

28

CA

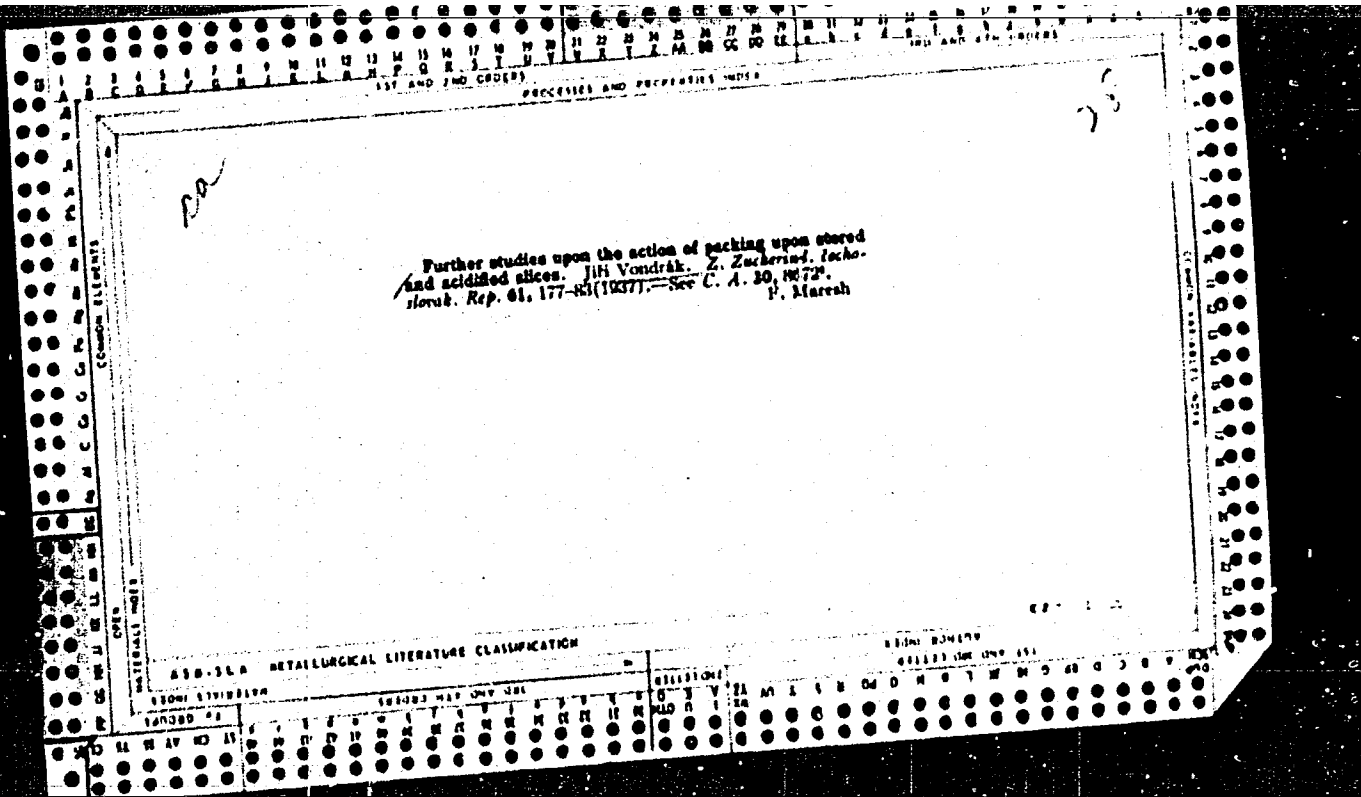
A third supplement to the fourth publication of Directions for Conducting Chemical Analyses in Sugar Establishments According to Standard Methods. JIH Vondrák. *Listy Cukrovar. 36, 42-3(1977); Z. Zuckerind. Tschoslovak. 11p. 62, 54-5.*—The 12 modifications of procedures approved by a commission of experts are given in their new forms. Frank Mareš

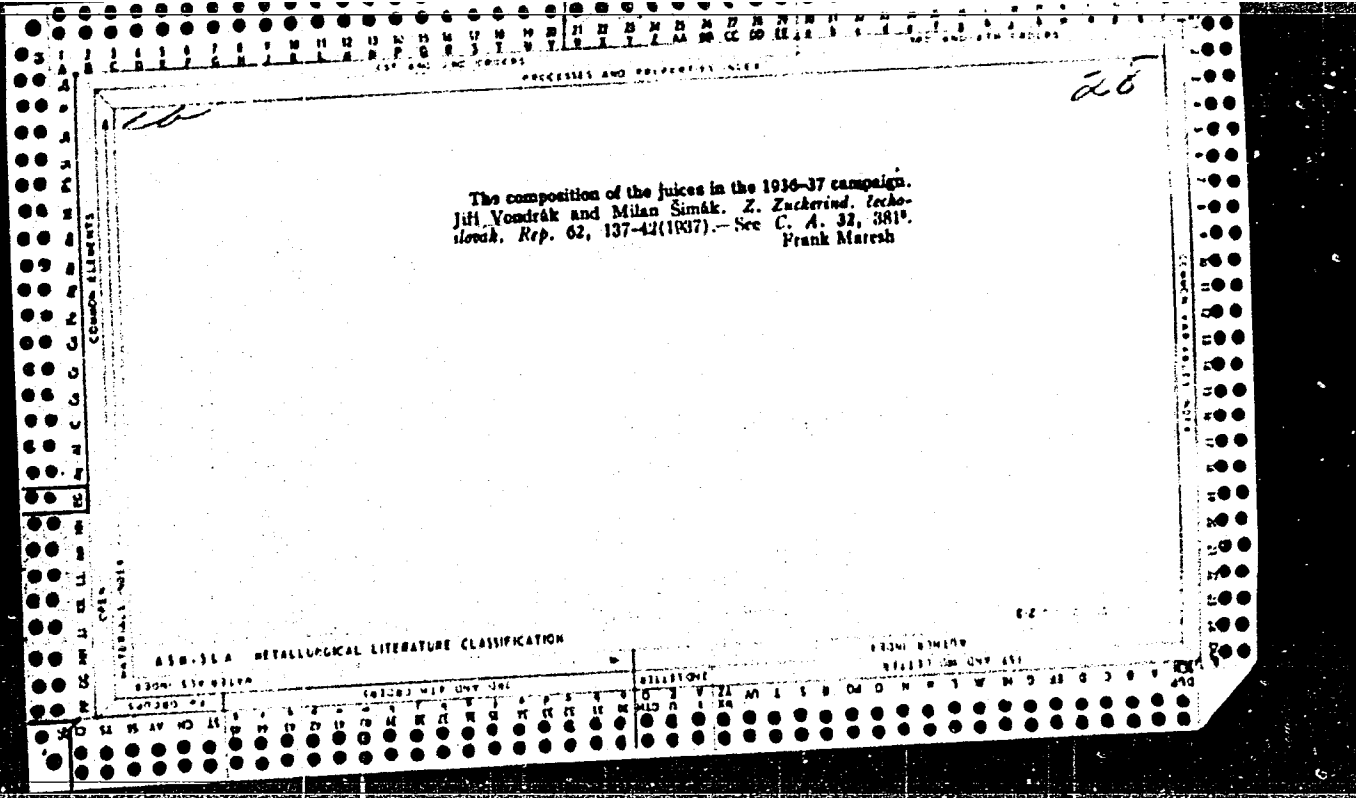
METALLURGICAL LITERATURE CLASSIFICATION

FROM STEEL

CELLULOSE

STAIN





28

CA

The influence of temperature upon the storage of extracted slices in pits. Jil Vondrak. Lisy Cabrar. 36, 13-18(1937).--A fraction of a batch of vital beet slices was packed in brick-lined pits in the customary manner at a temp. of 10° and was used as a control; the remainder of the batch was heated to 50°, was transported at 40°, and was packed into brick-lined pits at 30-37°. After 5.5 months of storage the control batch of slices showed an 18% loss in vol., a 17.2% loss in wt., a 26% loss in pulp, a pH of 4.2, a 19.1% loss in total N, and a white granular appearance, but the warmed batch showed a 44% loss in appearance, a 38.7% loss in wt., a 46% loss in pulp, a pH of 4.0, vol, a 13.7% loss in total N, and a yellow, slimy appearance with liquids draining from the interspaces. Other pits with liquids draining from the interspaces. Other pits opened after 7 months of storage showed an addnl. increase in the analytical differences between the controls and the warmed slices. At another place the packing of warmed slices at 30-37° and of control slices at 10° gave similar results (unfavorable to the warmed slices). At a third place these observations were reversed: after 4 and 0.5 months of packing the warmed slices (deposited at 30-35°) and the control slices (packed at 10°) showed similar changes but with the slightly greater changes occurring in the control batches of slices. V. concludes that many biol. changes may occur during the storage of slices, that the changes which may predominate during the months of packing depend upon local conditions (character of pits, Bora, etc.) and that the effects of a special treatment (before packing) with definite results in mind will be lost under the influence of the predominating local conditions.

Frank Maresh

ASS-51A METALLURGICAL LITERATURE CLASSIFICATION

GROUP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
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VONDRAKOVA, I.
ELEFANT, E.; HEJEDLA, Z.; VONDRAKOVA, I.

Organization of wards for newborn; care of premature. Pediat.
11.sty 6 no.3:182-184. May-June 1951. (CIML 20:11)

1. Of the Institute of Care for Mother and Child in Prague-
Podole (Director — Prof. J. Trapl), Head of the Pediatric
Division Docent K. Kubat, M.D.

VONDRAKOV J

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VONDRAČKOVÁ, JITKA

Preparing sparingly soluble salts of ninotetraacetylene with
amines. Most basic is nitroacetylene. Nitroacetylene and Jitka
Vondračková. Czech. J. Chem. 1964, 10, 1000-1002.
Strongly acidic nitroacetylene reacts with amines to form
tetraacetylene. This shows that the reaction of nitroacetylene
with amines is reversible. The reaction of nitroacetylene with
amines is reversible. After the reaction of nitroacetylene with
NaOH the ppt. is filtered and prepared for the subsequent
conversion to a soluble salt of the tetraacetylene.

L 29478-66 SGTB DD

ACC NR: AP6019953

SOURCE CODE: 02/0079/65/007/003/0236/0238

AUTHOR: Vondrakova, M.

ORG: Department of General Hygiene and Communal Hygiene, Medical Faculty of Hygiene
Charles University, Prague (Katedra hygieny obecne a kommunalni lek. fak. hygienicke
KU)

TITLE: Changes in the serum level of free fatty acids in rats repeatedly exposed
to noise

SOURCE: *Activitas nervosa superior*, v. 7, no. 3, 1965, 236-238

TOPIC TAGS: rat, acoustic biologic effect, serum, biochemistry

ABSTRACT: Changes in the content of free fatty acids in the serum of the rats indi-
cate that repeated noise influences their level. The level of the acids increases
substantially after extended exposure to noise. No differences in the influence of
noise were due to the age of the rats when first exposed to the noise. Orig. art.
has: 2 tables. [SPRS]

SUB CODE: 06/ SUBM DATE: 06Feb65

Card 1/1 *EV*

BABUREK, Jiri; VONDRAKOVA, Milena, inz.

Comparison of properties of paper clays. Papir a celuloza 19
no. 7:195-197 JI '64.

1. Institute of Plain Pottery Technology and Ceramic Material
Dressing, Karlovy Vary (for Baburek). 2. Research Institute of
Paper and Cellulose, Prague.

BABUREK, Jiri; VONDRAKOVA, Milena

Examination of monodisperse fractions of Sedlec kaolin with the electron microscope. Silikaty 7 no.4:284-293 '63.

1. Ustav technologie hrube keramiky a upravnictvi keramickych surovin, Karlovy Vary; Vyzkumny ustav papiru a celulosy, Praha.

Z/009/61/000/012/001/005
E112/E953

AUTHORS: Zahradník, Lubomír, Formánek Zdeněk, Šťovík
Miroslav, Tyroler Jiří and Vondráková Zdena

TITLE: Recovery of germanium dioxide from flue dusts
Chemický průmysl, no.12, 1961, 625-629

PERIODICAL: The only domestic sources of germanium in Czecho-
slovakia are the flue dusts from certain coals (germanium contents
range from 0.2 to 0.8%) and the present paper discusses three
possible methods of recovery via germanium dioxide: 1) Extraction
with water or inorganic solvents, such as H₂SO₄, HCl, HNO₃, NaOH
and (NH₄)₂Sx. Best results are achieved with 0.05 N-H₂SO₄,
yielding up to 97% of the available germanium. Extraction
efficiency is closely connected with the physical characteristics
of the flue dusts, good recoveries being obtainable only with flue
dusts of very fine particle size. Furthermore, only germanium
available in soluble form will respond to the method. 2) Chlorin-
ation of flue dusts. This process can be operated either at lower
temperatures, in presence of steam, or at high temperatures, in
presence, of air. Compared to the distillation method with HCl,
Card 1/54 ✓

Recovery of germanium ...

Z/009/61/000/012/001/005
E112/E953

yields of germanium are inferior and the recovered products less pure. A further rectification is therefore necessary. The chlorination method, on the other hand, offers the advantage that even very low-content flue dusts can be processed. 3) Direct distillation with HCl. This method is considered the simplest from the technological point of view. It is only suitable for raw materials, containing germanium in a volatilisable form and is not economical for flue-dusts with low germanium content. The method consists of treating the flue dust with HCl, and procedures for the separation of the formed GeCl_4 are described in detail. So far, this has been effected in two ways: a) Absorption of the gaseous mixture in water, containing 20% HCl. A recovery of 2-13 g germanium per 1 litre is feasible but this is considered unsatisfactory. b) separation of germanium tetrachloride by condensation. However, considerable amounts of GeCl_4 are entrained by HCl, and the method is, therefore, rejected as uneconomical. The authors now offer a new procedure for GeCl_4 absorption, based on the use of non-polar solvents, of which carbon tetrachloride has proved the most suitable. The efficiency of a 0.2% GeCl_4 solution in CCl_4

✓

Card 2/54

Recovery of germanium ...

Z/009/61/000/012/001/005
E112/E953

is given as 97-99.5% at 20°C. As practical processing would require large volumes of CCl_4 (1500 kg/kg Ge) a two-step absorption process is suggested. A diagram of a laboratory arrangement for the continuous recovery of germanium tetrachloride by the carbon tetrachloride method is shown (Fig.6). The apparatus operates under slight vacuum and has a capacity of 30 kg flue dust per day. The solution of GeCl_4 in CCl_4 is preliminarily refined by extraction with concentrated hydrochloric acid, containing 10% nitric acid. Hydrolysis of GeCl_4 is carried out in the usual way. The experience gained in laboratory trials led to the construction of a semi-technical batch-wise unit, which in two months produced 10 kg germanium dioxide from 1000 kg flue dust. There are 5 tables, 5 figures and 5 references: 2 Soviet-bloc and 3 non-Soviet bloc. The English-language references read as follows: Ref.1: Journal of Metals, 979(1953); Ref.2: Johnson O.H., Chemical Reviews, vol.51, 432 (1952); Ref.5: Aubrey K.V., Nature, vol.176, 2 (1955). ✓

ASSOCIATION: Ústav nerostných surovin, Praha
(Institute for Mineral Raw Materials, Prague)

Card 3/84

Recovery of germanium ...

