

S/041/60/012/001/004/007
C111/C222

On the Reversion Problem for the Equations of Quantum Mechanics

[Abstracter's note: (Ref. 3) is a paper of L.D. Faddeyev in Vestnik Leningradskogo universiteta. Seriya matematiki, mekhaniki i astronomii, 1956, No. 7. (Ref. 4) is a paper of N.N. Khuri in Phys.Rev.1957, Vol.107, No. 4. (Ref. 5) is a paper of the author in Ukrainskiy matematicheskiy zhurnal, 1959, Vol. 11, No. 3]

SUBMITTED: April 15, 1959

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On the Reversion Problem for the Equations of Quantum Mechanics

factor - $\frac{1}{4\pi}$ the author concludes from own earlier results (Ref. 5)

$$(14) \quad \lim_{m \rightarrow \infty} T(im, \tau) = -\lambda^2 \int e^{i\vec{\tau} \cdot \vec{x}} v^2(\vec{x}) d\vec{x} ,$$

where $\tau = |\vec{k}' - \vec{k}|$; \vec{k}, \vec{k}' are impulses of the incident and of the scattered particle; (14) holds for all finite real τ . Since $T(k, \tau)$ can be determined for arbitrarily large energies and τ , and in k it is continuable in the upper halfplane, the reversion problem for (8) can be solved correct and unique with the aid of (14).

The author finds a relation analogous to (14) for the scattering of particles with the spin $1/2$ in a potential field.

The author mentions E.E. Shpol' and A.Ya. Povzner. He thanks O.S. Parasyuk, Corresponding Member of the Academy of Sciences Ukr. SSR, for the theme, and Yu.M. Berezanskiy, Doctor of physical-mathematical sciences, for discussions. ✓

There are 7 references : 5 Soviet and 2 American.

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On the Reversion Problem for the Equations of Quantum Mechanics

$$(7) \quad \lim_{\alpha > 0, \alpha \rightarrow \infty} f(i\alpha, \vec{r}) = -\frac{\lambda}{4\pi} \int e^{i\vec{r} \cdot \vec{x}} v(\vec{x}) d\vec{x}$$

following from (Ref. 4) is not correct.

This difficulty does not appear for the relativistic equation of quantum mechanics. The author considers the reversion problem for the equation of Klein-Gordon which describes the scattering of the particles with the spin zero. Let

$$(8) \quad (\Delta + k^2)\psi(\vec{x}) = (2\lambda EV(\vec{x}) - \lambda^2 V^2(\vec{x}))\psi(\vec{x}),$$

where

$$(9) \quad E = \pm \sqrt{k^2 + m^2}$$

and m is the mass of the particle. It is assumed that the potentials $V(\vec{x})$ in zero have at most the singularity $\frac{1}{|\vec{x}|}$, are either finite or spherically symmetrical, and decrease at least as $e^{-|\vec{x}|^2}$. For the scattering matrix $T(k, \vec{r})$ which distinguishes from the scattering amplitude only by the

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S/041/60/012/001/004/007
C111/C222AUTHOR: Mal'chenko, V.I.

TITLE: On the Reversion Problem for the Equations of Quantum Mechanics

PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1960, Vol. 12,
No. 1, pp 93 - 96TEXT: The scattering of non-relativistic quantum mechanical particles by an external scalar field $V(\vec{x})$ independent of the time is described by

$$(1) \quad (\Delta + k^2)\psi(\vec{x}) = \lambda V(\vec{x})\psi(\vec{x}) .$$

(1) describes the scattering exact so long till there appear relativistic effects. Therefore the amplitude of the scattering $f(k, \tau)$ gives a correct description only in a bounded region of the energy k^2 . Therefore the determination of the potential $V(\vec{x})$ according to the formula

$$(6) \quad \lim_{k \rightarrow \infty} f(k, \tau) = - \frac{\lambda}{4\pi} \int e^{i\vec{\tau} \cdot \vec{x}} V(\vec{x}) d\vec{x} .$$

of L.D. Faddeyev (Ref. 3) and according to the formula
Card 1/4

Dispersion Relationships for the Scattering of
Spinless Relativistic Particles by an External
Scalar Field

SOV/41-11-3-4/16

The author thanks the corresponding member of the AS Ukr.SSR
O.S.Parasyuk for advices and the Doctor of physical-mathematical
sciences Yu.M.Berezanskiy for discussions.
There is 1 figure, and 4 references, 1 of which is Soviet,
and 3 American.

SUBMITTED: December 31, 1958

Card 2/2

16(1), 16(2)

AUTHOR:

Mal'chenko, V. I.

SOV/41-11-3-4/16

TITLE:

Dispersion Relationships for the Scattering of Spinless
Relativistic Particles by an External Scalar FieldPERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 3,
pp 256-266 (USSR)

ABSTRACT:

Starting from the equation of Klein-Gordon for a free particle the author considers the scattering by a scalar spherosymmetric potential. After some transformings from the initial equation the author obtains an integral equation which was already considered by Povzner [Ref 3]. For the kernel and the resolvent of this equation the author obtains certain estimations. The matrix of scattering is established. If it is considered as a function of the energy and momentum of transfer, then, under certain conditions, it is analytical in the complex energy plane for a real momentum of transfer. In the usual manner the author obtains the dispersion relations.

Card 1/2

MAL'CHENKO, V.I.

Determining the radius of a meson-nucleon interaction. *Ukr.fiz.*
zhur. 4 no.4:432-437 J1-Ag '59. (MIRA 13:4)

1. Dnepropetrovskiy gosudarstvennyy universitet.
(Mesons) (Nucleons)

D'YAKONOVA, V.S., inzh.; SAKHAROV, A.A., inzh.; MAL'CHENKO, T.V., inzh.;
MEL'NIKOV, O.A., inzh.; SIVTSOV, G.V., inzh.; IONTS, Ye.P., inzh.

Technology of the production, and properties of 17GS steel for
welded gas and oil pipelines. Stal' 25 no.8:740-744 Ag '65.
(KIPRA 1838)

1. Cherepovetskiy metallurgicheskiy zavod.

SAKHAROV, A.A., inzh.; MAL'CHENKO, T.V., inzh.; MORRUSHIN, K.V., inzh.;
DUBOV, B.G., inzh.; BABICH, L.S., inzh.

Improving the construction of high-capacity open-hearth furnaces
of the Cherepovets metallurgical plant. Stal' 25 no.8:694-697 Ag
'65. (MIRA 18:8)

GREEN', K.A.; KUDRYAVAYA, N.A.; MAL'CHENKO, T.V.; AGARKOV, Ye.Ye.

New method of using compressed air in open-hearth practice.

Stal' 22 no.11:997-999 N '62.

(Open-hearth process) (Compressed air)

(MIRA 15:11)

MAL'CHENKO, P.

Long-term coal storage in conditions prevailing in Central Asia.
Izv.AN Kazakh.SSR.Ser.khim.no.9:115-120 '56. (MIRA 9:7)
(Soviet Central Asia--Coal--Storage)

NIKIFOROVA, L.; MAICHENKO, M.

Monuments of unforgettable years. Nauka i zhizn' 29 no.6:34-36
Je '62. (MIRA 15:10)

1. Nauchnyye sotrudniki Gosudarstvennyy ermitazha, Leningrad.
(Russia—Invasion of 1812) (Art objects)

L 29882-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD
ACC NR: AR6005812 SOURCE CODE: UR/0137/65/000/010/K006/K006

AUTHOR: Sysh, V. Ya.; Mal'tsev, V. F.; Mal'chenko, L. P.

TITLE: Methods of hydrogen determination in titanium-alloy products

SOURCE: Ref. zh. Metallurgiya, Abs. 10K35

REF SOURCE: Sb. Proiz-vo trub. Vyp. 15. M., Metallurgiya, 1965, 135-136

TOPIC TAGS: titanium alloy, hydrogen, vacuum melting, hydrogen determination

ABSTRACT: Data have been compared concerning the H determination in Ti alloys by the vacuum-heat method at 1300C and by the vacuum-melting method at 1700C. The results obtained by the two methods differ only slightly. It was shown that pickling of samples does not lead to significant saturation of titanium with hydrogen. V. Romanova. [Translation of abstract.] [NT]

SUB CODE: 11/ SUBM DATE: none/

Card 1/1

UDC: 669.788:543.27

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B

MAL'CHENKO, L. V.

"The Blood Picture During Rheumatism in Children and Changes in It Due to the Effect of Mud Therapy." Cand Med Sci, Odessa Medical Inst, Odessa, 1954. (RZhBiol, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

MAL'CHENKO, G.A., kand.med.nauk

Changes in the balance of vitamin B₁ in children in diseases
of the biliary tract. *Pediatrics* no. 10:37-40 '61. (MIRA 14:9)

1. Iz kafedry pediatrii I (zav. - dotsent D.L. Sigalov) Kiyevskogo
instituta usovershenstvovaniya vrachey (dir. - dotsent M.N.
Umovist).

(BILIARY TRACT--DISEASES)

(THIAMINE)

MAL'CHENKO, G. ^A

Vitamin B₁ metabolism in young children with acute nutritional disorders under compound therapy. Ped., akush. i gin. 20 no.4:31-35 '58. (MIRA 13:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut materinstva i detstva im. Geroya Sovetskogo Soyuza prof. P.M. Buyko (direktor - zasluzhennyy vrach USSR M.D. Burova). (THIAMINE)

MAL'CHENKO, G. A., Cand Med Sci -- (diss) "Metabolism of Vitamin B₁ in
children of early age with acute nutritional disturbances ⁱⁿ ~~during~~ their
complex treatment." ^{KIEV} ~~Kiev~~, 1958. 12 pp (^{KIEV} ~~Kiev~~ Order of Labor Red
Banner Med Inst im Academician A. A. Bogomolets) ~~in~~, 200 copies (KL, 17-53,
112)

USSR / Human and Animal Physiology (Normal and Pathological).
Metabolism.

T-3

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 60068

toxic dyspepsia, and within a short time (5 - 6 days)
there was an improvement in B₁ metabolism, as well as in
the child's general condition. Normal B₁ metabolism was
re-established after clinical recovery. -- L. A.
Kashchevskaya

Card 2/2

24

USSR / Human and Animal Physiology (Normal and Pathological).
Metabolism.

T-3

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 60068

Author : Mal'chonko, G. A.

