VOLKOV, L.Ye., inzhener.

Local pressure losses during the flow of paper pulp through pipe lines. Bum.prom. 29 no.12:21-23 D '54. (MLRA 8:2)

1. NIIBummash.
(Papermaking machinery)

Volkov, L.Ye

VOLKOV, L.Ye., inzhener; GOLUBEV, A.Ya., inzhener.

Investigation of the engineering characteristics of centrifugal purifiers. Bum.prom. 30 no.3:17-19 Mr '55. (MLRA 8:4)

1. NIIBummash (for Volkov). 2.Balakhninskiy tsellulozno-bumazhnyy kombinat (for Golubev).
(Papermaking machinery)

VOLKOV, L.Ye., inzhener.

Glass-tube vortex cleaners. Bum.prom. 30 no.12:22 D '55.(MLRA 9:3)
(Paper industry)

KOLESOV, F.V.; VOLKOV, L.Ye.

Increasing the efficiency of centrifugal strainers. Bum.prom.31 no.3:20-22 Mr '56. (MIRA 9:7)

1.Malinskaya bumazhnaya fabrika (for Kolesov).2.Nauchno-issledovatel'skiy institut Bummash (for Volkov).
(Papermaking machinery) (Centrifuges)

VANCHAKOV, V.M., inzhener; VOLKOV, L.Ye., inzhener.

F.G. Shukhman's book "Papermaking machinery." Reviewed by V.M. Vanchakov, L.E. Volkov. Bum.prom. 31 no.6:30-31 Je '56.(MLRA 9:8)
(Papermaking machinery) (Shukhman, F.G.)

VOLKOV, L.Ye.; SHMIDT, L.I.; AREF'YEV, V.I.

Detarring the industrial waste waters of the gas-shale plant of the "Slantsy" Combine by pressure flotation. Trudy VNIIT no.12:246-252 '63. (MIRA 18:11)

FEDOROV, N.F.; VOLKOV, L.Ye.

[Graphs for hydraulic calculation of sewer systems] Grafiki dlia gidravlicheskogo rascheta kanalizatsionnykh setei. Moskva, Stroiizdat, 1964. 110 p. (MIRA 17:11)

VOLKOV, L. Ye.; SHMIDT, L. I.

Detarring the phenol waste waters from thermal processing of oil shales by pressure flotation. Trudy VNIIT no. 11:284-288 '62. (MIRA 17:5)

VOLKOV, L.Ye.; SHMIDT, L.I.

Final cleaning of underlying fuel oil water by flotation. Trudy VNIIT no.10:228-235 '61. (MIRA 15:3)
(Petroleum as fuel)(Sewage--Purification)

FEDOROV, Nikolay Fedorovich; VOLKOV, Lev Yefimovich; LASKOV, Yu.M., red.; BUTT, V.P., red. izd-va; LELYUKHIN, A.A., tekhn. red.

[Hydraulic calculations relating to sewer systems; calculation tables] Gidravlicheskii raschet kanalizatsionnykh setei; raschetnye tablitsy. 3., ispr. i dop. izd. Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1961. 253 p. (MIRA 15:4)
(Sewerage--Tables, calculations, etc.)

VOLKOV, L. Ye.; AYZENBERG, S.A.; NOVIKOVA, L.S.

Pilot plant testing of vortex cleaners. Bumagodel. mash. no.8:17-25 '60. (MIRA 14:3)
(Papermaking machinery)

FEDOROV, Nikolay Fedorovich; VOLKOV, Lev Yefimovich; LASKOV, Yu.M., red.; RACHEVSKAYA, M.I., red.izd-va; PYRKINA, N.F., tekhn.red.

[Hydraulic calculations relating to sewerage systems] Gidravlicheskii raschet kanalizatsionnykh setei; raschetnye tablitsy. Izd.2., ispr. i dop. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1960. 241 p. (MIRA 14:7)

(Sewerage)

VOLKOV, M.,kand.sel'skokhozyaystvennykh nauk

Dear "ties". Nauka i pered.op.v sel'khoz. 9 no.12:11-13 D '59. (MIRA 13:4)

(Dairy barns)

ARTEM'YEV, S.; BABKOV, V.; BIRULYA, A.; BOGOMOLOV, A.; BOCHIN, V.; BRILING, N.; VAKHRUSHIN, N.; VOLKOV, M.; GURARIY, M.; DADENKOV, Yu.; YEFREMOV, V.; ZELENKOV, G.; IVANOV, N.; IGOLKIN, N.; KUDRYAVTSEV, A.; LITVIN, N. MIKHAYLOV, V.; PROKOF'YEV, I.; SARKIS'YANTS, G.; ROMANENKO, I.; STRAMENTOV, A.; FEDOROV, V.; KHACHATUROV, A. i dr.

Anatolii Pavlovich Khmel'nitskii. Avt. dor. 21 no.12:30 D '58. (MIRA 12:1)

(Khmel'nitskii, Anatolii Pavlovich, 1907-1958)

VOLKOV, M.

Consolidating business accounting in industry. Vop. ekon. no.2:45-53 F '60. (MIRA 13:1)
(Russia--Industries) (Finance)

Volkov, M.

NESHATAYEV, A., kandidat tekhnicheskikh nauk; VOLKOV, M.

