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ACCESSION NR: AT&T 2529				
ASSOCIATION: Institute of Organic Chemical Technology, Technical University, Budapest; Institute of General Chemistry, Technical University, Budapest				
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Card 2/2				

G/002/62/000/009/001/001
D287/D307

AUTHOR: Paulik, Ferenc, Paulik, Jenö and Erdey, László

TITLE: Derivatography

PERIODICAL: Chemische technik, no. 9, 1962, 533-537

TEXT: The derivatograph, constructed by the authors, is an automatic recording device for the thermal analysis of solid or liquid samples. Weight changes due to heat and the rate at which these changes proceed and the variations in the enthalpy and the temperature of one sample are recorded simultaneously. The relationship between the chemical composition and the crystalline structure of substances can be determined with a higher degree of accuracy than with hitherto used methods; thermal reactions within the sample can also be elucidated by this method. Derivatograms give results obtained during tests on bauxite samples and during the microdistillation of water. The authors refer briefly to previous investigations on minerals, ores, solid fuels and building materials, on the heat-sensitivity of catalysts and thermal properties.

Card 1/2

PAULIK, F.

V Dervatographic study of potassium hydrogen phthalate.

R. Belcher, L. Erdely, P. Paulik, and G. Lipthay (Tech. Univ., Budapest, Hungary) - Z. Anal. Chem. 243-7 (1969). Derivatographic measurements showed that the decompr. of $C_8H_4COOHCOOK$, which is often used as a primary standard, begins at 190-200°. The nonhygroscopic prepn. can be dried at 100-150°. Decompr. proceeds in 3 steps, the rate depending on the rate of increase of temp. $C_8H_4(COOK)_2$ is formed first, phthalic anhydride and water being removed. Enthalpy changes also can be obtained from the derivatograms; this yields information on the further mechanism of thermal decompr. and changes of state of the sample.

Bella I. Rosenfeld

6

TAJ(NB)

PAULIK, F.

HUNGARY / Chemical Technology. Chemical Products and
Their Applications. Chemical Processing of
Solid Fossil Fuels.

Hi

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 13065.

Author : Paulik, F.; Weltner, K.

Inst : Not given.

Title : On Differential Thermogravimetric Analysis of
Peat and Its Components.

Orig Pub: Acta chim. Acad. scient. hung., 1958, 16, No 2,
159-184.

Abstract: A series of peat (P) samples, humates as well as
cellulose, lignin and other materials of vegetative
origin was investigated by the method of differen-
tial thermogravimetry (DTG) which permits fixing
the weight change of the sample with the change of
furnace temperature. Thanks to the fact that the

Card 1/2

83

PAULIK, FERENC

Derivative thermogravimetry
Brdy (Tech. Univ., Budapest),
Hung. 13, 117-39 (1957).—Deriv. thermogravimetry is shown to possess considerable advantages over simple thermogravimetry when consecutive reactions or reactions involving small losses in wt. occur. The use of both of these methods and differential thermal analysis on a no. of bauxites and cryolites, $ZnSO_4 \cdot 7H_2O$, $Na(OH)_2$, $BaSO_4$, knoillite, and mixts. of ZnO and $Zn(PO_4)_2$ are presented.

Mark M. Jones

Faulk, F.

16. Recent results of derivative thermogravimetry. (In German) F. Faulk, L. Prdey. *Acta Chimica Academiae Scientiarum Hungaricarum*. Vol. 13, 1957, No. 1-2, pp. 117-140, 19 figs.

Investigations carried out so far by the method of derivative thermogravimetry proved that the derived curve facilitates the evaluation of the difficultly interpretable basic curves. Processes taking place in rapid sequences in the substance investigated or reactions causing very small losses of weight may readily be detected by this method with a high degree of sensitivity. The temperature of the maximum of the derived curve clearly defines the reaction under examination. If the values of the initial and final temperatures of the reaction are plotted on the basic curve precise stoichiometric calculation can be made. Very significant conclusions can be drawn from the comparison of the curves obtained by derivative thermogravimetry with those by differential thermoanalysis. Results of investigations by derivative thermogravimetry of various analytical precipitates, bauxites, aluminia hydrates, red muds, cryolite, and catalysts are discussed.

4

Distr: bE2c(j)

23. Precipitate exchange reactions in analytical chemistry, IV*. (In German) L. Rödew, K. Bányai, P. Paulik. *Acta Chimica Academiae Scientiarum Hungaricarum*. Vol. 13, 1958, No. 3-4, pp. 453-463, 8 tabs.

Subsequent to the theoretic discussion of the exchange of chloride by mercury(II) iodate the practical conditions of the method of determination on this basis are discussed. Between certain limits of concentration the main reaction between mercury iodate and chloride ions proceeds without any side reactions. However in solutions of higher concentration a HgCl^{19} complex whereas in solutions of lower concentration a HgCl_2 complex forms in addition to HgCl_4 . The formation of the HgCl_2 complex liberates less iodate and that of the HgCl_4 complex, in turn, more iodate than expected on the basis of the main reaction. The determination of chloride may be carried out also on a micro scale in the presence of alcohol and under adequate conditions. Bromide, iodide and cyanide ions may be similarly determined in this way.

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1

PA LIA, F.

SCIENCE

PTR - AI: PA LIA (PA LIA, Vol. 1, no. 2, 19)

Faulik, S. Derivative thermogravimetric analysis of peats and peat constituents.
In German. p.1).

only list of East European Acquisitions (EEA) 14, Vol. 1, no. 2,
February 1976, unclass.

F. Paulik

Distr: 4E3d

7
Derivatographic microdistillation method for investigating liquid mixtures. F. Paulik, L. Kirley, and S. Gal (Tech. Univ., Budapest, Hung.), Z. anal. Chem. 163, 321-9 (1958); cf. C.A. 52, 13326f. — The use of temp.-wt. curves and deriv. curves provides a complete description of the course of a distn. Mixts. studied were $C_6H_5\text{-}EtOH\text{-}H_2O$, $\text{Me}_2\text{CO}\text{-}H_2O$, $\text{Me}_2\text{CO}\text{-}t\text{-OH}$, $n\text{-BuOH}\text{-}H_2O$, $C_6H_5\text{-n-Bu-OH}\text{-}H_2O$, and aviation gasoline. Quant. analysis is simplified by using a 5-g. sample. (G.) K. G. Stone

dc

6
3-way

Q.Q.

PAULIK, F.; SHIBY, L.

"Recent results of derivatives thermogravimetry."

p. 15 (Kozlemenyel) Vol. 9, no. 1, 1957
Budapest, Hungary

SC: Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 4,
April 1958

PAULIK

12. Derivative thermogravimetry, a new thermogravimetric procedure. [In German] L. Röde, E. Paulik
L. Paulik: Acta Chimica Academiae Scientiarum Hungaricar. Vol. 10, 1956, No. 1-2, pp. 31-37, 24 figs.

A new procedure was developed by the authors for the thermogravimetric investigation of analytical precipitates and other substances. A permanent magnet serving as the core of a fixed coil was suspended from the beam of a thermobalance. The potential of the current induced was then found proportional to the weight changes occurring in a pyrolysis process. The readings taken on a galvanometer in this circuit will yield a derivative of the thermogravimetry (pyrolysis) curve. An aperiodic automatic balance was furnished with this device and the thermal analysis of several important industrial and agricultural products, raw materials and analytical precipitates was carried out. These derivative curves were qualitatively characteristic of the decomposition processes occurring in each substance. The computation of the systematic error of the method and its experimental determination are discussed. Several examples are given to prove the practical usefulness of the method.

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PAULIK, F.; ERDEY, L.

Thermic investigation of precipitations. Pt. 1. Metal oxalate precipitates.
Pt. 2. Aluminum hydroxide precipitates. p. 461. KOZLEMENYEI. Budapest.
Vol. 5, no. 4, 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2, Feb. 1956

PAULIK

A new thermal method: derivative thermogravimetry. L. Erdély, P. Paulik, and J. Paulik (Tech. Univ., Budapest). Acta Chimica Acad. Sci. Hung. 16, 61-87 (1956) (in German) (English summary); cf. C.A. 50, 3952e.—A thermogravimetric app. is described and illustrated in which the sample under study is heated in an elec. oven; the temp. of the latter is increased at a const. rate. The sample is contained in a Pt crucible at the end of a rod, the lower end of which is attached to one side of an aperiodic balance. On the other side is suspended a magnet that is surrounded by a solenoid connected to a galvanometer. The deflection of the galvanometer is plotted with respect to time; it is proportional to the rate of change in wt. of the sample. Graphs are derived for CuSO₄·5H₂O, Al₂(SO₄)₃·18H₂O (I), K alum (II), hydargillite, artificial boehmite (III), Al₂O₃·xH₂O (IV), Al(OH)₃ gel (VI), MgCO₃ (in CO₂ atm.), Zn anthranilate (VII) (in CO₂ atm.), coal (in air and in N₂), beechwood (in N₂), and cellulose (in N₂). In the temp. range 0-1000°, I loses 3 mols. H₂O at room temp., 12 mols. at 140°, and the remaining 3 mols. at 280°. SO₄ is lost at 850°. In II, 4 mols. H₂O are attached to K, 6 to Al, and one each to the SO₄ ions. III, IV, and V are extensively discussed. VII loses half its org. content at 340°, probably forming $\sigma\text{-C}_6\text{H}_4\text{CO}_2\text{NH}_2$.

*J. W. Lowenberg Jr.**DM DT*

PAULIK, F.; ERDEY, L.

Thermal analysis of precipitates. I. Metal oxalate precipitates. II,
Aluminum hydroxide precipitates. In German. p. 27.

Vol. 7, no. 1/2, 1955

SOURCE: Monthly list of East European Accessions, (EEAL), LC, Vol. 5,
No. 3, March 1956

PAULIK, F.

HUNG

M7. Determination of sulphur in sulphates by pyrolytic decomposition (In German) — I. Eder and
F. Paulik, *Acta Chimica Academiae Scientiarum*

The method evolved by the authors is based on the observation that the SO₃ content of sulphates, which generally dissociate only at extremely high temperatures, can be liberated readily by heating sulphates with acidic pyrophosphates or metaphosphates. When this reaction is carried out in a Grotz-Kreckeler apparatus and an air current is led through it, the liberated SO₃ can be collected in water containing a small amount of sodium chlorate. Sulphuric acid formed in the solution can be titrated or determined by gravimetry after precipitation in the form of barium sulphate. The great advantage of this method is that it offers the possibility of separating SO₃ from various other interfering ingredients and thus it lends itself readily for the determination of sulphur in sulphates insoluble in acids as well. Thus the difficulties experienced with the sodium carbonate treatment are eliminated. The method elaborated by the authors is especially suited for the determination of sulphur in various industrial basic materials, e.g. baryte, also, coal ash, roasted pyrites, superphosphate, etc.

PAULIK, F.

3

13198. (Problem of Composition of Precipitated Barium Sulfate.) Beitrag zur Frage der Zusammensetzung des Bariumsulfat-Niederschlags. I. Jirkay and E. Paulik. Acta Chirurgica Academiae Scientiarum Hungaricae, v. 4, no. 1, 1934, p. 97-110.

Determined cause of nonhomogeneity in composition of BaSO₄ precipitates. Graphs, tables. 26 ref.

(1)

32

PAULIK F

Determination of sulfur in sulfates by pyrogenic decomposition. L. Bricev and E. Paulik (Tech. Univ., Budapest). Acta Chim. Acad. Sci. Hungaricae 1934(1934) (in German). Fusion of a sample contg. 0.15 g. SO₃ at 1000° with 1.2 g. of anhydrous Na₂PO₄ gives a quant. yield of SO₂. A special app. is described for absorbing the SO₂ in 0.1% NaClO₂ solution. The H₂SO₄ can be estd. volumetrically or gravimetrically. Fluoride requires the addn. of BaO₂ to the melt and decompr. of HBF₄ previous to deter. SO₂. Anions which yield volatile acids or anhydrides require excess Na₂PO₄. The method was applied to the sulfates of Ca, Sr, Ba, Mg, K, Na, Mn, and Cd, and to high furnace slag, coal ash, roasted pyrites, and superphosphate. K. G. Sume

PANLIK, F.