Z/009/61/000/012/001/005
E112/E953

SUBMITTED: January 16, 1961

Fig.6. Legend.

- 1 - mixing vessel, with stirrer, for absorption of flue dust in hydrochloric acid,
- 3,4 - steam-heated boiling tubes,
- 5 - separator,
- 6 - condenser,
- 7 - absorption vessel,
- 8 - absorption column with Raschig rings,
- 10 - separating funnel with CCl_4 ,
- 9 - condenser, cooled to 0°C ,
- 11 - reservoir, to which a slight vacuum is applied.

Card 4/54

VONDRAKOVA, Zdena, inz.; ZAHRADNIK, Lubomir, dr., inz., laureat statni
ceny; STOVIK, Miroslav, inz., laureat statni ceny

Gallium and its raw materials in Czechoslovakia. Geol pruzkum
5 no.5:142-143 My '63.

1. Ustav nerostnych surovin, Kutna Hora, pracoviste v Praze.

23568

18.3100

only 1087

Z/009/61/000/007/001/004
E112/E135

AUTHORS: Zahradník, Lubomír, Formánek, Zdeněk, Šťovík, Miroslav, Tyroler, Jiří, and Vondráková, Zdena

TITLE: Properties of furnace flue dusts and their use for the recovery of germanium

PERIODICAL: Chemický průmysl, 1961, No.7, pp. 337-341

TEXT: Coal which is rich in germanium was ashed in a reducing atmosphere and coarser fractions were separated by means of cyclones. Flue dust of finer particle size was recovered by electrostatic separation and this contained up to 1% germanium. Industrial recovery of germanium was considered feasible and therefore laboratory methods for its extraction and the nature of the bond between germanium and the flue dust particles were studied. The flue dust was separated into different fractions according to particle size and the relationship between germanium concentration and particle size was investigated. Germanium contents decreased as the particle size increased and, consequently, main attention was paid to flue dust smaller than 60 μ (0.12% Ge). During the ashing of coal a number of elements are volatilized and absorbed
Card 1/4

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E112/E135

Properties of furnace flue dusts and their use for the recovery of germanium

from the gaseous phase by the flue dust particles. The sorption process was studied by determining the concentrations of the various elements in the original coal and the flue dust. Spectroscopic methods of analysis were used and results are tabulated. On the average, the flue dusts contained between 27 and 33% combustible materials. Their concentration decreased on extraction with 0,2 N-H₂SO₄, indicating that they did not consist entirely of carbon. Results for three types of flue dust are tabulated, showing the following: 1) loss of weight of flue dust on calcination; 2) loss of weight of flue dust on calcination, after extraction with H₂SO₄; and 3) loss of weight of flue dust on extraction with H₂SO₄. Results of spectrographic analyses of flue dusts, H₂SO₄-extracts and extraction residues are submitted, listing all elements occurring in the three different fractions in the following concentrations: 1) higher than 1%; 2) 1.0-0.1%; 3) 0.1-0.01%; and 4) lower than 0.01%. The following values are tabulated for germanium: original sample of flue dust, 1 - 0.1%;
Card 2/4

23568

Z/009/61/000/007/001/004
E112/E135

Properties of furnace flue dusts and their use for the recovery of germanium

H₂SO₄-extract, 1 - 0.1%; ashing residue of H₂SO₄-extract, 0.1 - 0.01%. Extraction methods for germanium from flue dusts, using water, acids, and alkalis, are described. Water extraction recovered about 50% of the available germanium. Extractability with H₂SO₄ was inversely proportional to the concentration of the latter, (20 N-H₂SO₄ extracted 64.5% Ge, while 0.05 N-H₂SO₄ gave 96.7% recovery). On the other hand, extractability with HCl increases with increased concentration. Recovery of Ge by means of HNO₃ was not feasible. The separation of Ge by means of HCl from the coarser fly ashes is also described. An addition of HF (in the form of CaF₂) is recommended to convert the SiO₂ to SiF₄, which is driven off by heating. Extraction with weakly alkaline solutions was somewhat inferior to processing with dilute acids. In order to obtain additional information about the isolation of germanium from flue dusts, the volatility of germanium dioxide at different temperatures was studied and results are tabulated. It was found that up to 400 °C germanium was not volatile and was

Card 3/4

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E112/E135

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Properties of furnace flue dusts

assumed to be present as GeO_2 , easily soluble in alkalies. On the other hand, samples of flue dust, heated under identical conditions, showed poor extractability of Ge by means of dilute sulfuric acid. This is explained by the poor solubility of GeO_2 in H_2SO_4 . It is concluded from laboratory experiments that flue dusts containing 0.3-1.0% Ge present a suitable raw-material for a Czechoslovak germanium recovery industry. Extraction with dilute sulfuric acid or treatment with HCl and distillation as GeCl_4 , optionally in a stream of HCl, are suggested. The described laboratory methods were utilized for industrial scale production, details of which are to be published later.

There are 7 figures, 12 tables and 12 references: 3 Czech, 7 English and 2 German.

ASSOCIATION: Ústav nerostných surovin, Praha
(Institute for Mineral Raw-Materials, Prague)

SUBMITTED: January 16, 1961

Card 4/4

S/081/62/000/019/019/053
B144/B180

AUTHORS: Stovik, Miroslav, Zahradnik, Lubomir, Tyroler, Jiri, Vondra-
kova, Zdena, Formanek, Zdenek

TITLE: Production of concentrates of germanium and other trace ele-
ments by burning coal in furnace grates

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1962, 340, abstract
19K82 (Czechoslovakian patent 99414, April 15, 1961)

TEXT: When coal is burned in furnaces, almost all the Ge is carried away
with the finer fractions in the form of volatile compounds. For more com-
plete removal it is suggested that the coal should be burnt in a reducing
atmosphere. To this end the entry of primary air from below is restricted to
a minimum and that of secondary air above the grate is increased. The amount
of Ge compounds adsorbed in the thin fractions then rises to 80% the Ge con-
tent of the coal. The combustion gases are led through a cyclone, where
the largest particles are separated, and then through an electrostatic fil-
ter and a second cyclone. Alternatively, after separating the large par-
ticles, the gas is passed through a scrubber, (with either mineral or sili-
Card 1/2

Production of concentrates ...

3/081/62/000/019/019/053
B144/B180

cone oil), and then conducted through a hydrocyclone and a centrifuge, where the thin fraction is separated. The wash liquid is continuously recycled. Additions of 2-3% by weight sulfur (pyrite) to the coal promote the formation of volatile Ge compounds (GeS , GeS_2). Diagrams of the process are shown. [Abstracter's note: Complete translation.]

Card 2/2

ZAHRADNIK, Lubomir; FORMANEK, Zdenek; STOVIK, Miroslav; TYROLER, Jiri;
VONDRAKVA, Zdena

Refinement of germanium dioxide. Chem prum 12 no.2:60-63 F '62.

1. Ustav nerostnych surovin, Praha.

TEST AND 2ND PROOF ANALYTICAL AND PROPERTIES INDEX TEST AND 2ND PROOF

Common Element

28

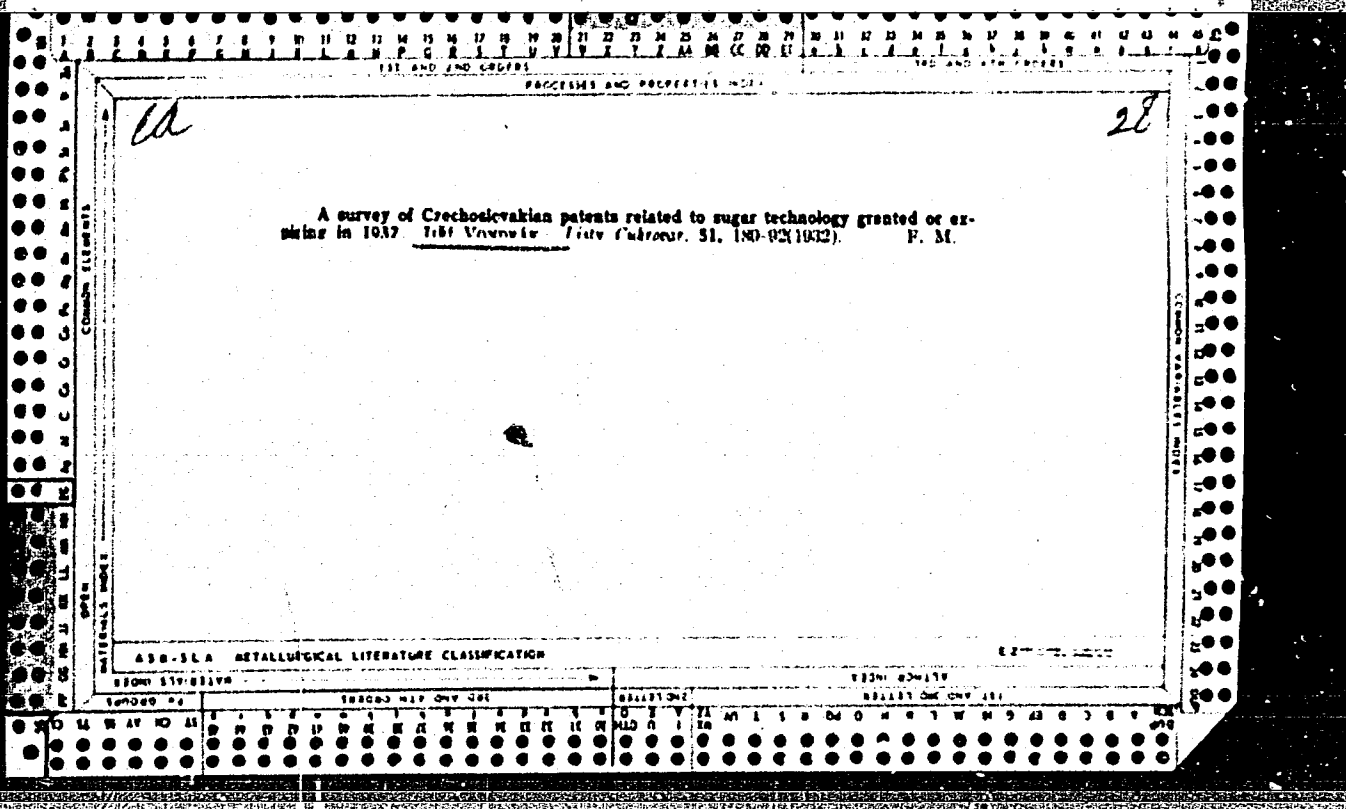
A supplement to the directions for carrying out chemical analyses in sugar mills according to standardized methods. Jiri VONDAK. *Z. Zuckerind. Czechoslovak. Rep.* 57, 39-40(1932); *Listy Cukrovar. Sl.* 28, 47, 77, 814. For detg. the optimum alk. of the last satn., 25 cc. of a hot unfiltered juice is treated with 5 drops of a 0.01% phenolphthalein and CaCl₂ soln. (15 g. per 100 cc.) and after shaking well the color is observed after 12-15 min. At a correct alk. the color should be a dirty pink; a high alk. produces a dark red color, a low alk. leaves the soln. colorless. Larger addns. of CaCl₂ and a replacement by BaCl₂ are recommended. Other proposed changes in analyses are discussed. FRANK MARRIN