"Jacquard design fabric." by O.D.Galanina, IU.A.Maksimova. Reviewed by A.Neshataev, M.Volkov. Leg.prom. 17 no.4:51-53 Ap '57. (MLRA 10:4)

1. Master fabriki imeni Dzerzhinskgo (for Volkov).
(Knit goods) (Textile design)
(Galanina, O.D.) (Maksimova, IU.A.)

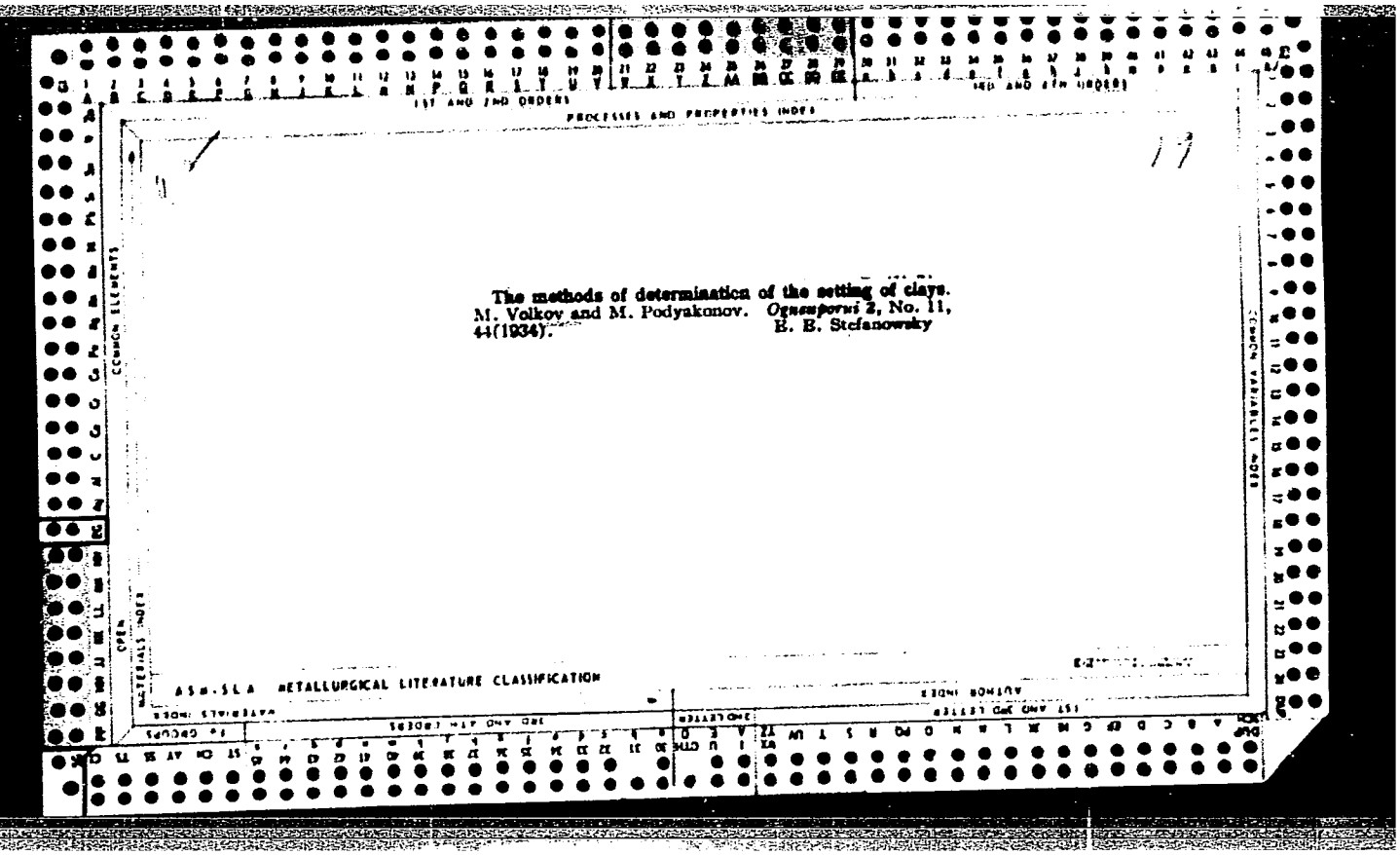
VOLKOV, M.

"Meat Industry" pavilion. Mias.ind.SSSR 27 no.3:58 '56. (MLRA 9:9)

1.Metodist pavil'ona "Myasnaya promyshlennost'".
(Meat industry--Exhibitions)

VOLKOV, M.

Lowering the cost of production in the fifth five-year plan. Prof.soiuzy 3 no.8:19-25 Ag '53. (MLRA 6:8)
(Costs, Industrial)



The methods of determination of the setting of clays.
M. Volkov and M. Podyakonov. *Ogneupory* 2, No. 11, 44(1934). B. E. Stefanowsky

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

VOLKOV, M.

Coal miners come to the mine committee for counseling and help.
Sov.shakht. 10 no.8:21-23 Ag '61. (MIRA 14:8)
(Coal miners)

VOLKOV, M., mladshiy nauchnyy sotrudnik

Pulse of the earth. Nauka i zhyttia 12 no.12:30-31 D '62.
(MIRA 16:8)

1. Institut geologicheskikh nauk AN UkrSSR.

S/254/62/000/012/002/002
D251/D308

AUTHOR: Volkov, M.

TITLE: The earth's pulse

PERIODICAL: Nauka i zhyttya, no. 12, 1962, 30-31

TEXT: The author calls attention to the continuously moving state of the solid masses of the earth's globe, especially the tectonic motion. Investigations were carried out in the USSR to prepare a map showing the nature of movements of the earth's surface in the whole of the western half of the European part of the USSR. Geodesic investigations showed that the rising, apparent in Scandinavia, continues to the south, taking in a large part of Estonia, Latvia, Lithuania, Belorussia and the Western parts of the Ukraine. The rising is 5-10 mm/year. Similar processes are also observed in the Kryvoy Rog region and some regions of the Donbas. In the Black Sea and Kuban' areas, however, settling is taking place thus forming, as it were, enormous waves. The importance of investigating core movements is noted, and the Long Beach (USA) experiments

Card 1/2

The earth's pulse

are mentioned. Within the Ukrainian SSR, work in this field is being done in the Instytut heolohichnykh nauk AN URSR (Institute of Geological Sciences of the AS UkrSSR), the Kyyivs'kyy ordena Lenina Derzhavnyy universytet im. T.H. Shevchenka (Kiev Order of Lenin State University im. T.H. Shevchenko) and also in Kharkov and Odessa. The results are used in the construction of hydrotechnical installations, especially canals, in the regions of the Black and Azov Sea coasts, which were studied.

ASSOCIATION: Instytut heolohichnykh nauk AN URSR (Institute of Geological Sciences of the AS UkrSSR)

Card 2/2

VOLKOV, M.

