two-Specific Illustrations of the Small Intestines," by K. ČADOK, of the No 1 Surgery Clinic at the Medical Faculty of Comenius University (see No 2) in Bratislava, headed by professor K. ČADOK, MD; pp 556-558.
6. "On the Problem of the Intravascular Implantation of Autologous Arteries at the End of Increasing Myocardial Blood Flow," by S. MATULICK, of the Surgery Clinic at the Medical Faculty of P. J. Šafárik University (Chirurgická klinika Lekárskeho ústavu) in Košice; chief: professor J. KRAČOVNÍK, MD; pp 559-569 (English summary).
7. "On the Problem of Indication to the Resection Treatment of Residual Fibrous Tuberculous Pouch and the Lung," by M. KUBISOV, O. KALAF, E. ČADKOVA, I. KOPRIVSKÝ and M. ČADKOVA. From the Institute of Pathological Anatomy (Patologicko-anatomický ústav) of the University Palackého; Palacký University) in Olomouc, headed by docent V. VALACH, MD; the Surgery Clinic (Chirurgická klinika) of PU in Olomouc, headed by professor V. RAVAT, MD and Doctor of

MATEJČEK, E.

MATEJICEK, E.

On the problem of the intramyocardial implantation of homologous arteries to increase myocardial blood flow. Bratisl. lek. listy 42 no.9:559-569 '62.

1. Z Chirurgickej kliniky Lek. fak. Univ. P. J. Safarika v Kosiciach, prednosta prof. MUDr. J. Knazovicky.

(CORONARY VESSELS surg) (HEART SURGERY exper)

MATEJICEK, E.

Possibilities of revascularization with intramyocardial implantation of arterial grafts. Rozhl. chir. 42 no.10:685-692 0 '63.

1. Chirurgická klinika Lekárskej fakulty UPJS v Kocisiach, prednosta prof. dr. J. Knazovický.

*

MATEJICEK, E.

Intramyocardial tissue implantation in the prevention of
experimental infarct. Bratisl. lek. listy 43 Pt. 2 no.8:
444-452 '63.

1. Chirurgická klinika Lek. fak. Univerzity P.J. Safarika v
Kosiciach, veduci prof. MUDr. J. Knazovicky.
(MYOCARDIAL INFARCT) (OMENTUM)
(MUSCLE TRANSPLANTATION)
(ELECTROCARDIOGRAPHY)
(HEART ENLARGEMENT)
(TRANSPLANTATION)

MATEJICEK, FRANTISEK

Czechoslovakia CA: h7:10105

"Determination of metals and boron in metal borides."

Chemie (Prague) 8, 87-8 (1952).

MALEJICEK, FRANTISEK

Czech

CA: 47:11075

"Determination of oxygen and moisture in electrolytically produced hydrogen."

Chemie (Prague) 8, 137-9 (1952)

MATEJICEK, F., inz.

Ceramic coatings applied under heat. Podn org 18 no.7:328
J1 '64.

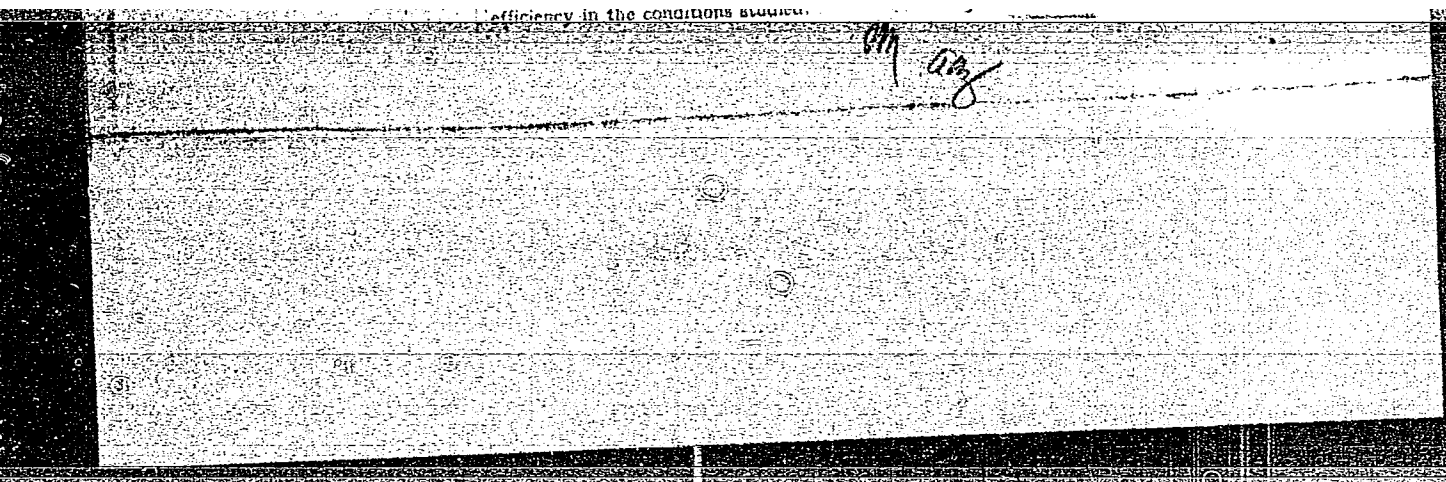
1. State Research Institute of Material Protection.