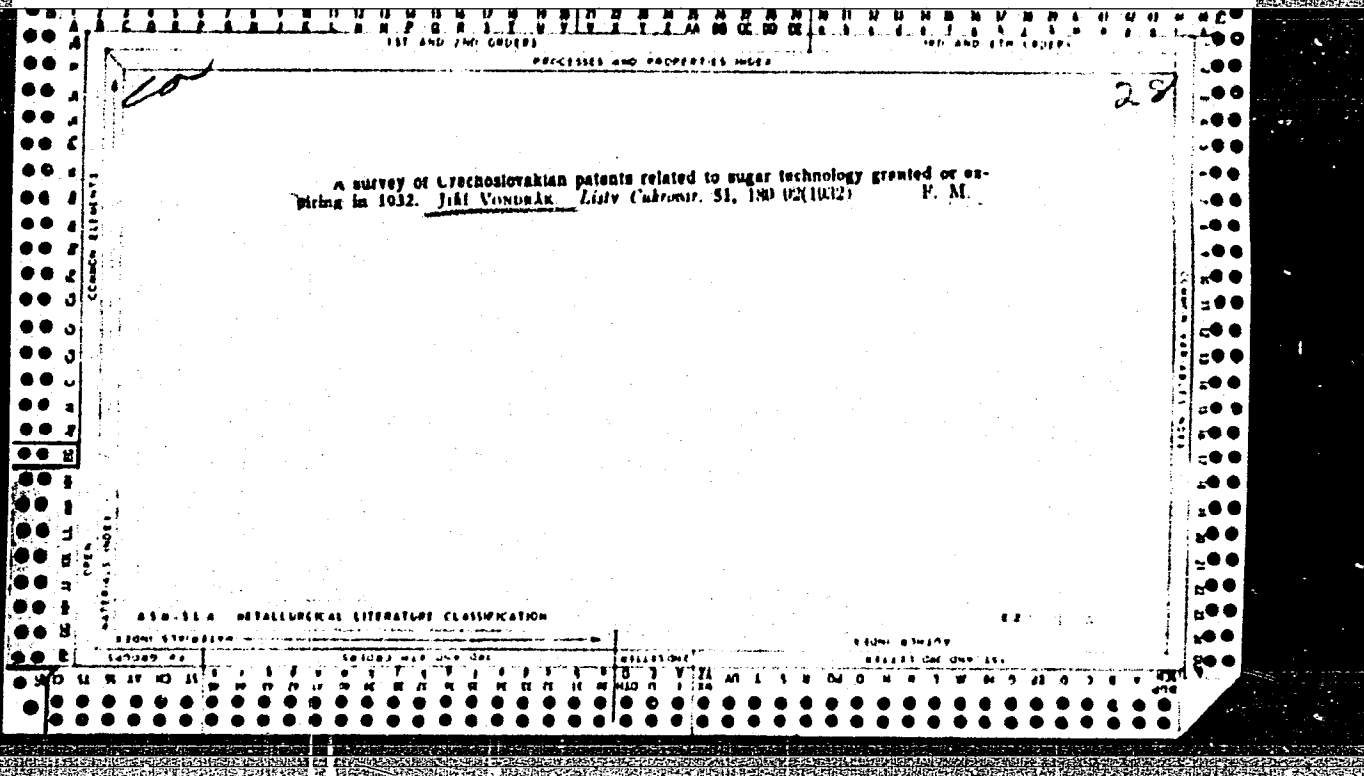
AS 0-51A METALLURGICAL LITERATURE CLASSIFICATION

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Common Variable

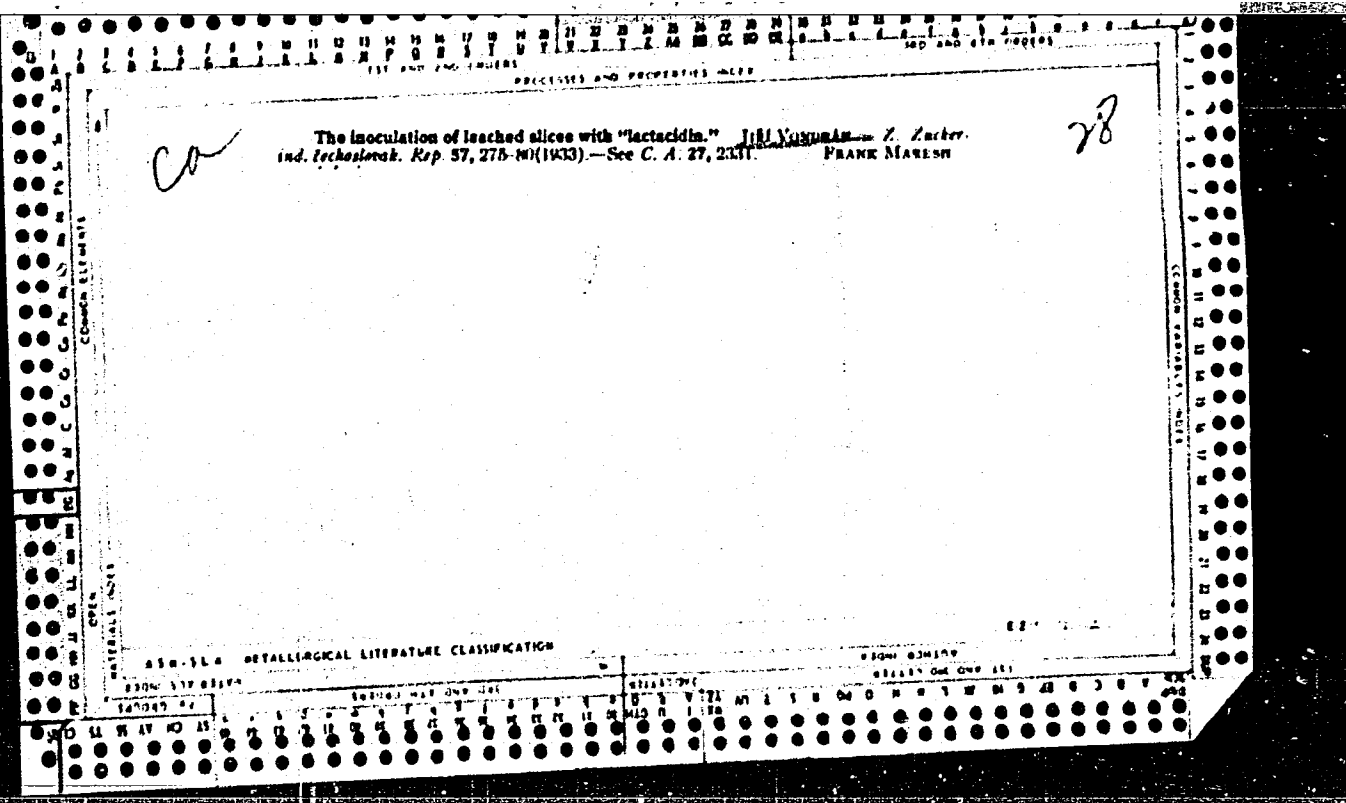




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A supplement to the directions for carrying out chemical analyses in sugar mills according to standardized methods. *Jahrbuch Zuckerind. Pechelersdorf* Rep. 57, 39-40 (1932); *Listy Cukrovar* 31, 28, cl. l. 26, 014. For detg. the optimum alkyl. of the last satn., 25 cc. of a hot unfiltered juice is treated with 5 drops of a 0.01% phenolphthalein and CaCl_2 soln. (15 g per 100 cc.) and after shaking well the color is observed after 0.2-0.5 min. At a correct alkyl., the color should be a dirty pink; a high alkyl. produces a dark red color, a low alkyl. leaves the soln. colorless. Larger additions of CaCl_2 and a replacement by BaCl_2 are recommended. Other proposed changes in analyses are discussed. FRANK MARSH

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION



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Studies in diffusion: Jihl Vondrak. *Listy Cukrovar* 51, 185-9. *Z. Zuckerind Czechoslovak. Rep.* 57, 301 (1954). Beet slices (200 g) were placed in diffusion cells of a 16-unit battery. The slices were rinsed with dist. H₂O, diffused with cold H₂O and finally diffused with H₂O at 80°. The rinse H₂O contained 9.0% of the sugar, the cold diffusion 29.5%, the hot diffusion 59.1% and the residual slices 1.8%. On a basis of 100 g. of slice the rinse H₂O contained 0.653 g. total N, 0.193 albumin N, 0.054 ammonia N, 0.139 amide N, 0.119 betaine N, 0.327 P₂O₅, 2.7 sulfate ash, 7.7 org. nonsugars and a quotient of 90.0. The cold diffusion soln. showed 0.634 g. total N, 0.190 albumin N, 0.020 N in NH₃, 0.124 amide N, 0.119 betaine N, 0.277 P₂O₅, 2.5 sulfate ash, 7.0 org. nonsugars and a quotient of 91.3. The warm diffusion soln. contained 0.472 g. total N, 0.051 albumin N, 0.015 N as NH₃, 0.142 amide N, 0.112 betaine N, 0.358 P₂O₅, 2.3 sulfate ash, 6.7 org. nonsugars and a quotient of 91.7. The first soln. contained the most ash, total N, NH₃, and NH₄. About 4 times as much albumin was found in the cold as in the hot diffusion soln. The no. of opened or injured cells on the profile of a slice based on chem. analyses was in the range of 34-41% of the total, a value higher than that obtained by estg. the cells on the cut surface from the cellular dimensions. During diffusion about 33% of the beet juice is obtained by rinsing the contents of injured cells and 66% by a dialysis through the cellular membrane. The purifying influence of diffusion through cell walls has been found comparatively small; the changes in the quotient were very small between the diffused and rinsed juice.

FRANK MARRSH

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES WATERS

28

A report on the results of a detailed analysis of discharge sugar-mill waters. [181]
 Yonpraf. *Listy Chikrova*. 51, 291-302(1933).—Discharge water from the settling tank
 of a sugar mill, outlet of a mixed factory during the raw-sugar digestion, discharge from
 the presses, washing mills, etc., were evapd. to dryness in 100-400 kg. lots. The dry
 residue contained sugar 25.5-50.3, ash 11.3-41.5, org. nonsugars 25.35-37.85 and total N
 0.457-1.213%. The distribution of the total N was: albumins 5-55, NH₃ 1-5, amides
 7-20, amino acids 5-30 and betaine 6-26%. The amino acids may have formed from
 amides during the evapn. For a comparison the analyses of diffusion liquors, molasses,
 pressed beet juices and wash waters in the factory at the time the discharge water was
 collected are given in detail. The distribution of the individual forms of N correspond-
 closely to that of a diffusion juice which has been greatly diluted. The methods used
 for purifying juices are being tried on the discharge waters. FRANK MARSH

METALLURGICAL LITERATURE CLASSIFICATION

62-1111

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100 AND 104 CODES

PROCESSES AND PROPERTIES INDEX

78

A table for determining invert sugar in the presence of sucrose by using Fehling solution and glass beads. Jiffi, Ondrák and Mladá Černá. *Listv Cukrovár.* 32, 133 (1933); cf. C. A. 27, 6278.—The Herzfeld method for detg. invert sugar in the presence of sucrose leads to results which vary with the degree of superheating. A temporary modification and tables are presented to be used until an internationally recognized method is adopted. The method calls for an admn. of 5 glass beads with a roughened surface to reduce superheating. Also in *Z. Zuckerind. technol.* Rep. 58, 300-6 (1934). F. M.

COMM. ELEMENT

OPEN

NATIONAL MOST

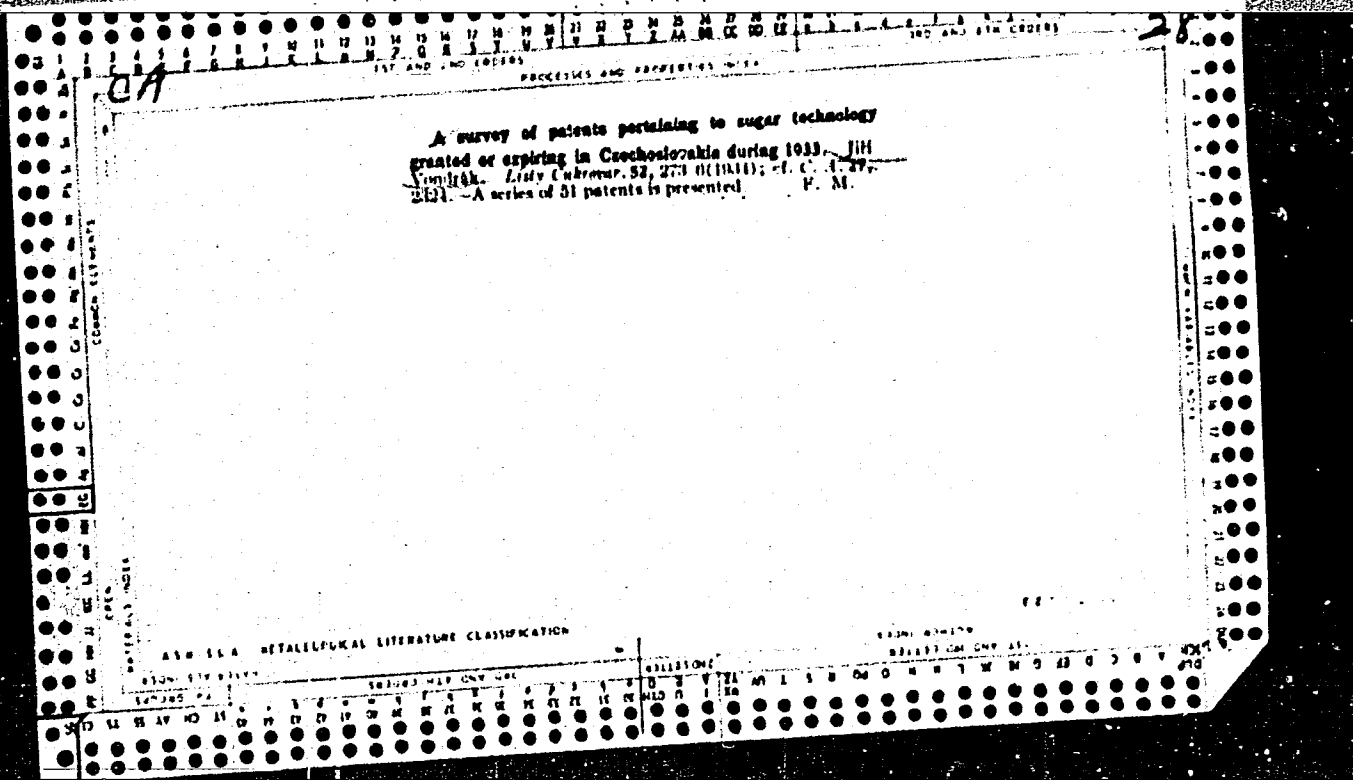
ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

REF. LIST

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COMM. VARIANTS INDEX



PROCESSED AND REPRODUCED FROM THE ORIGINAL SOURCE

28

A survey of the course of the 1932-33 campaign in Czechoslovakia. Jiri Vondrák.
 Z. Zuckerind. *Techoslovak. Rep.* 57, 351-6, 357-61(1933).—See C. A. 47, 3842.
 Frank Mareš

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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The significance of the detrimental space in diffusion.
 II. Applied findings. J. J. Vondrak and Hermis Pokorny.
 Listy Cukrovar. 53, 117-21, 125-8 (1934); Z. Zuckerind.
 Technol. Rep. 54, 241-5, 249-53, 257 (1935) &
 (1936). - Theoretical computations indicated that the
 detrimental space in the diffusion cells is extremely
 blamed for exerting an unfavorable influence upon the
 concn. of beet juices. Exptl. studies carried out in the
 Exptl. Institute and in sugar mills showed that with dead
 spaces of various shapes and sizes making up 10-45% of
 the chamber vol. the juices leaving the cells were of a
 normal concn. These observations led to an increase in
 the size of the armature which up to the present has been
 made as small as possible. The resistance in the armature
 of diffusion batteries is the chief factor which governs
 the speed with which juices flow in diffusion, and the pre-
 vent small dimensions of the armature do not allow for an
 increase in the speed of juice flow. Cells with large
 armatures are described which are to be tried on large
 runs in the next season. Frank Marsh