The power of water. Sov.shakht. 10 no.12:15-16 D '61. (MIRA 14:12)
(Donets Basin--Hydraulic mining)

VOLKOV, M.

Persistence. Sov.shakht. 11 no.2:19 F '62. (MIRA 15:1)

1. Shakhta No.26 - 44 tresta Bokovantratsit, Luganskaya oblast'.
(Donets Basin--Coal miners)
(Trade unions)

VOLKOV, M., prof.; LEMENEV, L., dotsent

Decision of April 22, 1965 of the Presidium of the Council of Scientific Medical Societies of the Ministry of Health of the U.S.S.R. on the work of the editorial board of the journal "Farmakologiia i Toksikologiia" during 1964. Farm. i toks. 28 no.5:634-635 S-O '65. (MIRA 18:12)

1. Predsedatel' Soveta nauchnykh meditsinskikh obshchestv Ministerstva zdravookhraneniya SSSR (for Volkov). 2. Glavnyy uchenyy sekretar' Soveta nauchnykh meditsinskikh obshchestv Ministerstva zdravookhraneniya SSSR (for Lemenev).

VOLKOV, Mikhail Aleksandrovich; KOROTEYEV, Tikhon Il'ich; TIKHONOV, B.S., red.

[Operating gas fired boiler installations] Ekspluatatsiia kotel'nykh ustanovok na gazoobraznom toplive. Moskva, Stroiizdat, 1965. 171 p. (MIRA 18:8)

21,2200

66536

SOV/144-59-1-16/21

AUTHORS: Anan'yev, L.M., Cand.Tech.Sci., Docent; Volkov, M.N., Dr.Chem.Sci.; Vorob'yev, A.A., Dr.Physico-Mathematical Sci., Professor, Director of Tomsk Polytechnical Inst.; Titov, V.N., Cand.Tech.Sci., Docent; Filippov, M.F., Cand.Tech.Sci., Docent.

TITLE: Development of Electron Accelerators at the Tomsk Polytechnical Institute

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1959, Nr 1, pp 121-124 (USSR)

ABSTRACT: Work on electron accelerators at the Tomsk Polytechnical Institute was begun in 1946. The aim was to produce an inexpensive betatron installation, simple in manufacture and operation. In spite of the fact that many scientists and engineers maintained that the betatron must be supplied at a highly stable voltage, the authors developed a betatron using a supply derived from the a.c. mains. Changes in frequency and voltage had to be compensated automatically, and experiments have shown that this is possible. The fact that the betatron was supplied from industrial-frequency mains meant that the installation was very inexpensive. The second important

Card 1/3

4

21.2200

SOV/144-59-1-16/21

AUTHORS: Anan'yev, L.M., Cand.Tech.Sci., Docent; Volkov, M.N., Dr.Chem.Sci.; Vorob'yev, A.A., Dr.Physico-Mathematical Sci., Professor, Director of Tomsk Polytechnical Inst.; Titov, V.N., Cand.Tech.Sci., Docent; Filippov, M.F., Cand.Tech.Sci., Docent.

TITLE: Development of Electron Accelerators at the Tomsk Polytechnical Institute

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4

Development of Electron Accelerators at the Tomsk Polytechnical Institute

contribution to betatron construction was the design and proportioning of parts of the machine and its parameters, which was done bearing in mind both technical and economical considerations. Theories were developed leading to formulae which are extremely convenient and time-saving in the adjustment of betatrons. Efforts were made to reduce the overall dimensions of betatrons. M.F. Filippov has developed a special yoke which ensures high azimuthal phase uniformity of the magnetic field. In 1946 V.N. Titov developed some very simple methods of injection and deflection. A betatron has been constructed, working on 150 c/s, in which both half-periods of the magnetic field are used to accelerate the electrons. At the point of intersection of the beams from two targets of such a betatron the intensity is 300 roentgens per minute at one metre. V.A. Moskalev and Yu.M. Akimov developed a stereo-betatron having a common magnetic circuit with two pairs of poles and two air gaps, giving effectively two accelerating chambers. This stereo-betatron may be used in medicine for deep irradiations and in radiographic

4

Development of Electron Accelerators at the Tomsk Polytechnical Institute

flaw-detection in order to obtain stereo-photographs. B.A. Konokov and L.S. Sokolov developed methods for the extraction of the electron beam both by deflecting the electrons by an electric field and by removing the electrons beyond the magnetic field by means of non-magnetic channels. B.N. Rodimov and others have considered the acceleration process from the theoretical point of view. Since 1954 the Institute has been concerned with the development of powerful electron synchrotrons.

Card 3/3

There are no figures, tables or references.

ASSOCIATION: Tomskiy politekhnicheskiy institut (Tomsk Polytechnical Institute)

Dr. Volkov is a Departmental Head at the Ministry of Higher Education, SSSR. (Nachal'nik otdela MVO SSSR)

4

KALINNIKOV, V.T.; ZELENTSOV, V.V.; VOLKOV, M.N.; SHOSTAKOVSKIY, S.M.

Certain features of the infrared absorption spectra of vanadyl compounds with carboxylic acids. Dokl. AN SSSR 159 no.4:882-884 D '64 (MIRA 18:1)

1. Moskovskiy fiziko-tekhnicheskiy institut. Predstavleno akademikom V.I. Spitsynym.

VOLKOV, Mikhail Aleksandrovich; SMIRNOVA, M.Ye., red.; ZHUKOVA, Ye.G., tekhn. red.

[Course in theoretical mechanics]Kurs teoreticheskoi mekhaniki. Leningrad, Izd-vo Leningr.univ., 1962. 391 p. (MIRA 15:10)
(Mechanics, Analytic)

BALASHOV, B.V.; VOLKOV, M.A.; KRUGLOVA, T.P.

Wooden boxes for objects up to 200 kg. Standartizatisiia 25 no.2:50-60 F '61. (MIRA 14:3)

(Boxes--Standards)

SHER, Yu.M.; VOLKOV, M.A.; BALASHOV, B.V.; KRUGLOVA, T.P.