MATEJICEK, J.

H₂SO₄ were investigated, at atm. pressure in a packed column and under pressure in a stirred reactor. Increase of ethylene partial pressure from 10 to 25 atm lowered consumption of H₂SO₄ by 7-17% and cut the loss of acid by 4-9%. Reaction time was lowered by 15-25%. Lowering the speed of the stirrer to

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001032820010-4



APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R001032820010-4"

MATEJICEK, Jan; MINAR, Jiri; FESSL, Vaclav

Hazards related to Trendelenburg's position. Cesk. gyn. 26 [40]
no.7:511-512 Ag '61.

1. MUNZ Plzen, gyn. por. odd., reditel MUDr. Milan Sedlak Anesteziologicke oddeleni SFN Pizen, prim. MUDr. Jiri Minar I chir. klin. KU v Pizni, prednosta doc. MUDr. Karel Domansky.
(GYNECOLOGY)

VOJTISEK, Oldrich, MUDr.; MATEJICEK, Vladimír

Manifestations of reduced bone marrow activity in gold treatment of progressive chronic polyarthritis. Cas. lek. cesk. 95 no.32: 884-888 17 August 56.

1. Z Vyzkumneho ustavu chorob reumatickych v Praze. Red. prof. MUDr. Frantisek Lenocho.

(ARTHRITIS, RHEUMATOID, ther.

gold, eff. on hemopoietic system (Cz))

(HEMOPOIETIC SYSTEM, physiol.

eff. of gold ther. in rheum. arthritis (Cz))

(GOLD, ther. use,

rheum. arthritis, eff. on hemopoietic system (Cz))

MATEJICEK, VLADIMIR

VOJTISEK, Oldrich; MATEJICEK, Vladimir

Experimental studies on daytime variations of eosinophil count.
Cas. lek. cesk. 96 no.18:559-564 3 May 57.

1. Vyzkumny ustav chorob reumatickych v Praze. Reditel prof.
MUDr. Frantisek Lenocho.

(EOSINOPHIL COUNT, determ.

changes during daytime (Cz))

(PERIODICITY,

daily eosinophil count changes (Cz))

KOUTSKY, Jaroslav; VONDRAK, Zdenek; CHLOUPKOVA, Karla; MATEJICEK, Valdimir

Autonomic profile of schizophrenia. Cas. lek. cesk. 97 no.30:
938-943 18 July 58.

1. Stani lecebna psychiatricka, Jihlava, red. prim. Dr. Vilem Kotina.
J. K., Jihlava, Dlouha stezka I.
(SCHIZOPHRENIA, physiol.
autonomic NS (Cz))
(AUTONOMIC NERVOUS SYSTEM, in var. dis.
schizophrenia (Cz))

MALEC, R.; ROZSIVAL, Vl.; MATEJICEK, V.; SCHINDLER, C.

Our experience with surgical therapy of severe closed brain injuries.
Rozhl. chir. 41 no.4:284-288 Ap '62.

1. Neurochirurgická klinika KU v Hradci Kralove, prednosta prof.
MUDr. R. Petr.

(BRAIN wds & inj)

KROO, M.; MATEJICEK, V.; MALEC, R.

Comparison of the clinical picture of subdural hematomas in various age groups. Rozhl. chir. 41 no.9:609-613 S '62.

1. Neurochirurgická klinika lékařské fakulty KU v Hradci Králové, předn. prof. dr. R. Petr.

(HEMATOMA SUBDURAL)

NEMECEK, Stanislav; MATEJICEK, Vaclav.

On the technic of histological neuronography. Sborn.ved. prac.
lek.fak.Karlov.Univ.(Hrad.Kral.) 6 no.5:563-568 '63

1. Neurologicka klinika; prednosta: prof. MUDr. R.Petr., LFUK
v Hradci Kralove.

*

NADVORNIK, P.; MATEJICEK, V.; DROZEN, V.; LELEK, J.; SPACEK, C.; SKOCDOPOLE, B.