ASD-56A METALLURGICAL LITERATURE CLASSIFICATION

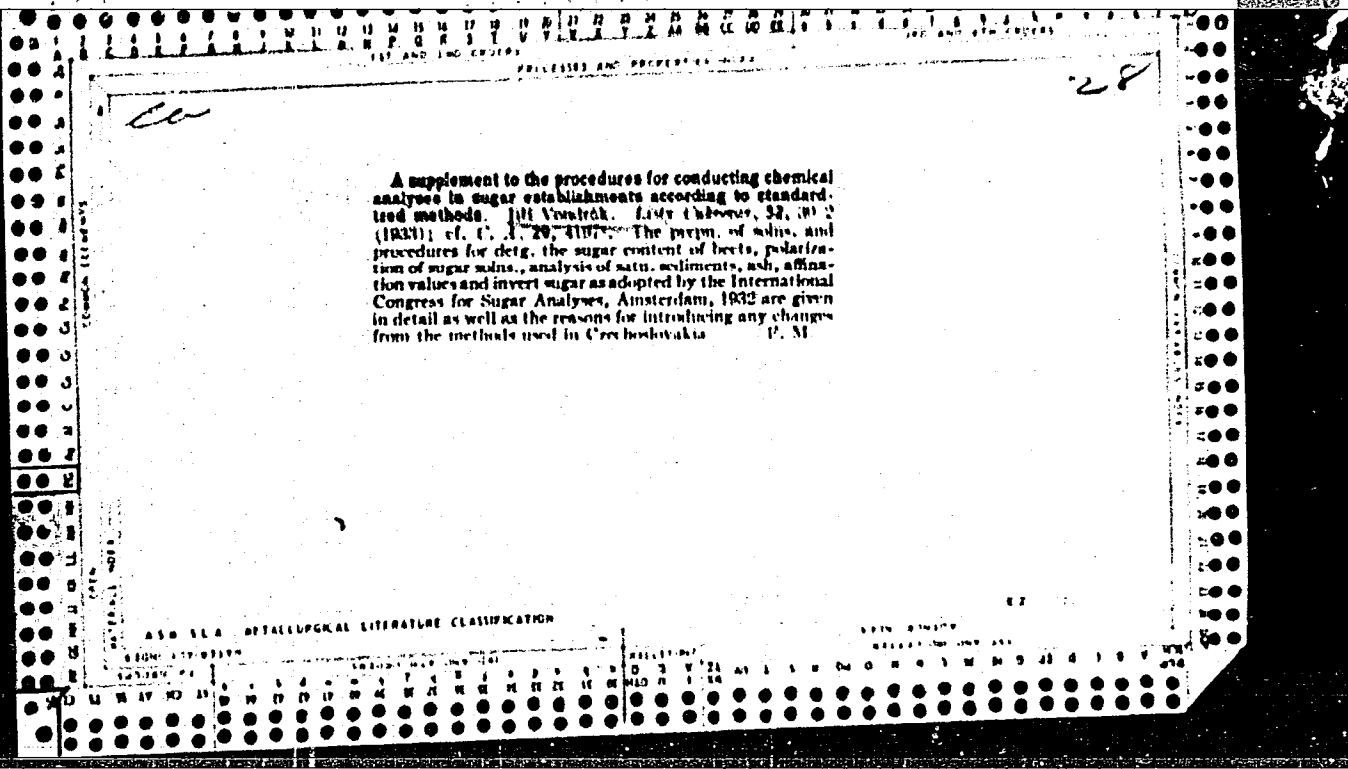
FROM NEW SERIES

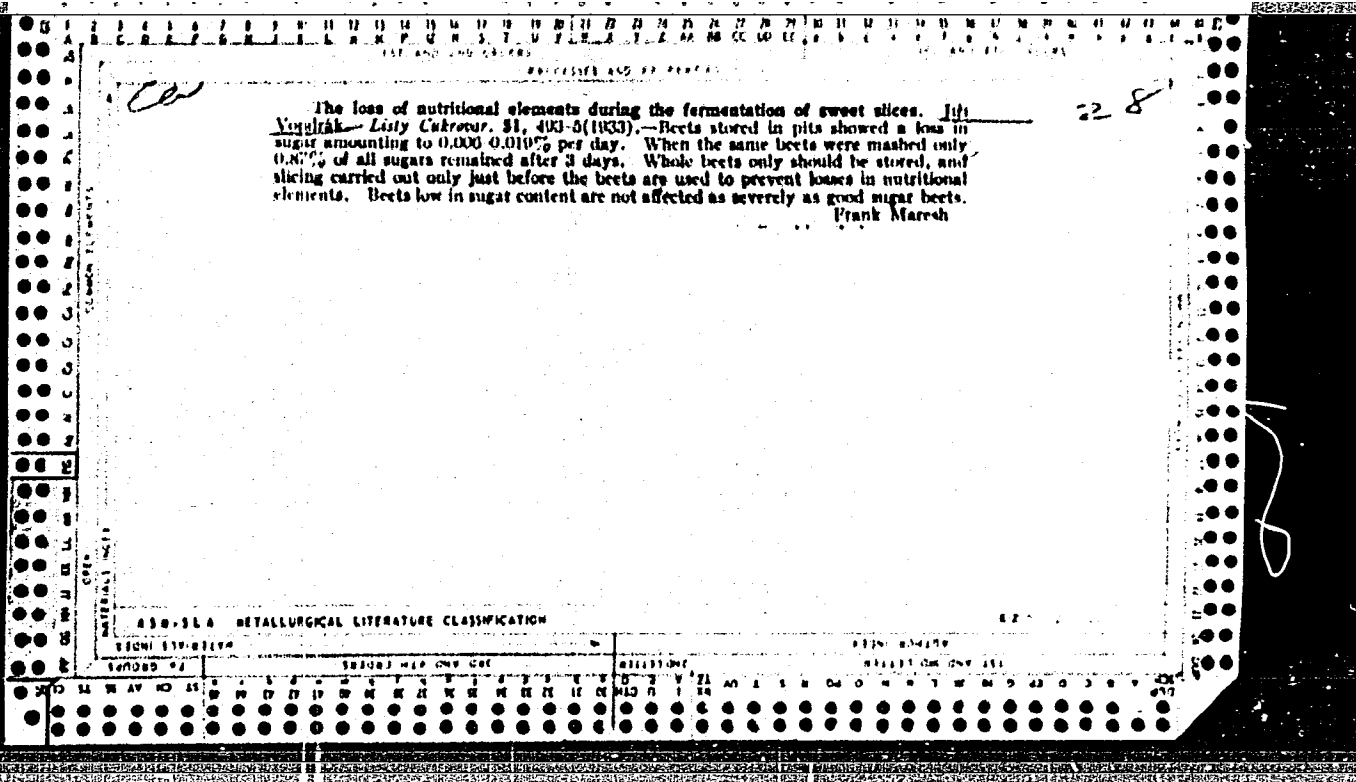
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1ST AND 2ND CODES PROCESSES AND PROPERTIES

28

CA

Supplements to and changes of the methods of chemical analyses in the sugar industry according to standard methods. J. H. Vondrák. *Lisy (sugar)*, 53, 224; *Z. Zuckerind. Technol.*, Rep. 59, 30-9(1934).—The commission adopted the Ofner direct unmodified iodo-metric titration method for detg. invert sugar in sugars. Frank Marsh

ASB-35A METALLURGICAL LITERATURE CLASSIFICATION

1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

100 AND 4TH ORDERS

18

The international consideration of the question concerning sugar purification. *Jiří Vomáček. Z. Zuckerind. Cechoslovak Rep. 59, 183-177(1977).* Frank Marsh

ASMETAL DETALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

28

The first supplement to the fourth edition of the directions for conducting chemical analyses in sugar establishments according to standard methods. Jifi Vavřík. *Lesný Účtovník*, 84, 31 (1961A); *Z. Luchterhnd, Průmyslová Rep.* 60, 46 B. The revisions of the expert commission are included in the specifications for sampling beets in the field, for identifying sugar beets from other beets; for detg. the ash in raw sugars from the elec. cond., for sampling molasses, for detg. invert sugar according to the direct and unmodified Other method, for detg. the detrimental amino N according to the Staněk-Pavlas colorimetric method and for estg. the foam in molasses.

Frank Mareš

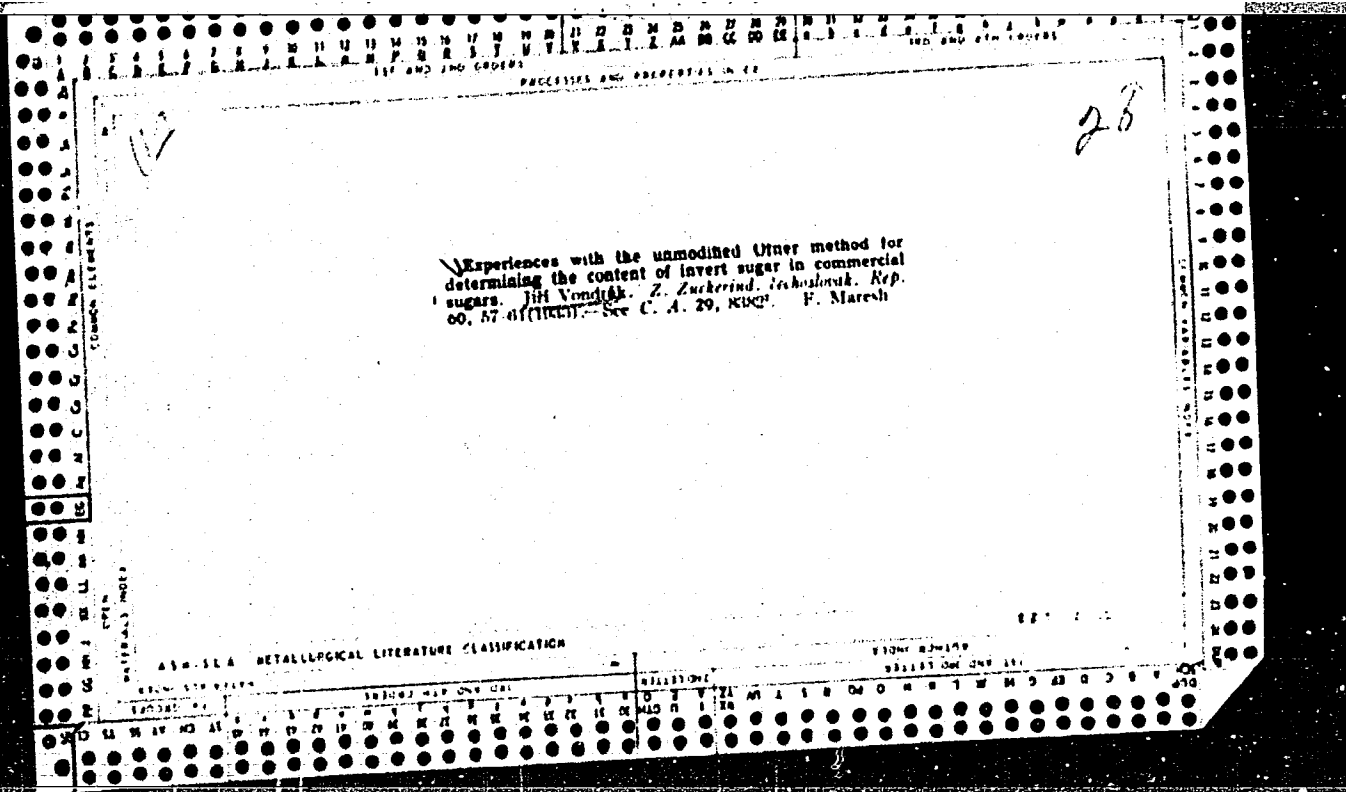
ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

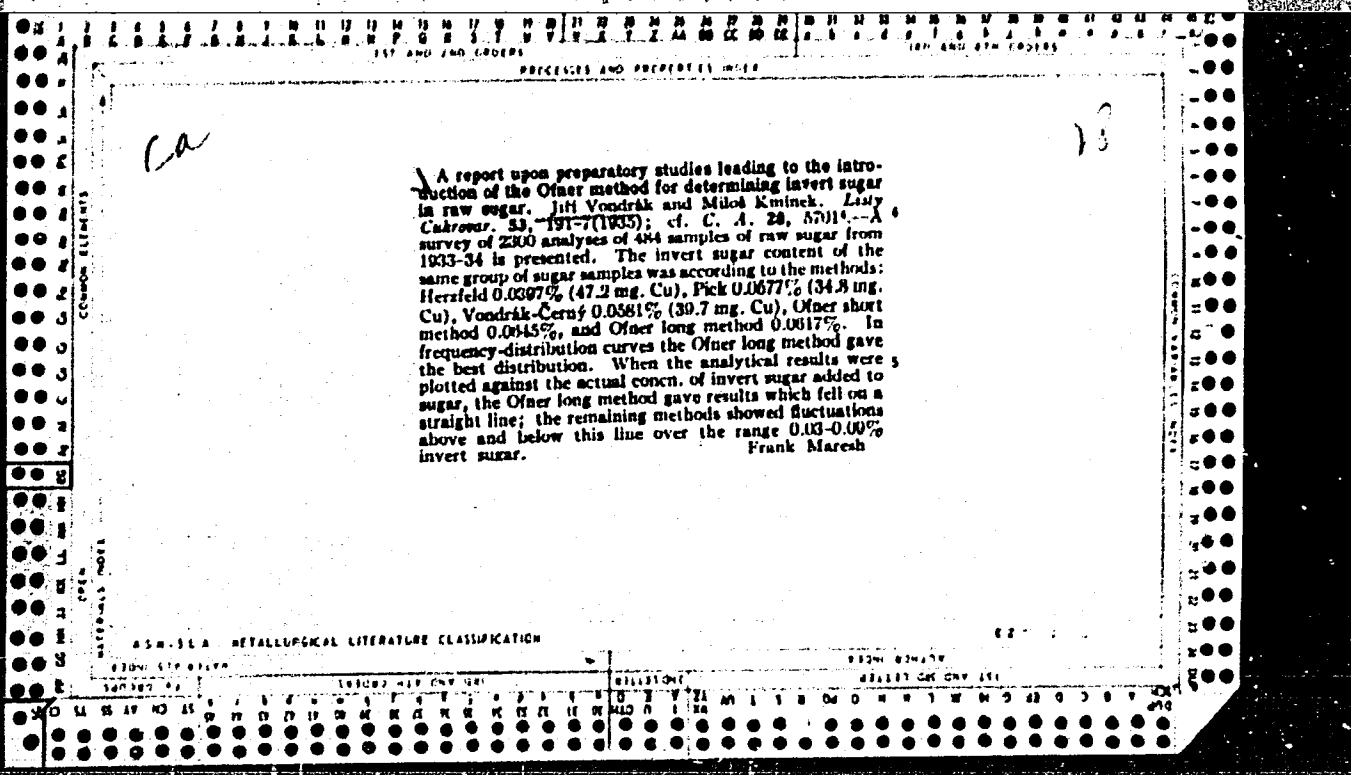
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11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100





78

R

The second supplement to the fourth edition of Directions for Chemical Analyses in Sugar Mills according to uniform methods. JH Vondrak, *Listy Cukrovar.* 55, 59-60(1936); Z. Zurbivins, *Tekhnolosh. Rep.* 61, 46-8 (1936); cf C. A. 30, 4347. — The adopted changes, modifications and new procedures are given. Frank Marech

METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00
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28

111 AND 110 REVISED
PROCESSING AND REPRODUCTION MODES

(4)

The course of the 1940-41 campaign in Bohemia and Moravia. I. The beets, the harvest, and the purification of the juice. J. J. Vondrák. *Listy Cukrovar. 19, 213-20(1941); cf. C.A. 14, 7641*.—Based upon 235 weekly reports from 20 sugar estates, the seasonal av. values were: beet digestion 17.55%, diffusion juice quotient 90.78, saccharization of the heavy liquor 84.30, quotient 94.94, alkyl. 0.061, molasses quotient 66.76, and per cent yield of molasses 1.43. V. presents the av. values for the same estates for the previous decade. The results showed a general improvement over the 3 preceding years. II. Filtration, evaporation, concentration, crystallization, heat, and yield balances. K. Sanders. *Ibid. 221-33; cf. C.A. 19, 5108*.—The av. values resembled those of the 1939-40 season and deviated less than a per cent from the preceding year. Frank Mareš