New standards for packing boxes. Der.prom. 8 no.3:14-15 Mr '59. (MIRA 12:4)

1. TSentral'nata nauchno-issledovatel'skaya laboratoriya Rybtara.
(Boxes--Standards)

VOLKOV, M.A.; DRUSKIN, L.I.; PRAVOVEROV, K.N.; ROGINSKIY, O.L.

Investigating flameless gas burners with ring nozzles. Gaz. prom. 4 no.9:27-31 S '59. (MIRA 12:11)
(Gas burners)

VoLKov, M. A.

PHASE I BOOK EXPLOITATION SOV/3685

Moscow. Institut khimicheskogo mashinostroyeniya

Teplovyye protsessy v promyshlennosti (Thermal Processes in Industry) Moscow, 1958. 145 p. (Series: Its: Trudy, t. 16, No. 2) 1,500 copies printed.

Resp. Ed.: S.N. Shorin, Professor, Tech. Ed.: B.K. Shorin; Editorial Board: S.I. Shchepkin, Professor, Honored Worker in Science and Technology (Resp. Ed.); A.M. Lastovtsev, Professor; N.M. Karavayev, Professor; D.T. Kokorev, Docent; L.V. Petrokas, Professor; P.M. Reshchikov, Docent; S.N. Sokolov, Professor; S.I. Sokolov, Professor; A.M. Khodzhayev, Docent; S.N. Shorin, Professor; N.I. Basov, Candidate of Technical Sciences (Scientific Secretary).

PURPOSE: This collection of articles is intended for physicists, chemical and industrial engineers, and technicians interested in problems of thermodynamics and fuel combustion in various industries.

COVERAGE: The book contains 11 articles which give the results of research on heat convection, combustion dynamics, fuel economy, and the mechanization of heating processes. No personalities are mentioned. References accompany some of the articles.

AVAILABLE: Library of Congress

TM/jb
5-20-60

Card 3/3

VOLKOV, M.A.

Features of organizing steady gas combustion in ceramic grates. (MIRA 16:1)
Sbor. nauch. rab. AKKH no.9:56-74 '61.
(Gas burners)

VOLKOV, M.A., Cand Tech Sci — (diss) "Consumption of low-calorie gas in household gas devices." Mos, 1959. 17 pp (Acad of Communal Economy im K.D. Pamphilov). 150 copies (KL,40-59, 103)

VOLKOV, M. A. (Eng.)

"Combustion of Gases of Low Calorific Value in Illuminating Gas Apparatus"

(Theory and Practice of Gas Combustion; Transactions of a Scientific and Technical Meeting) Leningrad, Gostoptekhizdat, 1958. 343 p.

VOLKOV, M.A., inzh.

Stability and effectiveness of burning low gases in ceramic burners. Trudy MIKHM vol.16:83-102 '58. (MIRA 14:7)
(Gas burners) (Combustion)

Volkov, M.A.

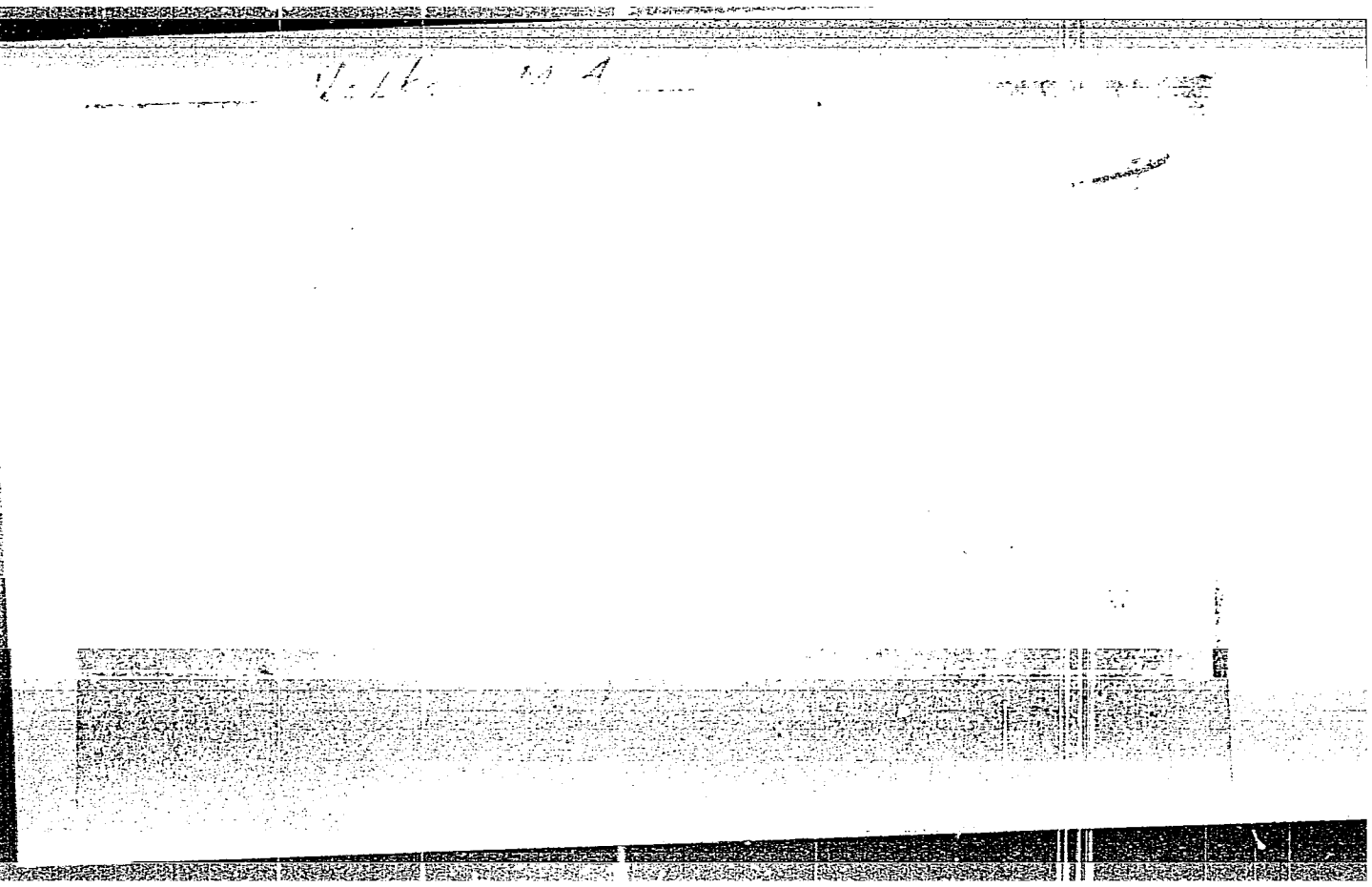
VOLKOV, M.A.