Inst : Not given

Title : Vitamin B₁ Metabolism in Children of Early Age with
Severe Nutritional Disturbances

Orig Pub : Podiatriya, 1957, No 7, 93-96

Abstract : In the majority of 98 children in the ages of three months to 2½ years with severe alimentary impairments of different etiology, a considerable disturbance in vitamin B₁ metabolism was observed. The degree of B₁ deficiency was more pronounced in serious and prolonged diseases. The most effective dose of vitamin B₁ proved to be the intramuscular administration of 25 mg. of B₁. This proved to be effective in cases of simple, and

Card 1/2

GUBIN, N.I.; ZAGAYEVSKIY, Yu.L.; KAZAKOV, L.M.; LEVKON, A.I.; LEVCHENKO, A.I.;
MAL'CHENKO, E.Yu.; KAZAKOV, L.M.; POTAPENKO, G.D.

Overall mechanization and automation of mines in the Tula-ugol'
Combine. Ugol' 40 no.2:1-5 F '65. (MIRA 18:4)

1. Shakhta No.38 (tresta Novomoskovskugol' for Gubin).
2. Trest Krasnoarmeyskugol' (for Zagayevskiy).
3. Kombinat Tulaugol' (for Kazakov).
4. Shakhta No.2 "Bibikovskaya" tresta Uzlovskugol' (for Levkov).
5. Shakhta No.13 tresta Shchekinugol' (for Levchenko).
6. Shakhta No.2 "Zubovskaya" tresta Krasnoarmeyskugol' (for Mal'chenko).
7. Trest Novomoskovskugol' (for Potapenko).

MAL'CHENKO, A.S.

Muscular age-related changes in lambs of southern Kazakh merino sheep of the Aral Sea region type. Trudy Inst. eksp. biol. AN Kazakh. SSR. 1:61-67 '64.

Muscular age-related changes in Kazakh fine-wool sheep. Ibid.:118-123

Weight growth of the skeletal muscles of lambs of argali Merino sheep. Ibid.:154-159 (MIRA 18#4)

VELIKAYA, Yelizaveta Ivanovna; SUKHODOL, Viktoriya Fominichna;
TOMASHEVICH, Vladimir Konstantinovich. SMIRNOV, V.A.,
prof., rezensent; MALCHENKO, A.L., prof., rezensent;
FERTMAN, G.I., prof., rezensent; VOYKOVA, A.A., red.

[General methods of control in fermentation industries]
Obshchie metody kontrolya brodil'nykh proizvodstv. Mo-
skva, Pishchevaia promyshlennost', 1964. 273 p.
(MIRA 17:9)

MALCHENKO, A.L.; AGANESOVA, L.N.; MELENT'YEVA, G.F.

Evaporation of fermentation solutions in vacuum evaporating units. Fern. i spirt. prom. 31 no.7:5-7 '65. (MIRA 18:11)

1. Vsesoyuznyy zaochnyy institut pishchevoy promyshlennosti (for Malchenko). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut fermentnoy i spirtovoy promyshlennosti (for Aganesova, Melent'yeva).

VERZHBITSKAYA, V.A.; MALCHENKO, A.I.

Effect of the pectin substances of sugar beets on the viscosity
of the prepared mash. Fern. i spirt. prom. 31 no.6:7-10 165.
(MIRA 18:9)

1. Vsesoyuznyy zaochnyy institut pishchevoy promyshlennosti.

AGANESOVA, L.N.; MALCHENKO, A.L.

Study of the heat conductivity of fermentative solutions.
Ferm.i spirit.prom. 31 no.1:17-21 '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fermentnoy i
spirtovoy promyshlennosti (for Aganesova). 2. Vsesoyuznyy
zaochnyy institut pishchevoy promyshlennosti (for Malchenko).

MALCHENKO, A.L.; PYKHOVA, S.V.

Studying the process of yeast propagation in the continuous method of fermentation. *Ferm. i spirt. prom.* 30 no.3:7-11 '64. (MIRA 18:2)

1. Vsesoyuznyy zaobnyy institut pishchevoy promyshlennosti (for Malchenko). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut fermentnoy i spirtovoy promyshlennosti (for Pyklova).

PLEVAKO, Yekaterina Arkad'yevna; BAKUSHINSKAYA, Ol'ga Anatol'yevna;
MALCHENKO, A.L., prof., retsenzent; USTINOVA, A.D., inzh.,
retsenzent; MOROZOVA, I.A., red.

[Microbiological and chemical technological control of
yeast production] Mikrobiologicheskii i khimiko-tekhnolo-
gicheskii kontrol' drozhzhevogo proizvodstva. Moskva, Pi-
shchevaia promyshlennost', 1964. 269 p. (MIRA 18:2)

MALCHENKO, A.L.

Review and bibliography. Fern. i spirt. prom. 30 no.1:41-43 '64.
(MIRA 17:11)

AGANESOVA, L.N.; MALCHENKO, A.L.

Surface tension of ferment solutions. *Ferm. i spirt. prom.* 30
no.1:6-7 '64.

(MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fermentnoy i
spirtovoy promyshlennosti (for Aganesova). 2. Vsesoyuznyy zaachnyy
institut pishchevoy promyshlennosti (for Malchenko).

MALCHENKO, A.L.; KRISHTUL, F.B.; MAKSIMOVA, Ye.A.; PAL'GOVA, A.S.

Increasing the yield of bakers' yeast in the production of alcohol from molasses. Spirt. prom. 29 no.8:4-6 '63.
(MIRA 17:2)

1. Vsesoyuznyy zaachnyy institut pishchevoy promyshlennosti (for Malchenko). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut fermentnoy i spirtovoy promyshlennosti (for Krishtul, Maksimova, Pal'gova).

MALCHENKO, A.L.; AGANESOVA, L.N.

Viscosity and density of enzyme solutions. Spirt. prom. 29
no.7:1-5 '63. (MIRA 16:12)

1. Vsesoyuznyy zaochnyy tekhnologicheskyy institut pishchevoy
promyshlennosti (for Malchenko). 2. Vsesoyuznyy nauchno-issledo-
vatel'skiy institut fermentnoy i spirtovoy promyshlennosti (for
Aganesova).

KRISHTUL, F.B.; MALCHENKO, A.L.; GROMOVICH, V.F.; RODIONOVA, Ye.A.;
GOLODOVSKAYA, A.I.; BANDURINA, Ye.Ya.

Production of yeast feeds from the vinasse of distilleries
processing sugar beet molasses. Trudy TSNIISP no.12:51-63
'62. (MIRA 17:3)

MALCHENKO, A.L.

Efficient flow sheet for the processing of molasses in the
distilling industry. Trudy UkrNIISP no.5:77-87 '59.

(MIRA 16:11)

KHERSONOVA, L.A.; MALCHENKO, A.L., prof., rukovoditel' raboty

Determining the activity of pectin splitting enzyme preparations.
Spir. prom. 29 no.7:15-18 '63. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut fermentnoy i
spirtovoy promyshlennosti.

KOROLEV, Dmitriy Amosovich; CHEKAN, Lev Ivanovich; DENSHCHIKOV,
Mikhail Tikhonovich; ZAZIPNAYA, M.V., retsenzent; URUSHADZE,
M.G., retsenzent; MALCHENKO, A.L., prof., spetsred.;
KOVALEVSKAYA, A.I., red.; SOKOLOVA, I.A., tekhn. red.

[Technology of the production of soft drinks] Tekhnologiya bez-
alkogol'nykh napitkov. Moskva, Pishchepromizdat, 1962. 514 p.
(MIRA 15:11)

(Soft drinks)

TIL'GNER, D.Ye. [Tilgner, Damazy Jerzy], associate prof.; ZAYAS, Yu.K. [Zajac, J., translator]; MALCHENKO, A.L., doktor tekhn. nauk, zasl. deyatel' nauki i tekhniki RSFSR, red.; BZHEZINSKIY, Khipolit [Brzezinski, Hipolit], inzh., nauchnyy red.; VOYKOVA, A.A., red.; KISINA, Ye.I., tekhn. red.

[Organoleptic analysis of food products] Organolepticheskiy analiz pishchevykh produktov. Pod red. A.L. Malchenko, Moskva, Pishchepromizdat, 1962. 387 p. (MIRA 16:5)

1. Danzig Technical College (for Til'gner). (Food--Analysis)

MALCHENKO, A.L.; POLUYANOVA, M.T.

Processing of sirup mixed with grain. Spirt.prom. 27
no.4:8-11 '61. (MIRA 14:6)

(Alcohol)
(Fermentation)

VERZHBITSKAYA, V.A.; MALCHENKO, A.L.

Heating of grain. Spirt.prom. 26 no.7:6-8 '60.
(Grain)

(MIRA 13:10)

MAICHENKO, A.L., Prof.; YAKOVENKO, A.Z.

Production of glutamic acid and sodium glutamate. Zhur. V KHO
5 no.4:403-410 '60. (MIRA 13:12)

(Glutamic acid)

ASHKINUZI, Zus' Kivovich; MAMUNYA, Anton Ustinovich; SEMERNYA, Vladimir
Mikhsylovich; YANOVSKIY, Vitaliy Sergeyeovich; MALCHENKO, A.L.,
doktor tekhn. nauk, prof., spets red.; FUKS, B.K., red.; PERE-
DERII, S.P., tekhn. red.

[Continuous rapid cooking of starchy raw materials in the distilling
industry] Nepreryvnoe skorostnoe razvarivanie krakmalistogo syr'ia v
spirtovom proizvodstve. Moskva, Pishchepromizdat, 1960. 54 p.
(MIRA 14:10)

(Distillation)

MALCHENKO, A.L.

Continuous cooking of raw materials. Spirt. prom. 25 no.7:7-11
'59. (MIRA 13:2)

(Alcohol)

MALCHENKO, A.I.

Using dry materials from molasses during its processing into
alcohol. Spirt. prom. 25 no.5:14-17 '59. (MIRA 12:10)
(Molasses)

Continuous Fermentation and Breeding of Microorganisms SOV/50-59-2-AR/60

of the starchy raw material and syrup in the alcohol and acetone-butanol industry.

S. A. Kononov, All-Union Scientific Research Institute of the Alcohol, Liqueur and Brandy Industry reported on the problem of antiseptics in fighting infection due to ferments.

L. Yu. Madvinskaya, Institut mikrobiologii Akademii nauk USSR (Microbiological Institute of the AS USSR) reported on the investigation of the morphological and physiological properties of yeast.

A. D. Kovalenko, Andrushevskiy spirtovoy savod (Andrushevka Distillery), N. Ya. Saychanko, Malo-Viskovskiy spirtovoy savod (Malo-Viskovskiy Alcohol-Distillery), S. R. Makarova, Smolenskiy Sovnarkhoz (Smolensk Sovnarkhoz) reported on some working results obtained by distilleries in the syrup fermentation by using the method of continuous flow.

M. S. Loytayanakaya, Leningradskiy universitet (Leningrad University) characterized the correlation of reproduction processes and biochemical activity of acetic acid bacteria in the high-speed production of vinegar.