1. Composition of precipitated barium sulfate. L. Erley
and P. Paulik (Tech. Univ., Budapest). *Acta Chim. Acad.
Sci. Hung.* 17, 97-110 (1954) (in German). - The results of
Fischer (C.A. 46, 1389e) were confirmed. BaSO₄ ppts.
were annealed and the gases evolved on ignition were an-
alyzed. The loss of H₂SO₄ is significant. The best crystals
and results are obtained when BaSO₄ is pptd. from solns.
with a pH of 0-1. The addn. of SO₄²⁻ to Ba⁺⁺ is recom-
mended. BaSO₄ pptd. in neutral soln. contains much H₂O
K. G. Stone

PAULIK, F.

Differential thermogravimetry. I. Riedey, J. Paulik,
and J. Paulik (Tsch., Univ. Budapest). Nôme 114
483-0(1954).—The deriv. of the thermogravimetric curve
is obtained by measuring the current produced by the dis-
placement of a permanent magnet attached to the beam of a
thermobalance. Curves are plotted for gibbsite and Zn
-anthranilate and compared to the curves for differential
thermal analysis and thermogravimetric analysis. The
advantages of differential-thermogravimetric analysis are
outlined. A similar method described by de Keyser (C.I.
45, 3095c) gives a ratio of finite increments rather than a
deriv. B. P. Block

PAULIK, J.

Differential thermogravimetry. I. Erdely, J. Paulik
and J. Paulik (Tech. Univ., Budapest). *Nature*, 174,
530 (1954). The deriv. of the thermogravimetric curve
is obtained by measuring the current produced by the dis-
placement of a permanent magnet attached to the beam of a
thermobalance. Curves are plotted for gibbsite and Zn
muthanilate and compared to the curves for differential
thermal analysis and thermogravimetric analysis. The
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outlined. A similar method described by de Keyser (C.A.
45, 3000c) gives a ratio of finite increments rather than a
deriv.

B. P. Block

PAULIK, F.

3320. Determination of sulphur in sulphates by
pyrolytic decomposition. L. Erney and F. Paulik
(Acta Chim. Hung., 1954, 4 (1), 37-53).—Liberation
of SO₂, present in sulphates that generally dis-
sociate only at a high temp., is effected by heating
with Na₂H₂P₂O₇ or NaPO₃. The gas is carried in an
air current in a Grote-Krikeler apparatus into
water containing a little NaClO, and determined
volumetrically or gravimetrically as BaSO₄. The
method is particularly suited to the determination
of S in industrial materials such as barytes, furnace
slag, coal ash, roast pyrites and superphosphate.
H. WREN

PAULIK, F.

2359. Composition of the barium sulphate precipitate. L. Erdely and F. Paulik / *Cia Chim Hung.*, 1954, 4 [1], 97-140. Various types of BaSO_4 were prepared under different conditions beginning with accurately known quantities of H_2SO_4 and BaCl_2 . The ppt. obtained were weighed after drying and after ignition in the Grotz-Kruukler apparatus. Loss on ignition and content of volatile ingredients were also determined and complemented by direct determination of H_2O . The composition of the ppt. depends greatly on the conditions of pptn. and on the quantity and nature of the anions

and cations present. Hydrogen-ion concn. greatly affects crystal form and composition of pptd. BaSO_4 . When the wt. of the ignited ppt. is corrected by a value corresponding to the quantity of volatile H_2SO_4 expressed as BaSO_4 , data closely approximating theoretical values are obtained, so confirming that variations in the composition and wt. of pptd. BaSO_4 are chiefly due to the escape of volatile ingredients—primarily the volatile H_2SO_4 . In a reversed pptn., the wt. of the ignited ppt. yields correct values. High H-ion concn. affects favourably the pptn. of BaSO_4 . The composition of the ppt. approaches the theoretical value at pH 0 to 1, whereas the greatest differences are shown at pH \approx 2. In a neutral medium the ppt. shows a strikingly high water content. The crystal structure of the ppt. varies with variation in chemical composition. H. WARM

PAULIK, F.

"Data on the Problem of the Composition of Precipitated Barium Sulfate." p. 97, Budapest,
Vol. 4, no. 1, 1954.

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

PAULIK, F.

"Determination of Sulfur in Sulfates by Pyrogenic Decomposition." p. 37. Budapest, Vol. 4,
no. 1, 1954.

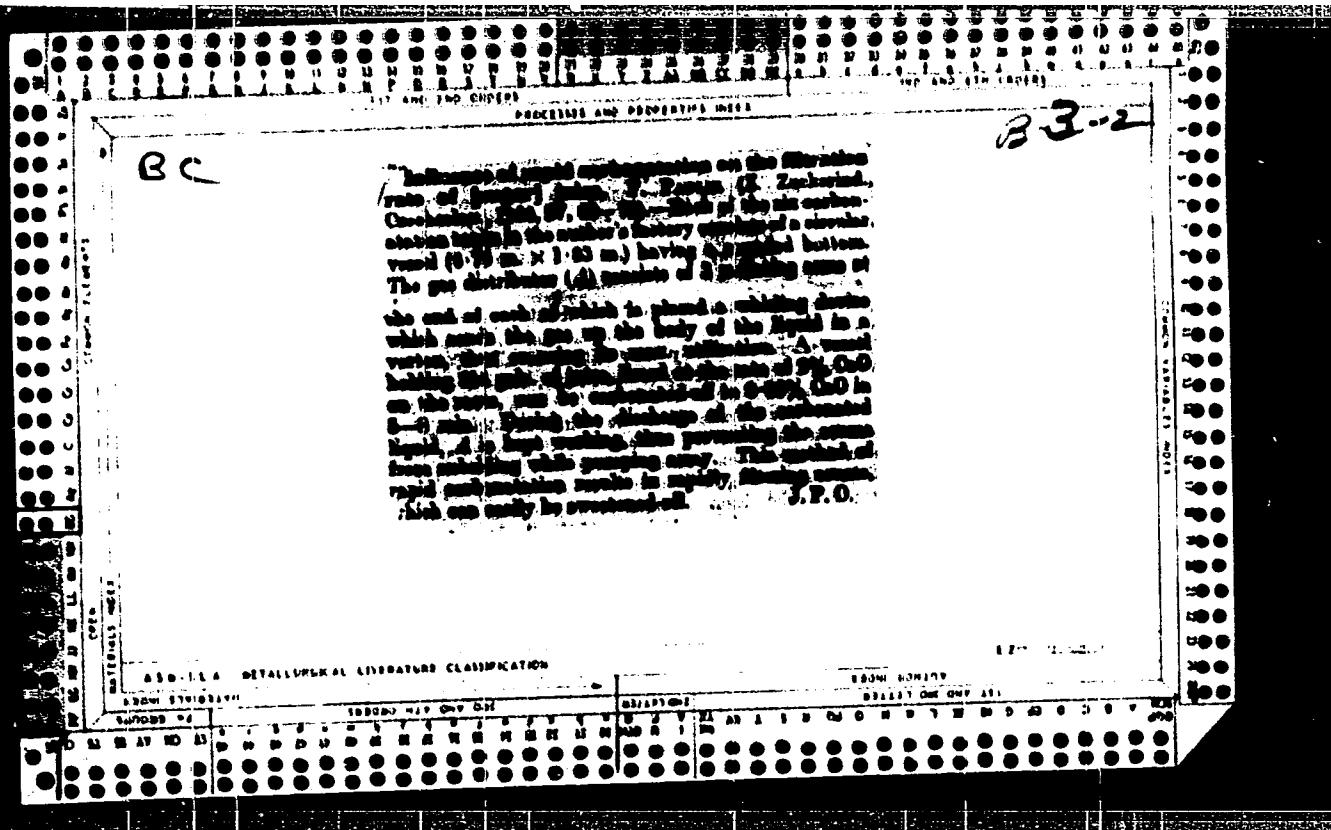
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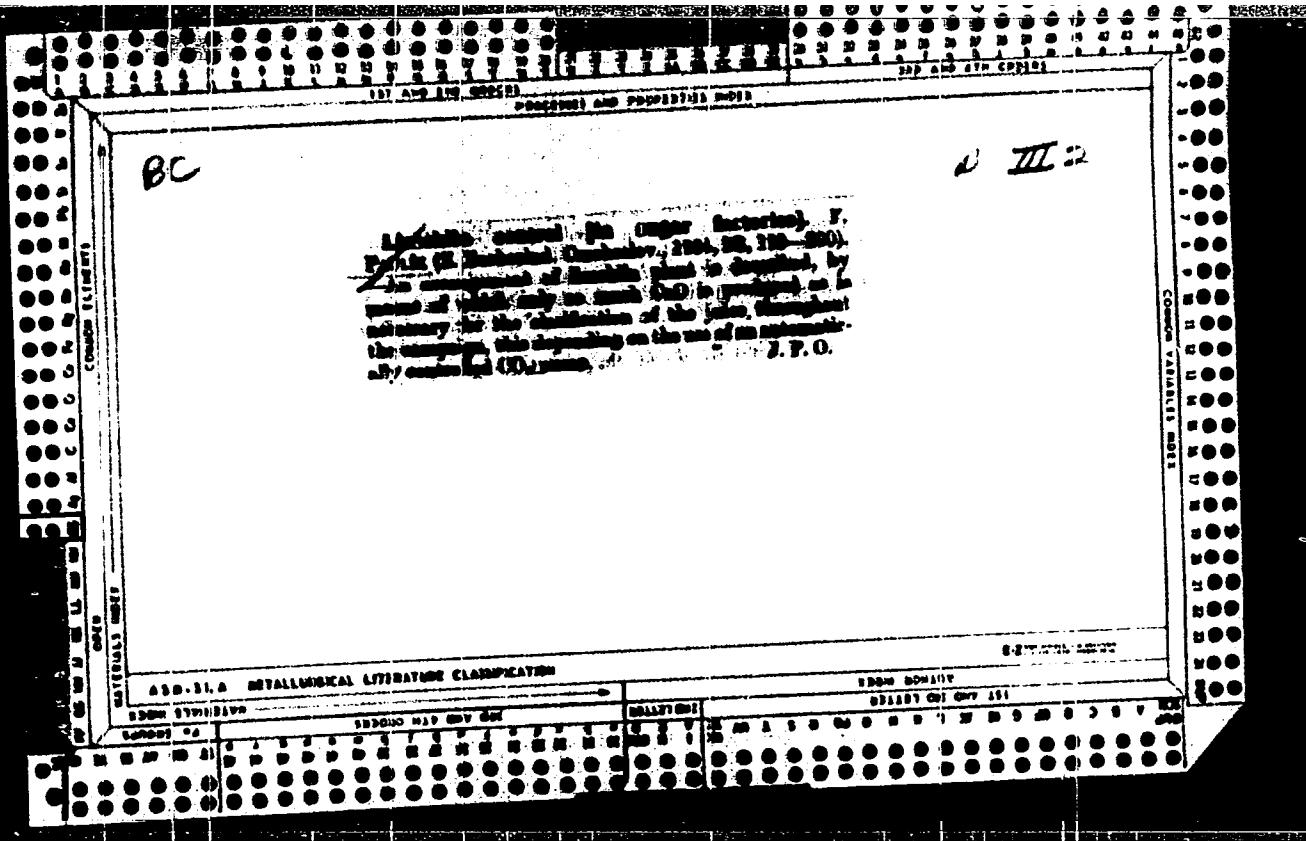
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Ferenc (Budapest, XI., Gellert ter 4); BULAGH, Lajos (Budapest, XI.,
(Budapest, XI., Gellert ter 4); POLOS, Laszlo (Budapest, XI.,
Gellert ter 4)

Derivatographic and electron microscopic analysis of barium
sulphate precipitates. Pt.2. Acta chimica Hung 41 no.1/2:
109-122 '64.