6-477-212-12072

ASR-51A - METALLURGICAL LITERATURE CLASSIFICATION

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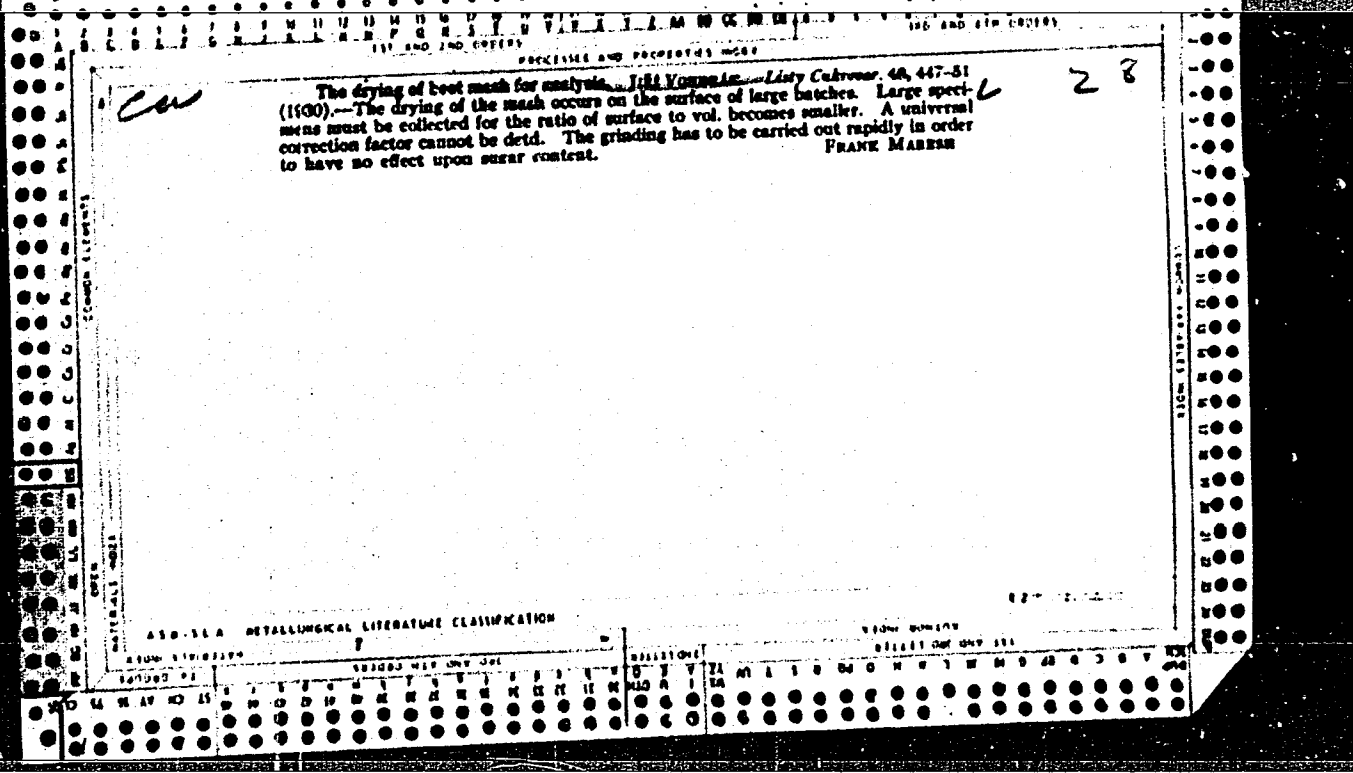
28

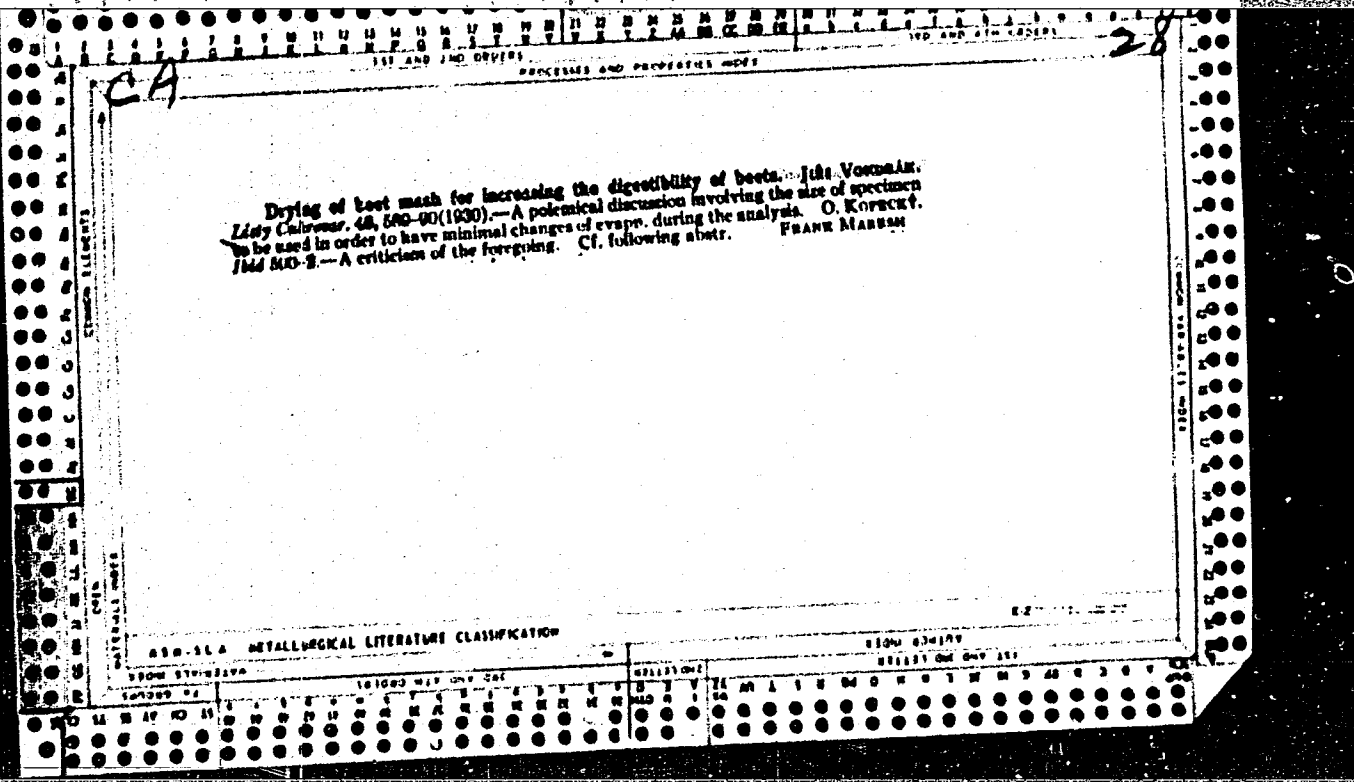
The development of views concerning the nitrogen constituents in sugar beets and in sugar products. Jfi Von-drak. *Chem. Listy* 33, 149-51 (1938). In a table V gives the annual N content of beet juices (total N, amine N, injurious N in the form of amines, total injurious N) in Czechoslovakia for the yrs. 1938-1938. By a careful selection of beet seeds, particularly during the past 20 years, the content of injurious N in diffusion juices which in the years preceding 1938 ranged 0.284-0.621 g. of N per 100 g. of sugar fell into the range 0.222-0.480 g. during the past decade. In 1932 Andrlík defined the injurious N (*Listy Culturel.* 31, 540 (1932 (11)) as that N which is not removed by silt, and defecation and which finally enters the molasses; the injurious N was detd. from the total N minus the albumin N, the N as NH_3 , and a half of the N in the form of amines (i. e., that N in an amine which when removed forms NH_3). From the content of the injurious N it was possible to predict the total quantity of molasses from the particular beets. Since later analyses showed that a large part (about a third) of the injurious N comes from betaine, an inert chem. substance which passes unchanged through all of the processes of sugar manuf., Andrlík view became too rigid and although the injurious N characterized the sugar juices better than the total N characterized it, the injurious N did not measure the reactivity of the N substances in the juices. The systematic annual analyses of the past 20 yrs. have shown a const. relation between the amino acid content of juices and the

stability or the fall of the silky. In the campaign; it has been possible to predict the course of the campaign from the preliminary amino acid detns. Recent analyses indicate that the amino acids are not the only reactive bodies, for the living beet is able to transform amino acids into amines and amines into amino acids according to its requirements. The reactions which predominate are glutamine \rightarrow glutamic acid and asparagine \rightarrow aspartic acid. In diffusion juices the amines predominate over a small quantity of amino acids, but during silt, much of the amine N is cleaved and the remainder of the mol. is left as an alk. (principally Ca) salt of amino acids; the amino acids predominate over the amines in silt. juices. The rapid colorimetric Staněk-Pavlas method (C. A. 29, 1217) depends upon the fact that glutamine, glutamic acid, asparagine and aspartic acid in Cu acetate form a blue substance whose color is an index of the reactive amino acid N; the N which can be removed as NH_3 does not participate in the reaction. The N indicated by this test and expressed as "Blue nos." has been called the injurious N by Staněk; the correctness of this view has been confirmed by field and lab. tests during the past 2 seasons.

Frank Mareš

ALD-31A METALLURGICAL LITERATURE CLASSIFICATION





PROCESSING AND PROPERTIES INDEX

27

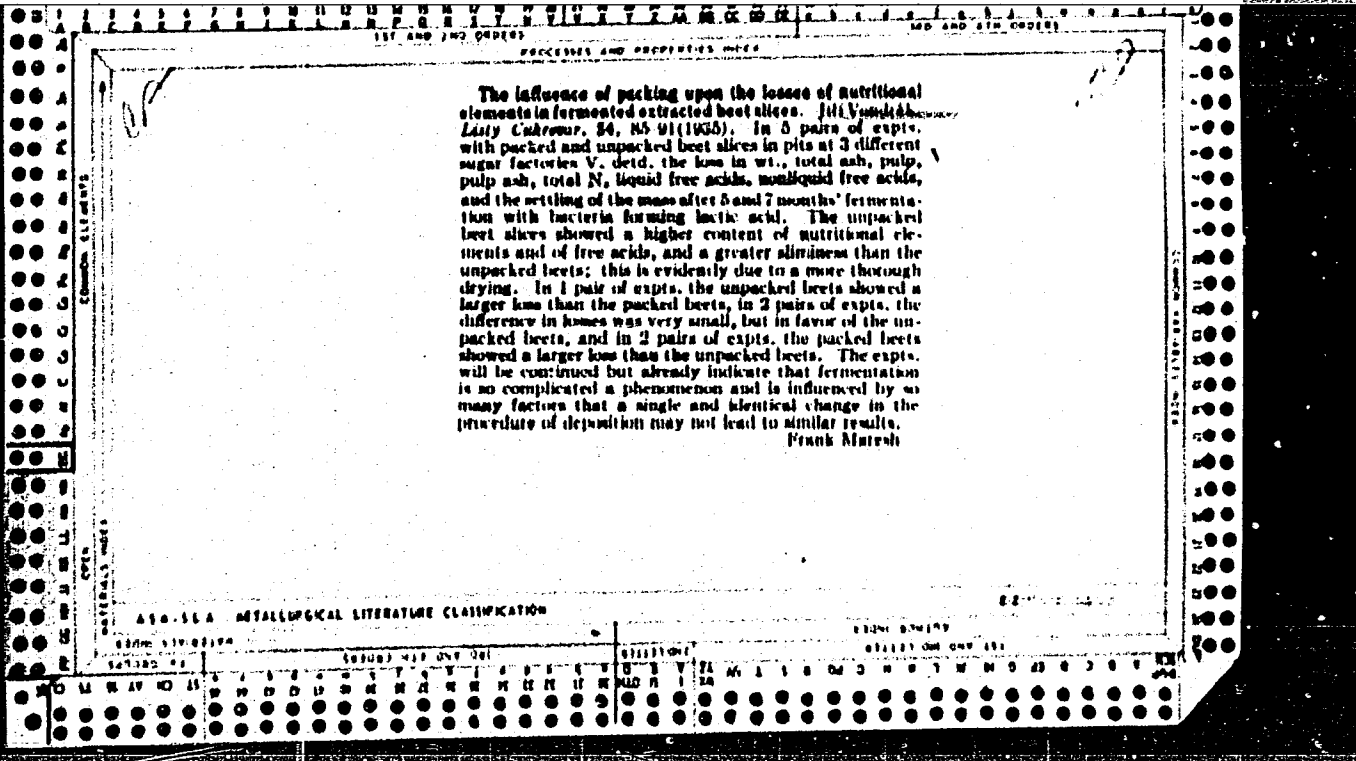
Further studies on the influence of packing on extracted and fermented beet slices. Jiri Vondra. *Listy Cukrov. 33*, 9-14(1930); cf. C. A. 20, 7377. In 22 pairs of beet pits on 6 different estates, V. deposited fermented, cold beet slices in a loose condition (I) and in a firmly packed state (II). After 8 months on estate A, I lost 30% of their wt., 45% of their dry substance, 81% of their pulp and 35% of their total N; the corresponding well-packed beets lost 21.7% of their wt., 24% of their dry substance, 20% of their pulp and 11% of their total N. In 21 out of 22 pits I lost more of their wt. than II. The disappearance of nutritional elements was not consistent: in 7 pits I lost less of their nutritional elements than II, in 14 pits I lost more than the controls, and in 1 pit the changes were equal for both types of packing. However, II retained their structure and appearance, contained less slime and were lower in solid and in liquid acids than I. The changes depend upon the degree of ventilation in the beet masses, but since fermentation is a complicated process, the firm packing of beet slices into pits is recommended only on those estates on which it proved beneficial. P. Mareš.

METALLOGICAL LITERATURE CLASSIFICATION

SECTION NUMBER

CLASSIFICATION

SUBJECT INDEX



28

New attempts to inoculate extracted beet slices with lactic acid-producing organisms. In *Vysokoh. Listy* (Harver, 33, 46 (1934); *Z. Bakteriol. Immunol. Suppl.* 50, 205-73 (1935). Throughout the 1932-33 and 1933-34 seasons V. analysed extd. beet slices which had been inoculated with lactic acid-forming organisms. For a control supply, slices were produced for 3 days without inoculation. Beet slices inoculated during regular intervals throughout the campaign and the uninoculated control slices were buried in identical pits and opened 3 and 7 months later. In those establishments which had an abundance of fresh water the inoculated slices revealed a smaller loss of dry substance than the uninoculated slices. In an establishment which returned, filtered and reused the running water, the inoculated slices showed a greater loss of dry substance than the uninoculated slices. The principal losses in dry substance occurred during the early stages of storage, while one strain of bacteria was

gaining supremacy over the remaining ones. An abundant water supply indicates relatively sterile slices, and an inoculation with a strain of bacteria gives the strain an uncontested field for growing and for developing the conditions for its optimum expansion. In the plants in which the water is recirculated through the beet slices they are infected by many local brands of bacteria. When they are inoculated with a new strain, a struggle for supremacy follows until one strain dominates the others and develops a medium for optimal expansion. P. M.