[redacted] Low BTU gas for domestic use. Gaz. prom. no.1:38-42 Ja '58.
(Gas--Heating and cooking) (MIRA 11:2)

VOLKOV, M.A.; KALLISTOV, S.D.; NIKOL'SKIY, L.I.

Practices of the Worker F.Zinov'ev factory. Tekst.prom.16 no.12:40-43 D'56. (MLRA 10:1)

(Ivanovo--Textile factories)



VOLKOV, M.A., kandidat tekhnicheskikh nauk, dotsent.

New technique for static balancing of shafts. Trudy LIEI no.6: 232-238 '53. (MLRA 9:8)
(Balancing of machinery) (Shafts and shafting)

VOLKOV, M.A.; LEKAREVA, T.S.; PRAVOVEROV, K.N.

Perforated ceramic inserts for flameless gas burners. Gaz. prom. 6 no. 1:22-26 '61. (MIRA 14:1)
(Gas burners)

VOLKOV, M.A.

Designing cylindrical press molds used in the abrasive industry. (MLRA 9:9)
Trudy LIEI no.8:207-210 '54.
(Machine-shop practice)

VOLKOV, M.A.

Designing crossarms and similar machine parts. Trudy LIEI no.10: 175-179 '55. (MLRA 9:8)
(Machinery--Design)

VOLKOV, M.A.; KOCHERGIN, Ye.M., inzhener-khimik.

Our experience with finishing staple cloth. Tekst.prom. 15 no.1:31-35 Ja '55. (MLRA 8:2)

1. Glavnyy inzhener fabriki im. rabochego F.Zinov'yeva (for Volkov).
(Textile finishing)

VOLKOV, M.A.

Sizing material without flour. Tekst.prom. 14 no.9:39-40 S '54.
(MLRA 7:11)

1. Glavnyy inzhener fabriki im. rabochego F.Zinov'yeva.
(Sizing (Textile))

VVEDENSKIY, S. A.; VOLKOV, M. A.; KOMBEGOV, T. T.

Textile Printing

Photochemical method of engraving textile patterns. Tekst.prom. 12 No. 7 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.
2

VVEDENSKIY, S. A.; VOLKOV, M. A.; KOMBEGOV, T. T.

Textile Printing

Photochemical method of engraving textile patterns. Tekst. prom. 12 No. 7 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

VOLKOV, M. A., RATNIKOV, A. V.

Textile Industry and Fabrics

Striving to produce high quality goods. Tekst. prom. no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, _____1953. Unclassified.

VOLKOV, M.A.

Our experience in adopting staple fiber. Tekst.prom.14 no.1:33-34 Ja '54. (MLRA 7:2)

1. Glavnyy inzhener fabriki im. rabochego F.Zinov'yeva. (Rayon)

[illegible] ...

[illegible] improving finishing properties. Tekst. prom. [illegible]; 11-[illegible] '55. (MLRA 8:6)

1. Glavnyy inzhener fabriki imeni rabochego P.Sinyavina. (Textile finishing)

VOLKOV, M.A.

Efficiency workers struggle to carry out the plan ahead of time.
Tekst.prom.15 no.10:52-54 O'55. (MLRA 8:12)

1. Glavnyy inzhener fabriki imeni rabochego F.Zinov'yeva
(Textile industry)

VOLKOV, M.A.

Sizing of rayon yarn. M. A. Volkov (*Tekstil. Prom.*, 1954, No. 1, 33—34).—The new sizing composition given (containing potato starch, gelatin, soap and chloramine) is claimed to reduce breaking of the yarn during weaving from 0·42 to 0·26 per m., at the usual rate of sizing (32—35 m./min.), the elongation being maintained at 4·5—5%, size concn at 5·5% and temp. at 75—80°. Under these conditions, the tensile strength of the yarn increases by 9—12% and elongation decreases by 35—43%; the moisture content of the sized yarn is 8—9%. The present work on improving sizing formulations and processing of rayon fibres is discussed and methods for joining the foundation yarn and selvedge threads are described. J. Text. Inst. (R.B.C.).

VOLKOV, M.A.; TIKHOBAYEV, G.A.; RASTORGUYEV, A.K., starshiy prepodavatel'

New transistorized automatic devices in textile finishing factories. Tekst. prom. 23 no.7:57-61 Jl '63. (MIRA 16:8)

1. Glavnyy inzh. fabriki imeni rabochego F. Zinov'yeva (for Volkov). 2. Master gruppy avtomatiki fabriki imeni rabochego F. Zinov'yeva (for Tikhobayev). 3. Kafedra elektrotekhniki Ivanovskogo tekstil'nogo instituta imeni M.V. Frunze (for Rastorguyev).

(Automatic machines) (Textile finishing)

SOV/137-58-8-16460

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 33 (USSR)

AUTHORS: Maslovskiy, P.M., Samokhvalov, G.V., Volkov, M.G.