M. M. Meronova, Microbiological Institute of the AS USSR spoke of the possibility of obtaining vitamin B₁₂ by continuous breeding of propionic acid bacteria (propionovokislitsya bakterii). B. L. Brinberg, O. Z. Grabovskaya, Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov (All-Union Scientific Research Institute of Antibiotics) reported on the application of this method in the production of penicillin.

V. V. Vyatkins, All-Union Scientific Research Institute of the Spirit, Liqueur, and Brandy Industry showed that the method of semi-continuous breeding of the fungus *Aspergillus niger* accelerates fermentation. B. V. Perfil'yev, Leningrad University reported on the results of investigations of the natural microflora by the method of capillary microscopy which he had developed.

V. A. Korzun, Kiev University demonstrated his new batcher for continuous breeding of microorganisms in laboratory practice.

J. Minik and J. Ridica (Czechoslovakia) expressed their opinions on the methods of continuous breeding of microorganisms.

On this Conference it was pointed to the necessity of organizing the industrial production of cultures for continuous fermentation.

MALCHENKO, A.L.

AUTHOR: Alferov, V. V. DOK/50-57-2-48/60
TITLE: Continuous Fermentation and Breeding of Microorganisms
 (Nepryeryvnoye brosheniye i vyrashchivaniye mikroorganizmov)
PERIODICAL: Vestnik Akademii nauk SSSR, 1959, Nr 2, pp 106-100 (USSR)
ABSTRACT: The Institut mikrobiologii Akademii nauk SSSR (Microbiological
 Institute of the Academy of Sciences, USSR) convened a
 conference from October 13 to 15, 1958 which dealt with the
 investigation of some working results in this field as well as
 with the discussion of a further intensification of the
 productions basing on the activity of microorganisms. The
 conference was attended by more than 200 representatives of
 academic and scientific branch research institutes, enterprises,
 sovmarkhoses, universities, as well as foreign scientists. The
 following lectures were heard:
 N. D. Iyerusalimskiy spoke of the theoretical foundation of the
 method of continuous microbe breeding and its prospects of
 application in the microbiological industry.
 Ye. A. Plevako, Vsesoyuznyy nauchno-issledovatel'skiy institut
 khlebopekarnoy promyshlennosti (All-Union Scientific Research
 Institute of Bread-Production Industry) dealt with the problem
 of the breeding of yeast in solutions containing molasses.
 P. M. Fisher, K. P. Andreyuk, V. A. Utenkova, M. Ya. Kaluzhnyy
 and A. P. Kryukhova, Vsesoyuznyy nauchno-issledovatel'skiy
 institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti
 (All-Union Scientific Research Institute for the Industry of
 Hydrolysis and Sulfite Sprites) evaluated the theoretical and
 practical work in the field of continuous fermentation of wood
 hydrolysates and sulfite liquor as well as their utilization
 for obtaining fodder yeast.
 V. I. Mazonova, Krasnoyarskiy gidroliznyy zavod (Krasnoyarsk
 Hydrolysis Plant) said that the introduction and completion of
 the continuous process of yeast breeding made it possible to
 increase the output of yeast factories by ten times.
 V. L. Yarmazha, A. L. Malchenko, Vsesoyuznyy nauchno-
 issledovatel'skiy institut spirtovoy i likero-vodochnoy
 promyshlennosti (All-Union Scientific Research Institute of
 the Spirit, Liqueur and Brandy Industry), V. M. Nakhmanovich,
 Doksuhuninskaya nauchno-issledovatel'skaya laboratoriya
 (Dokshuninskaya Scientific Research Laboratory) reported on the
 experiment of applying the method of continuous fermentation

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Card 2/4

OSTROVSKIY, Aleksey Ivanovich, prof.; MALCHENKO, A.L., prof., retsenzent;
AGNIEV, P.M., dotsent, retsenzent; IVANOV, S.Z., dotsent, retsen-
zent; VESKLOV, I.Ya., prof., spetsred.; KRUGLOVA, G.I., red.;
GOTLIB, E.M., tekhn.red.

[General technology of food products] Obshchaia tekhnologiya
pishchevykh veshchestv. Moskva, Pishchepromizdat, 1959. 647 p.
(MIRA 13:2)

(Food industry)

KRISHTUL, F.B.; MALCHENKO, A.L.; SKIRSTYMONSKIY, A.I.; TABACHNIKOVA, R.I.

Improving quality of baker's yeast produced in alcohol plants.
Spir. prom. 24 no.8:4-6 '58. (MIRA 11:12)
(Yeast)

MALCHENKO, A.L.; KRISHTUL, F.B.; SKIRSTYMONSKIY, A.I.

Standard industrial flow sheet for the production of alcohol
from molasses. Spirt. prom. 24 no.1:6-11 '58. (MIRA 11:3)
(Molasses) (Alcohol)

MALCHENKO, A.L.; KRISHTUL, F.B.; SKIRSTYMONSKIY, A.I.; Primala uchastiye:
ZAPUDNOVA, Ye.P., khimik

Using hydrochloric acid in manufacturing alcohol from molasses.
Trudy TSNIISP no.6:49-53 '58. (MIRA 14:12)
(Alcohol) (Hydrochloric acid) (Molasses)

YAROVENKO, Viktor L'vovich; KUZNETSOV, N.M., retsazent; MALCHENKO, A.L.,
spetsred.; KOVALEVSKAYA, A.I., red.; TARASOVA, N.M., tekhn.red.

[Continuous alcohol fermentation] Potochnyi metod spirtovogo
brozheniia. Moskva, Pishchepromizdat, 1958. 127 p. (MIRA 12:4)
(Fermentation)

LOGOTKIN, Ivan Sergeyevich, kand. tekhn. nauk; IYERUSALIMSKIY, N.D., prof.,
doktor biol. nauk, retsenzent; MALINKIN, S.G., inzh., retsenzent;
MALCHENKO, A.L., prof., doktor tekhn. nauk, spetsred.; MASLOVA,
S.F., red.; CHEBYSHEVA, Ye.A., tekhn. red.

[Technology of the manufacture of acetone and butyl alcohol]
Tekhnologiya atsetono-butilovogo proizvodstva. Moskva, Pishche-
promizdat, 1958. 266 p. (MIRA 11:10)
(Acetone) (Butyl alcohol)

MAICHENKO, A.I.

Rapid boiling combined with saccharification and grinding of starchy
raw materials. Spirt. prom. 23 no.5:3-11 '57. (MLRA 10:8)
(Alcohol) (Grain)

ILLEGIBLE

MALCHENKO, A.L.

Alcohol and vodka industry in the Chinese People's Republic.
Spir. prom 22 no.3:12-14 '56. (MLRA 9:11)

(China--Distilling industries)

ILLEGIBLE

ILLEGIBLE

of 22° and an acidity of 0.6°, increase in the concentration of alcohol decreases the activity of LB and L. Up to 5% the effect of alcohol is slight, at 7% it is appreciable, and at 10% terminates proliferation and activity of microorganisms. It is advantageous to raise the alcohol content of yeast to 6%. With increasing amount of yeast of race "Ya" activity of LB and L during fermentation is decreased. The presence of L in the wort does not affect proliferation of yeast of race "Ya." On increase of temperature of fermentation from 27 to 30° growth and acid production of LB and L are activated. On processing molasses for alcohol it is recommended to maintain a high concentration of the wort, a high concentration of alcohol during the initial stages of fermentation and a high content of yeast cells.

Card 2/2

MALCHENKO, A. L.

USSR/Chemical Technology. Chemical Products and Their Application -- Fermentation Industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6473

Author: Malchenko, A. L., Krishtul, F. B., Skirstymonskiy, A. I., Kinzburskaya, F. M.

Institution: All-Union Scientific Research Institute of the Alcohol Industry

Title: Effect of Fermentation Conditions on Microflora Development in the Processing of Sugarbeets Molasses

Original
Publication: Tr. Vses. n.-i. in-ta spirt. prom-sti, 1955, No 5, 71-77

Abstract: Investigations of the effects of concentration and acidity of the wort, alcohol content, amount of yeast inoculum and fermentation temperature, on development and action of wild lactic acid bacteria (LB) and leuconostocs (L). It was found that with increase in the concentration of wort, regardless of its initial acidity, proliferation of LB is reduced and increase in acidity of the wort is inhibited, whereas increase of the initial acidity of the wort reduces somewhat the

Card 1/2

MALCHENKOV, A.L.

KLIMOVSKIY, Dmitriy Nikolayevich, professor; STABNIKOV, Vsevolod Nikolayevich, professor; MALCHENKO, A.L., doktor tekhnicheskikh nauk, redaktor; MASLOVA, Ye.F., redaktor; GOTLIB, E.M., tekhnicheskii redaktor.

[Distilling technology] Tekhnologiya spirita. Izd. 2-oe, perer. i dop. Pod red. A.L.Malchenko Moskva, Pishchepromizdat, 1955. 444 p. (MLRA 9:1)
(Distilling industries)

RAYEV, Z.A.

"Phosphorus nutrition of yeast in the fermentation of molasses
for alcohol." A.L. Malchenko, F.B. Krishtul, A.I. Skirstymon-
skii. Reviewed by Z.A. Raev. Spirt.prom. 21 no.4:39 '55.
(MLRA 9:3)

(Yeast) (Phosphates) (Malchenko, A.L)

AL-HENK D. A.

The continuous operation and the fermentation of the mash in a grain-hay alcohol plant. A. L. Malchuk. *Stroitel'stvo*, 1957, No. 6, p. 10 (1957). A general discussion, showing drawings and photographs of the equipment used. Photomicrographs of the mashes after various times and a viscosity-time of sterilization diagram for mashes and a table of the acetone yield.

Werner Jacobson

MALCOCKNAAL

The utilization of vinasse from alcohol factories which use beet-sugar molasses as raw material. A. D. Malchenko, P. B. Kholodil and A. I. Bekturovskii (USSR) Zhurnal Khim. Fiz. 31, No. 1, 6-11 (1955) — (Lokhvitskii) *Sovetskaya Fizika* 31, No. 1, 6-11 (1955) —

Vinasse (sugar wash) is utilized in that it is first neutralized, then freed from $CaSO_4$ by the reaction $CaSO_4 + Na_2CO_3 = CaCO_3 + Na_2SO_4$, the $CaCO_3$ being filtered off. Thereafter it is evaporated, still it contains 78% solids, and then the glycerol is distilled off in vacuo, with the residue a vinasse with 60% solids; this latter is distilled to 70% solids and burnt in thin layers (suitable apparatus presented as drawings). The heat of combustion is utilized and a salt melt is obtained as AM , in amount 800-700. The salt is caught by aid of electrofilters and has approx. the following composition: K_2CO_3 42-4, Na_2CO_3 20-4, K_2SO_4 12-14, KCl 12-14, K_2PO_4 0.5-1.5, water insol. 0.3%. If the alkali found is expressed as K_2CO_3 , this ash contains 60-70% thereof. Thus 1 long ton of the 78% solids vinasse furnishes 70 kg. of the salt melt.