Experiences with the use of cybernetic diagnosis in neurosurgery. Cesk. neurol. 26 no.6:413-416 N'63.

1. Neurochirurgická klinika, kybernetický kabinet a strojní počecní stanice ZVU v Hradci Králové UME, útvar automatizace, Praha.

*

MATEJICEK, V.; NADVORNIK, P.; DROZEN, V.

Further progress and perspectives in machine diagnosis in neurosurgery. Cesk. neurol. 27 no.6:389-393 N '64.

1. Neurochirurgická klinika (prednosta prof. Dr. R. Petr)
a kybernetický kabinet lékařské fakulty Karlovy University
v Hradci Králové.

L 07913-67

ACC NR: AP6031226

SOURCE CODE: CZ/0088/66/000/005/0435/0439

16

AUTHOR: Nadvornik, Pavel (Docent; Doctor of medicine; Candidate of sciences); Matejicek, Vaclav (Doctor of medicine; Hradec Kralove); Votruba, Antonin (Engineer); Houda, Vaclav (Graduate mathematician; Prague); Drozen, Vladimir (Doctor; Hradec Kralove)

ORG: [Nadvornik; Matejicek] Neurosurgical Department, Faculty of Medicine, Hradec Kralove (Neurochirurgicka klinika lekarske fakulty); [Votruba; Houda] Division of Automation, UME, Prague (Utvar automatizace, UME); [Drozen] Pedagogical Faculty, Hradec Kralove (Pedagogicka fakulta)

TITLE: Diagnostic work by an LGP 30 computer

SOURCE: Kybernetika, no. 5, 1966, 435-439

TOPIC TAGS: computer application, nervous system disease, medical science

ABSTRACT: Diagnosis of neurosurgical diseases by an LGP 30 computer has been experimentally tested at the Neurosurgical Department of the Faculty of Medicine in Hradec Kralove. The probability matrix for the computer work was designed and based on a statistical evaluation of 150 case histories of the department in which

Card 1/2

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ACC NR: AP6031226

56 different diseases have been established from 60 clinical findings (symptoms). Bayes equations were utilized in the program. For satisfactory results the computer had to name the correct diagnosis as first or second item among five possibilities. The machine succeeded in 108 cases, i. e., in 72.6% of patients. This result equals the diagnostic work of medical specialists in outpatient departments, and proves better than that of emergency and district medical practitioners. Orig. art. has: 3 tables and 1 formula.

SUB CODE: 06, 09/ SUBM DATE: 11Dec65/ ORIG REF: 003/

Cord 2/2

vmh

Neurology

CZ/0088/66/000/035/0435/0439

CZECHOSLOVAKIA

AUTHOR: Nadvornik, Pavel (Docent; Doctor of medicine; Candidate of sciences);
Matejicek, Vaclav (Doctor of medicine; Hradec Kralove); Votruba, Antonin
(Engineer); Houda, Vaclav (Graduate mathematician; Prague); Drozen, Vladimir
(Doctor; Hradec Kralove)

ORG: [Nadvornik; Matejicek] Neurosurgical Department, Faculty of Medicine,
Hradec Kralove (Neurochirurgicka klinika lekarske fakulty); [Votruba; Houda]
Division of Automation, UME, Prague (Utvar automatizace, UME); [Drozen]
Pedagogical Faculty, Hradec Kralove (Pedagogicka fakulta)

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experimentally tested at the Neurosurgical Department of the Faculty of Medicine
in Hradec Kralove. The probability matrix for the computer work was designed and
based on a statistical evaluation of 150 case histories of the department in which

1/2

LENOCH, F.; KADIAOVA, L.; KATKIN, V.

Rehabilitation therapy in progressive polyarthritis. Byelost.
vestn. 43 no. 199-200. 1971. 5

1. Vyzkumnyy ustav zhivot'nykh v raznykh stadiakh razvitiya.
F. Lench, D. 1.

MATEJKA, A.

"Do not be afraid of breakdowns in electric equipment. p. 246."