TITLE: A Study of Thermal Operation of Blast Heaters Employed With Blast Furnaces (Izucheniye teplovoy raboty vozdukhonagrevateley domennykh pechey)

PERIODICAL: Tr. Sibirsk. metallurg. in-ta, 1957, Nr 4, pp 23-44

ABSTRACT: The phenomena occurring in blast heaters (BH) may be described, after the introduction of several permissible simplifications, by a system of equations which include an equation for the temperature field of the BH during the process of heating and cooling off, as well as an equation of the thermal balance of the BH. An analysis of these equations with their appropriate boundary-value conditions makes it possible to derive a number of criteria essential for the evaluation of heat-exchange processes occurring in BH. Applied to the BH of the Kuznetsk Kombinat, processing of experimental data in terms of these criteria made it possible to derive certain relationships for the basic criteria. Derivation of formulae for thermodynamic analysis is possible only after more extensive experimental data have been accumulated. F.K.

Card 1/1

1. Blast furnaces--Equipment 2. Heaters--Thermodynamic properties

VOLKOV, M. G. (Co-author)

See: DEMENT'YEV, G. P.

Volkov, M. G. and Dement'yev, G. P. "New data on the birds of the Koryak country," Trudy Tsentr. byuro kol'tsevaniya, Issue 7, 1948, p. 170-76.

SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 17, 1949).

VOLKOV, M.G. [Volkov, M.H.], inzh.-geolog

Movements of the earth crust. Nauka i zhyttia 11 no.7:52-54 Jl '61. (MIRA 14:8)

1. Institut geologicheskikh nauk AN Ukrainskoy SSR.
(Geology, Structural)

VOLKOV, N.G. [Volkov, M.H.]

Study of the longitudinal section of the Smotrich River for purposes of neotectonic analysis. Geol.zhur. 21 no.5:101-104 '61. (MIRA 14:10)

1. Institut geologicheskikh nauk AN USSR.
(Smotrich River--Geology, Structural)

KURENEV, Sergey Ivanovich, doktor tekhn. nauk, prof.; VOLKOV, Mikhail Grigor'yevich, kand. tekhn. nauk, nauchnyy sotrudnik

Shielding of an external field by a hollow flattened ellipsoid. Izv. vys. ucheb. zav.; elektromekh. 6 no.9:1027-1031 '63. (MIRA 16:12)

1. Zeveduyushchiy kafedroy teoreticheskikh osnov elektrotekhniki Leningradskogo elektrotekhnicheskogo instituta (for Kurenev).
2. Voyenno-morskaya akademiya (for Volkov).

VOLKOV, MIKHAIL GRIGOR'YEVICH

83325

6,4800

S/144/60/000/008/001/003
E041/E455

AUTHORS: Kurenev, S.I., Doctor of Technical Sciences, Professor and Volkov, M.G., Candidate of Technical Sciences

TITLE: Screening of an ~~External~~ Uniform Static Field by That of an Elliptical Cylinder

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika, 1960, No.8, pp.3-7

TEXT: Previous treatments of the screening effect of enclosures have ignored the influence of shape. The magnetic case is dealt with here. Elliptical coordinates are used, related to cartesians as in Fig.1. The length of the cylinder is supposed long compared with its other dimensions. Laplace's equation is Eq.(2). The next general solutions are Eq.(3). For an external uniform field $\lambda = 1$ and the solution to Eq.(2) is Eq.(4). Two principal cases are then considered: magnetization along either x or y-axis. For the x-axis, the ferromagnetic layer splits the entire field into three regions and the separate solutions for scalar potential are given in Eq.(6). There are six constants of integration. Four of them are determined, Eq.(7), by the continuity of potential and normal component of the magnetic

Card 1/3

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S/144/60/000/008/001/003
E041/E455

Screening of an External Uniform Static Field by That of an Elliptical Cylinder

induction vector in passing from one medium to another. The fifth condition is given, in the third region, by the fact that the potential is analytic at infinity. The sixth boundary condition is given by the fact that, in the first region, the potential tends to zero when the permeability of the magnetic shield tends to infinity. The screening coefficient, defined as the number by which the external field must be multiplied to give the internal field is $K_{\ni x}$ in Eq.(9). The corresponding formula for y-axis magnetization is $K_{\ni y}$ in Eq.(11). The difference formula of Eq.(12) shows the screening along the smaller axis to be less effective than that along the larger. Examination of the formulae for the coefficients shows that $0 \leqslant K_{\ni x} \leqslant 1$ while $0 \leqslant K_{\ni y} \leqslant 2$. The latter result rather surprisingly shows that for certain cylinders and values of permeability, the screen concentrates the field within it. The effect is indicated graphically in Fig.2. The field components within the enclosure, given by Eq.(14), are uniform. There are 2 figures and 1 Soviet reference.

