"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

Effect of the Bending of Measuring Rods on the Results of Leveling

references

ASSOCIATION: Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii
(Moscow Institute of Geodetic, Aerial Survey and Cartographic Engineers)

SUBMITTED:

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, N.I.

Effect of silage on the organism of young cattle. Zhivotnovodstvo 20 no.4:50-51 Ap '58. (MIRA 11:3)

1. Nauchnyy sotrudnik Kalininskoy gosudarstvennoy sel'skokhozyaystvennoy opytnoy stantsii.
(Ensilage) (Cattle--Physiology)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

[illegible]V, N. S.

Solution du Premier Probleme [illegible] $= a \frac{[illegible]}{\partial x} [illegible] \frac{\partial u}{[illegible]}$ ou $a_3 \frac{\partial u}{\partial r}$ + [illegible] Matem, [illegible]

SO: Mathematics in the USSR, [illegible]
edited by Kurosh, A.G.,
Markushevich, A.I.,
Rashevskiy, P.K.
Moscow-Leningrad, 194[illegible]

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

Piskunov, N. S.

Piskunov, N. S. Solution of a boundary problem for a nonlinear parabolic equation of motion of liquids and gases in a porous medium. Doklady Akad. Nauk SSSR (N.S.) 76, 505–508 (1951). (Russian)

The nonlinear equation

$$2p\frac{\partial^2 p}{\partial r^2}+2\left(\frac{\partial p}{\partial r}\right)^2+2r^{-1}p\frac{\partial p}{\partial r}-a^2\frac{\partial p}{\partial t}=0 \qquad (r>r_0)$$

with conditions $p(r,0)=p_1$, $\lim_{r\to\infty} p(r,t)=p_1$, $-Q$ describes a problem of flow in a porous medium. The substitution $\xi=r/\sqrt{t}$ enables the author to write the equation in the form

$$p''/p'+p'/p+1/\xi+a^2\xi/4p=0$$

which can be integrated:

$$pp'=c\xi^{-1}\exp\left[-\frac{a^2}{4}\int_{t_0}^{t}p^{-1}\xi dt\right].$$

The new conditions $\lim_{t\to\infty} p(t)=p_0$,

$$\left[pp'\right]_{t=\infty}=-Q^2\sqrt{\pi}$$

lead finally to

$$\tfrac{1}{2}p^2=Q^2r_0^2\int_{\xi}^{\infty}\xi^{-1}\exp\left[-\frac{a^2}{4}\int_{t_0}^{t}p^{-1}\xi dt\right]d\xi+\tfrac{1}{2}p_0^2.$$

An existence proof follows, in the course of which a method of successive approximations for finding p is evolved, and the constant Q^2 is evaluated, $Q^2T=Q$.

R. E. Gaskell.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

USSR/Geophysics - Petroleum Deposits 11 Jun 52

"Movement of the Oil-Bearing Contour and Pressure Drop in the Strata During Operations on Large-Scale Petroleum Deposits," N. S. Piskunov

"Dok Ak Nauk SSSR" Vol LXXXIV, No 5, pp 907, 908

Proposes a method for detg the pressure in unbounded stratum and the movement of the oil-bearing contour in the case of plans for working large-scale oil deposits with a large number of exploitational and forcing wells. Sets up math expressions for subject quantities. Submitted by Acad A. I. Nekrasov 19 Apr 52.

223T60

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

USSR/Geophysics - Petroleum, Surfaces of 1 Jul 52
Separation

"The Form of the Surface of Separation Between Water and Petroleum During Separating of Petroleum From the Stratum and During the Injecting of Water Into the Stratum. The Process Governing the Formation of Aqueous Cones," N. S. Piskunov

"Dok Ak Nauk SSSR" Vol LXXXV, No 1, pp 49-52

Considers an unbounded horizontal oil-bearing stratum under which is located an aquiferous stratum, with known thickness of the water and petroleum strata; the upper boundary of the oil stratum and the lower boundary of the water are regarded as impermeable.
224T68

Proceeds from the eqs of nonstationary (unsteady) motion of a fluid as obtained by S. A. Khristianovich and V. V. Devison (1938). Uses also the results of P. Ya. Polubarinova-Kochina. Submitted by Acad A. I. Nekrasov 3 May 52.

224T68

PISKUNOV, N.S.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, N. S.

Subject : USSR/Mining AID P - 1095

Card 1/1 Pub. 78 - 6/21

Authors : Trebin, F. A. and Piskunov, N. S.

Title : Problem of utilization of large oil deposits of platform type. (Continued from Neft. khoz., v. 32, #9, p25, S 1954, AID P - 822)

Periodical : Neft. khoz., v. 32, #10, 20-30, O 1954

Abstract : A general review of the hydrodynamic study of the contour of large oil deposits is presented. Drillings of operating and pressurized wells by various systems are discussed. The significance of double and triple systems of exploratory drillings or one and two side action systems is analysed from the viewpoint of increasing oil well production. 11 maps and 6 tables.

Institution : None

Submitted : No date

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, N. S.; GOVOROVA, G.L.