Werner Jaschinski

②

ILLEGIBLE

MALCHENKO, A.L.; CHISTYAKOV, V.P.; CHUSOV, V.G.

Malt crushers of new design. Spirt.prom. 20 no.3:8-14'54. (MLRA 7:10)
(Grain milling machinery)

BULGAKOV, N.; MALCHENKO, A.L., doktor tekhnicheskikh nauk; redaktor;
KRUGLOVA, G.I., redaktor; DUBOVKINA, N.A., tekhnicheskii redaktor

[Chemistry of beer brewing] Khimii pivovarenii. Moskva, Pishche-
promizdat, 1954. 354 p. (MLRA 8:7)
(Brewing)

MALCHENKO, A. L.

FUKS, A. A., A. L. MALCHENKO, G. I. FERTMANOM.

Tekhnologiya Spirtovogo Proizvodstva. (Technology of Spirit
Production) Posmertnoye Izd. Moskva, Pishchepromizdat, 1951 583 P.
Illus., Tables, Diagr. "Literatura": P. 573

So: N/5
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MALCHENKO, A.I.; CHISTYAKOV, M.P.

Fermentation in a continuous production of alcohol. Patent U.S.S.R. 77,813,
Dec. 31, 1949.
(CA 47 no.21:11654 '53)

MALCHENKO, A. L.

Sivopal, I. K., Malchenko, A. L. and Fertman, G. I.
"From the history of the development of the Russian alcohol industry
technique," *Vkusovaya prom-st' SSSR*, No. 1, 1948, p. 7-13

SO: U-3264, 10 April 1953, (*Istoria Zhurnal 'nykh Stroy*, No. 3, 1949)

CA

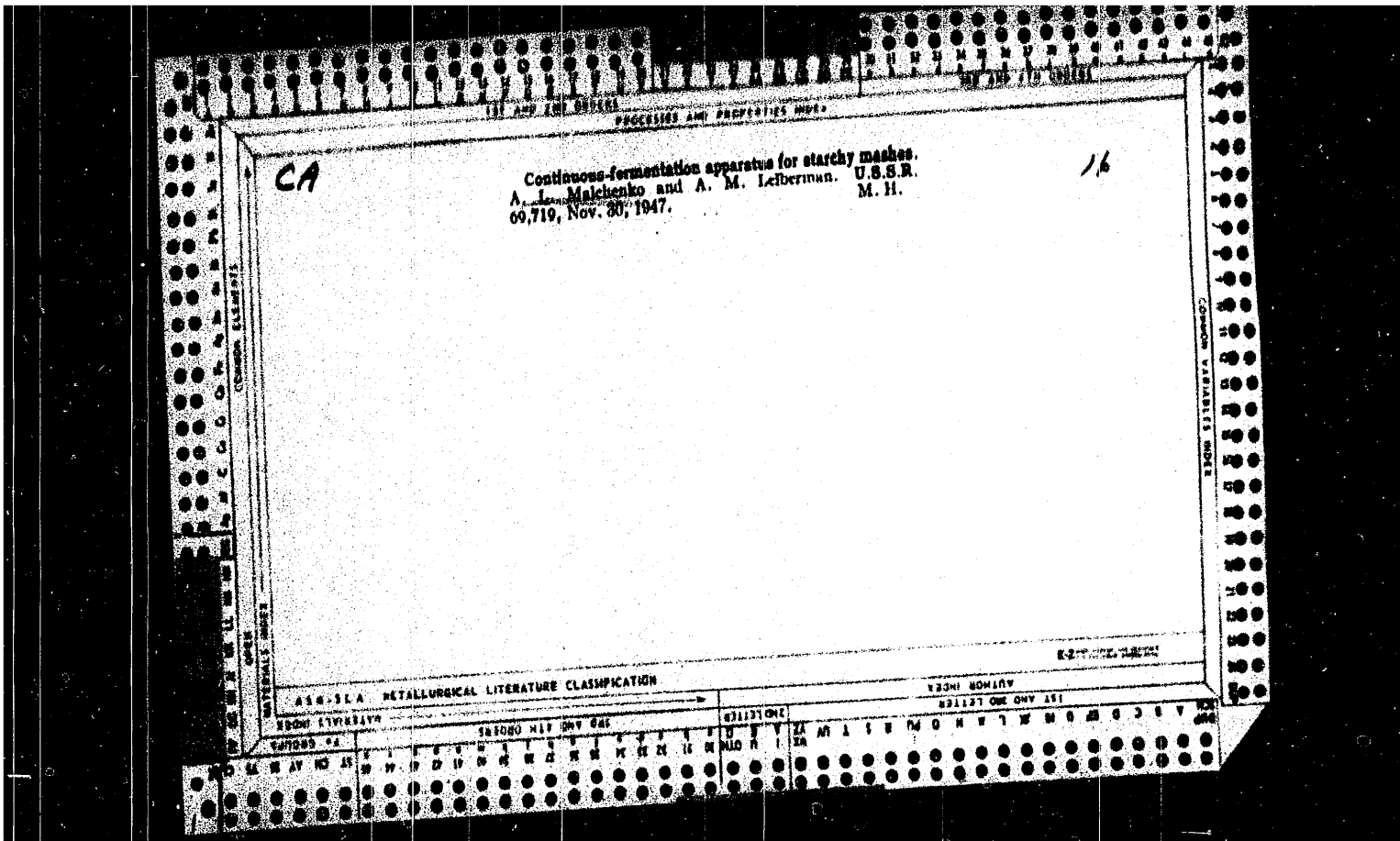
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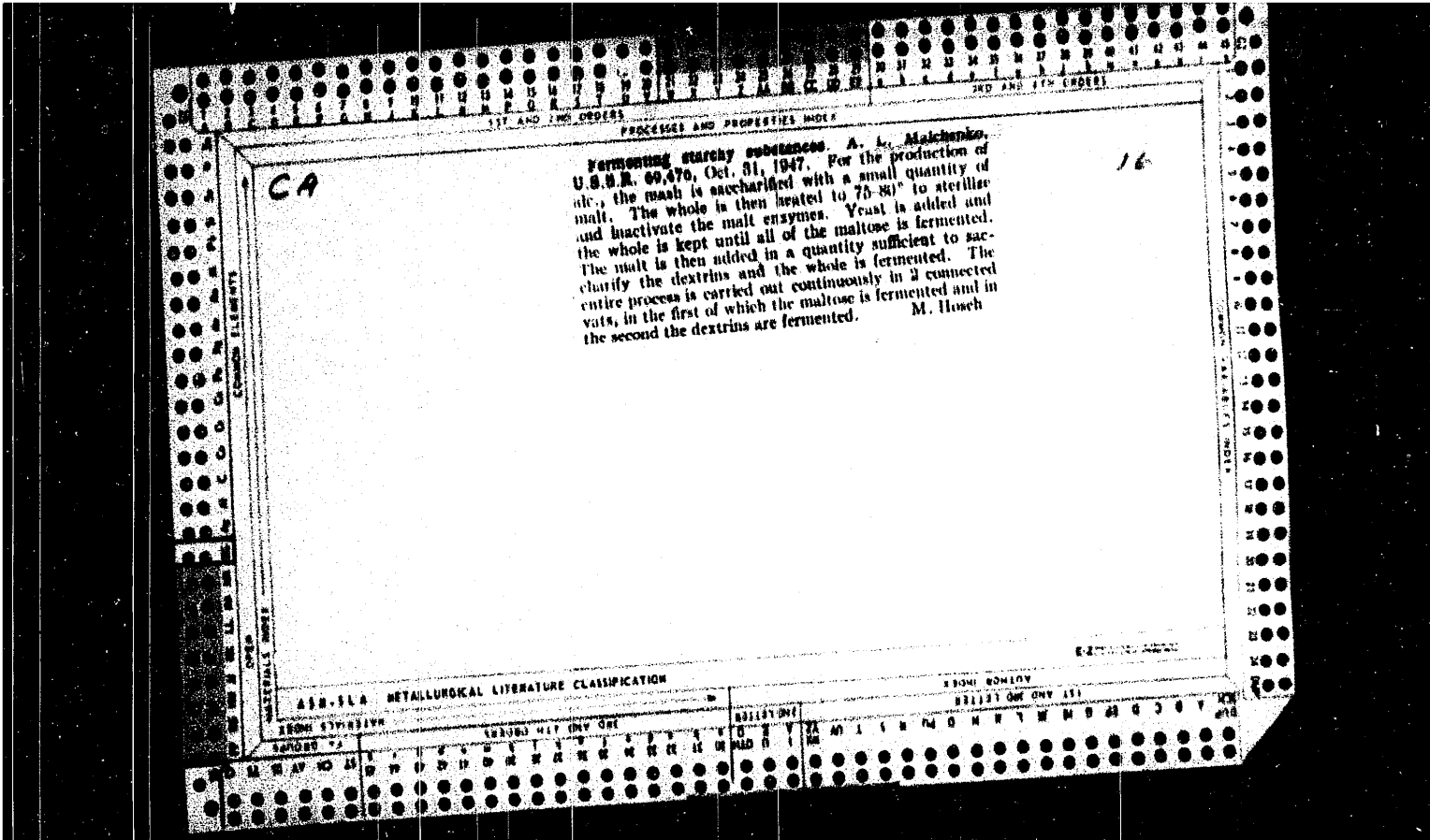
Wort distillation apparatus. A. L. Malchenko, M. P. Chistyakov, and A. G. Kyuneman. U.S.S.R. 69,992, Dec. 31, 1947. The app. is a column divided into 2 parts of which one serves for fermentation and the other for rectification. The H₂O condensate from the rectification column is directed to a special sep. column. The alc. vapors from the latter are returned to the rectification column. M. Hosh

CA

16

Continuous mashing and fermentation of starchy materials. A. L. Malchenko. U.S.S.R. 69,876, Dec. 31, 1947. The processes are carried out in tubular coils. The fermentation is carried out under pressure of CO_2 evolved in the process. The CO_2 is also used for stirring the liquid.
M. Hosh