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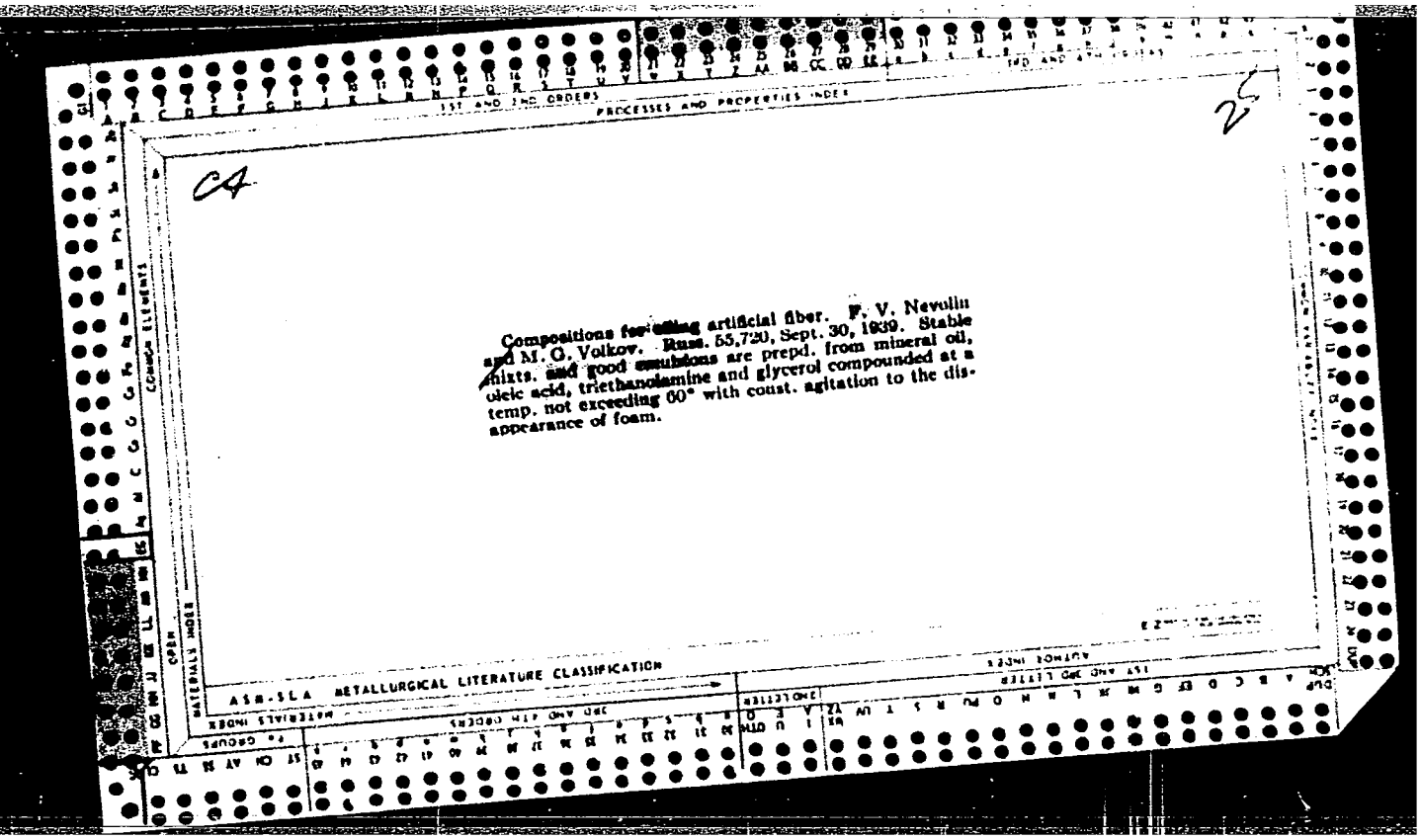
E041/E455

Screening of an External Uniform Static Field by That of an Elliptical Cylinder

ASSOCIATIONS: Leningradskiy elektrotekhnicheskiy institut (Leningrad Electrical Engineering Institute)
Voyenno-morskaya akademiya (Naval Academy)

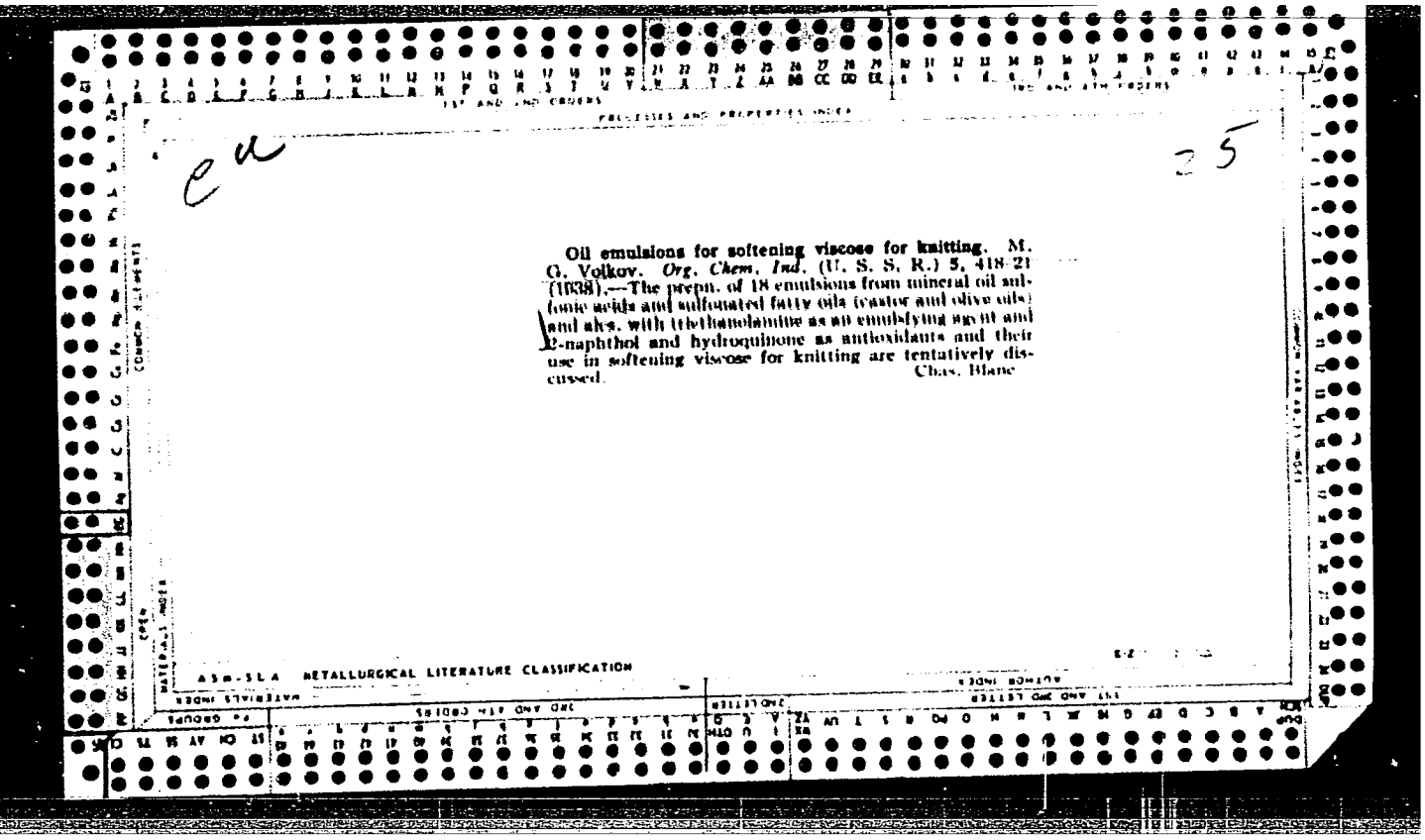
SUBMITTED: May 25, 1960

Card 3/3



C4

Compositions for cutting artificial fiber. F. V. Nevulin and M. G. Volkov. Russ. 55,720, Sept. 30, 1939. Stable emulsions are prepd. from mineral oil, oleic acid, triethanolamine and glycerol compounded at a temp. not exceeding 60° with const. agitation to the disappearance of foam.