Approximation method for determining the movement of the water-oil boundary. Trudy VNII no.6:3-12 '54. (MLRA 9:1)
(Petroleum engineering) (Oil field flooding)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, N.S.

Determining the movement of the water-oil boundary and pressure decline in large oil field exploitation. Trudy VNII no.6:13-26 '54. (MLRA 9:1)

(Petroleum engineering) (Hydrodynamics)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

1976. Tsarevich, K. A., Pistsov, N. S., Govorova, G. I., and Glebova, T. A., A method of calculating mixed extraction systems (dissolved gas systems with a natural feeding or pumping contour) (in Russian), *Trudi Vses. nauchnogas. n.-i. in-ta* no. 6, 190-204, 1954; Rev. no. 960, *Ref. Zh. Mekh.* 1956.

Any oil field, with a specific configuration and arrangement of extraction boreholes, can be divided into elementary sections bounded by equivalent impermeable walls, at which the normal derivative of the potential (pressure) is zero. These sections can be represented by rectangles or sectors containing one or more boreholes.

The motive force of the flow of oil to the borehole(s) in conditions of mixed working is the pressure (head) of the contour water, and the expansion of the occluded gases.

An equation for the material equilibrium can be set up for any such elementary area. The boundary of a region with gasified liquid will be subject to a time variation.

The change in saturation on the contour of the region, at which conditions of dissolved gas operation are initiated, is assumed as the basis for the relationship derived by K. A. Tsarevich [*Tr. Mosk. neft. in-ta* no. 25, 1947].

Examples are given for setting up the equations of material equilibrium, for different elementary systems.

Courtesy of Referativnyi Zhurnal M. A. Gussein-zade, USSR
Translation, courtesy Ministry of Supply, England

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, N. S.

Subject : USSR/Mining AID P - 822

Card 1/1 Pub. 78 - 7/26

Authors : Trebin, F. A. and Piskunov, N. S.

Title : Problem of utilization of large oil deposits of the platform type

Periodical : Neft. khoz., v. 32, #9, 25-33, S 1954

Abstract : The author presents a hydrodynamic substantiation for suitable location of the operating and pressurized wells in order to increase the oil output. Various cases of the relative location of these wells are discussed and the effect of pressure on the oil output increase is analytically formulated with an integral equation. 14 plans and 3 tables. (The article will be completed in the next issue).

Institution: Laboratory of Underground Hydrodynamics of the All-Union Scientific Research Institute (VNII)

Submitted : No date

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

Call Nr: AF 1106825

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow Jun-Jul '56. Trudy ... V.1., Sect. Rpts., Izdatel'stv AN SSSR, Moscow, ... 317 pp.

Nuzhin, M. I. (Kazan') and G. G. Tumashev (Kazan'). Inverse Boundary Problems and Their Application in Mechanics. 208-209

Petrashen', G. I. (Leningrad). On the Investigation of Non-stationary Interference Phenomena in Media With Thin Layers. 209

Piskunov, N. S. (Moscow). On Some Problems of Underground Hydromechanics Leading to Boundary Problems of Partial Differential With Variable Domains. 209-210

Rvachev, V. L. (Osipenko). Design of Infinite Beams on Elastic Half-space. 210

Mention is made of Proktor, G. E. and Gorbunov-Posadov, M. I.

Rogozhin, V. S. (Rostov-na-Donu). Sufficient Conditions for Univalentness of Solution of Hydromechanics Inverse Boundary Problems. 210-211

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 87 (USSR) SOV/24-57-4-4472

AUTHOR: Piskunov, N. S.

TITLE: On Some Problems in Underground Hydromechanics Which Can Be Reduced to Boundary Problems Relative to Partial Differential Equations With a Variable Range (O nekotorykh zadachakh podzemnoy gidromekhaniki, privodyashchikh k kraevym zadacham dlya uravneniy v chastnykh proizvodnykh s peremennoy oblast'yu)

PERIODICAL: Tr. 3-go Vses. matem. s"yezda. Vol. I. Moscow, AN SSSR, 1956, pp 209-210

ABSTRACT: Bibliographic entry

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PHASE I BOOK EXPLOITATION 3

Piskunov, Nikolay Semenovich

Differentsial'noye i integral'noye ischisleniya dlya vtuzov (Differential and Integral Calculus for Vtuzes) Moscow, Gostekhizdat, 1957. 844 p. 15,000 copies printed.

Ed.: Smolyanskiy, M. L.; Tech. Ed.: Murashova, ... Ya.

PURPOSE: This book is intended as a textbook for a 300-400 hour course in mathematics at vtuzes.

COVERAGE: The monograph is a systematic presentation of calculus for engineering students. The author thanks Yu. S. Ochan and V. A. Solodkov for writing parts of the book, and A. N. Cherkasov, V. Ya. Kozolov, N. K. Brushlinskiy, I. Ya. Verchenko, and K. F. Malyavko for their assistance in writing the book.

Card 1/19

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

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Differential and Integral Calculus (Cont.)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

Differential and Integral Calculus (Cont.)