SVET MOTORU. Praha, Czechoslovakia, Vol. 13, No. 8, April 1959

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

14

Ca

THE GEOLOGICAL RELATIONS OF THE SALT-BEARING HYDROGEN SULFIDE SPRINGS OF SARDASKY BATH IN SLOVAKIA. A. MATĚJKA. *Věstník Národního Geol. Ústavu Českoslov. Rep.* 14, 111-24 (1938). *Chem. Zvest.* 1939, II, 2004. — According to its chem. compn. the water from these springs, which has a temp. of 8-12° and flows at the rate of 15-17 l./min., is to be classified with waters coming from Neocene, petroleum-bearing strata. The dissolved gases contain 90% CH₄.
M. G. Moore

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SECTION	SUBSECTION	SECTION	SUBSECTION
1	1	1	1
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C.A.
1957

²
Free Land Carbonization
Processes

Geological occurrence of free nitrogen in Jirny near
Prague. Alois Matějků and Zdeněk Roth (State Geol.
Inst., Prague). *Věstník Nátl. Geol. Ústavu Českoslov. Rep.*
25, 281-5, in French, 280(1950).—In a drilling in Jirny
park, gas under excess pressure of about 1 atm. was found
at a depth 16.5 m. The gas contained N 95.0, CO₂ 3.2,
O 0.8, CO 0.8, unsatd. hydrocarbons 0.2%, and no rare
gases. It probably originated from air trapped by in-
filtrating water, the O being removed by the oxidation of
pyrite or org. matter. H. Newcombe

C. A.
1951

Mineralogical and Geological
Journal
8

Occurrence of copper ore at Ladmorce in the carbonif-
erous of the "Zemplin Inland" in eastern Slovakia. Alois
Matějka and Zdeněk Roth (State Geol. Inst., Prague).
Průmysl. Stát. Geol. Východ. Českoslov. Rep. 25, 287-9, in
English, 201 (1950). Pyrite, chalcopyrite, malachite,
and more rarely azurite were found along with barite.
Their geol. origin is considered. 13 November

MATEJKA, A.; LESKO, B.

"Flysch and the Inner Klippes Zone in Eastern Slovakia Between Hanušovce and Humenne." p. 13. (GEOLOGICKÝ SBORNÍK. Vol. 3, No. 1, 1955; Bratislava, Czech.)

So: Monthly List of East European Accessions, (LEAL), LC, Vol. 1, No. 1, April 1955, Uncl..

MATEJKA, Alois

The pelosiderite of the Moravosilesian Beskydy, their historical importance, geological occurrence, petrographical and chemical nature, and their origin. Zdeněk Roth and Alois Matějka (Czech. Geol. Survey, Prague). *Geotechnica* No. 16, 1-111 (in English, 91-111) (1953). — Clay ironstones of high siderite content were mined from about 1770 to 1905. Chem. analyses of 34 samples show Fe 10.4-32.75, Mn 0.34-2.04, P 0.03-1.21, S 0.23-2.42%. Petrographic descriptions are given. Michael Fleischer

(2)

MATEJKA, ALOIS.

Geologie Magurskeho Flyse v severnim povodi Vahu mezi Bytcou a Trencinem; s mikrobiostratigrafickou statí Evy Hanzlikove. (1. vyd.) V Praze, Nakl. Ceskoslovenske akademie ved, 1956. 332 p. (Rozpravy Ustredniho ustavu geologickeho, sv. 22) (Geology of the Magura Flysch in the northern basin of the Vah River between Bytca and Trencin. 1st ed. English and Russian summaries. illus., map (fold.col.in pocket), bibl., footnotes, tables)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957, Uncl.

MATEJKA, A.

"The working conference on micropaleontology, malacology, and geology of the later Carpathian Tertiary at Smolenice, in February 1957."

p.378 (Vestnik, Vol. 32, no. 6, 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (MEAI) LC, Vol. 7, No. 8, August 1958

MATEJKA, A.

GEOGRAPHY & GEOLOGY

Periodical: VESTNIK, Vol. 33, no. 3, 1958.

MATEJKA, A. The Cenomanian from Dub in the foothills of the Moravian-Silesian Beskids. p. 170.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 2,
February 1959, Unclass.

MATEJKA, A.

4

15, 12
✓ Occurrence of a bauxitic rock at Drienover, southern
Slovakia. Alois Matejka (Usrednho slovensk. geol., Prague).
Vistnik dalsiho slovensk. geol. 33, 279-81 (1938) (German
summary).—Two chem. analyses are given. Differential
thermal analysis study showed the presence of gibbsite,
boehmite, and hematite. Michael Fleischer

CC
1/1

66

gmg

MATEJKA, A.

"Tectonic map of Europe"

Vestnik. Praha, Czechoslovakia. Vol. 34, no. 2, 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclass

MATEJKA, A

MATEJKA, A. (Chekhoslovakiya)

Basic characteristics of the geology of the flysh zone in the
Western Carpathians. Mat.Karp.-Balk.assots. no.1:55-62 '60.