530-55A METALLURGICAL LITERATURE CLASSIFICATION

CR

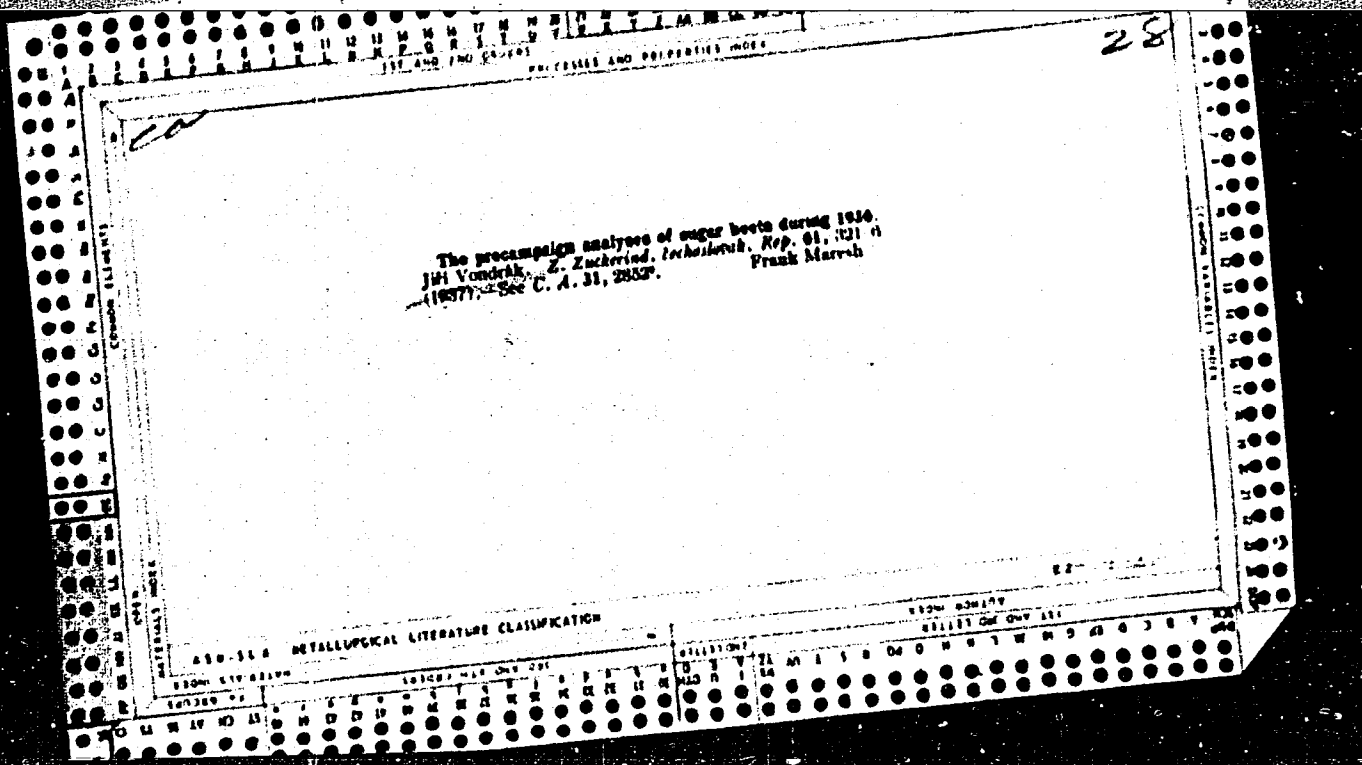
28

New attempts to inoculate extracted beet slices with lactic acid-producing organisms—*Int. Vitellinik. Listy* (Observer, 13, 40, 34 (1934); *Z. Zuckerind. Technische Rep.* 20, 265-72 (1936)).—Throughout the 1933-33 and 1934-34 seasons V, analysed etid, beet slices which had been inoculated with lactic acid-forming organisms. For a control supply, slices were produced for 3 days without inoculation. Beet slices inoculated during regular intervals throughout the campaign and the uninoculated control slices were stored in identical pits and opened 5 and 7 months later. In those establishments which had an abundance of fresh water the inoculated slices revealed a smaller loss of dry substance than the uninoculated slices. In an establishment which returned, altered and reused the running water, the inoculated slices showed a greater loss of dry substance than the uninoculated slices. The principal losses in dry substance occurred during the early stages of storage, while one strain of bacteria was

gaining supremacy over the remaining ones. An abundant water supply indicates relatively sterile slices, and an inoculation with a strain of bacteria gives the strain an uncontested field for growing and for developing the conditions for its optimum expansion. In the plants in which the water is recirculated through the beet slices they are infected by many local brands of bacteria. When they are inoculated with a new strain, a struggle for supremacy follows until one strain dominates the others and develops a medium for optimal expansion. F. M.

630-554 METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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137 AND 139 SERIES
145 AND 146 SERIES
PROCESSES AND PROPERTIES INDEX

ea 28

The pre-campaign analyses of beets in 1934. JIM 1
Vondrák-Lazy Čalover. 23, 105-9(1936).—Twelve beet
samples from representative estates were analyzed at
the exptl. institute. The av. amino acid N was 0.115 g.
per 100 g. of sugar, the av. inorganic amino acid N no.
was 29.5, and the alkyl. of a carbonate ash was 1.044 g.
K₂O per 100 g. of sugar. On the basis of these values a
stable alkyl. was predicted for the season. Tables give the
content of ammonia N, N pptd. by Hg acetate and soda,
amine N, inorganic amino acid N according to Vondrák
and Staněk-Pavlas methods, elec. cond. of 0.5 N and 1.0
N digestion juices, and av. values for previous seasons.
The analyses show the reliability of the colorimetric
Staněk-Pavlas procedure during a wet season. F. M.

ASO-514 METALLURGICAL LITERATURE CLASSIFICATION

137 AND 139 SERIES
145 AND 146 SERIES

137 AND 137C (1971) PROCESSES AND PROPERTIES UNIT 138 AND 138C (1971)

28

Common Elements

Common Variable Nodes

A report concerning the process analysis of beets performed by the Experimental Institute of the Czechoslovakian Sugar Industry in Prague. J. Vondrák and Miloš Katiček. *Listy Cukrov. 13, 55-61(1954)*. In certain districts the amide N ranged 150-300 mg. per 100g. sugar. Since this is above the ten-yr. av., the plants in the districts are warned to anticipate a rapid decrease in alk. during the process of sugar extn. Frank Marsh

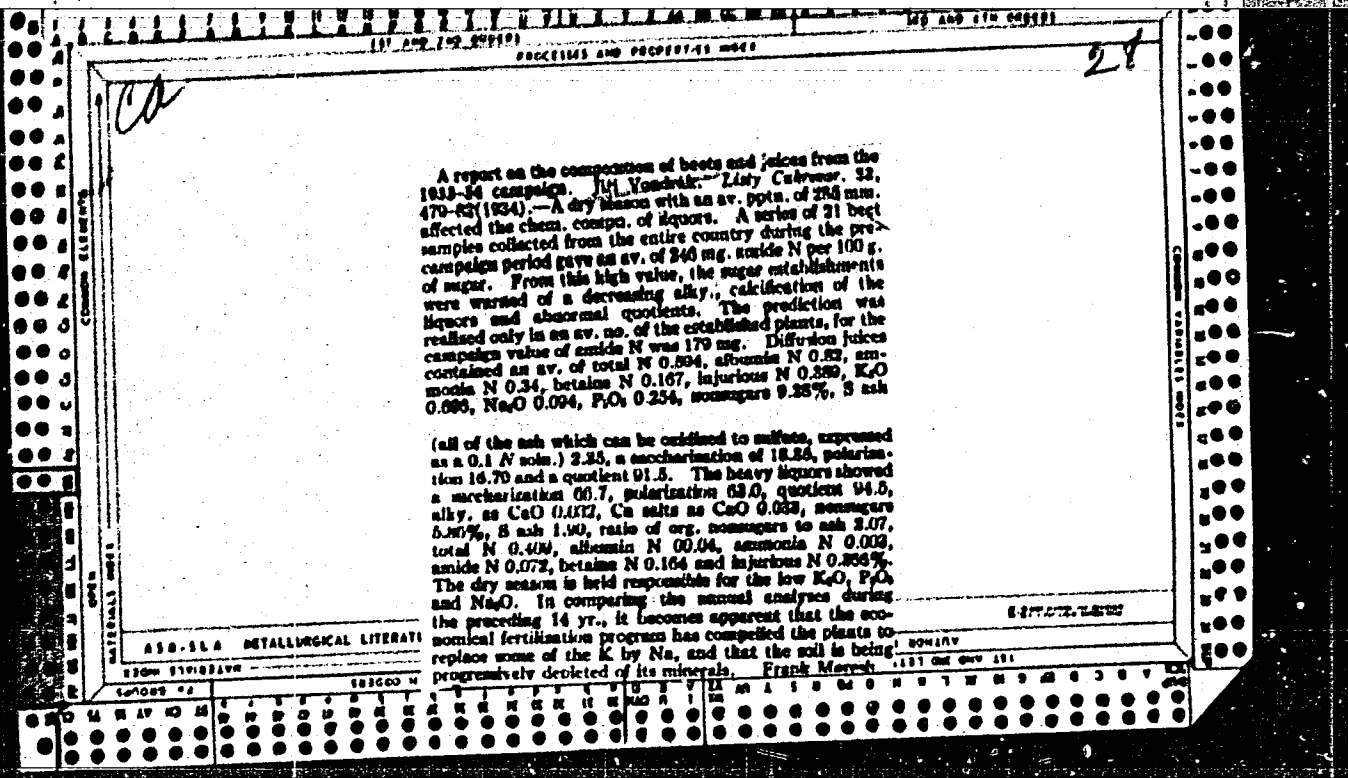
ASTM-ISA METALLURGICAL LITERATURE CLASSIFICATION

137 AND 137C (1971)

138 AND 138C (1971)

137 AND 137C (1971)

138 AND 138C (1971)



PROCESSES AND PROCEDURES UNIT

157 APP. IMP. CORREPS

100 400 410 420 430

78

CA

A report of the course of the campaign of 1931-32 in Czechoslovakia. I. Beets, yields and purifying liquors. [H. VONNEMAN. Listy Cukrov. 50, 281-8; Z. Zuckerind. tschechoslov. Rep. 54, 357-64 (1932); cf. C. A. 25, 4730. II. Filtration, digestion, crystallization, heat and yield balances. K. SANDERA. Ibid 240-94; cf. C. A. 25, 4731. FRANK MARRON

METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

COLLECTIONS

FROM SOURCE

100 400 410 420 430

28

LP

A report on the course of the 1932-33 campaign in Czechoslovakia: beets, extraction and purifying of juices. JIRI VONDRAHA: *Daily Culture*, 51, 240-241 (1933). Weekly reports from 100 sugar establishments showed the crops yielded 290 quintals per hectare in Bohemia, 223 in Moravia and 252 in Slovakia. The sugar contents per beet root were 18.18, 14.96 and 18.01%, resp. Most of the establishments used a 16-unit diffusion battery and an initial temp. of 78-79°. About half of the establishments used an initial CaO concn. of 0.2-0.3%, the remainder 0.1-0.2%. The av. quotient was 10.07.

FRANK MARSH

ASU-SLA METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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125 AND 67M CODES

RECEIPTS AND PROPERTIES NOTES

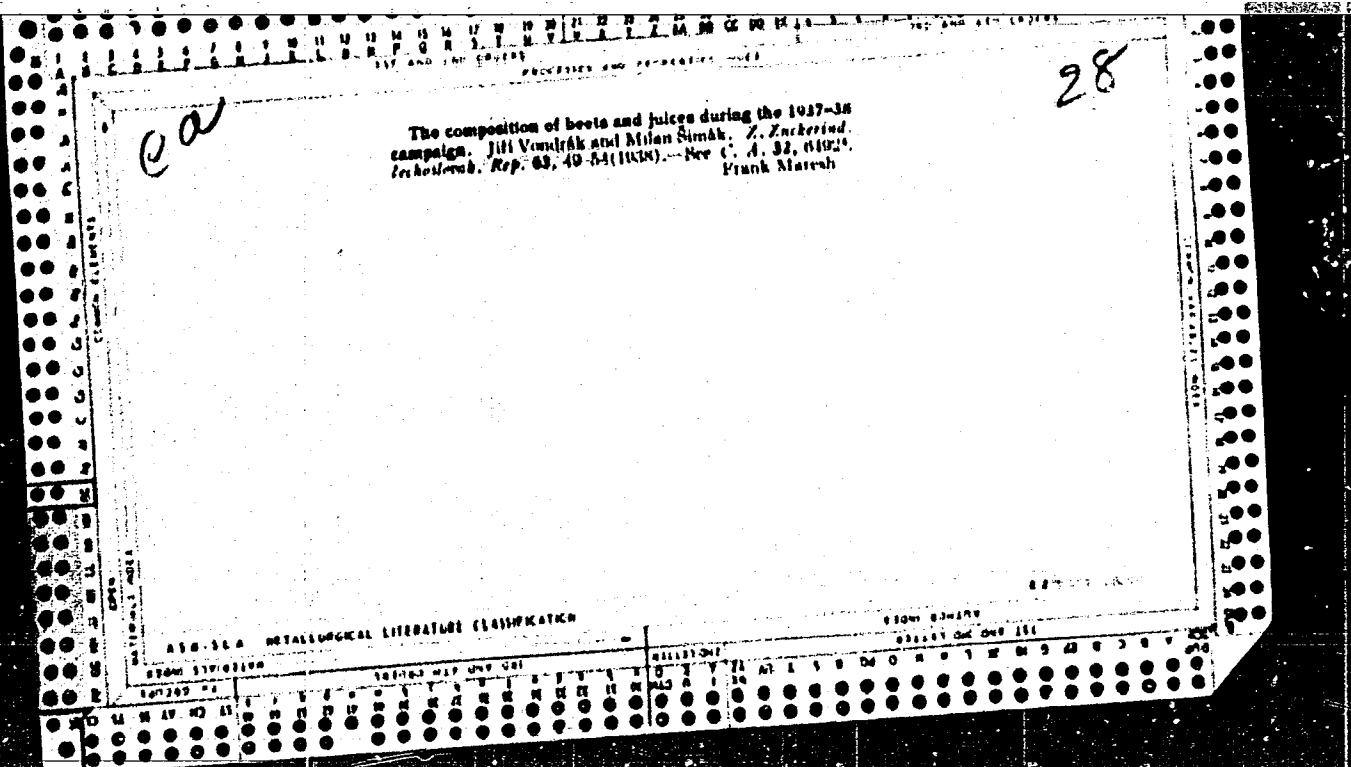
28

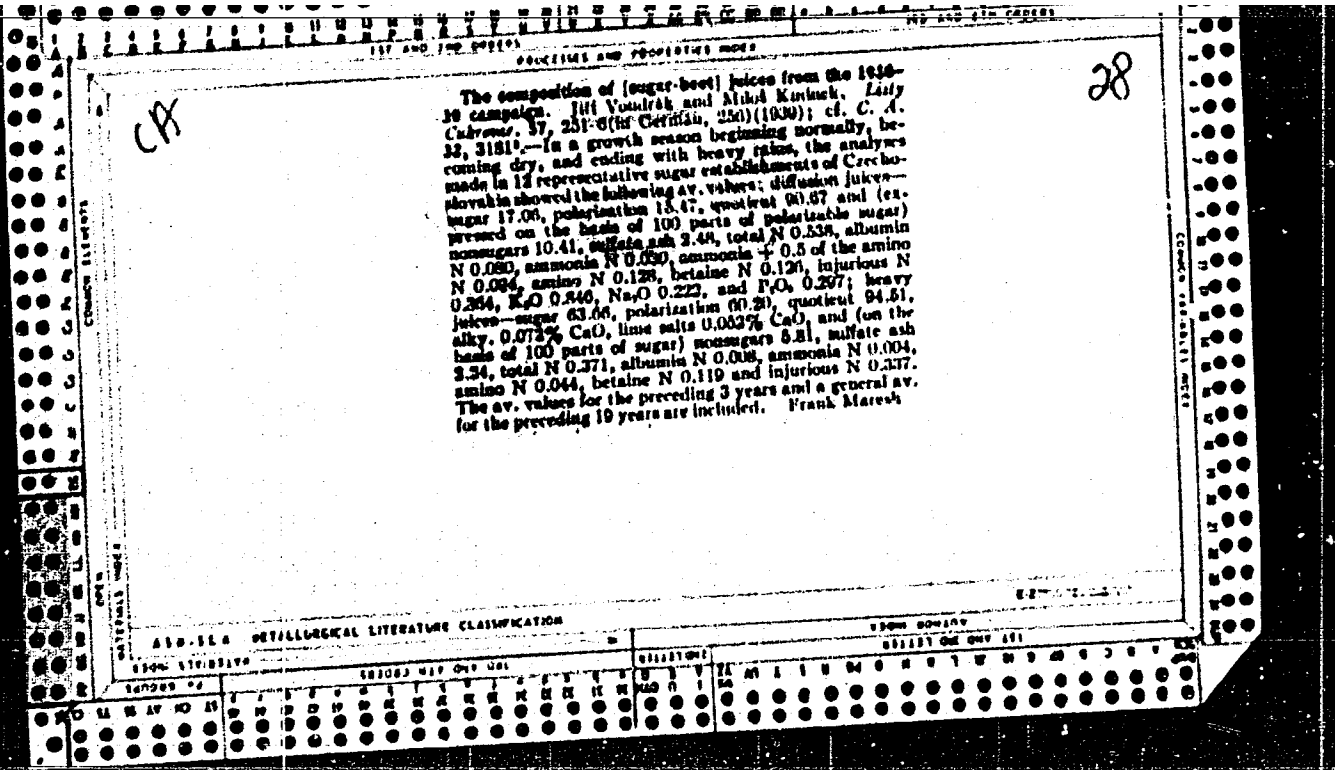
A report upon the course of the 1934-35 campaign in
 Czechoslovakia. Jiri Vondrik, *Listy Cukrovar. 13*,
 215-23; *Z. Zuckerind. (Prague)*, *Rep. 59*, 321-6, 329-32
 (1935); cf. *C. A. 29*, 4199. — During the campaign, 104
 sugar factories sent weekly reports to the expil. institute,
 where a statistical av. of 373 reports showed: sugar concn.
 18.12%, quotient for the diffusion juice 80.34, sacchariza-
 tion of the heavy liquor 63.14, quotient of the heavy liquor
 04.66, alkyl. of the heavy liquor 0.041, molasses quotient
 66.78, and percentage of molasses per raw beet 2.07. The
 yearly averages of the 1934-36 decade are presented.
 The yield of roots was 370 q. per ha. for a poptn. of 318 mm.
 during the vegetative period. The total lime addn. was
 1.97%. Frequency-distribution curves are given for the
 preceding analyses. Frank Marrah