1) Sections written in part by Yu. S. Ochan are indicated by an asterisk; those written entirely by him are indicated by two asterisks.

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Differential and Integral Calculus (Cont.)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

Differential and Integral Calculus (Cont.) 3

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

Differential and Integral Calculus (Cont.)

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4. Continuity of a function of several variables *
5. Partial derivatives of a function of several variables
6. Geometric interpretation of the partial derivatives of a function of two variables
7. Total increment and total differential
8. Use of a total differential in approximate calculations
9. Application of a differential to the estimate of error bounds in calculations **
10. Derivative of a composite function. Total derivative
11. Derivative of a function in implicit form **
12. Partial derivatives of various orders
13. Contour lines
14. Directional derivative
15. Gradient
16. Taylor's formula for a function of two variables **
17. Maximum and minimum of a function of several variables
18. Maximum and minimum of a function of several variables, connected by given equations (conditional maximum and minimum)
19. Singular points of a curve

Exercises

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Differential and Integral Calculus (Cont.)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

Differential and Integral Calculus (Cont.)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

Differential and Integral Calculus (Cont.)

Card 13/ 19

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Differential and Integral Calculus (Cont.) 3

Ch. XIII. Differential Equations

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Differential and Integral Calculus (Cont.)

Ch. XIV. Multiple Integrals

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Differential and Integral Calculus (Cont.)

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Differential and Integral Calculus (Cont.) 3

3. Comparison of series with positive terms
4. D'Alembert's test
5. Cauchy's test
6. Integral test for convergence of series
7. Alternating series. Leibnitz theorem
8. Series with variable signs. Absolute and conditional convergence
9. Functional series
10. Majorant series
11. Continuity of the sum of a series
12. Integration and differentiation of series
13. Power series. Interval of convergence
14. Differentiation of power series
15. Power series of $x - a$ **
16. Taylor's and Maclaurin's series
17. Examples of expansion of functions into series
18. Euler's equation
19. Binomial series
20. Expansion of the function $\ln(1 + x)$ into a power series. Calculation of the logarithms
21. Calculation of definite integrals with the aid of series
22. Integration of differential equations with the aid of series
23. Bessel's equation

Exercises

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Diffferential and Integral Calculus (Cont.) 3

Ch. XVII. Fourier Series

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, N. S.

124-11-12922

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p 92 (USSR)

AUTHOR: Piskunov, N. S.

TITLE: To the Question of the Seepage of a Liquid in a Layer of Heterogeneous Capacity and Permeability (K voprosu o fil'tratsii zhidkosti v neodnorodnom po moshchnosti i pronitsayemosti plaste)

PERIODICAL: Tr. Vses. neftegaz. n.-i in-t, 1956, Nr 8, pp 232-249

ABSTRACT: A fairly simple, approximate method is developed for the calculation of the utilization of petroliferous deposits in a heterogeneous layer, which makes possible a quantitative appraisal of the phenomenon under study and a sufficiently accurate assessment of its quantitative yield. An equation is derived for the seepage of a liquid in a heterogeneous layer, and the following questions are examined:

1) The applicability of the solution of the parabolic equation (equation of an elastic regimen) for an infinite layer to the investigation of operational processes in a finite layer.

2) The possibility of replacing a group of producing wells with a single, large well.

Card 1/2 3) An evaluation of the pressure differentials introduced when a

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

Translation from Referativnyy zhurnal, Mekhanika, 1958 SOV 124-58 [illegible]

AUTHOR Piskunov N.S.

TITLE A Method for Computation of the Process of Exploitation of Oil Fields Under Elastic Seepage Conditions at Given Free-surface Contours

PERIODICAL [illegible] pp. 3-24

ABSTRACT The author examines a number of problems dealing with the flow of reservoir fluid toward the operating wells and the corresponding pressure fluid which is forced into the reservoir through injector wells. The displacement of the wells is assumed to be arbitrary. The seepage conditions are elastic. In order to effect a solution of these problems, a system of linear difference equations is introduced which provides a relationship between the increments in discharge flow and the pressure drops occurring in it. The author does not advance any hydrodynamic considerations in favor of the system of equations proposed [illegible] inasmuch as the wells sink into the

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

A Method for Computation of the Process of Exploitation of Oil Fields SOV 124-58-

reservoir are not uniformly distributed, the geometry of the system
significant effect on the process of seepage. This last consideration
flected in the system of equations proposed. Bibliography: 5 refere
V P P

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

SOV 124-58-7-7780

Translation from Referativnyy zhurnal. Mekhanika, [illegible] 1958

AUTHOR Piskunov, N.S

TITLE On Extracting Petroleum From Oil-bearing Layers With Underlying Water (Ob izvlechenii nefti iz neftyanykh plastov s podoshvennoy vodoy)