(MIRA 14:12)

(Carpathian Mountains--Flysh)

DATE AND ACOS

SURNAME, Given Names

Country: [illegible]

Academic Degrees: [illegible]

Affiliation: [illegible]

Source: [illegible]

Data: [illegible]

MATEJKA, A.

CZECHOSLOVAKIA

MATEJKA, A.

Prague, Vestník Ústředního Ústavu Geologického,
No 1, 1963, pp 67-70

"International Symposium on the Present Movements
Of the Earth's Crust."

MATEJKA, Alois

Professor Odolen Kodym; obituary. Gas min geol 8 no.4:414-415 C '63.

MATEJKA, B.

Moravus, J.; Vetiska, A. Effect of rolling on the fatigue limit in alternating torsion. p. 752.

STROJIRENSTVI, Prague, Vol. 4, no. 10, Oct. 1954.

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

MATEJKA, Dusan, inz.

~~Experience with continous measurement of water turbine flow.~~
Energetika Cz 11 no.1:40-43 Ja '61.

MATEJKA, Dusan, inz.

Flow meters of water-power plants. Energetika Cz 11 no.5:238-240 My
'61.

TEKEL, L., inz.; MATEJKA, D., inz. CSc.

Problem of optimum control of the Vah River Cascade. Bul
EGU no. 6:1-5 '63.

TEKEI, L.; MATEJKA, D.

Research on the control of a channel group of hydraulic power
stations. Bul EGU no.1:16-21 '64.

MATEJKA, Dusan, inz. CSc; SZUCS, Juraj, inz.

Operational experiences in measuring the efficiency of hydro-electric sets. Energetika Cz 14 no.2:79-82 F'64

1. Power Research Institute, Bratislava.

MATEJKA, Dusan, inz. CSc.; TEKAL, Ladislav, inz.

Covering outage losses by channel hydroelectric plants. Energetika
Cz 14 no.5; 209-213 Ky '64.

1. Research Institute of Power Engineering, Bratislava.

KRAUS,Z.; MATEJKA,F.; MAZAK,J.

Myelogram and cryoglobulins in chronic atrophic acrodermatitis.
Cesk. dermat. 39 no.1:11-17 F'64.

1. Dermato-venerologicka klinika (prednosta: prof.dr.B.Janousek)
a II. interni klinika (prednosta: prof.dr. V.Jurkovic), lekarske
fakulty KU v Hradci Kralove.

*

Country : CZECHOSLOVAKIA
Category: RZhBiol., N 19, 1958, 88984
Author : Matejka, J
Inst : -
Title : Trial of therapy of Basedow's Exophtalmos with
Serpasil.
Orig. Pub: Lekar. Obs., 1957, 6, N 12, 737-741
Abstract: No abstract.

Card : 1/1

MATEJKA, J., inz.; STOJDL, J.

Experiences in crushing the intergrown clay coal in the Sokolov District. Uhli 6 no.6:211-212 Je '64.

1. Sdruzeni hnedouhelnych dolu a briketaren, Skolov.

MATEJKA, J.

Electric coal-mining machinery from the point of view of electric-power supply.

P. 427. (ENERGETIKA.) (Praha, Czechoslovakia) Vol. 7, No. 8, Aug. 1957

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, May 1958

Mar 2000, J.

"Safety is not in a box."

p. 145 (Internia, Vol. 2, No. 1, May 1991, Prague, Czechoslovakia)

Monthly Index of East European News (Internia, Vol. 2, No. 1, May 1991, Prague, Czechoslovakia)

AHLERC, I.; KORTVELYESSY, G.; MATEJKA, I.; SCHNIDOVA, I.; SZABO, T.

Diagnostic importance of the intravenous telecardiogram.
Gas. lek. oesk. 163 no.11:147-155, 11 1964.