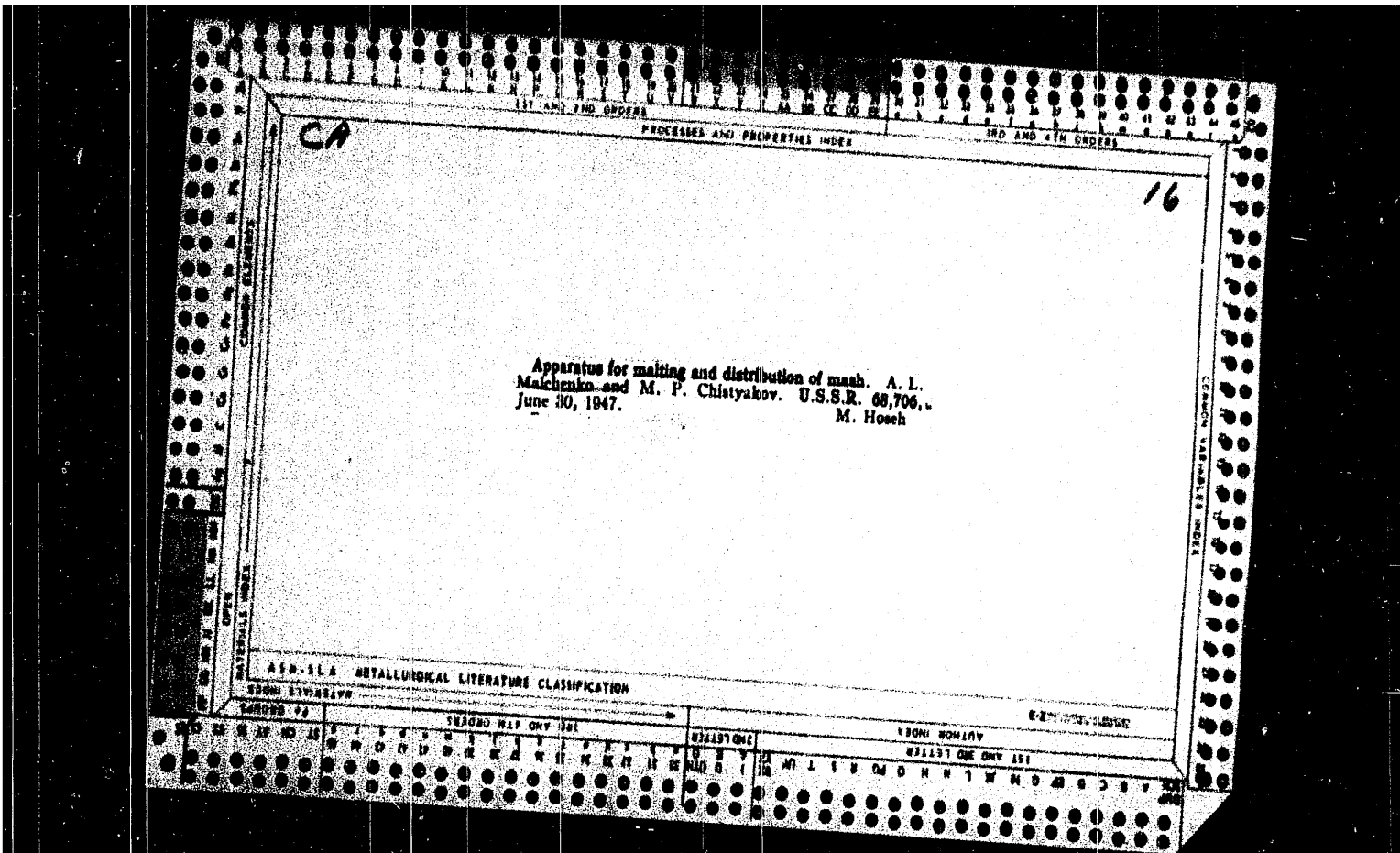
1ST AND 2ND ORDERS													3RD AND 4TH ORDERS												
PROCESSES AND PROPERTIES INDEX																									
CA		Mash-distillation apparatus. A. J. Malchenko; M. P. Chistyakov, and A. G. Kyneman. U.S.S.R. 69,434. Oct. 31, 1947.																				16			
ASB-554 METALLURGICAL LITERATURE CLASSIFICATION																									
LITERATURE INDEX																									
LITERATURE INDEX																									

1ST AND 4TH COLS		1ST AND 4TH COLS	
PROCESS AND PROPERTIES DATA			
1ST AND 4TH COLS		1ST AND 4TH COLS	
16			
CA			
<p>Continuous cooking and saccharification of ground mash for distillation. A. L. Malchenko and M. P. Chistyakov. U.S.S.R. 69,190, August 31, 1947. The raw material is mixed with a part of the mash contg. diastase and the further cooking is carried out gradually until the temp. reaches 105°. M. Hosh</p>			
METALLURGICAL LITERATURE CLASSIFICATION		AUTHOR INDEX	
1ST AND 4TH COLS		1ST AND 4TH COLS	

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
COMMON ELEMENTS										PROCESS AND PROPERTIES INDEX									
MATERIALS INDEX										AUTHOR INDEX									
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION										28									
MATERIALS INDEX										MATERIALS INDEX									
1ST AND 2ND ORDERS										1ST AND 2ND ORDERS									
3RD AND 4TH ORDERS										3RD AND 4TH ORDERS									
COMMON ELEMENTS										COMMON ELEMENTS									
MATERIALS INDEX										MATERIALS INDEX									
AUTHOR INDEX										AUTHOR INDEX									

CA

Apparatus for cooking and transferring of starchy and similar materials. A. L. Malchenko and M. P. Chistyakov. U.S.S.R. 69,818, July 31, 1947. The app. is suitable for cooking of starchy raw materials, for the prepn. of ale. and maltose syrup and similar products. M. Hosh



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1ST AND 2ND CROSS

PROCESSES AND PROPERTIES INDEX

27

ca

Oil from vegetable oil-bearing raw material. A. I. Malchenko, V. B. Fremel, V. V. Vyatkin, and I. S. Lagotkin. U.S.S.R. 68,433, May 31, 1947. To obtain oil from oil-bearing vegetable matter which is subjected to fermentation, e.g., in the production of ale., the oil is sept. from the slops or vinasse. M. Hosh