PERIODICAL Tr. Vses. neftegaz. n.-i. in-ta 1957, Nr 10, pp 88-100

ABSTRACT Examination of the flow of petroleum towards a shallow well situated in a layer limited by a cylindrical feed contour is made. The top part of the layer contains petroleum, the bottom part the underlying water. Both the petroleum and the water are considered incompressible. The seepage is considered stationary (the nonstationary problem for the case of unlimited layer was investigated by the author previously - Dokl. AN SSSR, 1952, Vol 85, Nr 1). On the petroleum-water boundary interface located below the well, continuity is assumed for the pressure and for the normal components of the seepage velocity. With these problem specifications, the water becomes immovable, the boundary interface will become that surface of the flow on which the pressure is a linear function of the z

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SOV 124-58-7-7780

On Extracting Petroleum From Oil-bearing Layers With Underlying Water

coordinate; thus the solution of the problem is reduced to the determination of the flow in one region only, namely, that containing petroleum. Similar conditions on the boundary interface of the two liquids were introduced by P. Ya. Polubarinova-Kochina and were utilized in the cases of the plane and axisymmetric problem (Izv. AN SSSR, Otd. tekhn. n., 1940, Nr 6; 1948, Nr 2). The author obtains an outside estimate of the water-free yield of the well under consideration for any depth of the boundary interface. This estimate is extended by him to the case of an anisotropic layer and it transpires that when the horizontal permeability of the layer is greater than the vertical permeability, the water-free yield increases. In addition, it is established that a completely water-free yield is impossible so long as the thickness of the oil-bearing portion [illegible] greater than zero.

N. N. Verigin

[illegible]

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, N.S.

Method for calculating the elastic drive process at given pressures in production and injection wells. Trudy VNII no.10:3-24 '57. (MIRA 14:6)

(Oil field flooding)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, N.S.

Petroleum recovery from layers containing bottom waters. Trudy VNII no.10:88-100 '57. (MIRA 14:6)
(Oil reservoir engineering)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, N.S.

Analyzing the performance of parting and boundary rows of intake wells.
Trudy VNII 12:103-119 '58. (MIRA 12:3)
(Oil field flooding)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, N.S.

Formation fracturing and its effect on oil well exploitation.
Trudy VNII no.16:3-24 '58. (MIRA 11:12)
(Oil wells--Hydraulic fracturing)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, N.S., TESLYUK, Ye.V.

Problem of the length of time of water-free exploitation of a water-oil layer by different tapping methods: hydraulic fracturing, imperfect well, imperfect well with an exclusion screen. Nauch.-tekh. sbor. po dob. nefti no.1:5-10 '58. (MIRA 15:9)

1. Vsesoyuznyy neftegazovyy nauchno-issledovatel'skiy institut.
(Oil fields--Production methods)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, N.S., ROSENBERG, M. D., [illegible], D. A., BOR[illegible], Yu. P., KRYLOV, [illegible],
PILATOVSKIY, V. P. (Mo[illegible])

"The Hydrodynamic Problems [illegible] exploitation."

report presented at the First All-Union [illegible] Theoretical and Appl[illegible]
Mechanics, Moscow, [illegible] Jan - [illegible] Feb [illegible].

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PEKUNOV, N. S. (Moscow)

"An Approximate Variational Method for Solving the Dirichlet-Neumann Problem in Two Adjacent Domains with a Common Portion of Boundary Applied to Problems of Subterranean Hydromechanics."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan. - 3 Feb 1960.