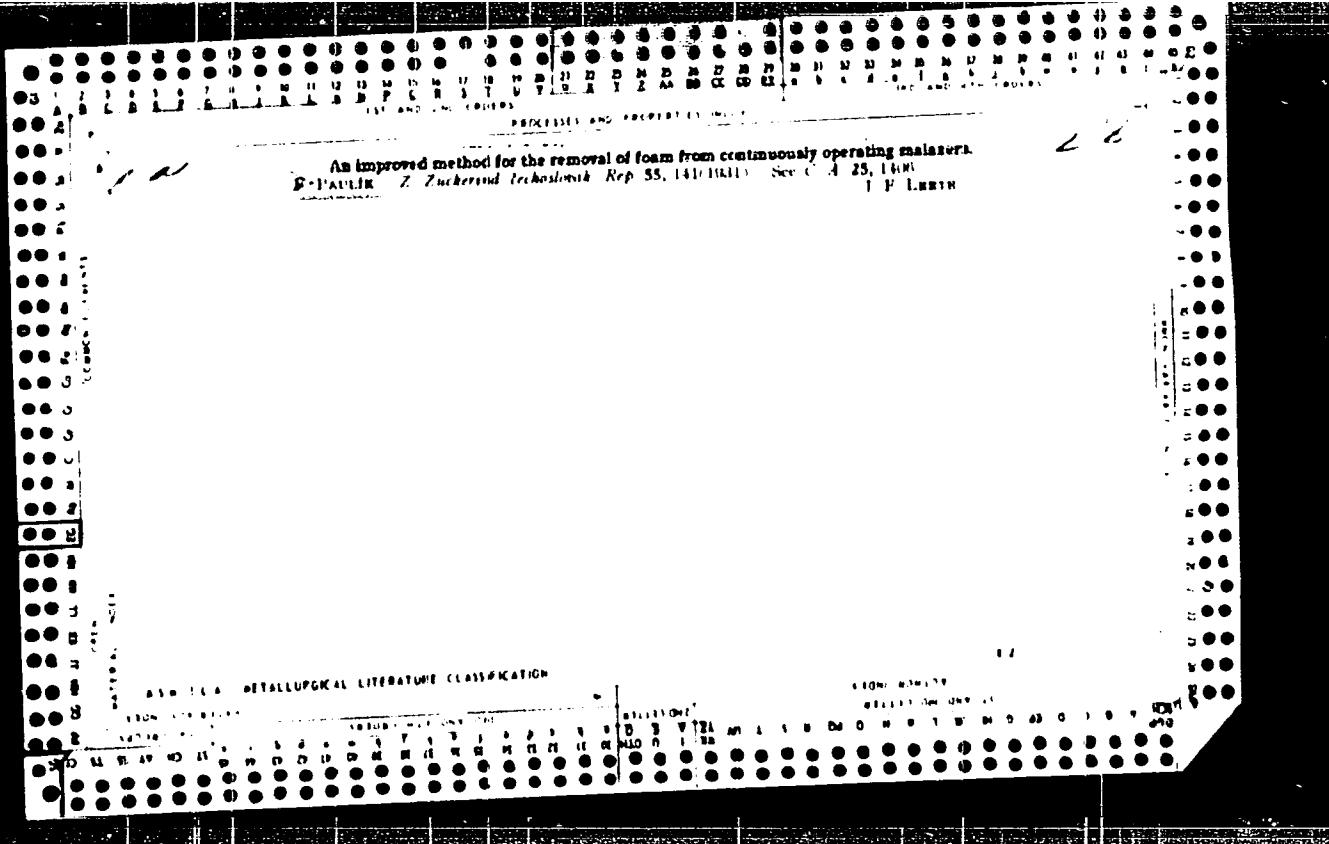
1. Institut für allgemeine Chemie der Technischen Universität
Budapest. 2. Mitglied, Redaktionskollegium, "Acta Chimica
Academiae Scientiarum Hungaricae" (for Erdey).





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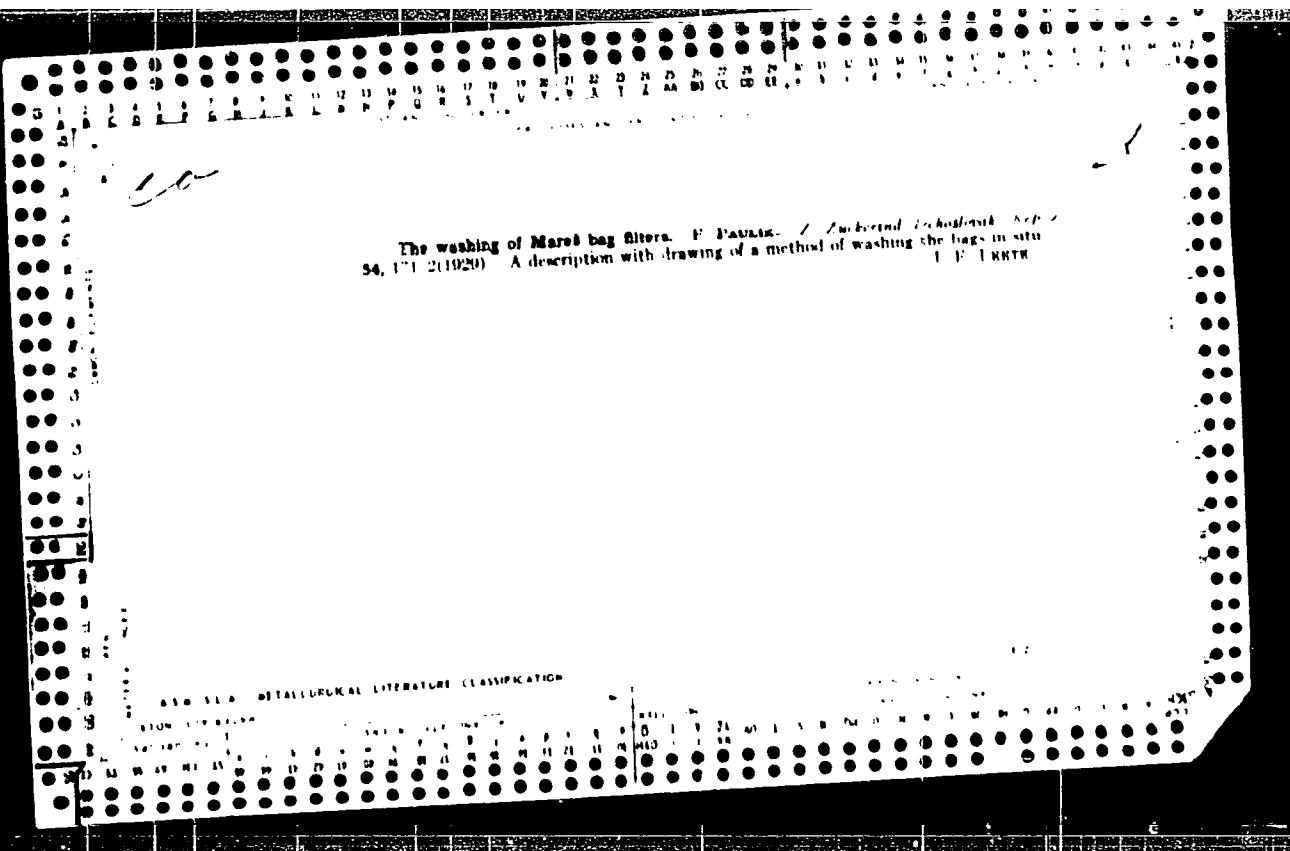


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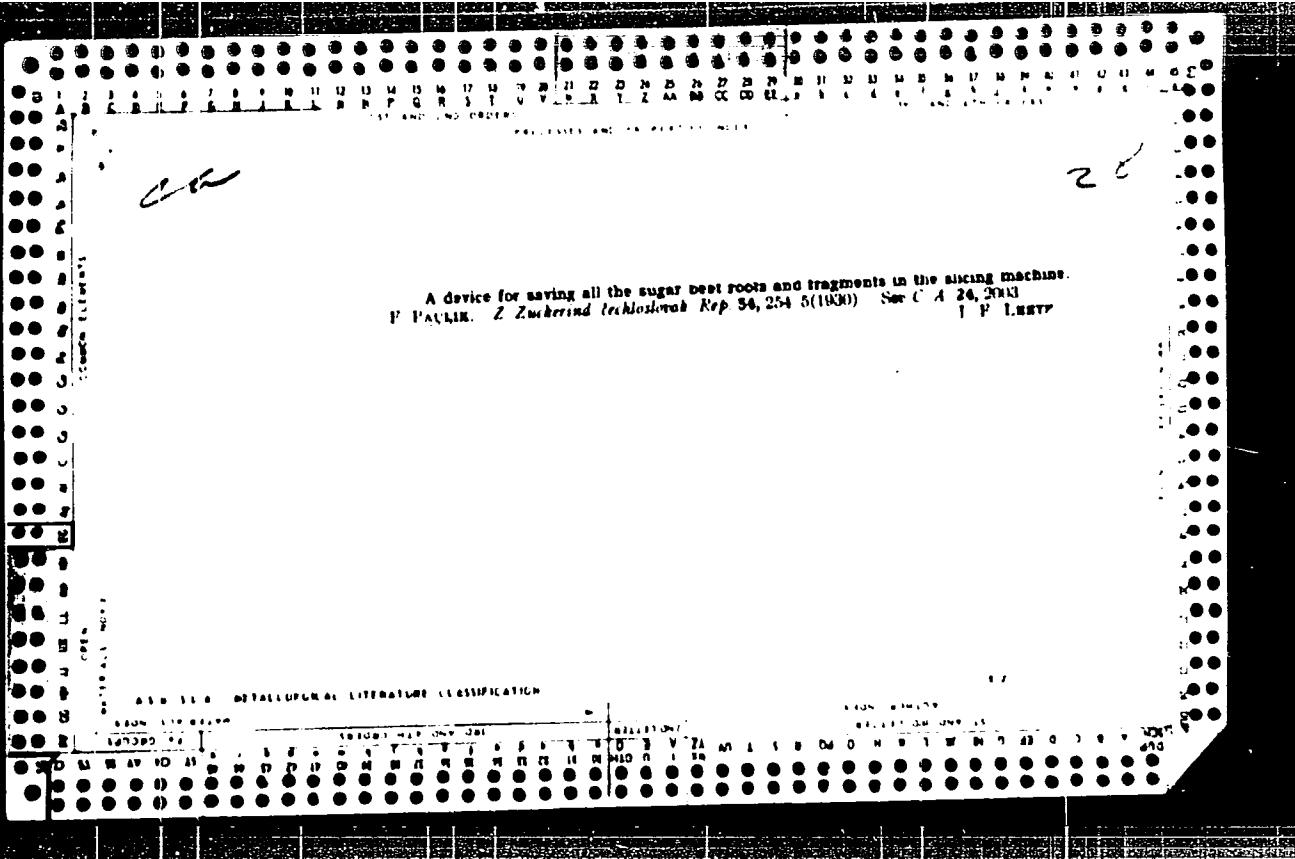