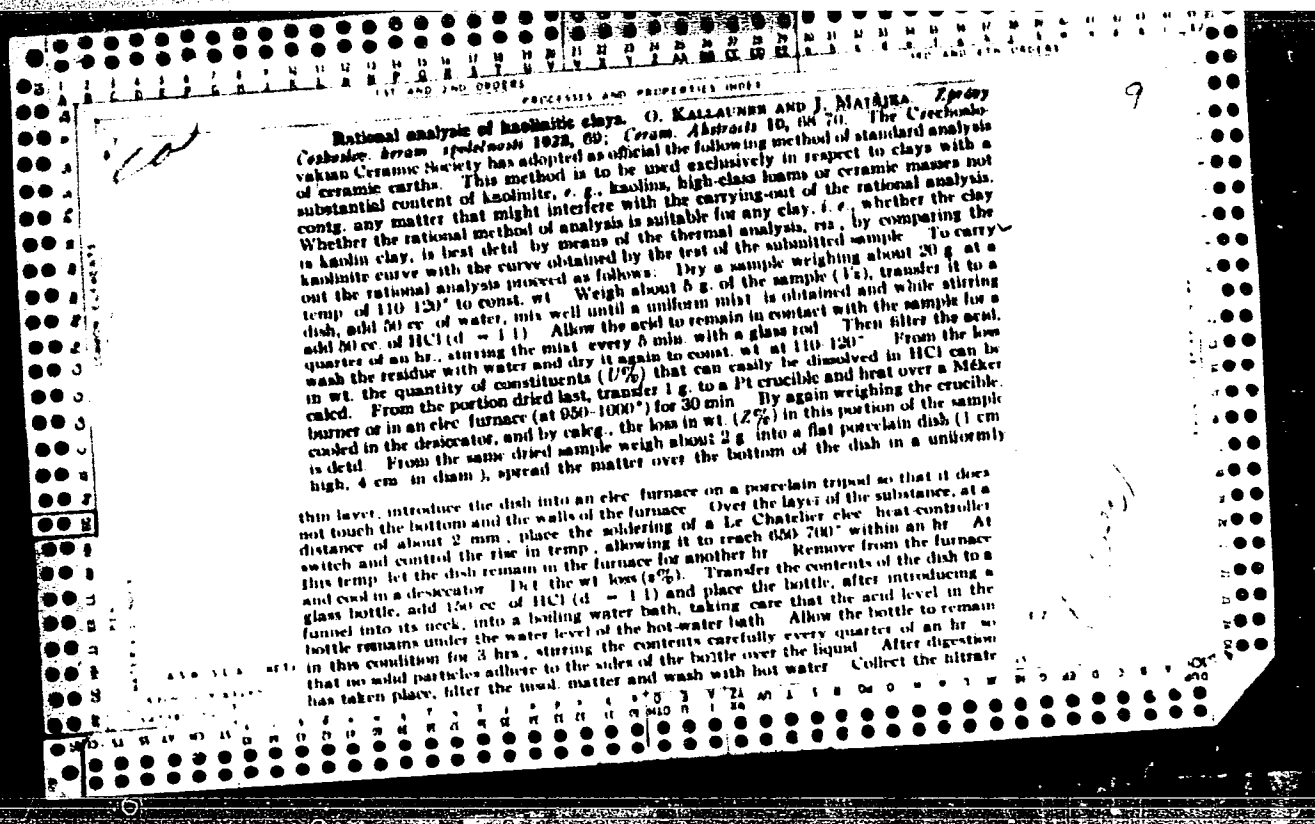
1. Interné oddelenie v Ústrednom ústavoch v Bratislave.
MUDr. I. Matejka; Ústredné laboratórium v Bratislave.
v kardiologickom ústavoch v Bratislave. KORTVELYESSY, G.
Fakultnej nemocnice v Bratislave. SCHNIDOVA, I. MATEJKA, I.

MATEJKA, Jaroslav, Ing.

The 1FT10 ferrotransistor element in logic circuits.
Slaboproudy obzor 25 no.11:658-666 N 1964.

1. Research Institute of Mathematical Machines, Prague.

1ST AND 2ND LETTER		3RD AND 4TH LETTER		5TH GROUP	
AUTHOR INDEX		MATERIALS INDEX		MATERIALS INDEX	
Matijka, J. MAGNESITE INDUSTRY IN CZECHOSLOVAKIA. <i>Naturo</i>, 1926, 61.—Czechoslovakian magnesite occurs in the districts Novohrad, Gemer, Abau, near Rudina, Hndit, Jekava, Ochtina, and Kdace. It is crystalline and similar to the Austrian magnesite of Styria. Its composition is the following:					
	Sample I	Sample II			
SiO ₂	2.32	1.31			
FeO	0.07	0.08			
Al ₂ O ₃	0.40	0.51			
Fe ₂ O ₃	3.77	4.02			
CuO	0.44	0.50			
MgO	44.42	44.50			
SO ₂	0.27	0.14			
CO ₂	48.51	48.56			
	100.26	100.22			
The largest quarries are in Rudina where magnesite arose by change of limestone through thermal solutions and where it is deposited in carbonate, graphitic, and clayish			slates. These quarries belong to the West Bohemia Chamotte and Kaolin Works, which possesses also kilns for burning of burned magnesite at Lovinobanja and Hndit and a factory of magnesite brick at Hndit. Magnesite is burned caustically at 900°C in shaft-kilns, then it is dead-burned in other shaft-kilns at about 1500°C. Then follows crushing and cleaning by a magnetic separator. The daily output of the Czechoslovakian magnesite factories amounts to 410 tons of clinkered magnesite and 12 tons of magnesite brick.		