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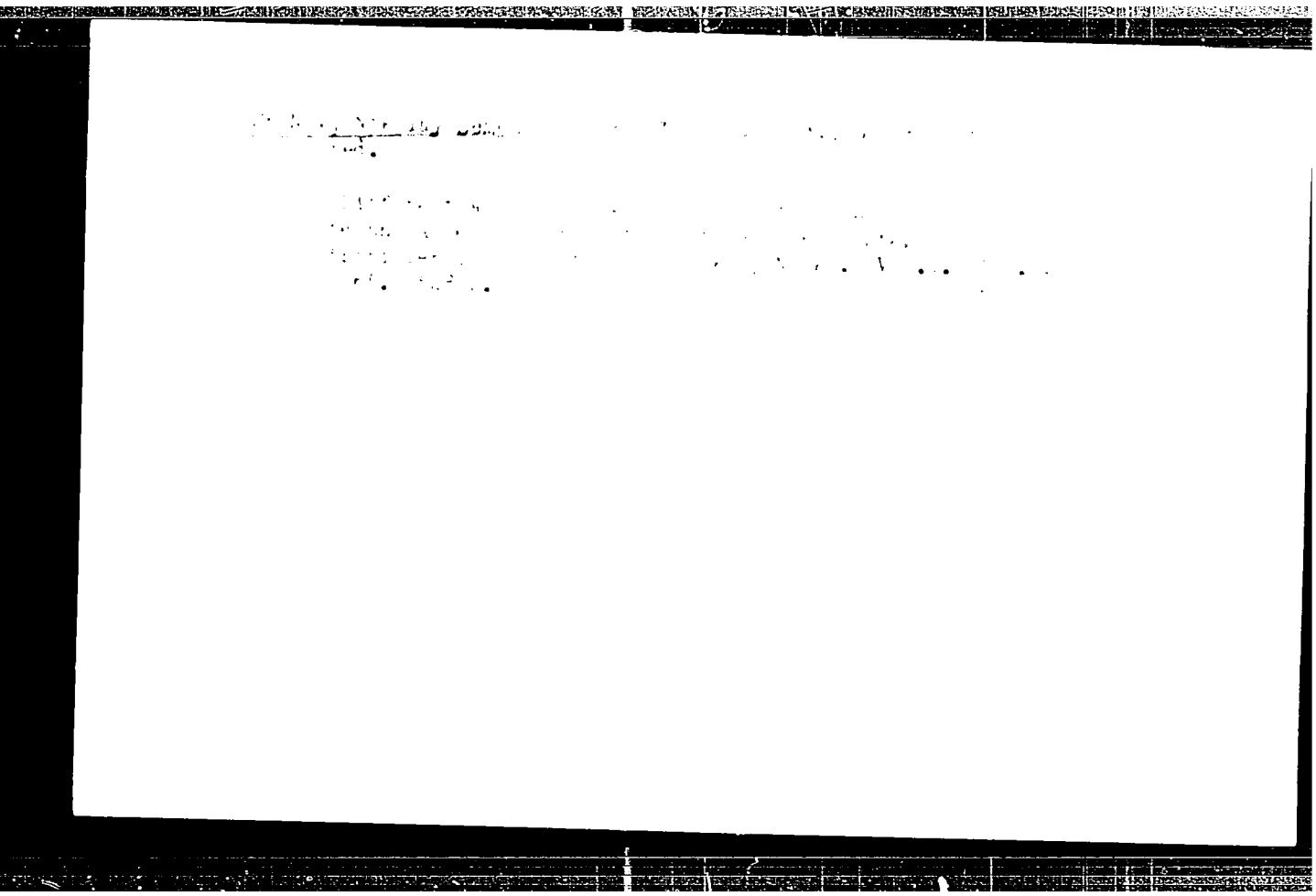
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



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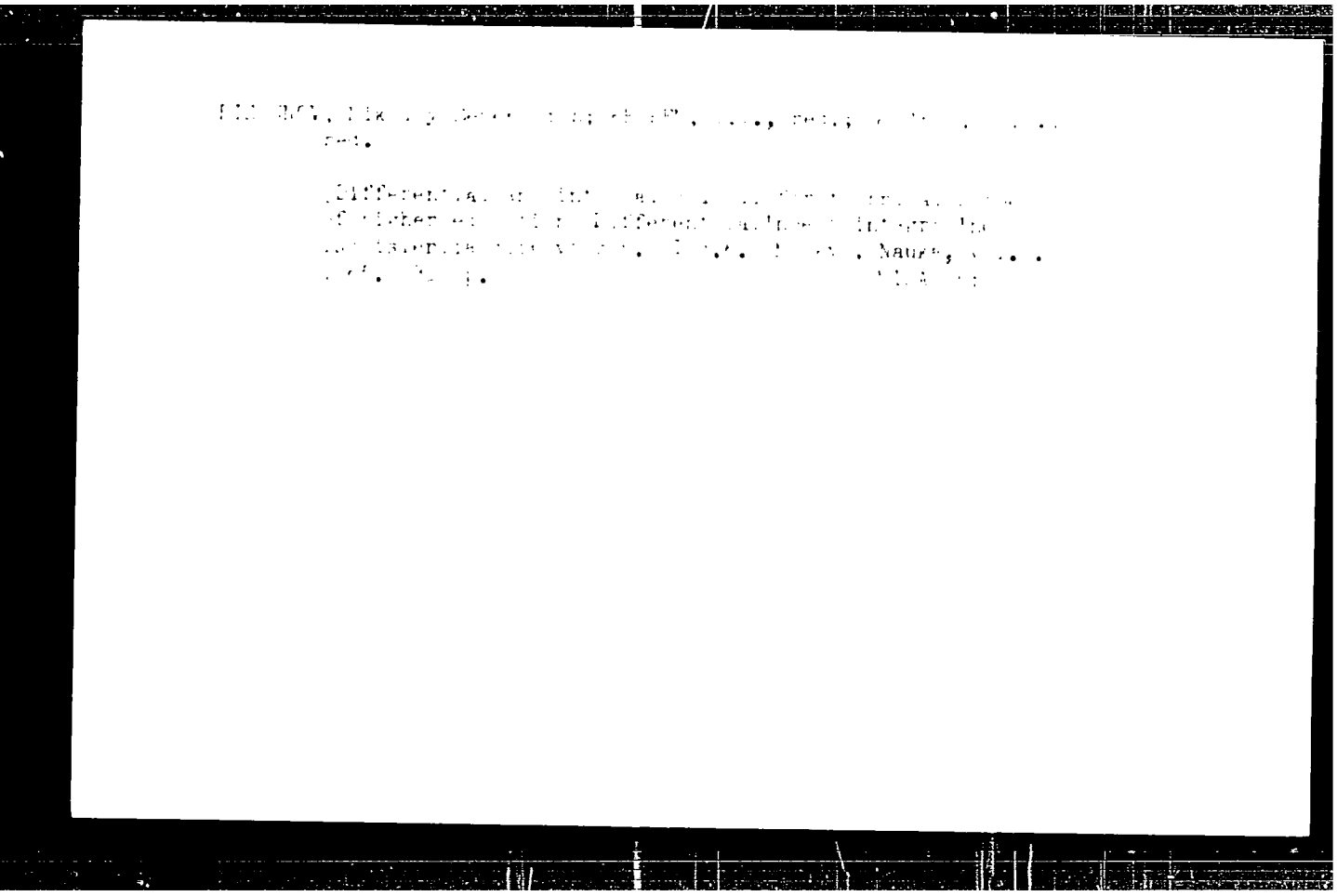