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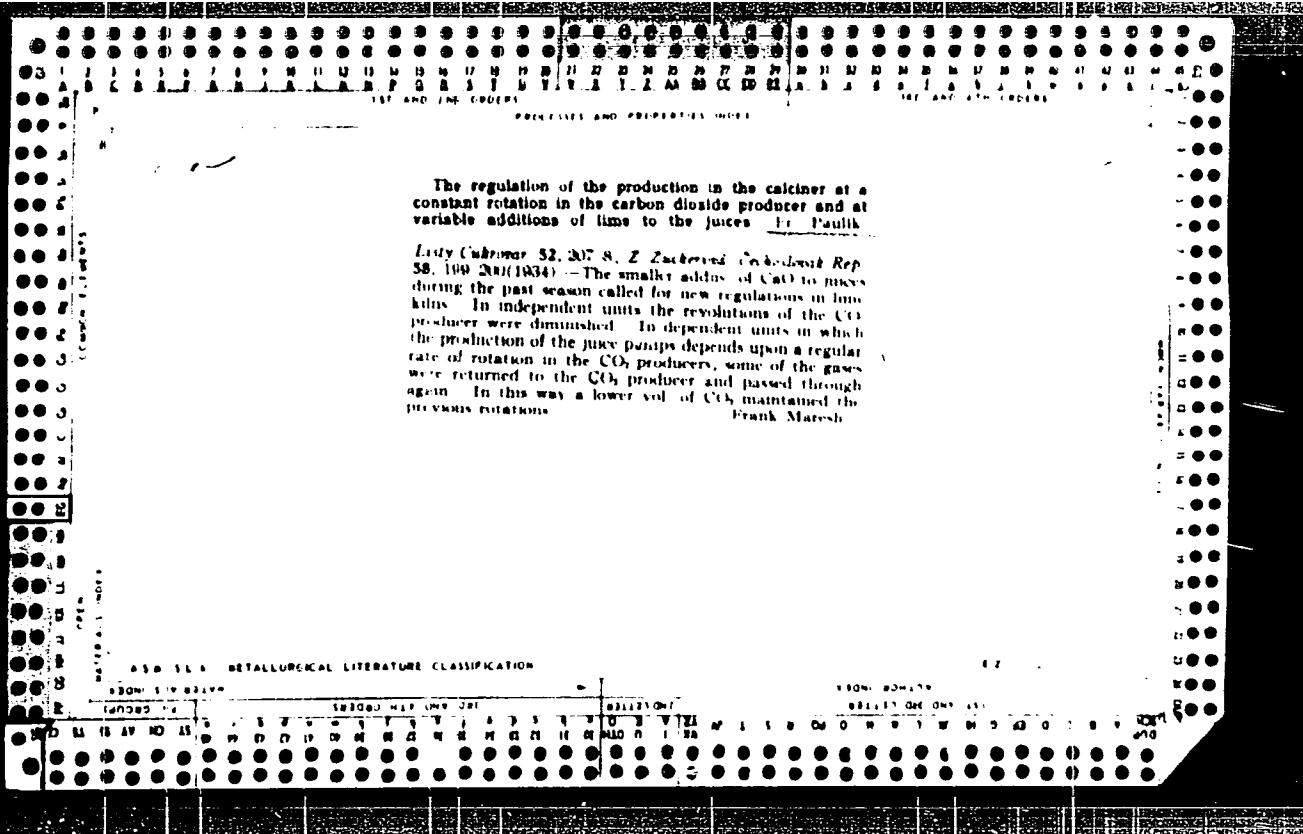
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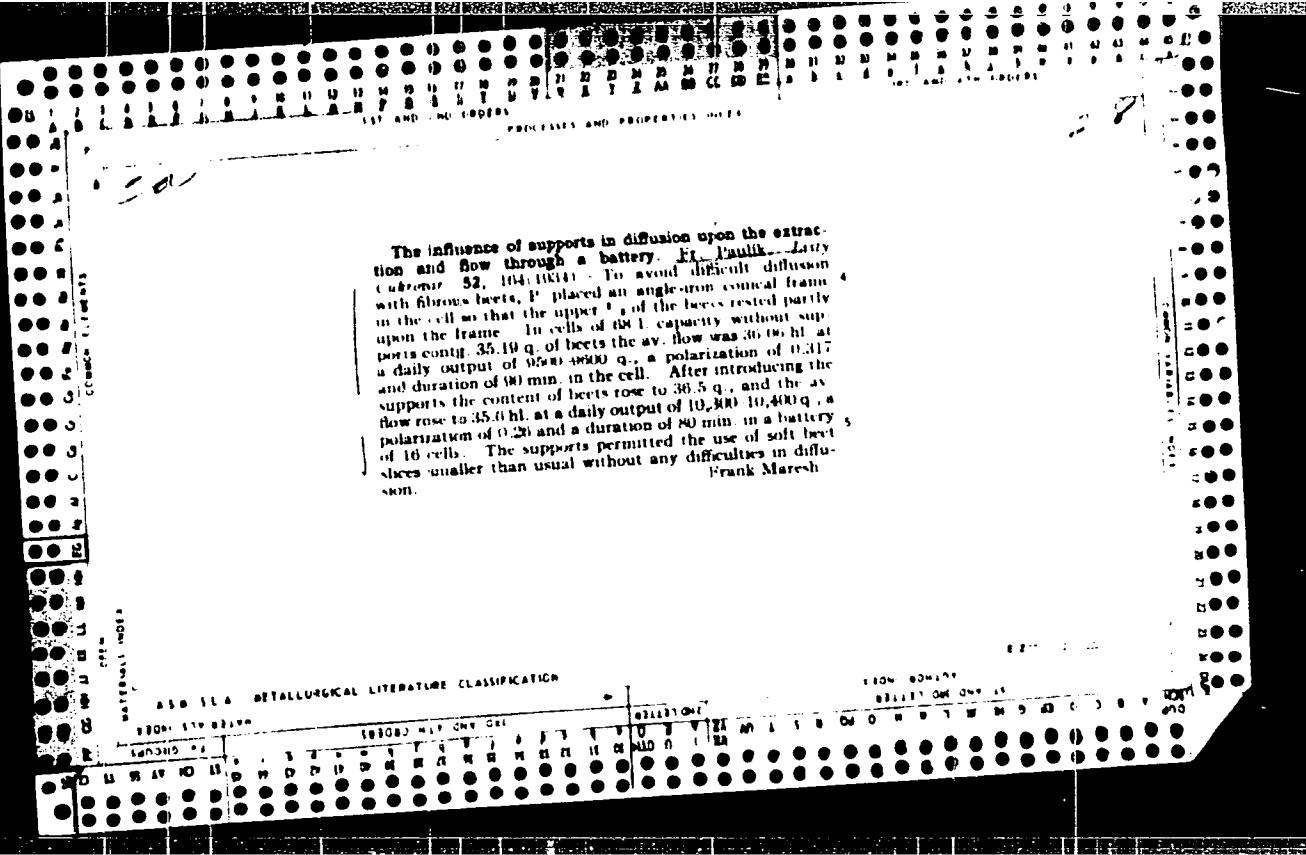
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An improved method for removing foam from continuous "Malaxers." By PAULIK. *Lasty Cedars*, 49, 140-2(1930). Angular troughs are described which collect the foam from the surface into a central container. FRANK MARSHALL

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PAULTE, Irvin; SOMER, Alvin

Economy of the operation of electric furnaces melting 1000
furnaces. Epit. Invat. C. 1936, U.S. Pat. No. 2,056,

U. Texas Glass Factory, Tex.

PAULIK, Istvan; TISZAVARY, Otto, dr.

Corrosion in the sugar industry. Cukor 12 no.7:182-184
J1 '59.

PAULIK, Istvan

Aluminum alloys as structural materials in the sugar industry.
Cukor 13 no.4:113-117 Ap '60.

... , I.; TIBOLDY, C.

Corrosion in the sugar industry. p.192

CUKORIUM. (Mezogazdasagi Es Elelmiszeriari Tudomanyos Egyesulet. Cukorirumi Szakosztaly) Budapest, Hungary
Vol. 14, no.7, July 1959

Monthly List of East European Acquisitions (EAST) No., Vol. 4, no.11, Dec. 1959
Uncl.

Pawlak, J.

Dist#: 4120/413d

The effect of temperature on the solution of zinc in dilute acid solutions. J. Kiss, J. Balog, L. Kiss, and I. Paulik (Univ. Szeged, Hung.). *Acta Univ. Szegedensis, Acta Phys. et Chem.* (N.S.), 4, 107-15 (1958) (in German). — The effect of temp. on the soln. of Zn in 0.001, 0.005, and 0.01 N solns. of HCl, H₂SO₄, and citric acid was studied. The measurements were made at 5, 15, and 25°. An explicit temp. effect can be established for all 3 acids. The soln. curves are drawn on the basis of polarographic analysis of samples taken at definite moments. At all concns. with an increase in temp. the amt. of dissolved metal, as well as the velocity const. of the reaction, increases. From the numerical values of the temp. coeffs. as well as from their variations, certain deductions can be made. The value of the temp. coeff. is greatest for H₂SO₄ and least for citric acid. For a temp. change of 10° the increase in the temp. coeff. is slight with all 3 acids. The increase amounts to 1, 0.88, and 1.70%, resp., for HCl, H₂SO₄, and citric acid.

George Molator

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12. Derivative thermogravimetry, a new thermogravimetric procedure. (III German) L. R. D. J. E. PAULI. Acta Chimica Academiae Scientiarum Hungaricae, Vol. 10, 1956, No. 1-3, pp. 61-97, 24 figs.

A new procedure was developed by the authors for the thermogravimetric investigation of inanalytical precipitates and other substances. A permanent magnet serving as the core of a fixed coil was suspended from the beam of a thermobalance. The potential of the current induced was then found proportional to the weight changes occurring in a pyrolysis process. The readings taken on a galvanometer in this circuit will yield a derivative of the thermogravimetry (pyrolysis) curve. An aperiodic automatic balance was furnished with this device and the thermal analysis of several important industrial and agricultural products, raw materials and inanalytical precipitates was carried out. These derivative curves were qualitatively characteristic of the decomposition processes occurring in each substance. The computation of the systematical error of the method and its experimental determination are discussed. Several examples are given to prove the practical usefulness of the method.

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PAULIK, F.

Determination of sulphur in sulphates by pyrolytic decomposition.
L. Erdely and V. Paulik (Acta chim. Hung., 1954, 7, 37-53). SO₂ is present in sulphates which generally dissociate only at high temp. is liberated by heating with Na₂CO₃ or NaPO₄ and carried in an air current into water containing NaClO₃ and titrated volumetrically or gravimetrically as BaSO₄. The method is particularly suitable for such materials as barites, high furnace slag, coal ash, roost, pyrites, gypsum, phosphates etc. H. Wep.

PAULK F.

WUNG

22. Data on the problem of the composition of precipitated barium sulphate (in German) -- L. Erdely and E. Paulk. (Acta Chimica Academiae Scientiarum Hungaricarum) -- Vol. 4, 1951, No. 1, pp. 97-110.
(2 figs., 3 tabs.)

The authors prepared various types of barium sulphate under different conditions, setting out from precisely known quantities of sulphuric acid and barium chloride. The obtained precipitates were weighed both after drying and after glowing in the Gratio-Krekeloh apparatus. Glowing loss and volatile contents were also established and complemented by the direct determination of the water content. It was found that the composition of the precipitate depends to a great extent upon the conditions of precipitation, upon the quantity and nature of anions and cations present in the solution during the procedure. Hydrogen ion concentration seems to play a dominant role in affecting the composition and shape of precipitated barium sulphate crystals. High H-ion concentration acts favorably upon the precipitation of BaSO₄. The composition of the precipitate approximates theoretical values in the range of pH 0 to 1, whereas the greatest difference was observed at about pH 2.

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In a neutral medium the precipitate showed a
strikingly high water content.