COMMON ELEMENTS

OPEN MATERIALS INDEX

ASTM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND LETTER

3RD AND 4TH CROSS

3RD AND 4TH LETTER

5TH AND 6TH CROSS

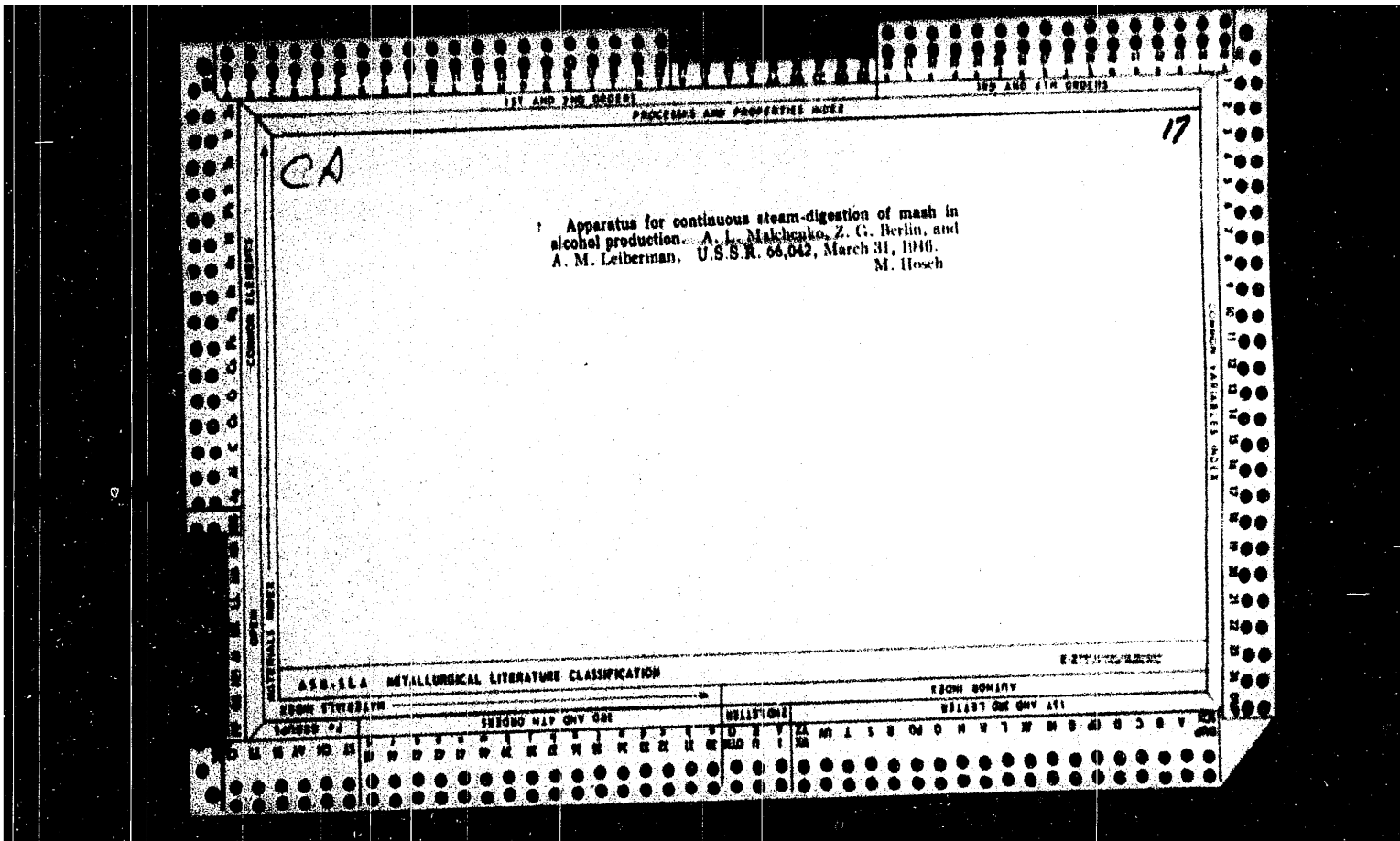
5TH AND 6TH LETTER

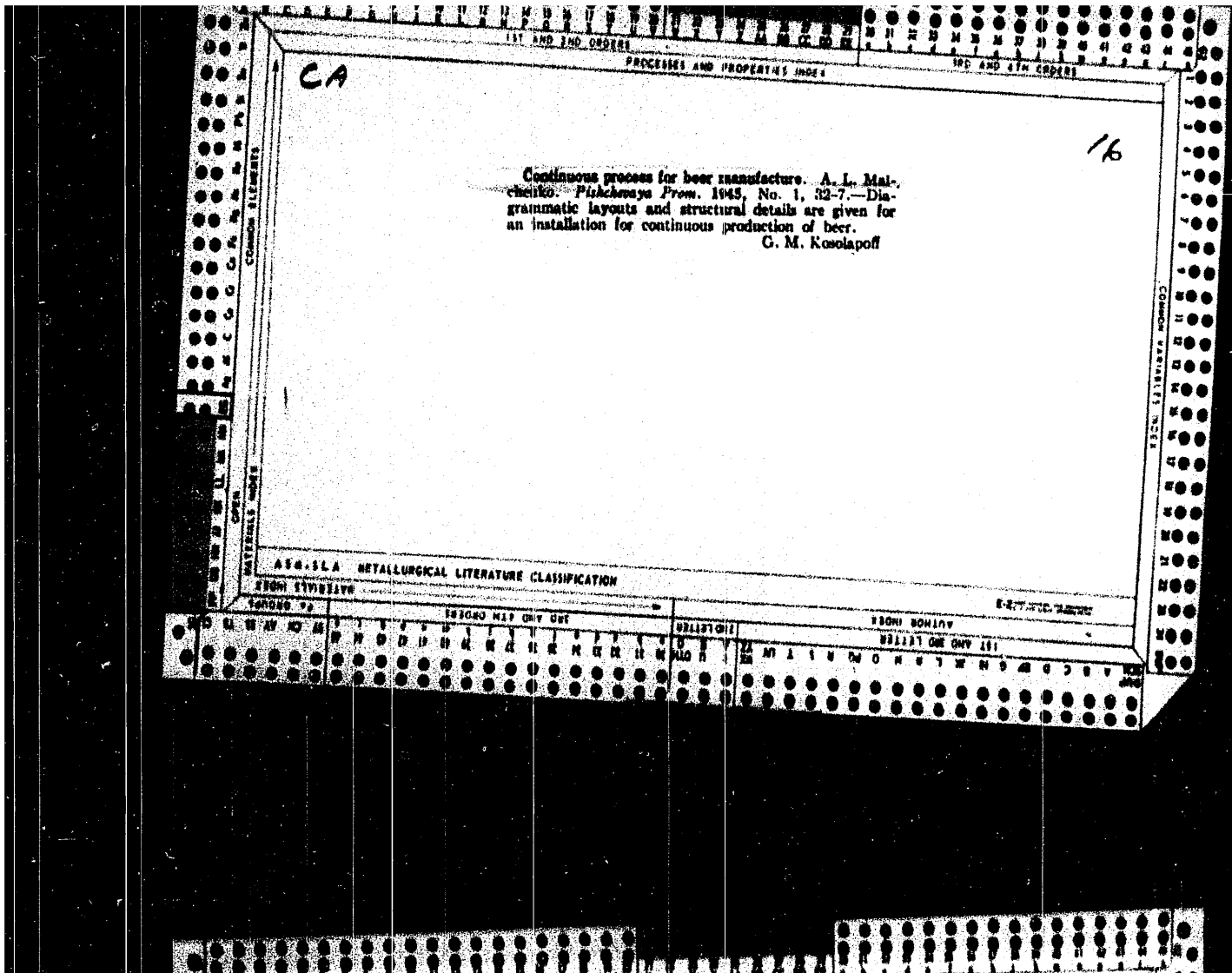
7TH AND 8TH CROSS

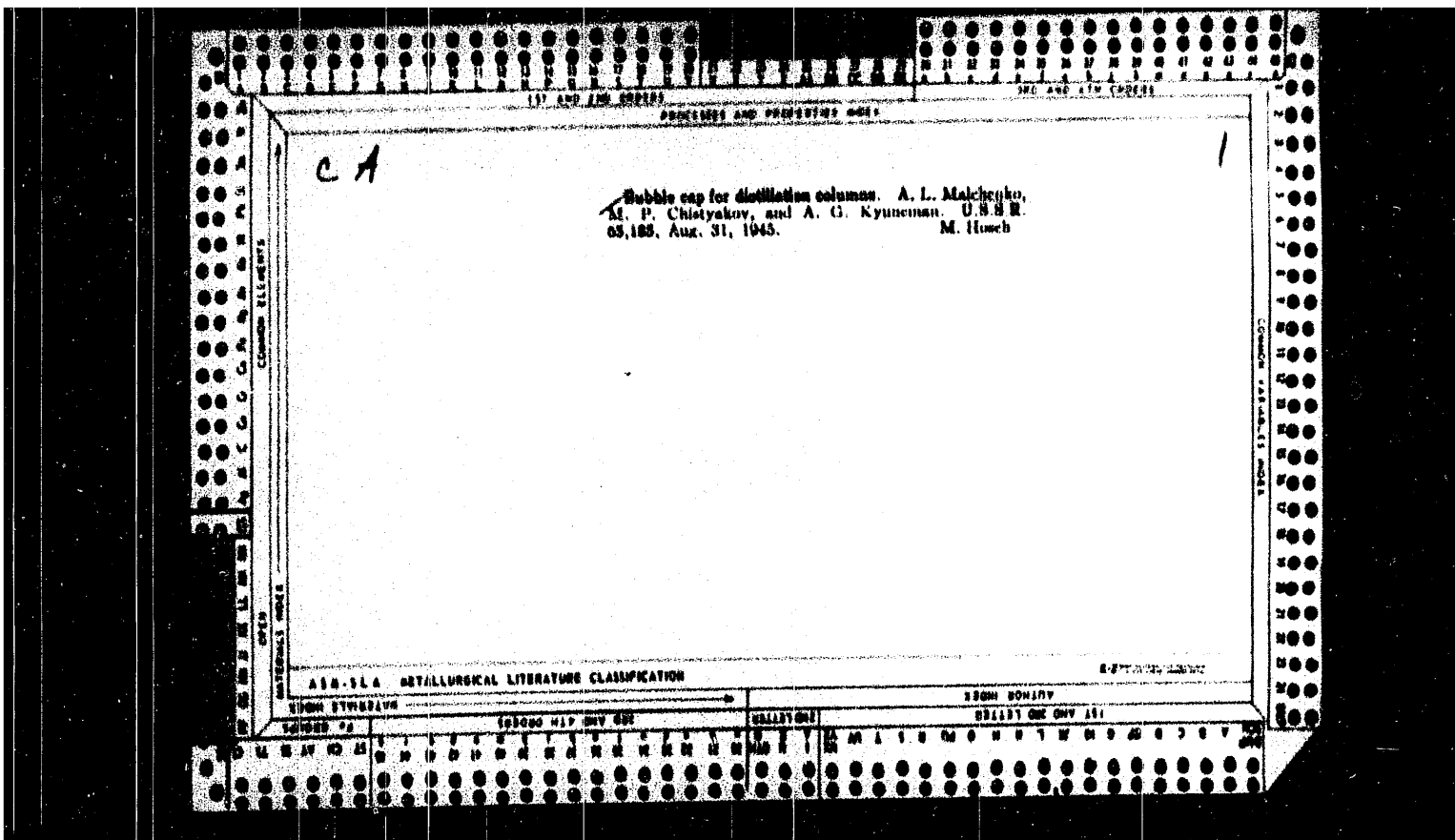
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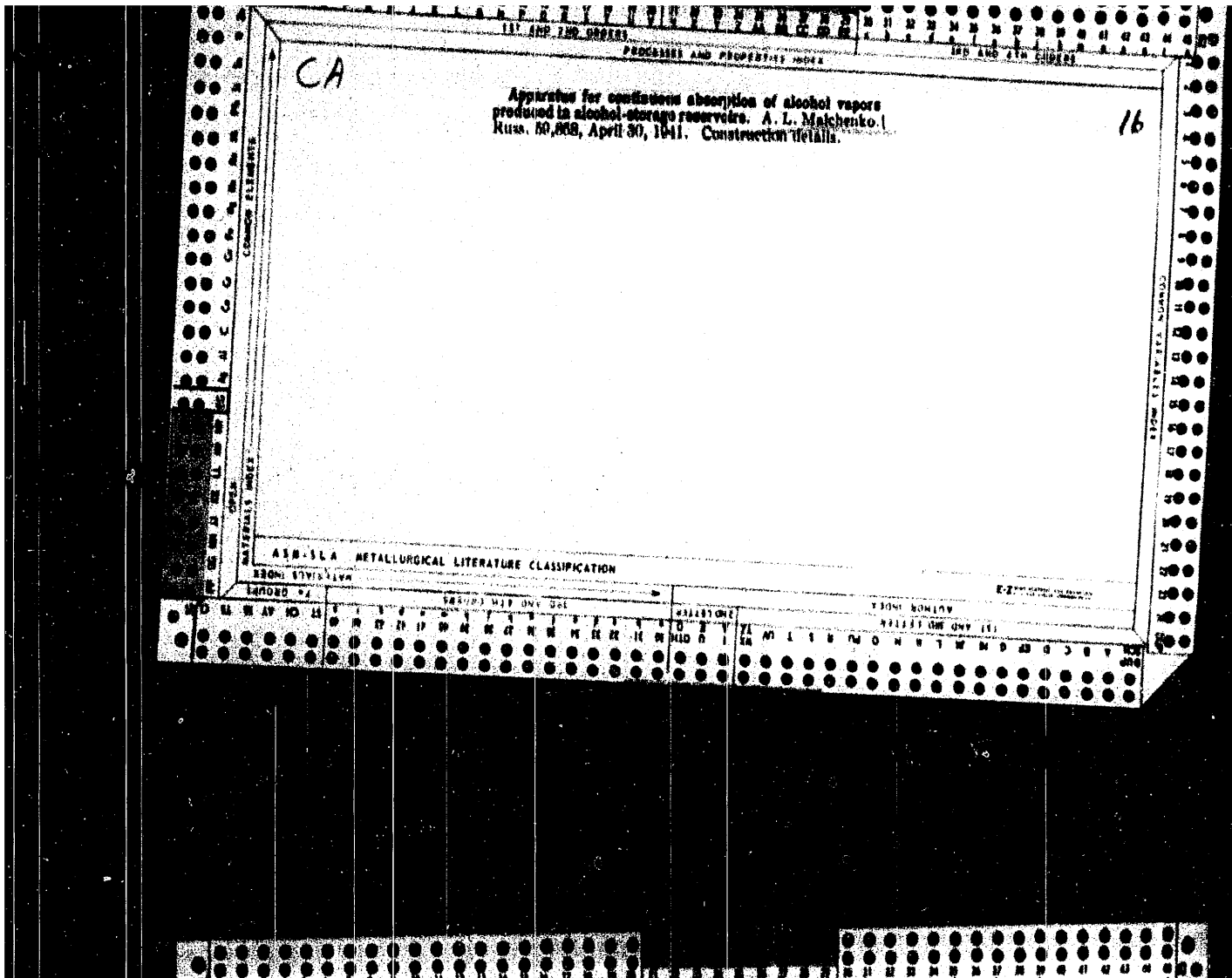
9TH AND 10TH CROSS