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, Nikolay Semenovich; SMOLYANSKIY, M.L., redaktor; MURASHOVA, N.Ya., tekhnicheskiy redaktor

[Differential and integral calculus for higher technical schools] Differentsial'noe i integral'noe ischislenilia; dlia vtuzov. Moskva, Gos.izd-vo tekhniko-teoret. lit-ry, 1957. 844 p. (MIRA 10:8)
(Calculus, Differential) (Calculus, Integral)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, Nikolay Semenovich; KEPPEN, I.V., red.; GAVRILOV, S.S., tekhn.red.

[Differential and integral calculus for technical institutions of higher learning] Differentsial'noe i integral'noe ischisleniia dlia vtuzov. Izd.2., perer. Moskva, Gos.izd-vo fiziko-matem. lit-ry, 1960. 748 p. (MIRA 13:9)
(Calculus, Differential) (Calculus, Integral)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, Nikolay Semenovich; KEPPEL, I.V., red.; GAVRILOV, B.S., tekhn. red.

[Differential and integral calculi for schools of higher education] Differentsial'noe i integral'noe ischisleniia dlia vtuzov. Izd.3., stereotipnoe. Moskva, Fizmatgiz, 1961. 748 p. (MIRA 15:7)

(Calculus, Differential) (Calculus, Integral)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, Nikolay Semenovich; KEPPEN, I.V., red.; PLAKSHE, L.Yu., tekhn.red.

[Differential and integral calculi for institutes of higher technical education] Differentsial'noe i integral'noe ischisleniia dlia vtuzov. Izd.4., dop. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1962. 855 p. (MIRA 15:5)
(Calculus, Differential) (Calculus, Integral)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, Nikolay Semenovich; [illegible], I. [illegible], red.; [illegible], [illegible] A., red.

[Differential and integral calculus for institutions of higher technical education] Differentsial'noe i integral'noe ischislenie dlia vtuzov. Izd.[illegible]. Moskva, Izd-vo "Nauka," [illegible] [illegible] 31[illegible] p. (MIRA [illegible])

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, Nikolay Semenovich; KELTEN, I.V., red.; GOR'KOV, Yu.A., red.; MURASHOVA, N.Ya., tekhn. red.

[Differential and integral calculi for technical schools of higher education] Differentsial'noe i integral'noe ischislenie dlia vtuzov. Izd.4. Moskva Izd-vo "Nauka," Vol.1. 1964. 544 p. (MIRA 17:5)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

BORISOV, Yu.A.; PISKUNOV, N.V.

Information. Tekst. prom. 23 no.9:95-96 S '63. (MIRA 16:10)

1. Glavnyy inzh. Kostromskogo zavoda Tekstil'mash Verkhne-Volzhskogo soveta narodnogo khozyaystva (for Borisov). 2. Redaktor radioveshchaniya Kostromskogo zavoda Tekstil'mash Verkhne-Volzhskogo soveta narodnogo khozyaystva (for Piskunov).
(Textile machinery)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, P.I., doktor tekhn.nauk.

Experimental testing of uniflow multiple-stage clarifiers. (MIRA 11:5)
Trudy GISI no.25:141-144 '56.
(Water--Purification)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

USSR /Chemical Technology. Chemical Products and Their Application
Water treatment. Sewage water. H-5

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1589

Author : Piskunov P.I.

Inst : Gor'kiy Institute of Civil Engineering

Title : Experimental Study of Uniflow Multilevel Settling Tank

Orig Pub: Tr. Gor'kovsk. inzh.-stroit. in-ta, 1957, No 25, 141-144

Abstract: A study was made of the operation of the two-level, horizontal settling tanks of the Gor'kiy water supply system. It is shown that the multilevel settling tanks with parallel flow of water along bottom and top level operate like two identical