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P A U L I K E

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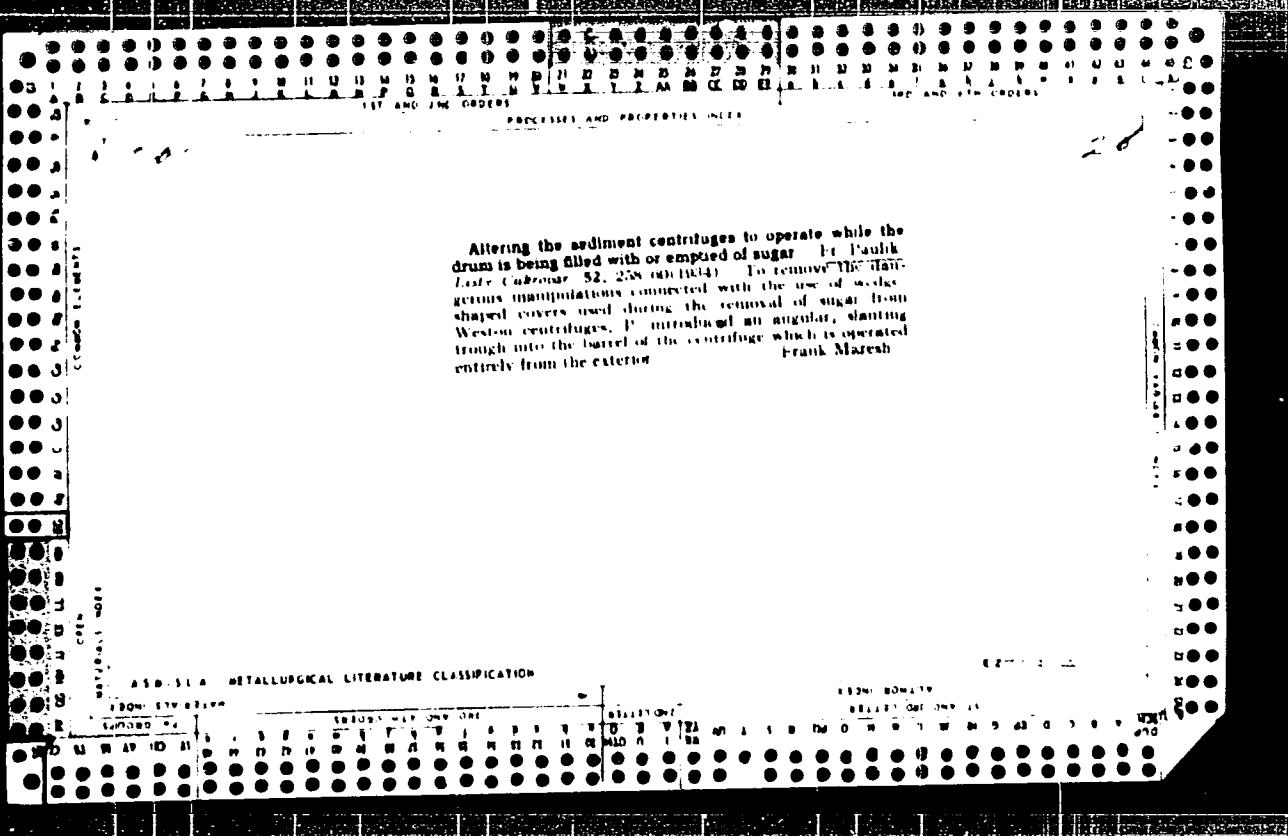
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✓ 15. Thermal analysis of hydroxides: I. Metal oxalate
precipitates. II. Aluminum hydroxide precipitates. (in
German) I. *Z. Anorg. u. Allg. Chem.* 1935, No.
Academie der Wissenschaften Preussischer Kulturbesitz, Vol. 7, 1935, No.
1-2, pp. 27-36; 38 figs.

The simultaneous application of differential thermal
analysis and thermogravimetry for the investigation
of the thermal properties of barium, strontium, calcium,
magnesium, zinc and manganese oxalate precipitates
resulted in many advantages. By the first method it is
possible to record extremely small changes in weight
whereas thermogravimetry yields reliable data for
quantitative deductions. The thermogravimetric measure-
ments were carried out on a thermobalance made in
the Institute. It was found that the carbon dioxide
formed during the thermal treatment of the metal
oxalate precipitates plays an important role since it
may decrease the reaction rate and increase the de-
composition temperature. By employing a similar
method it was established that the structure and com-
position of aluminum hydroxide precipitates was barely
influenced by the quality of the precipitating agent
and by the concentration of foreign ions in the solution.
The slower the rate of precipitation and the weaker
and hotter the solution (conditions more favourable
for crystal formation) the closer the structure of the
precipitate approaches that of the gibbsite molecule.
Under contrary conditions an amorphous gel-type
precipitate was obtained.

Improvement in the working of the filter presses. Fr. Paulik. *Lasty Českoslov. 51*, 507-8; Z. Zuckerind. *Czechoslov. Rep.* 57, 450-1 (1933).—Gas contg. 37.2% CO₂ administered quickly to liquors produced large clumps of sediment and left a clear and bright fluid in the interspaces. During a slow settl. the clumps were small and diffuse while the liquid in the interspaces was foggy, the rate of filtration was retarded, and the extn. of the sediment was far from complete. If the liquor is kept in const. movement after settl. by inflowing air, settling of the sediment is prevented and it is distributed evenly to the filter presses. *Prakt. Metall.*

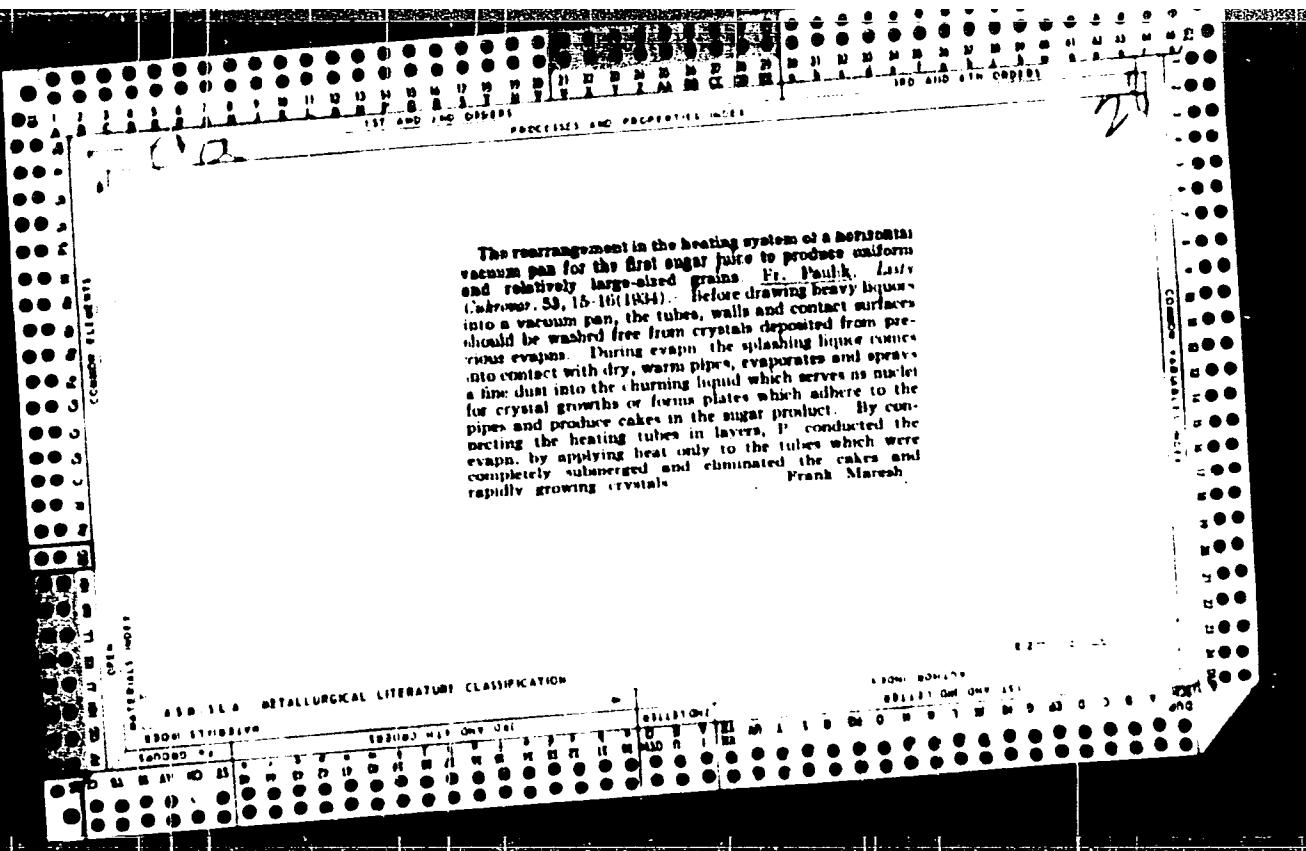
ASL SLA METALLURGICAL LITERATURE CLASSIFICATION



The arrangement of the heating system of a horizontal vacuum pan for achieving equal sized and uniform grains of sugar at one evaporation. Fr. Paulik. Z. Zuckerind. (Szeged). Rep. 59, 157-9 (1934). - See C. A. 29, 20124.
Frank Marash

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239510013-6"



ERDEY, L., prof., dr. (Budapest, XI., Gellert ter 4); PAULIK,
F. (Budapest, XI., Gellert ter 4); PAULIK, J.
(Budapest, XI., Gellert ter 4)

Normalizing the conditions in thermoanalytical experiments
by means of a derivatograph. Periodica polytechn chem 7
no. 3: 171-175 '63

1. Lehrstuhl fur Allgemeine Chemie, Technische Universitat,
Budapest.
2. Mitglied, Redaktionskollegium, "Periodica Polytechnica-
Chemical Engineering." (for Erdey).

ERDEY, L., prof., dr. (Budapest, XI., Gellert ter 4); LIPTAY,
G. (Budapest, XI., Gellert ter 4); PAULIK, F. (Budapest,
XI., Gellert ter 4);

Determination of clacite, magnesite and dolomite in
presence of each other by means of a derivatograph.
Periodica polytechn chem '7 no. 3: 177-184 '63

1. Lehrstuhl fur Allgemeine Chemie, Technische Universitat,
Budapest.
2. Mitglied, Redaktionskollegium, "Periodica Polytechnic-
Chemical Engineering". (for Erdey).

ERDEY, L., prof. (Budapest, XI., Gellert ter 4); GAL, S.
(Budapest, XI., Gellert ter 4); PAULIK F. (Budapest,
XI., Gellert ter 4); BAUER, J. (Budapest, XI., Gellert
ter 4);