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SF428.B7

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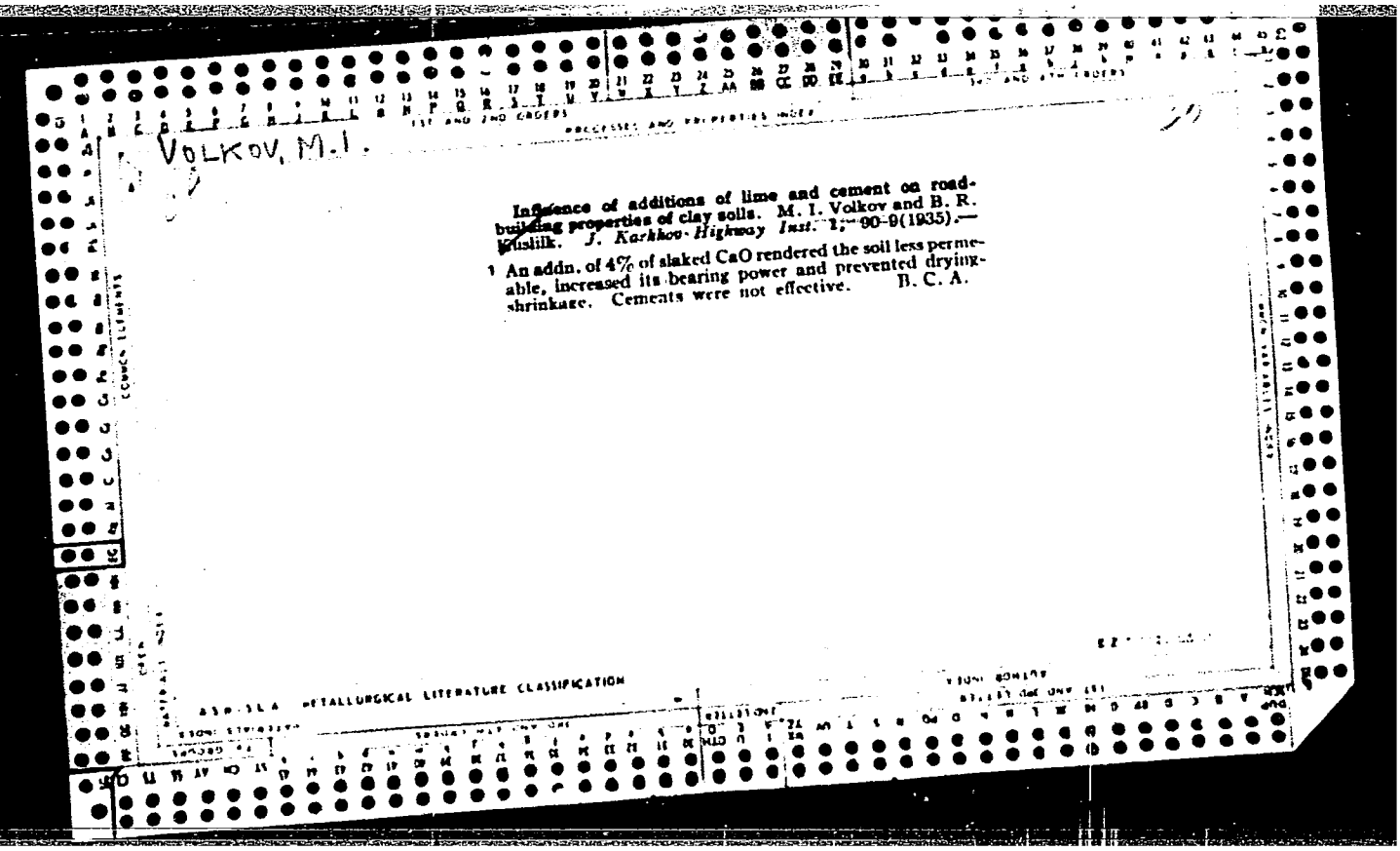

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4. Russia--Building 5. Russia--Road Research i. Road Building Materials ii. Title

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1. Kiyevskiy gosudarstvennyy universitet (for Chukhno). 2. Vysshaya partiynaya shkola pri TSentral'nom komitete Kommunisticheskoy partii Sovetskogo Soyuza (for Kozlov, Volkov, Zhukovskiy). 3. Yaroslavskiy gosudarstvennyy pedagogicheskiy institut (for Kashchenko, Narovlyanskiy, Sulimov). 4. Institut ekonomiki i organizatsii promyshlennogo proizvodstva Sibirskogo otdeleniya AN SSSR (for Aganbegyan). 5. Institut povysheniya kvalifikatsii prepodavateley obshchestvennykh nauk pri Kiyevskom gosudarstvennom universitete (for Nagornyy). 6. Moskovskiy gosudarstvennyy universitet (for TSagolov, Spiridonova). 7. Akademiya obshchestvennykh nauk pri TSentral'nom komitete Kommunisticheskoy partii Sovetskogo Soyuza (for Kovaleva). 8. Leningradskiy finansovo-ekonomicheskiy institut (for Pavlov). 9. Moskovskiy finansovyy institut (for Atlas). 10. Nauchno-issledovatel'skiy institut truda (for Kats). 11. Institut ekonomiki AN SSSR (for Anchishkin, Kronrod). 12. Moskovskiy ekonomiko-statisticheskiy institut (for Bregel'). 13. Moskovskiy energeticheskiy institut

(Continued on next card)