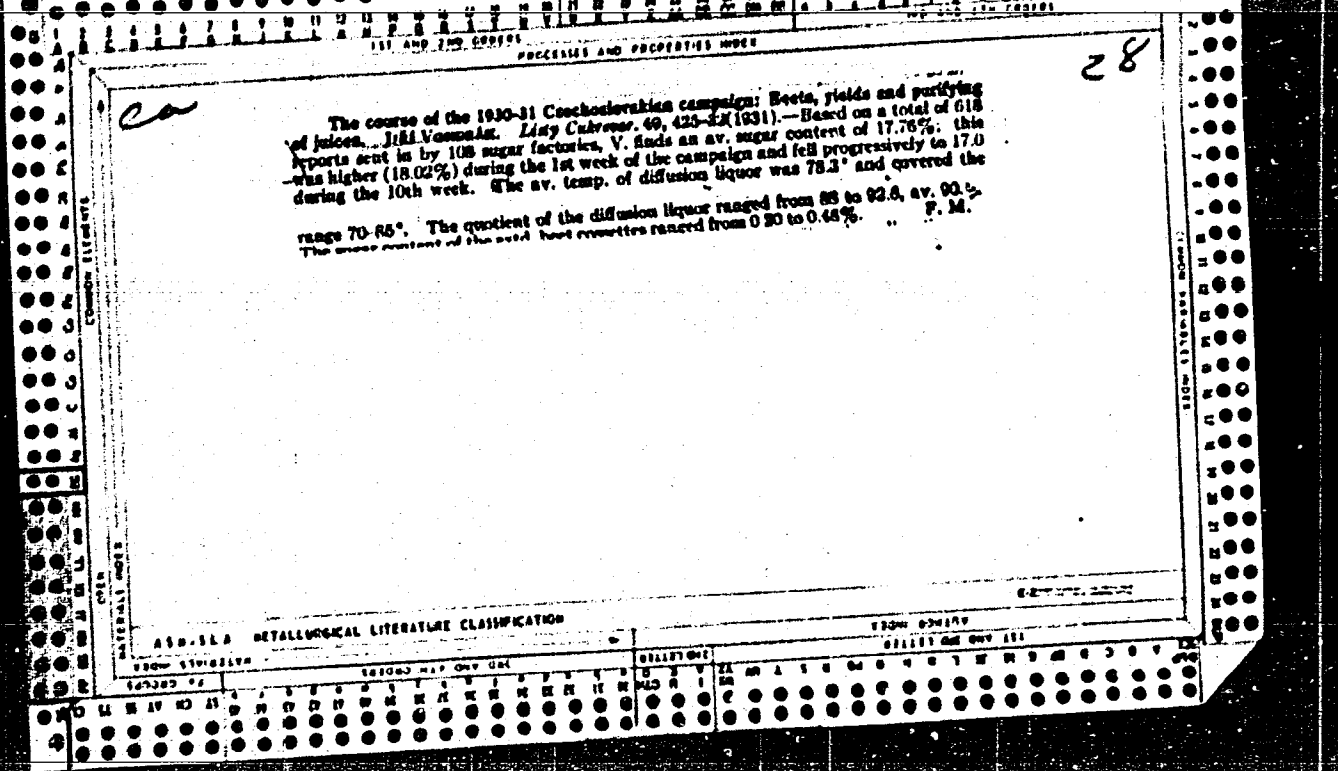
ASB-314 DETAILING LITERATURE CLASSIFICATION

125 AND 67M CODES

125 AND 67M CODES







190 AND 8TH EDITION
PROCESSES AND PROPERTIES MODS

CA

Common Elements

Common Elements MODS

28

The course of the 1923-1924 campaign in Czechoslovakia. I. The beet, the extraction and the clarification of the juices. J. H. Vondra. Z. Zuckried. *Technol. Rep. 59, 97-9; 105-8(1924)*.—See C. A. 28, 5077.
II. Filtration, digestion, crystallization, heat balances and composition. K. Sanders. *Ibid.* 113-15, 131-7.—
Frank Marsh
See C. A. 28, 5098.

ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION

REGIONAL DIVISIONS

REGIONS

CLASSIFICATION

21 M 1 1 8 0 0 K 7 W M 5 2 3 8

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

78

ca

The course of the 1933-34 campaign in Czechoslovakia: the beets and the preparation and clarification of the juice. JMI Yondra. *Listy Cukrovar.* 54, 203-14(1936); Z. *Zuckerind. Czechoslovak Rep.* 60, 325-37; cf. C. A. 29, 4190. Six weekly reports from 101 sugar establishments are analyzed statistically. The av. sugar concn. (17.88%) was 0.37% below the 10-yr. av. of 18.25%. The quotient for diffusion liquor was 90.43; for heavy liquor, 94.50; the 10-yr. av. for diffusion liquor was 90.56; for heavy liquors, 94.58. The operations during diffusion and mtn. were simple, for the chief troubles were due to muddy beets and a decrease of the alkali. Eight statistical tables are given in detail. Frank March

658-354 METALLURGICAL LITERATURE CLASSIFICATION

SECTION: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

28

Co

The course of the 1937-38 campaign in Czechoslovakia. I. The beets, the harvest and the purification of juices. *Jiti Vychodk.*—*Listy Cukrovar.* 56, 261-8, 269-72 (1938); *Z. Zuckorind. tschechoslov. Rep.* 62, 303-19.—Weekly reports from 111 sugar establishments (out of a total of 114) analyzed statistically revealed a wet season with an av. pptn. of 446 mm. from April through Oct. which led to large beets with an av. sugar concn. of 17.12% (lowest 14.50; highest 18.97%). Compared to the annual averages for the preceding 13 yrs. the present pptn. was the highest over this period; the sugar concn. was the lowest. The beets were very fragile, yielding slices which demanded a large volume of extr. liquid and which left a small residue of poor quality. For the diffusion juice the av. quotient was 90.51, the saccharization 16.81, the polarization 15.23. For the light juices the av. saccharization was 15.88, the polarization 14.92. For the heavy liquors the saccharization was 64.17, the quotient

94.88, and the alk. 0.057. The molasses had a quotient of 68.13 and a yield of 1.55%. Detd. by the Staněk-Pavles method the av. amino acid no. was 24.6 (min. 15, max. 45) and agreed with such factors as permanent alk. and const. compon. of the beets. Undigested half normal beet juices showed an av. elec. cond. of 41.8 units on a Sanders conductivity meter (min. 37.7, max. 47.7). II. The filtration, the evaporation, concentration, crystallization, yield and heat balance. *K. Sanders. Listy Cukrovar.* 56, 273-88, 296 (1938); *Z. Zuckorind. tschechoslov. Rep.* 62, 321-8, 337-40.—In 16 tables, 4 diagrams and 12 summaries S. reveals that the av. raw sugar rendement was 90.54 (max. 95.80), the raw-sugar ash was 0.94 (min. 0.55, max. 1.63), the sugar in the sediment was 0.80 (min. 0.23, max. 3.50), the accountable losses were 0.53% (max. 1.10), the unaccountable losses were 0.49% (max. 1.39), and the total losses were 1.02% (max. 2.18). The chem. difficulties and abnormalities encountered during filtration, salt, and evapn. are reported individually together with remedies and notes. Geographically as one proceeds from the western tip of Czechoslovakia to the eastern tip, the consumption of coal per unit of sugar rises regularly while the yield of sugar per unit wt. of beet root decreases linearly.

Frank Mareš

ASB-31A METALLURGICAL LITERATURE CLASSIFICATION

33000 31000 32000 33000 34000 35000 36000 37000 38000 39000 40000 41000 42000 43000 44000 45000 46000 47000 48000 49000 50000 51000 52000 53000 54000 55000 56000 57000 58000 59000 60000 61000 62000 63000 64000 65000 66000 67000 68000 69000 70000 71000 72000 73000 74000 75000 76000 77000 78000 79000 80000 81000 82000 83000 84000 85000 86000 87000 88000 89000 90000 91000 92000 93000 94000 95000 96000 97000 98000 99000

BALEJ, J.; PASEKA, I.; VONDRAK, J.; KOUDELKA, V.; HIGNER, A.

Study on the electrochemical production of chlorine and soda.
Chem prum 14 no.11:576-581 N '64.

1. Institute of Inorganic Chemistry, Czechoslovak Academy of
Sciences, Prague.

VONDRAK, JUL.

TECHNOLOGY

VONDRAK, JUL. Novodobe prepínacé regulacních transformátoru. 7 p.

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

VONDRAK, Eldrich; inz.

~~Polish exhibition of railroad cars on Poznan Fair.~~ Zel dep tech
10 no.9:586 '62,

VONDRAK, V.

Production of chemically hardened cores for iron castings in the Stalingrad Plant of the CKD Works. p. 299.

SLEVARENSTVI. (Ministerstvo tezkého strojírenství a Československá vědecká technická společnost pro hutnictví a slevarenství) Praha, Czechoslovakia. Vol. 7, no. 7, June 1959

Monthly list of East European Accessions (EEAI) LC Vol. 8, No. 12, Dec., 1959 Uncl.

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

Autonomic profile of schizophrenia. Ces. 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))

Vondrak, Z.

Further development and improvement of the "Days for New Technology" in the building industry. p. 468. INZENYRSKE STAVBY. (Ministerstvo stavebnictvi) Praha. Vol. 4, no. 20, Nov. 1954.

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

KOUTSKY, Jaroslav; VONDRAK, Zdenek

Autonomic system in neurotic and normal persons. Cas. lek.
cesk. 46 no.10:303-307 8 Mar 57.

1. Statni psychiatricka lecebna Jihlava, prim. Dr.
Vilem Kotina, J. K., Jihlava, Dlouha stezka 1.
(AUTONOMIC NERVOUS SYSTEM, in var. dis.
neurosis, comparison with normal persons (Cz))
(NEUROSES, physiol.
autonomic NS, comparison with normal persons (Cz))

VONDRAK, Z.

Modern Technology Days. p. 253.
(INZENYRSKE STAVBY, vol. 3, no.8, Aug. 1954, Praha)

SO: Monthly List of East European Accession,(EEAL), IC, Vol. 4, No. 11,
Nov. 1955, Uncl.

VONDRANOV

Impregnation of paper against burning. P. 89.

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

VONDRAKOVA, Milena, inz.; BABUREK, Jiri, inz.

Effect of mineralogical composition on the technological properties of paper coating kaolins. Papir a celuloza 19 no.2:45-48 F'64.

1. Vyzkurny ustav papiru a celulosy, pracoviste Praha (for Vondrakova). 2. Ustav keramiky a keramickych surovin, Karlovy Vary (for Baburek).

VONDRAKOVA, Milena, inz.

Preparation of a cellulose fiber replica for electron microscopes.
Sber cel pap 8:53-69 '63.

VONDRAKOVA, M., ins.

"Techniques for electron microscopy" by D.Kay. Reviewed by
M.Vondrakova. Papir a celulosa 18 no.1:24 Ja '63.

S/081/63/000/001/048/061
B144/B186

AUTHORS: Tyroler, Jiří, Formánek, Zdeněk, Vondráková, Zdena,
Zahradník, Lubomír, Štovík, Miroslav

TITLE: Production of pure germanium dioxide from germanium
concentrates

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 1, 1963, 347, abstract
1L38 (Czechosl. patent 101148, October 15, 1961)

TEXT: Ge concentrates are distilled continuously with concentrated HCl
(ratio 1 : 1 - 2) with simultaneous bubbling of Cl_2 (gas) through the
solution or addition of oxidants ($\text{K}_2\text{Cr}_2\text{O}_7 + \text{H}_2\text{SO}_4$). The GeCl_4 vapors
together with HCl, vapors Cl_2 and impurities are washed out of the gas
mixture by organic solvents (CCl_4); then, the GeCl_4 dissolved in the
organic solvent is washed with HCl (acid) and hydrolyzed. Example. The
apparatus comprises 2 containers with agitators of 70 l capacity (the
mixture is tapped from one container, while at the same time the other
Card 1/2

Production of pure germanium ...

S/081/63/000/001/048/061 -
B144/B186

tank is filled), a metering pump, a cooking boiler, a foam separator and an absorber. In the containers, the mixture of 25-30 kg concentrate and 50 kg HCl (acid) is prepared. The absorber is filled with CCl_4 . The operation of the metering pump and the heating of the boiler is controlled in such a way that the foam entering the separator has a temperature of 100°C . From the separator the suspension is drained-off to waste, but the vapors are led into the absorber, from which GeCl_4 dissolved in CCl_4 is drawn off intermittently or continuously and hydrolized thrice with distilled water. The product contains 0.005 - 2% As and is a suitable raw material for semiconductors. [Abstracter's note: Complete translation.]