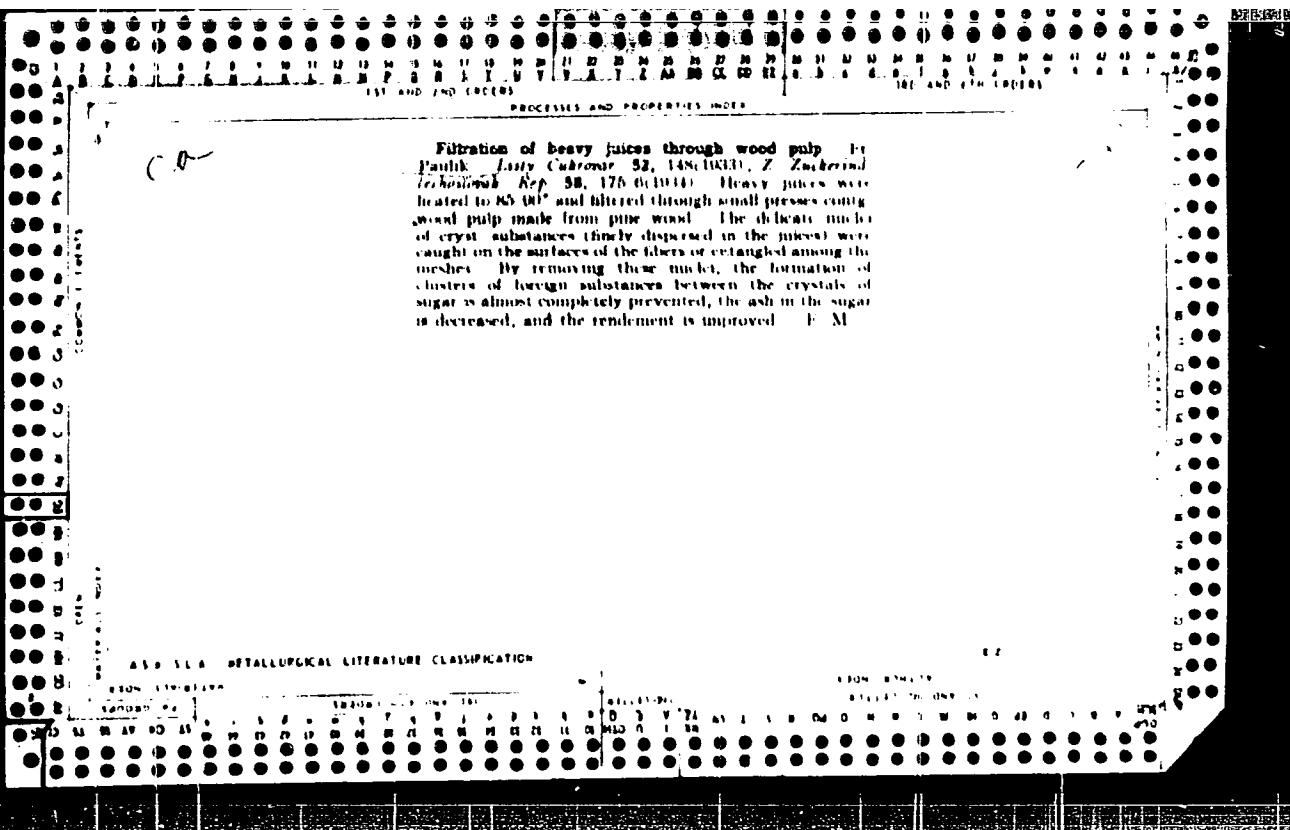
Derivatographic analysis of calcium oxalate hydrates.
Periodica polytechn chem 7 no. 3: 215-22 '63

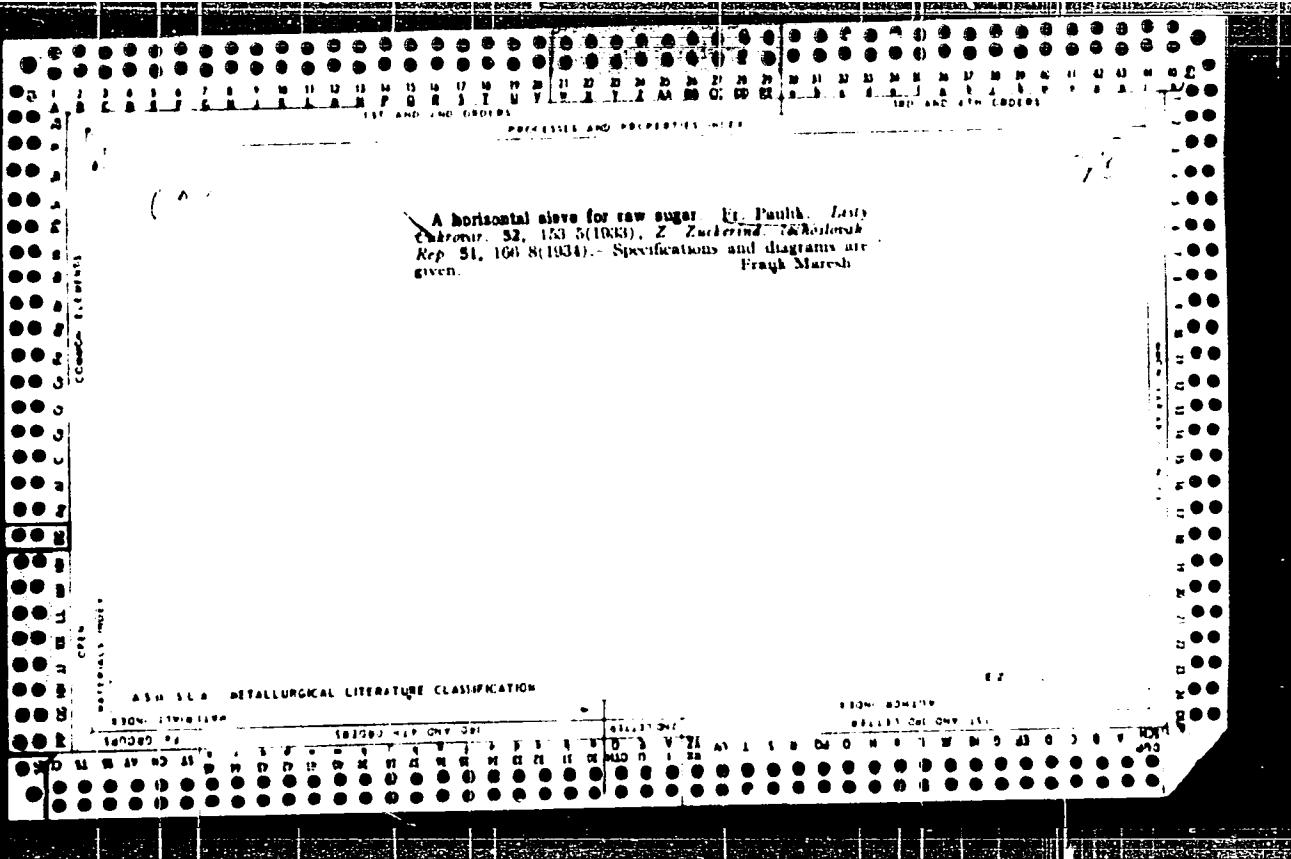
1. Lehrstuhl fur Allgemeine Chemie, Technische Universitat,
Budapest (for Erdey, Gal and Paulik).
2. Chemische Fabrik Gedeon Richter, Kobanya (for Bayer).
2. Mitglied, Redaktionskollegium, "Periodica Polytechnica-
Chemical Engineering" (for Erdey).

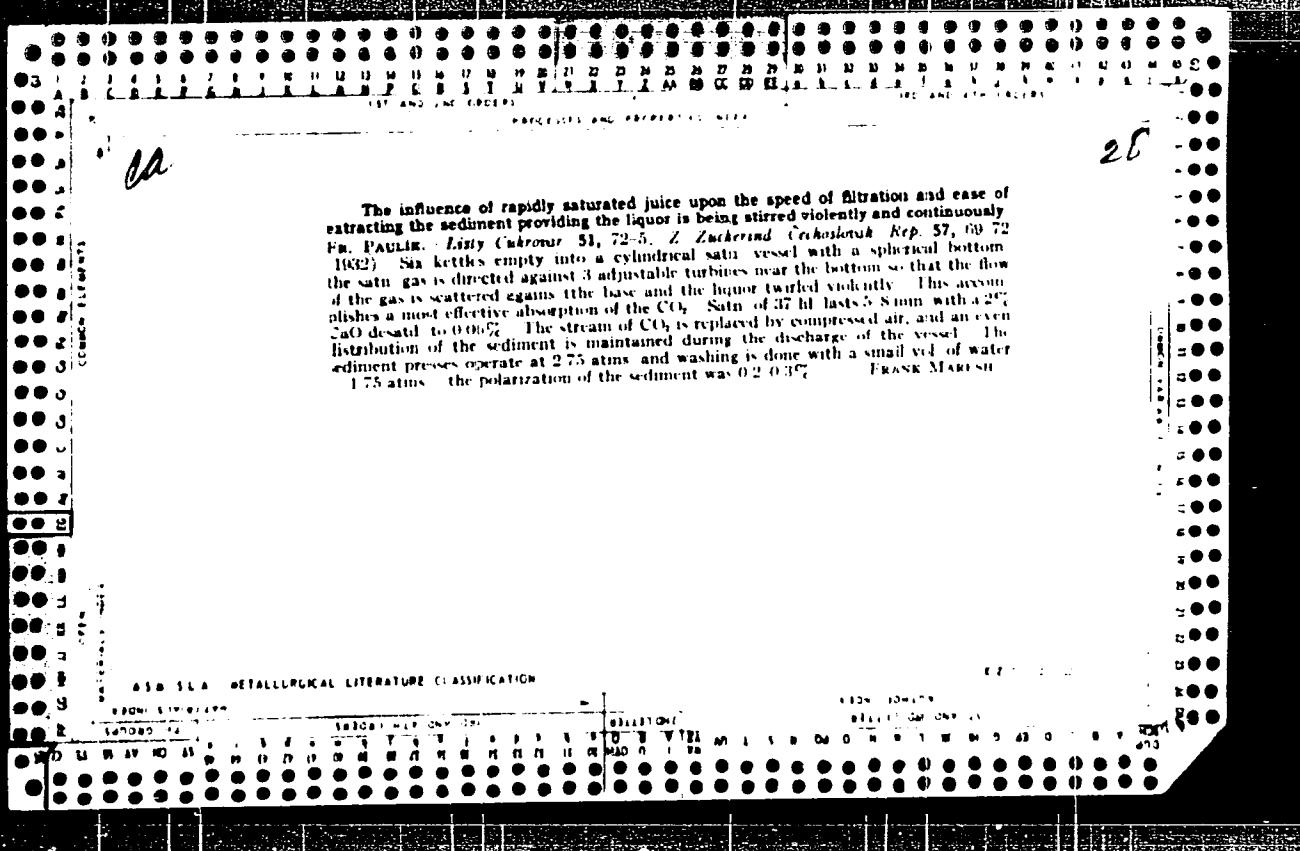
PAULIK, F.; PAULIK, J.; ERDEY, L.

Differential thermogravimetry; also, remarks by F. Korosy and others.
p. 55. KOZLEMENYEI. Budapest. Vol. 7, no. 1, 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, No. 2, Feb. 1956