in a 250-cc. measuring jar, allow it to cool down, and add water to bring the vol. up to the mark. Temper and mix thoroughly and remove by means of a pipet (10) cc. of the liquid to a porcelain dish. Evap. to dryness on a water bath. Moisten the residue with 2 cc. of concd. HCl, after 10 min. dil. with hot distil. water, heat 5 min. on a water bath, and filter off the soln. In this filtrate det. the Al_2O_3 and Fe_2O_3 by pptg. them with NH_4 as hydroxides; these are filtered, washed and, by blasting in the elec. furnace converted into oxides which are weighed ($V_2\%$). After drying, remove the portion which remained undissolved in HCl from the filter to a black, glossy paper, reduce the filter to ashes, blast the ashes for a short time in a Pt crucible, to which also is added the matter from the black paper. Add to the crucible 1st about 1 cc. of water, after ward 5 cc. of concd. HF and after a quarter of an hour, 1 cc. of H_2SO_4 (d = 1.8). Allow contents to remain in this condition for about 2 hrs. at an ordinary temp., and then place on the water bath to drive out HF. If some portion of the mass remains undisturbed, add more HF and repeat the procedure. Place the crucible on a sand bath and warm until dense vapors appear. After the crucible has cooled down, remove the contents carefully by means of 5% H_2SO_4 and ppt. the soln. with NH_4 in the ordinary way to obtain scaphosules. These are filtered, washed, heated and weighed ($V_3\%$). From the results obtained, the percentages of the various constituents of the sample may be calculated as follows: kaolinite = $2.633(V_2 - V_3)$, feldspar = $5.47 V_3$. Quartz - the difference to 100, it is, however, necessary to take into account, besides the aforementioned chief constituents, the portion which can easily be dissolved in HCl, Fe_2O_3 , etc. The kaolinite content is 7.16%. The carbonates present in some ceramic masses, rarely in pure kaolin clays, such as $CaCO_3$, etc., are found in that portion of constituents which can easily be dissolved in HCl. The most suitable furnace for carrying out this rational analysis is the one described in the Bulletin of the Czechoslovakian Assoc. for Research and Testing of Technically Important Materials and Construction of 1919, No. 2. If the sample contains a marked quantity of mica which can be recognized informatively by washing through fine sieves and by means of a microscope, it will be necessary to det. the alkalies as usual, not only in the filtrate after the scaphosules have been eliminated but also in the original dried sample.

(11)

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ca

The structure of perborates. JAROSLAV MATRKA Chem. Listy 23, 347 H (1929) The perborates are represented by formula I. This places the perborates in a class with the persulfates. In an alkaline soln they do not release H_2O_2 , for the OH ions formed upon hydrolysis convert the illustrated I into isolates, which in the presence of H_2O_2 form isolates and evolve O_2 . The true perborates may be represented by II. This explains the origin of true perborates, their stability in a dry state and

$$\begin{array}{c}
 O-O \\
 | \quad | \\
 MO-B \quad B-OM \\
 | \quad | \\
 O \quad O
 \end{array}$$

(I)