9TH AND 10TH LETTER

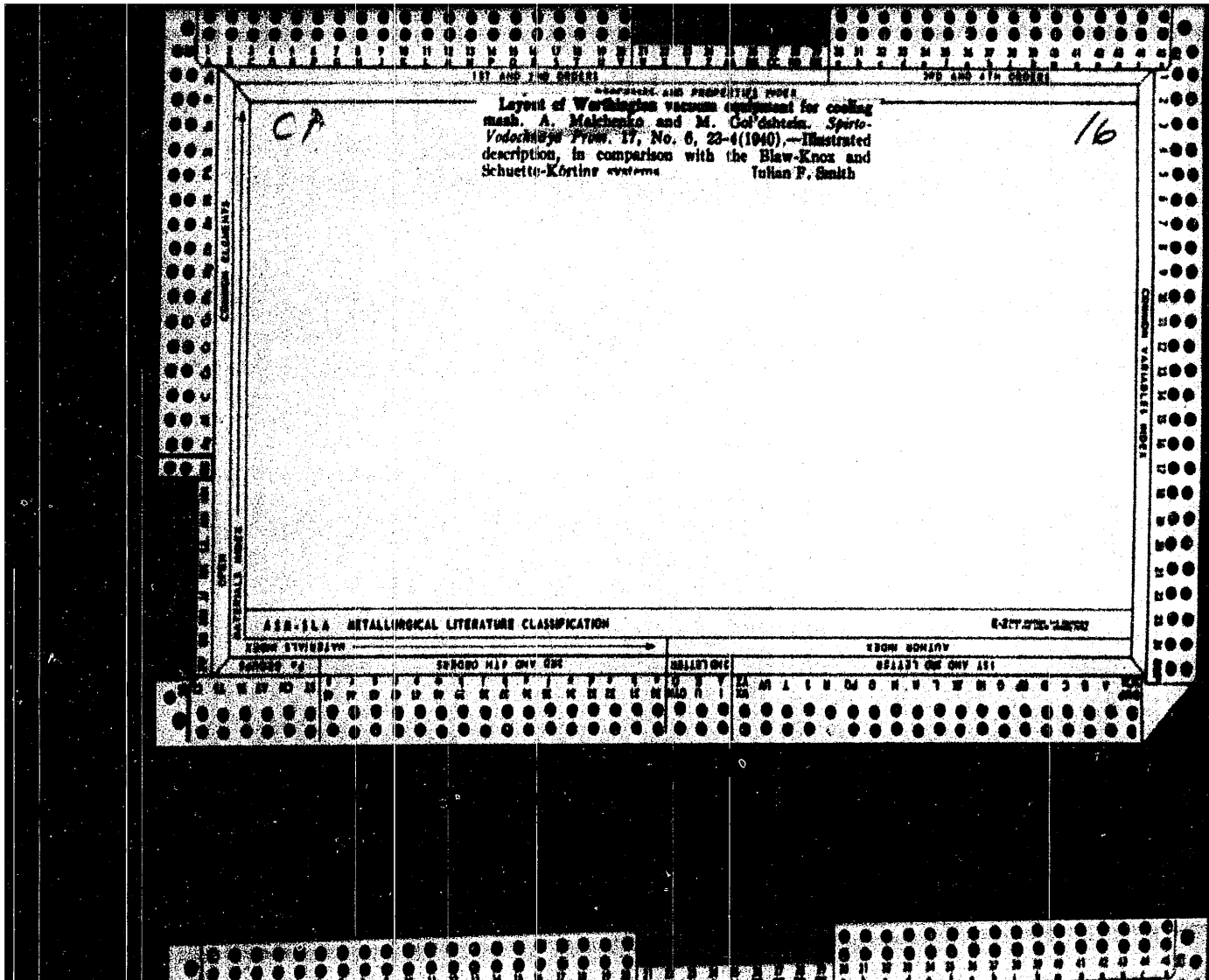








1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSING AND PROPERTIES INDEX																			
CA Apparatus for direct sterilization and bleaching of molasses. A. Makhenko. <i>Sputo-Vodochnoya Press</i> , No. 7, 11-12(1940).—Illustrated description. Julian F. Smith 16																			
ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
MATERIALS INDEX										AUTHOR INDEX									
1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									



187 AND 710 00981

PROCESS AND PROPERTIES INDEX

MD AND 4TH SERIES

CA

Layout of Blaw-Knox apparatus for direct vacuum cooling of mash. A. Malchenko and M. Gol'dshtein. *Spiriro-Vodokhaya Prom.* 17, No. 3, 21-2(1940).--Illustrated description. Julian F. Smith

16

COMMON VARIABLES INDEX

ASS-55A METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

187 AND 4TH SERIES

SOURCE #	ENGLISH TITLE ONLY	RUSSIAN TITLE ONLY	187 AND 4TH SERIES
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147 AND 148 INDEX 149 AND 174 INDEX

PROCESSES AND PROPERTIES INDEX

CA

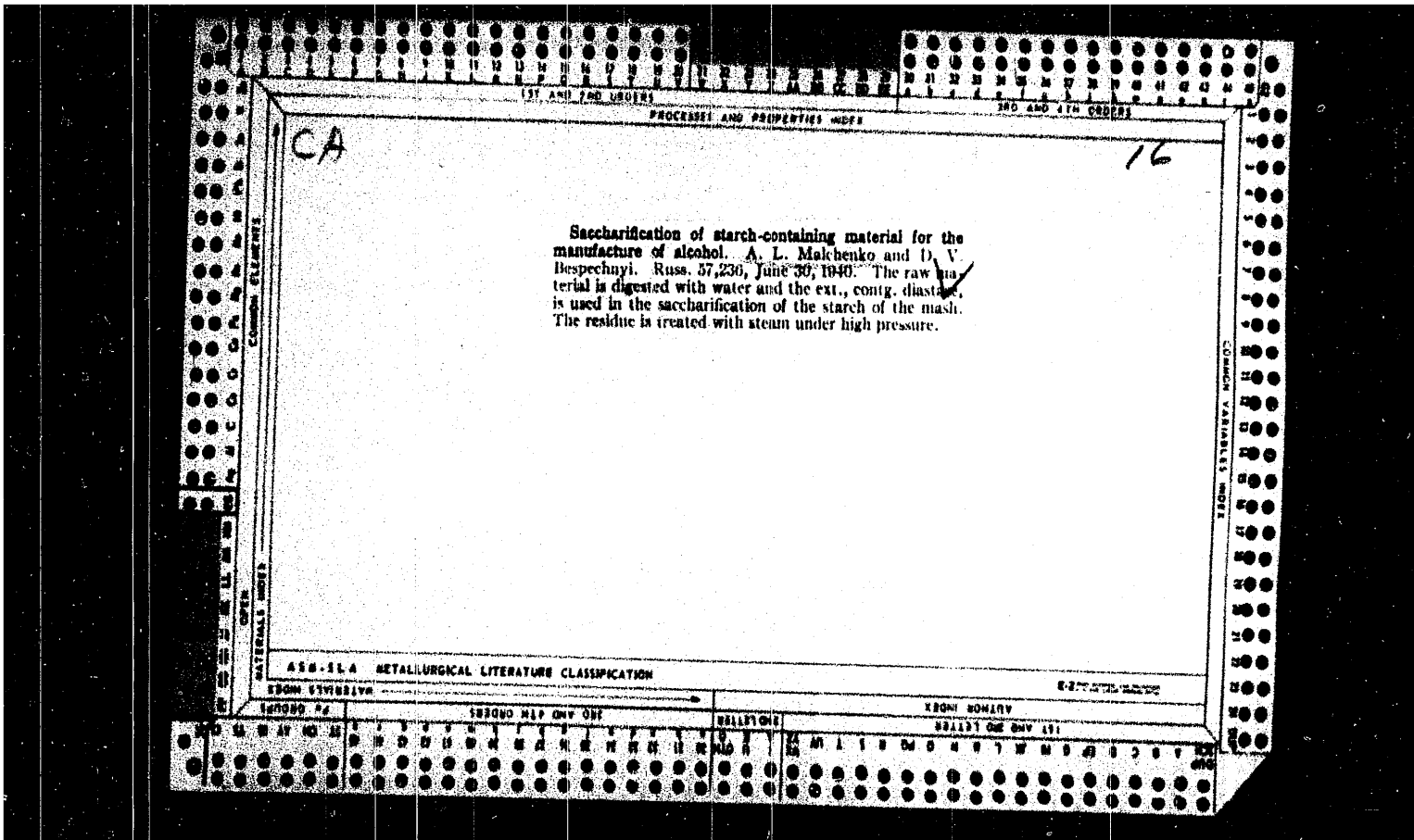
3 Arrangement for the separation of fuel oil in the rectification of alcohol. A. L. Malchenko. Russ. 57,806, Sept. 30, 1940. Construction details of a rectification app. 16

GENERAL INDEX

APP-314 METALLURGICAL LITERATURE CLASSIFICATION

147 AND 148 INDEX 149 AND 174 INDEX

147 AND 148 INDEX 149 AND 174 INDEX



1ST AND 2ND ORDERS		3RD AND 4TH ORDERS	
PROCEDURES AND PROPERTIES INDEX			
CA	Alcohol from rubber-containing plants. A. L. Malchenko. <i>Russ.</i> 66,500, Feb. 29, 1940. The plant is extd. with H ₂ O in a diffusion battery, and the ext. fermented in the usual manner in the presence of acids, with addn. of sugar-beet molasses.		16
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION			
LITERATURE INDEX		AUTHOR INDEX	
1ST AND 2ND ORDERS		3RD AND 4TH ORDERS	
LITERATURE INDEX		AUTHOR INDEX	