CA

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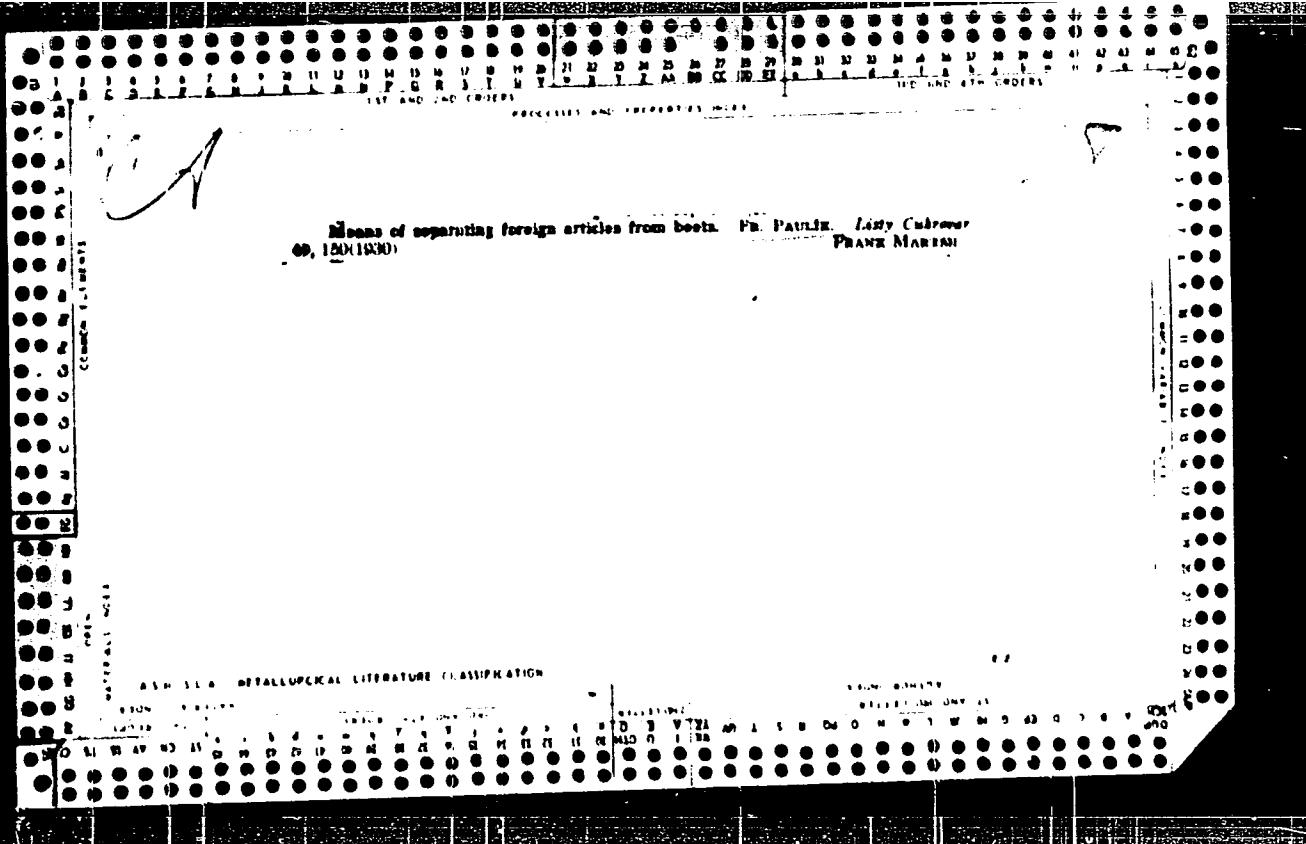
The influence of rapidly saturated juice upon the speed of filtration and ease of extracting the sediment providing the liquor is being stirred violently and continuously. Fr. Paulika. Listy Cukrovar. 51, 72-5; Z. Zucker-Ind. Cechoslovak. Rep. 57, 69-72(1932). Six kettles empty into a cylindrical satn. vessel with a spherical bottom; the satn. gas is directed against 3 adjustable turbines near the bottom so that the flow of the gas is scattered against the base and the liquor twirled violently. This accomplishes a most effective absorption of the CO₂. Satn. of 37 hl. lasts 5-8 min. with a 2% CaO desatd. to 0.06%. The stream of CO₂ is replaced by compressed air, and an even distribution of the sediment is maintained during the discharge of the vessel. The sediment presses operate at 2.75 atm. and washing is done with a small vol. of water at 1.76 atm.; the polarization of the sediment was 0.290.3%.

Frank Marosh

ASO 11A METALLURGICAL LITERATURE CLASSIFICATION

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CIA-RDP86-00513R001239510013-6



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CIA-RDP86-00513R001239510013-6"

PAULIK, Ferenc

Derivatograph, the new Hungarian-made thermoanalytic
instrument. Magy kem lap 18 no.12:2 of cover D '63.

PAULIK, Ferenc (Budapest, XI., Gellert ter 4); BUZAGI, Eva (Mrs);
(Budapest, XI., Gellert ter 4); POLCS, Laczlo (Budapest, XI.,
Gellert ter 4); ERDEY, Laszlo dr., prof. (Budapest, XI., Gellert
ter 4).

Dervatographic analysis of barium sulfate precipitates.
Pt.1. Acta chimica Hung 38 no.4:311-323 '63.

1. Institut für Allgemeine Chemie der Technischen Universität,
Budapest.

PAULIK, Ferenc

High-temperature reactions in melts. Kem. tud. Kozl. MTA 22
no. 3/4:121-431 '64.

1. Chair of General Chemistry, Budapest Technical University.

KOROS, Endre, PAVILIK, Ferenc, IRDFFY, Laszlo, RUFI, Ferenc

Thermal decomposition of some cobalt (II)-pyrazine mixed complexes. Magy. Kem. Folyoirat 70 no.11:468-474 N '64.

1. Chair of Inorganic and Analytic Chemistry, Lorand Eotvos University, Budapest, Chair of General Chemistry, Budapest Technical University, and Chair of Organic Chemistry, Lorand Eotvos University, Budapest. 2. Editorial board member, "Magyar Kem. Folyoirat" (for Irdey).

ERDEY, L., prof., dr. (Budapest, XI., Gellert ter 4); PAULIK,
F. (Budapest, XI., Gellert ter 4); PAULIK, J.
(Budapest, XI., Gellert ter 4)

Normalizing the conditions in thermoanalytical experiments
by means of a derivatograph. Periodica polytechnica chem 7
no. 3: 171-175 '63

1. Lehrstuhl fur Allgemeine Chemie, Technische Universitat,
Budapest.
2. Mitglied, Redaktionskollegium, "Periodica Polytechnica-
Chemical Engineering." (for Erdey).

BOBAK, L., okleveles gepezsmernok; PAULIK, J., okleveles gepezsmernok, a
muszaki tudomanyok kandidatusa

Czechoslovak-manufactured, multirope hoisting machines for shallow
mines of minor capacity. Bany lap 96 no.2:89-95 F '63.

1. Csehszlovak Tudomanyos Akademia Banyaszati Intezete, Kosice.

BOBAK, I., BURNIK, A., HANUSIK, J.

Automation of vertical mine transportation with power supply
to the driving motor by grid controlled mercury rectifiers.
Vysl na výrobku 3:13-27 - 1964.

1. Institute of Mining, Slovak Academy of Sciences, Kosice.

LEONTIEV, F.S. [Leont'yev, F.S.]; PAULIK, J.

Determination of basic electromechanical parameters of mine
trolley locomotives. Vysl ban vyzk 3:29-38 '64.

1. Elektrosila Plant, Leningrad (for Leontiev).
2. Institute of Mining, Slovak Academy of Sciences, Kosice
(for Paulik).

PAULIK, J.; LFSKO, A.; CERNIK, F.

Rupture of nonparasitic splenic cysts as a cause of acute abdomen. Bratislavské Lek. Listy 44 no. 7:442-444 '64.

... I. chirurgicka klinika Lekarskej fakulty Univerzity Komenskeho v Bratislave (veduci prof. MUDr. K. Carsky).

PARKS 3

A new thermal method derivative thermogravimetry
L. Endy, F. Paulik, and J. Paulik (Tech. Univ., Budapest).
Acta Chim. Acad. Sci. Hung. 10, 91-97 (1967) (in German)
(English summary); cf. C.A. 65, 9032s. A thermogravimetric app. is described and illustrated in which the sample under study is heated in an elec. oven; the temp. of the latter is increased at a cont. rate. The sample is contained in a Pt crucible at the end of a rod, the lower end of which is attached to one side of an aperiodic balance. On the other side is suspended a magnet that is surrounded by a solenoid connected to a galvanometer. The reflection of the galvanometer is plotted with respect to time; it is proportional to the rate of change in wt. of the sample. Graphs are derived for CuSO₄·5H₂O, Al₂(SO₄)₃·18H₂O (I), Kalun (II), hydargillite, artificial boehmite (III), Al₂O₃·xH₂O (IV), Al(OH)₃ gel (V), MgCO₃ (in CO₂ atm.), Zn anthrailate (VI) (in CO₂ atm.), coal (in air and in N), beechwood (in N), and cellulose (in N) in the temp. range 0-1000°. I loses 8 mols. H₂O at room temp., 12 mols. at 140°, and the remaining 3 mols. at 180°. SO₄ is lost at 300°. In II, 4 mols. H₂O are attached to K, 6 to Al, and one each to the SO₄ ions. III, IV, and V are extensively discussed. VI loses half its org. content at 340°, probably forming a C₄H₄CO(OZnNH).

J. W. Loweberg, Jr.

PM MT

Pauk, J.

12. A new method for the derivation of polarograms
Part I. Project. Magyar Rendesz. Poljaind.
Vol. 33, 1940, No. 7, pp. 220-221, 7 figs.

A new method has been developed for the recording of derived curves in polarography. The current to be differentiated is conducted into the primary coil of a suitable transformer. The current induced in the secondary coil supplies the derivative of the polarographic current directly, which can be recorded in the usual way by a galvanometer. The curve obtained in this manner accurately follows each minute change of the undifferentiated polarogram. The abscissa values of its maximum and of the inflection point of the primary curve coincide perfectly. In case of ideal stages the differentiated curve is completely symmetrical and a shift of the point of maximum, often experienced when differentiating with the condenser method, cannot be observed.

PM 8/6

0/002/62/000/009/001/001
D287/D307

AUTHOR: Paulik, Ferenc, Paulik, Jenö and Erdey, Laszlo

TITLE: Derivatography

PERIODICAL: Chemische technik, no. 9, 1962, 533-537

TEXT: The derivatograph, constructed by the authors, is an automatic recording device for the thermal analysis of solid or liquid samples. Weight changes due to heat and the rate at which these changes proceed and the variations in the enthalpy and the temperature of one sample are recorded simultaneously. The relationship between the chemical composition and the crystalline structure of substances can be determined with a higher degree of accuracy than with hitherto used methods; thermal reactions within the sample can also be elucidated by this method. Derivatograms give results obtained during tests on bauxite samples and during the microdistillation of water. The authors refer briefly to previous investigations on minerals, ores, solid fuels and building materials, on the heat-sensitivity of catalysts and thermal proper-

Card 1/2

VANCSONE SZEMERCSANYI, Ibolya; PAULIK, Jeno

Thermal analysis of polyester resins. Pt.l. Magy kem
folyoir 69 no.12:545-550 D'63.

1. Muanyagipari Kutato Intezet, Budapest.

PAULIK, Jeno

Thermography. Kem tud kozl MTA 22 no.3/4:433-448 '64.

1. Chair of Inorganic Chemistry, Budapest Technical University.

PAULIK, J.; LESKO, A.; BERNIK, F.

Glucose utilization following intraarterial insulin injection.
Bratislavské lekársky listy 45 (no. 11): 75-79, 15 de 1990.

I. I chirurgická klinika Lekárskej fakulty Univerzity Komenského v
Bratislavě (vedoucí: prof. MUDr. F. Tarsky).

PAULIK, Jiri

Operation management and the locomotive depots. Zel. dop. tech.
12 no. 9:242-243 '64.

1. Operation Engineer, Locomotive Depot Liberec.

PAULIK, Juraj, inz. CSc.; DPLIPNAK, Andrej, RNDr.; KERVA, Milan, inz.

Theoretical and experimental analysis of the methods of automatic direction and position keeping of coal cutter-loaders. Autometizace
7 no.8: 201-203 Apr 1974.

I. Institute of Mining, Czechoslovak Academy of Sciences, Kosice.

PAULIK, Juraj, engineer, candidate of technical sciences

Automation of coal cutter-loaders. Izvestiia Bany KI no.3/4:
107-112 '59/60.

1. Lab.banictva Slovenskej akademie vied, Kosice, Czechoslovakia.

PAULIK, Yury: Master Tech Sci (diss) -- "Magnetic amplifiers in the power supply of the G-T mine-hoist systems". Leningrad, 1959. 77 pp (Min Elektro Elec USSR, Leningrad Order of Lenin and Order of Labor Red Banner Inst in S. V. Plekhanov, Chair of Mine Electrical Engineering), 100 copies (KL, No. 7, 1961, 151)

PAULIK, YURAY, inzh.

Investigating transient phenomena and stability in automatized
hoisting units with G-D system drives. Nauch. dokl. vys. shkoly;
gor. dele no.1:127-134 '59. (MIRA 12:5)

1. Predstavlena kafedroy gornoj elektrotehniki Leningradskogo
gornogo instituta im. G.V. Plekhanova.
(Hoisting machinery--Electric driving)
(Automatic control)

PAULIK, Yuray, inzh.