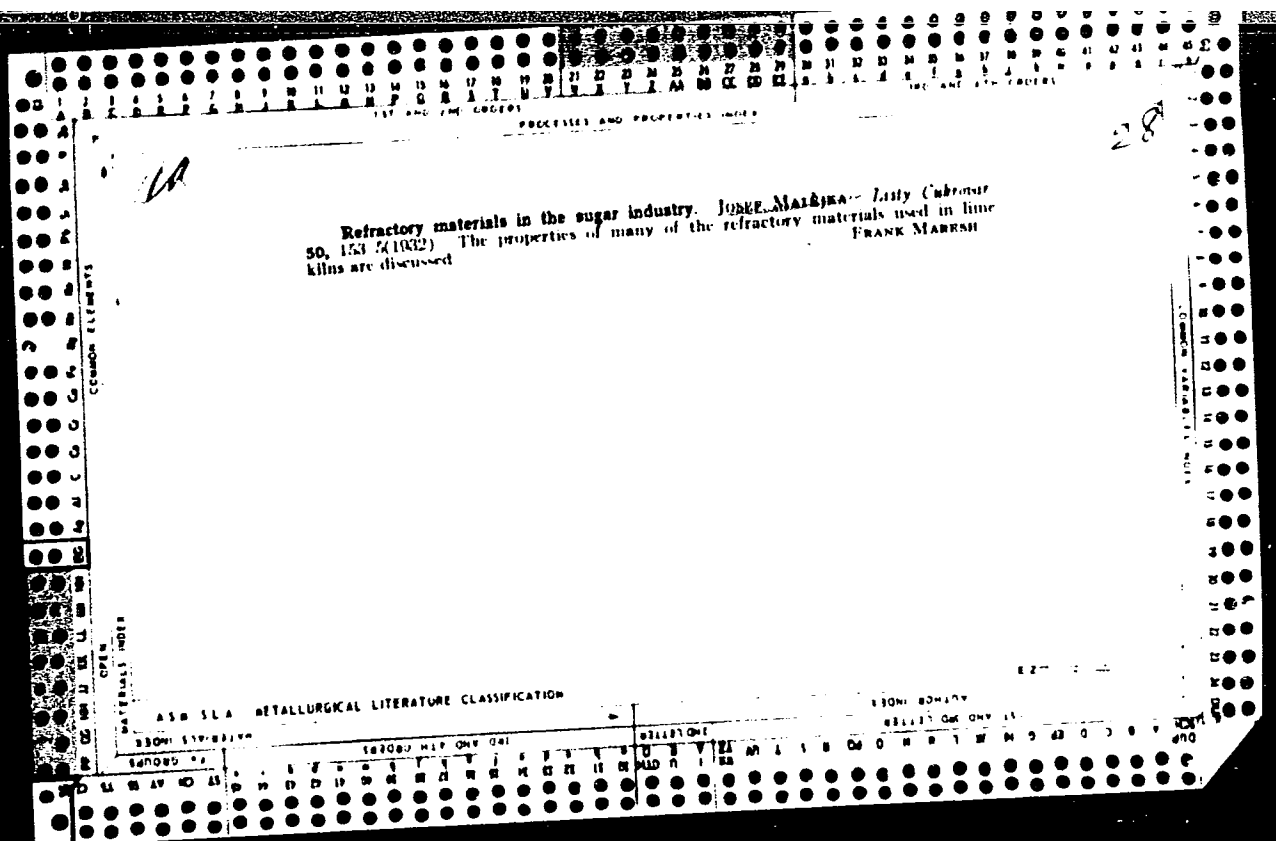
$$\begin{array}{c}
 OH \quad M-O-O \\
 | \quad | \quad | \\
 B-O-O-B \\
 | \quad | \\
 OM \quad HO
 \end{array}$$

(II)

coned. soln; their conversion to the pseudoperborates in dil. soln.; the absence of quant results in the Retenfeld-Rheinhold reaction; the great specificity of the OH ion; why true perborates cannot be dehydrated further than $MBO_3 \cdot 0.5H_2O$ (the H and OH are constitutional elements)

FRANK MARSH

ASD 554 METALLURGICAL LITERATURE CLASSIFICATION



20

Influence of sugar solutions on the properties of calcium mortars and bricks. Josef Matěška. Stavební 1934, 119; Chem. Abstr. 10, Abstract 8881. The strength of mortars is increased 2 times and the permeability 6 times by 1% sugar soln. J. Kučera

1ST AND MC LETTER																										2ND LETTER																										3RD AND 4TH LETTERS																										5TH GROUPS																									
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																										A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																										A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																										A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																									
Matijka, J. WHITE KAOLIN EARTH IN PUERTANO REGION. Navro, 15, 02 (1934).—The kaolin earth loses 8.31% on heating; it then contains SiO_2 61.80, TiO_2 1.15, Al_2O_3 22.47, Fe_2O_3 1.81%. The fusing point is cone 27																																																																																																							

19

COMMON ELEMENTS

PROCESS AND PROPERTIES INDEX

Slovakian infusorial earth. J. Matejka. *Zprávy Československé keram. společnosti* 12, No. 1-2, 14-39 (1935); *Chimie & Industrie* 37, 927. Slovakian infusorial earth contains SiO_2 74.10, Al_2O_3 14.14 and Fe_2O_3 2.10%. In ceramic mixes. it reduces plasticity, increases the dampness of the mixt., improves the heat-insulating properties and decreases the wt. of ceramic products. A. P.-C.

ASIA SLA METALLURGICAL LITERATURE CLASSIFICATION

REGIONAL LITERATURE

RELATIONSHIP

RELATIONSHIP

COMMON ELEMENTS										COMMON VARIABLES INDEX									
MATERIALS INDEX										MATERIALS INDEX									
ASB. S. A. METALLURGICAL LITERATURE CLASSIFICATION										ASB. S. A. METALLURGICAL LITERATURE CLASSIFICATION									
GROUPS										GROUPS									
1ST AND 4TH CODES										1ST AND 4TH CODES									
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