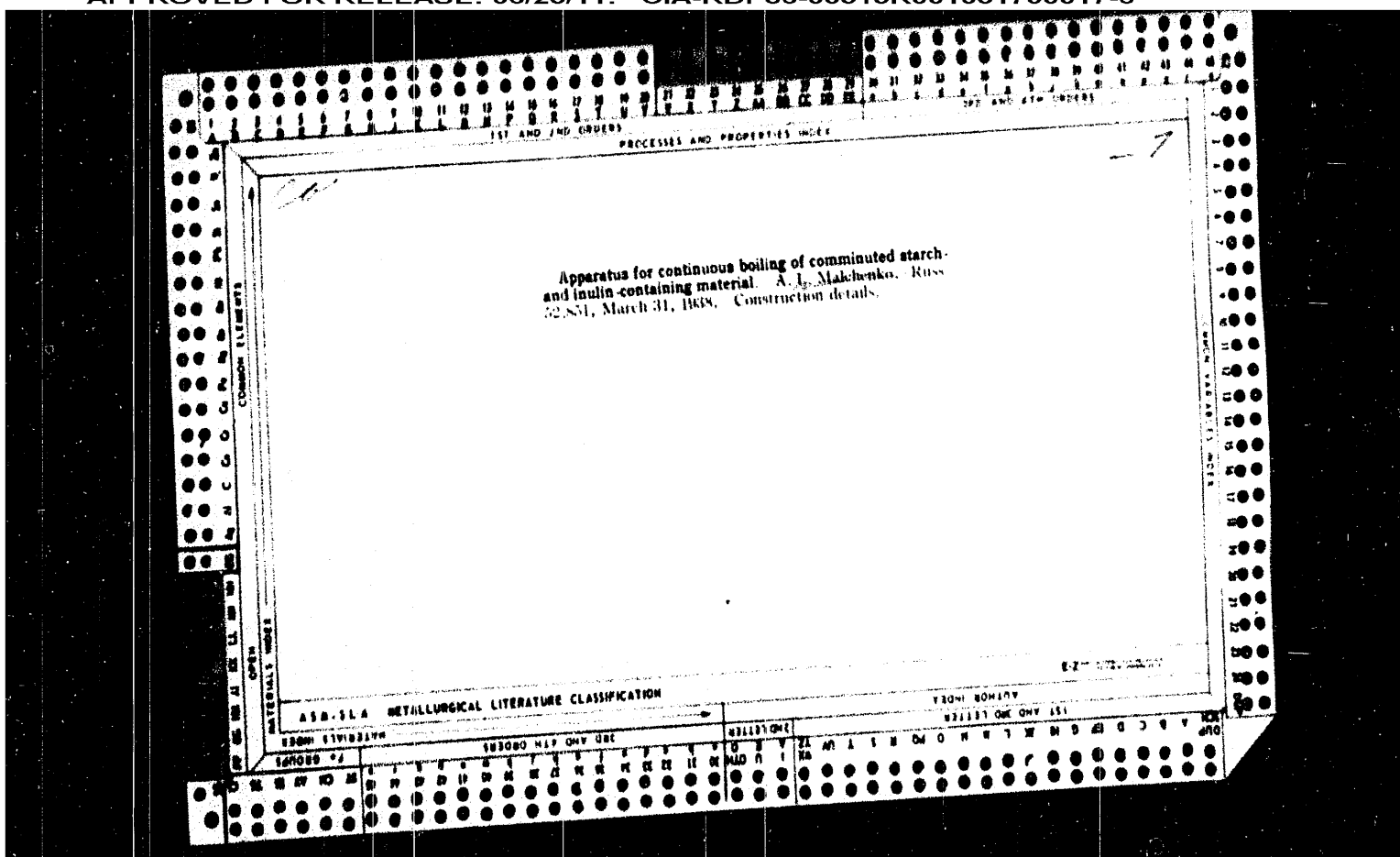
1ST AND 2ND ORDER												3RD AND 4TH ORDER											
PROCESSES AND PROPERTIES INDEX																							
<p>ca 16</p> <p>Tests of the May direct mashing apparatus for grain and potatoes. A. Makshuk, A. Ashkental and L. Yurin. <i>Spirita-Vodochinnye Prom.</i> 18, No. 9, 10-18(1939). The May app. is fully equal to the Hentze autoclave for mashing coarse grain, and superior for mashing fine meal. It yields mash that conforms to accepted standards. A single May unit with capacity 10-11 cu. m. replaces 8 Hentze autoclaves (No. 2) and suffices for distillery capacity of 25 cu. m. abs. alc. per day. Julian F. Smith.</p>																							
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> <p>COMMON ELEMENTS</p> <p>MATERIAL INDEX</p> <p>COMMON VARIABLES INDEX</p>																							
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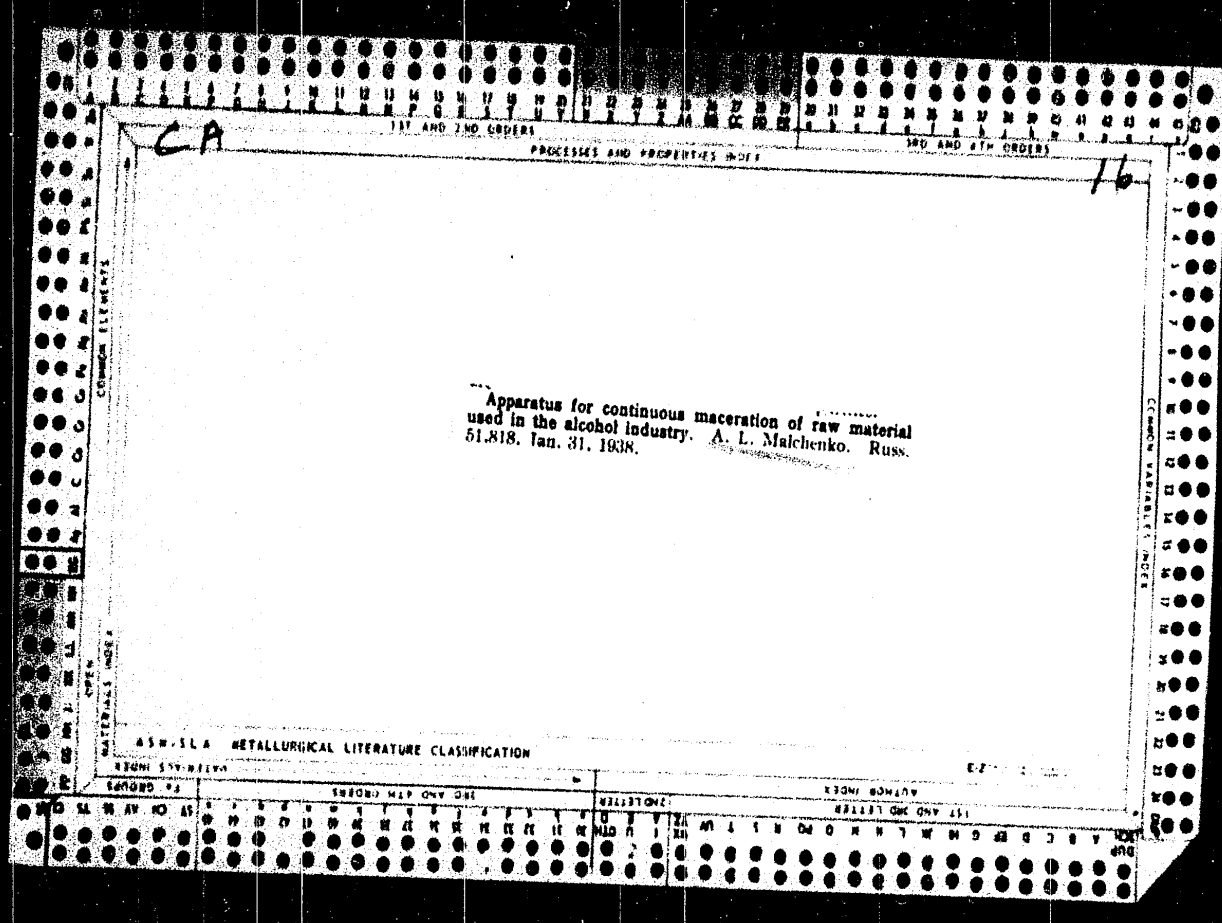
117 AND 118 SERIES												119 AND 120 SERIES											
MATERIALS												PROCESSING AND PROPERTIES INDEX											
COMMON ELEMENTS												COMMON VARIABLES INDEX											
<p><i>ca</i></p> <p>Schütte-Ehring vacuum mesh cooler and its installation. A. Malchenko and M. Gol'dabets. <i>Spiral-Vodochaynaya Prom.</i> 16, No. 12, 83-5(1939).—Illustrated description.</p> <p>Julian P. Smith</p> <p>16</p>																							
ASB-I.L.A. METALLURGICAL LITERATURE CLASSIFICATION												AUTHOR INDEX											
117 AND 118 SERIES												119 AND 120 SERIES											
117 AND 118 SERIES												119 AND 120 SERIES											

1st AND 2ND SHEETS		PROCESSES AND PROCEDURES INDEX		3rd AND 4th SHEETS	
COMMON ELEMENTS		16			
ROUTINE SUGAR DETERMINATION BY THE COLE FERROCYANIDE METHOD IN THE ALCOHOL INDUSTRY. A. Makchenko, I. Salris and L. Vodyagina. <i>Spirto-Vodochanaya Prom.</i> 16, No. 11, 38-41(1939).—The Cole method (C. A. 27, 5681) for detg. sugars is applied to control analysis in distilleries. Ex-amples are given of maltose, dextrin and glucose detas. and of testing malt for saccharifying power. Julian F. Smith					
METALLURGICAL LITERATURE CLASSIFICATION		A 53-53.6		E-27405/5681	
ALPHABETIC INDEX		ALPHABETIC INDEX		ALPHABETIC INDEX	
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z		A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	

1ST AND 2ND ORDERS		PROCESS AND PROPERTIES INDEX		3RD AND 4TH ORDERS	
CA				14	
<p>Apparatus for continuous maceration and saccharification in the manufacture of alcohol. A. L. Malchenko. Russ. 56,261, Dec. 31, 1939. Constructional details.</p> <p>Cultivation of fat-forming molds. Helmut Damm (to The Procter & Gamble Co.). U. S. 2,340,011, April 4, 1944. <i>Ascomycetes</i> and <i>Phycomycetes</i>, especially the following genera: <i>Rhizopus</i>, <i>Mucor</i>, <i>Mortierella</i> and <i>Gibberella</i> are submerged in a nutrient soln., e. g. molasses, sulfite liquor, contg. carbohydrates capable of fermentation 35-70, P₂O₅ 0.3-0.5, N 0.6-1.0, MgSO₄·7H₂O, 0.3 kg. and aq. malt ext. 80-100 l. The pH is maintained at 3.4-6.5. Fermentation is carried out in a closed vessel and an oxygenating gas is passed below the surface of the soln., thereby increasing the yield of fats as compared to surface growths.</p>					
METALLURGICAL LITERATURE CLASSIFICATION					
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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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CO		The spent wash from molasses as a material for obtaining cyanides, potash and ammonium sulfate. A. L. MALCHENKO. <i>J. Chem. Ind. (Moscow)</i> 1933, No. 1, 30-3. Review and discussion. H. M. LICHTNER																														28																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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