Magnetic amplifiers in the G-D transmission system for mine hoists.
Nauch. dokl. vys. shkoly: gor. delo no.3:190-197 '58. (MIRA 11:9)

1. Predstavlena kafedroy gornoj elektrotehniki Leningradskogo
gornogo instituta im. G.V. Plekhanova.
(Mine hoisting--Electric driving)
(Magnetic amplifiers)

TOMKO, Jozef, dr. inz., C.Sc.; VOTICKY, Zdeno, dr. inz., C.Sc.; PAULIK,
Vladimir, inz.; VASGOVA, Anna, PhDr.; BAUEROVA, Oldrichka, PhDr.

Alkaloids from *Buxus sempervirens* L. Pt.1. Chem zvesti 18
no.10:721-731 '64.

1. Division of Alkaloids of the Institute of Chemistry of the
Slovak Academy of Sciences, Bratislava, Dubravská cesta.

PAULIN, Alojz, Ing. (Ljubljana)

Pulse generator for magnetron supply. Elektr vest 27 no.9/10:
a-33--a-34, 297-300 S-0 '59. (EEAI 9:10)

1. Institut "Jozef Stefan", Ljubljana.
(Pulse generators) (Magnetrons)

PAULIN, A.

"Microtron."

p. 341 (Electrotehniski Vestnic. Electrotechnical Review) Vol. 25,
no. 9/10 Sept./ Oct. 1957. Ljubljana, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4
April 1958

S/194/62/000/005/042/157
D256/D308

AUTHORS: Paulin, A., and Požar, F.

TITLE: Construction of an X-band microtron

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 5, 1962, abstract 5-3-7a (Elektrotehn. vestn.,
1960, 28, no. 8-10, 17a-19a)

TEXT: A detailed description of the construction of the 3 MeV microtron electron accelerator built in the "Jozef Stefan" institute in Lyubljana (Yugoslavia). The arrangement consists of: The UHF system and its power supply, the magnet and its supply, and the vacuum system. A number of technical problems concerning the design and the alignment are considered. Although high-power travelling wave klystrons are most advantageous in operation, they are approx. 10 to 50 times as expensive as the magnetrons of the same power. A 3 cm 4J50-type X-band magnetron of 240 kW peak output was used. A Q factor exceeding 3000 is required for obtaining an accelerating voltage ranging from 200 to 300 KV in the gap of the resonator. For such a Q factor, a rigorous stabilization of the frequency of the magne-

Card 1/3

Construction of an X-band microtron

S/194/62/000/005/042/157
D256/D308

sealings were made of teflon and rubber. The microtron chamber has a detachable top pole of the magnet. 2 diffusion pumps are employed giving a vacuum down to $(2+3) \times 10^{-5}$ mm Hg. The magnetic field amounted to 1700 Oe in case of 50 mm gap. The current in the magnet winding was 1A at 600 V. 10 references. [Abstractor's note: Complete translation].

OGURTSOVA, G.A.; PAUL'SON, A.A.

Experience in starting water lines in Yakutsk during the winter.

Trudy Sev.-Vost. otd. Inst. merzl. AN SSSR no.1:46-51 '58.
(MIRA 16:12)

PAULUS, Emanuel, ins.

A special case of gas turbine rotor failure. Energetika Cs 12
no.6:309-312 Je '62.

PAULUS, Josef

Two-dimension modeling technique in projects and designs.
Podn org 18 no. 6:258-262 Je '64.

1. State Institute of Designing General Engineering Factories
Projekta, Prague.

PAULUS, Josef

Model technique in the design of machine factories. Pod org 17
no.8:351-357 Ag '63.

1. Statni ustav pro projektovani zavodu vseobecneho strojirenstvi
Projekta, Praha.

L 51089-65 ACCESSION NR: AP5015479	CZ/0031/64/012/012/0886/0891 5 B
AUTHOR: Paulus, Harry	
TITLE: Unified system of project documentation of machines and equipment	
SOURCE: Strojirenska výroba, v. 12, no. 12, 1964, 886-891	
TOPIC TAGS: industrial management, mechanical engineering	
Abstract: Author's Czech summary modified. The author proposes a unified system for designation of the parameters of machinery and equipment in order to provide designer and planners with better basic data than are available in a large variety of catalogs, sets of instructions, etc. Orig. art. has 11 figures.	
ASSOCIATION: SU Projekta, Prague	
SUBMITTED: 00	ENCL: 00
NO REF Sovi. 000	OTHER: 000
JPT3	
<i>AKC</i> Card 1/1	

PAULUS, Josef

Operation records and the filing of machinery and equipment design
data. Podn org 18 no.11:509-513 N '64.

1. Projekta, State Institute for Designing General Engineering
Enterprises, Prague.

PAULJS, Otakar, CSc.

Finished prefabricated elements for construction of houses
and public buildings in Czechoslovakia. Rozstavby 13 no. 1:
63-69 '65.

I. Research Institute of Building Construction, Prague,
Worksite Gottwaldov.

PAULUSZ, Mihaly

Opinion on the VDE 0446/3.63 standard entitled "Regulations for ceramic insulators on heavy current transmission lines and railroad overhead wires." Elektrotechnika 57 no.7:321-323 Jl '64.

PAULUSZ, Mihaly, okl. villamosmernok.

Solutions for the modification of impulse voltage strength
of supporting insulators. Elektrotehnika 52 no.3:104-113
'59.

1. A VILLENIKI tudomanyos munkatarsa.

PALUSSZ. M.

Recently developed pin insulators and bush insulators. p. 487.

ELÉKTROTECHNIKS. (Magyar Elektrotechnikai Egyesület) Budapest, Hungary,
Vol. 51, No. 10/12, 1958.

Monthly list of East European Accessions (EEAI) I.C., Vol. 8, No. 7, July 1959.
Uncla.

PAULUSZ, M.

"Solutions which can be used for the modification of impulse-voltage strength of supporting insulators." p. 104.

ELEKTROTECHNIKA. (Magyar Elektrotechnikai Egyesulet). Budapest, Hungary,
Vol. 52, No. 3, 1959.

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

PAULUSZ, Mihaly, tudomanyos munkatars

New type indoor supporting insulators. Elektrotechnika 53
no.2/3:114-119 '60.

PAULUSZ, Mihaly

Development of high-tension porcelain insulators in the German Democratic Republic. Elektrotechnika 55 no.5:221-228 My '62.

PAULY, Josef

Development of the economical use of wood between the 11th
and 12th Congresses of the Communist Party of Czechoslovakia.
Les cas 10 no. 1:91-110 Ja '64.

1. Statni drevarska inspecka, Praha.

PAULYK, VS

PHASE I BOOK EXPLOITATION

SOV/4658

Akademiya stroitel'stva i arkhitektury SSSR. Institut stroitel'nykh konstruktsiy

Issledovaniya po seysmostoykosti zdaniy i sooruzheniy; sbornik statey (Research
on Earthquake-Resistant Buildings and Constructions; Collection of Articles)
Moscow, Gosstroyizdat, 1960. 246 p. 5,000 copies printed.

Sponsoring Agency: Akademiya stroitel'stva i arkhitektury SSSR. Tsentral'nyy
nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy (TsNIISK).

Eds.: I.I. Gol'denblat, Doctor of Technical Sciences, Professor; I.L. Korchinskiy,
Doctor of Technical Sciences, Professor; and V.A. Bykovskiy, Candidate of Tech-
nical Sciences; Scientific Ed.: L.Ye. Temkin, Engineer; Ed. of Publishing House:
I.S. Borodina; Tech. Ed.: L.M. Osenko.

PURPOSE: This collection of articles is intended for design and construction engi-
neers, scientific workers, and aspirants.

COVERAGE: The book contains articles on experimental and theoretical investigations
of the earthquake stability of buildings and structures carried out at the Central
Scientific Research Institute of Structural Parts of the Academy of Building and
Card 1/7

Research on Earthquake-Resistant Buildings (Cont.)

SOV/4658

Architecture USSR. The foreign and Soviet norms in force for calculating seismic effects in the design and construction of buildings and structural parts are compared, and also problems in the seismic zoning of the USSR are examined. One article describes an investigation of the strength of steel subjected to several recurrent loadings and of the dynamic behavior of building models. Problems in the determination of the free oscillations of buildings and in the distribution of horizontal seismic loads between the cross walls of buildings are also discussed. The projected "Instructions for Determining the Computed Seismic Loads for Buildings and Structures" based on the current "Norms and Rules for Construction in Seismic Regions" (SN 8-57) are given. No personalities are mentioned. References accompany individual articles.

TABLE OF CONTENTS:

3

Preface

Korchinskiy, I.L. [Professor, Doctor of Technical Sciences]. Comparison of Design Norms in Force in the USSR and in Other Countries for Calculating Seismic Effects

5

Card 2/7

SOV/137-57-11-21893

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 173 (USSR)

AUTHORS: Paulyuchenka, M. M., Targonskaya, T. I.

TITLE: Surface Saturation of Steel and Cast Iron With Sulfur and Nitrogen
(Poverkhnostnoye nasayshcheniye stali chuguna seroy i azotom) in
Belorussian

PERIODICAL: Izv. AN BSSR. Ser. fiz.-tekhn. n., 1956, Nr 4, pp 91-98

ABSTRACT: A description of equipment, techniques, and results of an investigation dealing with surface saturation of cast-iron specimens and specimens of steels 45, 45Kh, 40Kh, 20, 15KP with S or with S and N. The effect of temperature, duration of the process, and rate of H₂S supply on the content of S in the surface layer was investigated, together with wear-resistant properties of the specimens. It was established that in the process of gas saturation of gray cast iron at a temperature of 260-440°C for a period of 3 hours, the S penetrates into the metal to a depth of more than 0.2 mm. The quantity of S at a depth of 0.15-0.2 mm increased by 61% at 260° and by 162% at 440°. When 0.1-mm plates of 15KP steel were saturated with S at 280° for a period of two

Card 1/2

SOV/137 57 11 21893

Surface Saturation of Steel and Cast Iron With Sulfur and Nitrogen

hours, the S content increased from 0.03% to 0.24% and, at 475°m reached a value of 2.08%, i.e., an increase of 69 times. After three hours of sulfidizing at a temperature of 250-400°, specimens of steels 20 and 45Kh were subjected to three hours of nitriding at 600°, the NH₃ being supplied at a rate of 8.46 cc min. During nitriding of specimens which have been previously subjected to sulfidizing the degree of dissociation of the NH₃ is reduced by 75-85 percent and the amount of nitrogen absorbed is reduced to 1/2 - 1/3 of the quantity used up during nitriding of standard specimens. Abrasion tests have demonstrated that sulfidizing increases the wear resistance of steel and cast iron from 2 to 5 times; however, no difference in wear resistance was observed when untreated and sulfidized specimens were subjected to heavy loads during protracted testing. Nitriding of sulfidized specimens increased their wear resistance by as much as 20-25 times; however, no seizing occurred throughout the entire testing period

M Sh

Card 2/2

Pedescu - PEDEANU A
EXCERPTA MEDICA Sec 6/Vol 13/6 Internal Medicine June 59

3229. ALLERGIC POLYARTHRITIS OF THE RHEUMATIC TYPE WITH A PROLONGED COURSE AND RECURRENT OUTBURSTS (SO-CALLED PURELY ALLERGIC RHEUMATISM OF THE KAHLMETER TYPE) - Poliartrita alergică de tip reumatismal, cu evoluție prelungită și puseuri recidivante (șumnitul reumatism alergic pur tip Kahlmeter) - Păunescu - Pedeanu A.

MED. INTERNA (București) 1958, 10/2 (277-283)

On the basis of data from the literature and personal experience (6 cases), allergic arthropathies with various clinical pictures but developing on an allergic soil and linked up with different allergens are classed among rheumatismal diseases. Allergic rheumatism has the form of an acute or chronic polyarthropathy with acute outbreaks; neuralgias and allergic myalgias are also known. Allergic rheumatism should be differentiated from other forms of rheumatism, because it behaves in a different manner from the therapeutic point of view, responding only to anti-allergic medication.

Nicolaeșco - Bucharest (VI, 19)