Card 1/2

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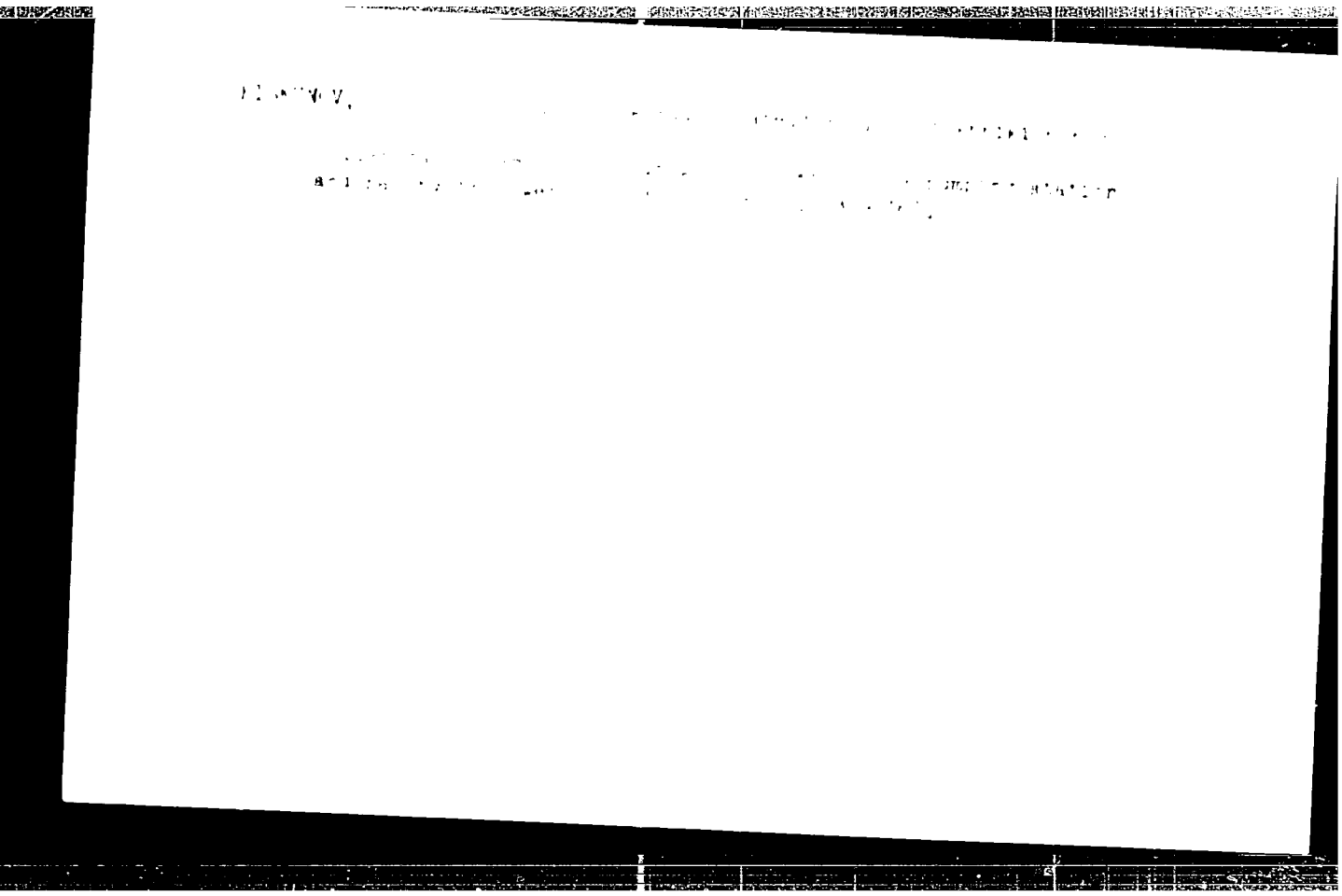


APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

KOLOMNY, Yuriy Izrailevich; [illegible]