Card 2/2

VONDRASEK, Bohumil

SURNAME, Given Names

Country: Czechoslovakia

(3)

Academic Degrees:

Affiliation: Chair of Nutrition and Veterinary Dietetics, Veterinary College (Katedra Vyzivy a dietetiky veterinarny fakulty VSZ) Brno /Chief Jaroslav KABRT/

Source: Prague, Sbornik CSAZV Veterinarni Medicina, Vol 6(34), No 8, Aug 61; pp 631-638

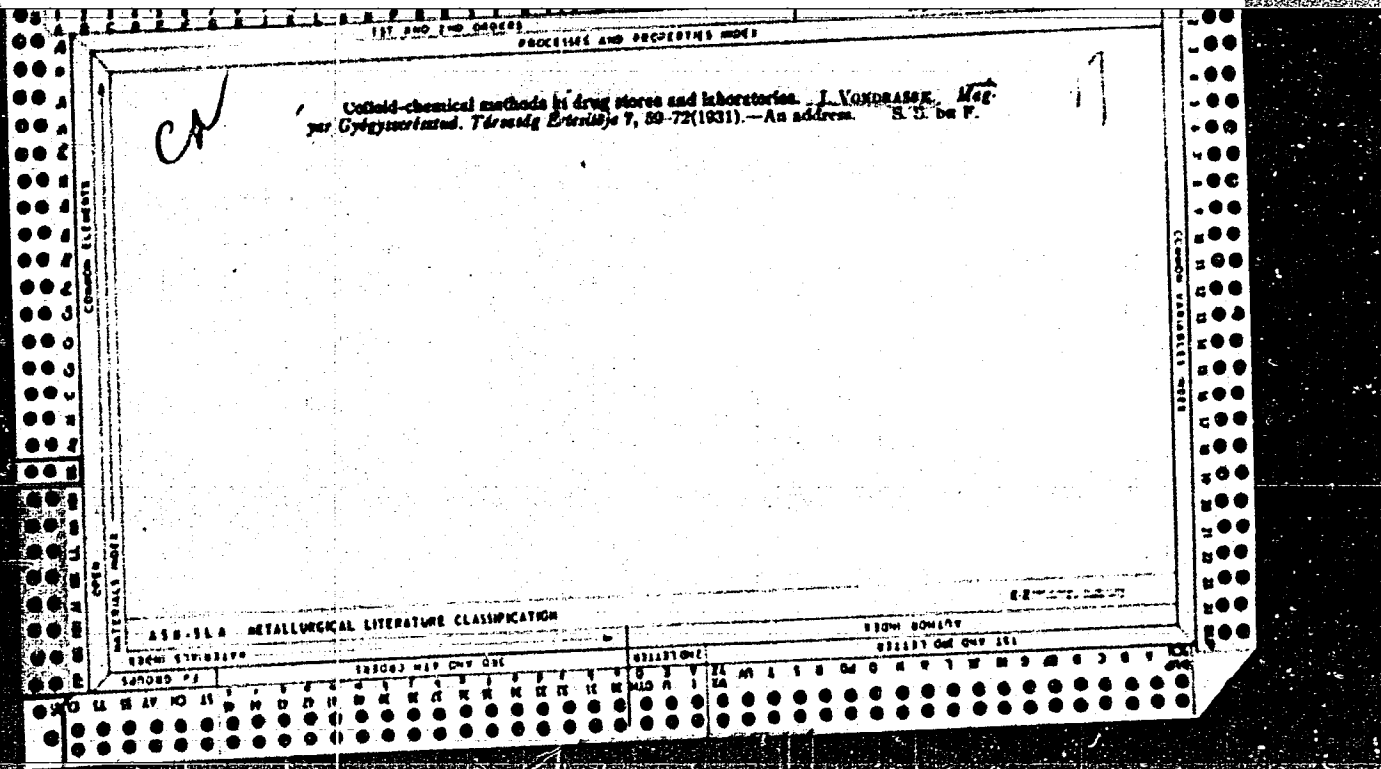
Data: "Study of Volatile Nitrogenous Bases on Wheat Feeds"

VESELY, Zdenek; DVM

✓JELINKOVA, Vera; graduate veterinarian

✓VONDRASEK, Bohumil; graduate veterinarian

070 981643



VONDRASEK, J.

Anchoring of subsequently strained prestressed-concrete elements in
Czechoslovakia. p. 479.

POZEMNI STAVBY. (Ministerstvo stavebnictvi) Praha, Czechoslovakia, Vol. (1)
no. 9, (September) 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 11,
November 1959.

uncl.

VONDRASEK, J.

The handling of lumber from the point of view of the lumber technology. p. 201.
(SBORNIK RADA LESNICTVI. Praha) (Vol. 30, no. 3, Mar. 1957)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

Preparation of a tetrazole derivative of tetraaminobenzene. A 1.0 g sample of 1,3,5-triazine was added to a solution of 1.0 g of sodium cyanide in 10 ml of water. The mixture was stirred at 0°C. The 1st drop of HClO₄ caused the solid to dissolve. The mixture was then stirred at 0°C for 24 hours.

10

CA

PROCESSES AND PROPERTIES INDEX

Preparation of a tetrazole derivative of triformylohoic acid. Jaromir Hladček and Miroslav Vondráček (Charles Univ., Prague, Czechoslovakia). *Chem. Abstr.* 22, 197-201 (1947).—The combination of cholic acid with a tetrazole compd. was studied. Triformylohoic acid was converted through its chloride by the Rosemund method into the aldehyde (I); the 1st fraction m. 96°. 2nd fraction m. 110°. I (1 g.) was heated 7 hrs. and brought to a boil on a water bath with 0.6 g. PhNHNH₂, HCl, 0.5 g. NaOAc·3H₂O, and 10 ml. ethanol. After the ethanol was distd. off, the residue was shaken with N HCl, washed with H₂O, and twice crystd. from ethanol to give the monohydrazone (II), m. 158°. II (0.85 g.) was dissolved in 10 ml. alc., 2 g. NaOAc·3H₂O added, and PhN₃·Cl, freshly prepd. from 0.1% aniline, was added dropwise at 0°. The soln. changed the color to a deep yellow color. The soln. was left standing 3 hrs. at 8°, then 200 ml. cold H₂O added, and the soln. sepd. from the deep red, oily N,N'-diphenyl-C-triformylohoic formazone (III). III (0.5 g.) in 10 ml. alc. CHCl₃ was slowly dropped into a soln. of the theoretical amt. of Ph(OAc)₂ (the deep red color changes), the soln. standing 0.5 hour, 20 ml. alc. added, and the lead pptd. by HCl. After sepn. of the CHCl₃ and alc. solns. and evapn. of the alc., the pale-yellow, oily 2,3-diphenyl-5-triformylohoilyltetrazolium chloride (IV, R = triformylohoilyl) was obtained.

$$\begin{array}{c}
 \text{RC}=\text{N}-\text{N}-\text{C}_6\text{H}_5 \\
 | \\
 \text{N}=\text{N}-\text{Cl} \quad (\text{IV}) \\
 | \\
 \text{C}_6\text{H}_5
 \end{array}$$

Jan Micka

454-55A METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED	INDEXED	SERIALIZED	FILED	DATE	BY

PROCEDURE AND PROPERTIES PAGE

3c

Bismuth sulphates. B. SKRANOVSKY and O. VONDRÁSEK. (Coll. Czech. Chem. Comm., 1937, 6, 339-344).—The prep. of the compounds $\text{Bi}(\text{OH})\text{SO}_4 \cdot 6\text{H}_2\text{O}$, $\text{Bi}(\text{OH})\text{SO}_4$, $\text{Bi}_2(\text{SO}_4)_3 \cdot 7\text{H}_2\text{O}$, and $\text{Bi}_2\text{H}(\text{SO}_4)_5 \cdot 6\text{H}_2\text{O}$ is described and the existence of $\text{Bi}(\text{OH})\text{SO}_4 \cdot \text{H}_2\text{O}$, $\text{Bi}_2(\text{SO}_4)_3 \cdot 5\text{H}_2\text{O}$, $\text{BiH}(\text{SO}_4)_2 \cdot \text{H}_2\text{O}$, and $\text{BiH}(\text{SO}_4)_2 \cdot 3\text{H}_2\text{O}$ confirmed. E. S. H.

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ASME 11.4 METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSED AND REPROCESSED UNDER THE PROVISIONS OF THE ATOMIC ENERGY ACT OF 1954 AND THE PROVISIONS OF THE ATOMIC ENERGY ACT OF 1986

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ca

Homologous double alkali-bismuth sulfates. S. Skram-
 ovsky and O. Vondráček. *Časopis Československé Akademie věd*
 17, 204-207 (1971). There were prepared the following ho-
 mologous double sulfates: $KBi(SO_4)_2$, $K_2Bi_2(SO_4)_4$, $K_3Bi_3(SO_4)_6$,
 $K_4Bi_4(SO_4)_8$, and $K_5Bi_5(SO_4)_{10}$. To this group of compds. there
 can be added the compd. $K_5Bi_5(SO_4)_9(NO_3)$.
 V. D. Karpenko

METALLURGICAL LITERATURE CLASSIFICATION

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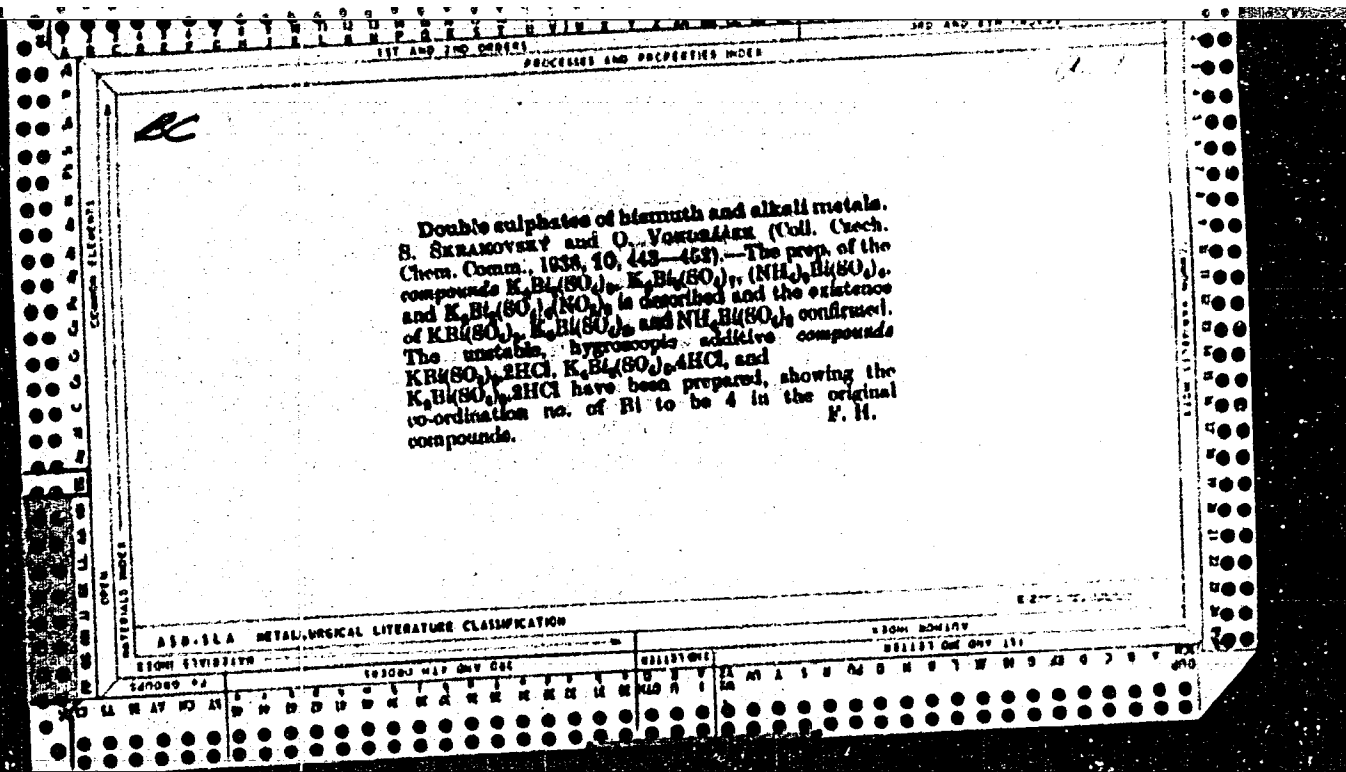
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ev

Study of the sulfates of bismuth. S. Skramovskó and O. Vondráček. *Collection Czechoslov. Chem. Commun.* 9, 329-44 (1937).--By treating basic bismuth nitrate with 67% H_2SO_4 a new salt, $Bi(OH)SO_4$, was prepd. In dil. acid $Bi(OH)SO_4 \cdot H_2O$ formed. In more concd. acid $BiH(SO_4)_2 \cdot 3H_2O$ formed. Under other conditions 2 new salts, $Bi(OH)SO_4 \cdot 4H_2O$ and $BiH(SO_4)_2 \cdot 6H_2O$, and 3 salts previously described, $Bi_2(SO_4)_3 \cdot 11H_2O$, $Bi_2(SO_4)_3 \cdot 7H_2O$ and $BiH(SO_4)_2 \cdot H_2O$, were prepd. The acid concn., the temp. and the exposure to air detd. the type of salt obtained. Photomicrographs of the salts are given.

Amy LeVesconte

AND-51A METALLURGICAL LITERATURE CLASSIFICATION



COUNTRY : CZECHOSLOVAKIA H
CATEGORY : Chemical Technology, Chemical Products and Their
Applications, Pharmaceuticals, Vitamins, Antibiotics
AES. JOUR. : RZhKhim., No 10, 1959, No. 68815
AUTHOR : Vondrasek, O.
INSTITUTE :
TITLE : Metacholiniumbromide
ORIG. PUB. : Ceskosl farmac., 1958, 7, No7, 418-420
ABSTRACT : An article dealing with pharmaceutical project
that covers $[\text{CH}_3\text{COOCH}(\text{CH}_3)\text{CH}_2\text{N}(\text{CH}_3)_3]$ Br. Com-
parison and discussion of literature data. The
bibliography covers 13 titles. -- T. Zverova

Card: 1/1

H - 58

VONDRASEK, V.

"Practical Problems of Electrolytic Polishing in Laboratories and Factories." p. 196
(Hutník, Vol. 3, no. 9, Sept. 1953, Praha)

SO: Monthly List of East European Accessions, Vol. 3, no. 2, Library of Congress,
Feb. 1954, Uncl.

VONDHASEK, Vaclav, doc. inz.; STANKA, Karel, inz.

Problems of thermal treatment of a thin steel strip from
carbon steel with 1.2 per cent carbon. Sbor VSB Ostrava
9 no.3:335-345 '63.

VONDRASEK, V.

Journal of the Iron and Steel Institute
Vol. 176
Apr. 1956
Metallography

①
Electrolytic Polishing in the Laboratory and Works: V. Vondrasek. (Hornb (Prague), 1953, 2, (9), 105-108). [In Czech]. A critical survey of electrolytic polishing practice shows that: (a) Present-day methods are suitable for industrial use only in the case of aluminium, aluminium alloys, and stainless steel; (b) the greatest obstacle lies in the large amount of metal lost by solution at the anode; (c) surface quality is not always satisfactory; (d) methods are often difficult, and electrolytes are unstable; and (e) its main use at present is in metallography.—P. 2.

VONDRASEK, J.

"The production of concrete pressure pipes prestressed lengthwise and crosswise."

p. 422 (Mechanizace) Vol. 4, no. 12, Dec. 1957
Prague, Czechoslovakia

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