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

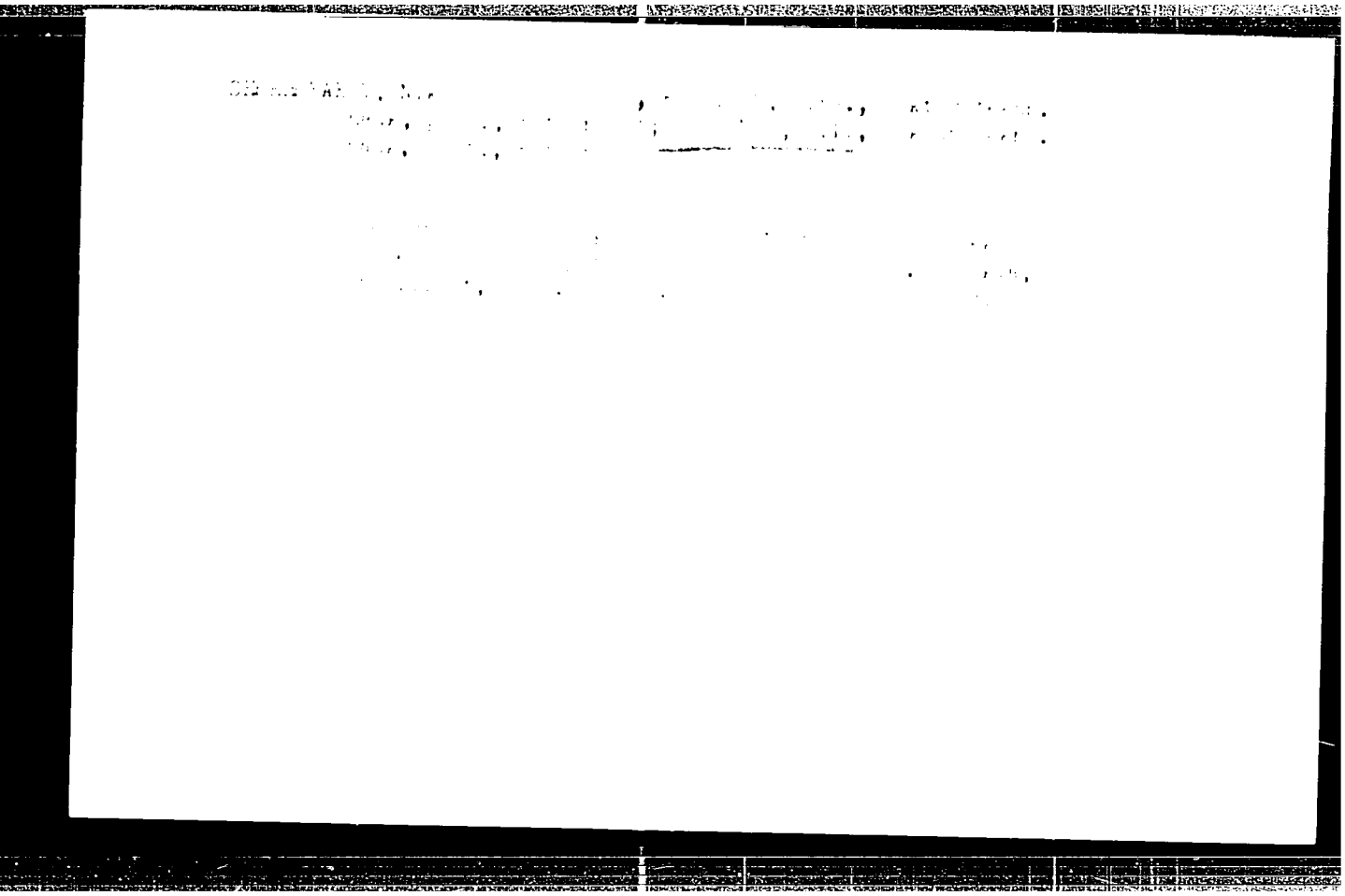
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

LENSKIY, Vasiliy Alekseyevich, dots. kand.tekhn.nauk; PAVLOV, Vasiliy Ivanovich, dots.kand.tekhn.nauk [deceased]; PISKUNOV, P.I., prof. doktor tekhn.nauk, retsenzent; [illegible]EVSKIY, M.S., dots.kand.tekhn.nauk, nauchnyy red.; POPKOVICH, V.S., kand.tekhn.nauk, dots., nauchnyy red. BORSHCHEVSKAYA, N.M., red.izd-va; SMIRNOVA, A.P., red.izd-va; GUSEVA, S.S., tekhn.red.

[Water supply and sewerage] Vodosnabzhenie i kanalizatsiia. Izd. 2-oe, perer. Moskva, Gos. izd-vo lit-ry po stroit. i arkh., 1958. 379 p. (MIRA 11:5)
(Sewerage) (Water supply engineering)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, Pavel Ivanovich, prof., doktor tekhn.nauk; NAGORNOV, Nikolay Ivanovich; PERLINA, A.M., red.; SHVEDOV, Yu.F., red.izd-va; KONYASHINA, A.D., tekhn.red.

[Operation of clarifiers with suspended filters] Praktika ekspluatatsii osvetlitelei so vzveshennym fil'trom. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1957. 48 p. (MIRA 11:1)

1. Glavnyy inzhener Gor'kovskogo vodoprovoda.
(Water--Purification)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, P. I., Professor

Doc Tech Sci

Dissertation: "Experimental and Theoretical Investigation of Horizontal Settling Tanks in a Water Supply System." 27/6/50

Moscow Order of the Labor Red Banner Engineering Construction Inst imeni V. V. Kuybyshev

SO Vecheryaya Moskva
Sum 71

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, P. I.

The water supply of factories and plants) Moskva, Gos. izd-vo stroit. lit-ry, 1951. 106 p. (52-19096)

TD345.P5

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, R.A., inzh.

Prestressed roof [illegible]
[illegible]

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, S.A., inzh.

Device for studying the wear of the collectors of electrical machines. Vest. elektroprom. 34 no.2:62 F '63. (MIRA 16:2)
(Electric machinery—Measurements)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

DEVYATKOV, Aleksandr Fedorovich; VOLOTSKIY, N.P.; PISKUNOV, S.A.; SHATS, Ye.L.; KRYUKOV, V.L., red.; BALLOD, A.I., tekhn.red.; GOR'KOVA, Z.D., tekhn.red.

[Repair of electric machines and transformers] Remont elektricheskikh mashin i transformatorov. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1960. 270 p. (MIRA 13:11)
(Electric machinery--Maintenance and repair)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, S.A., inzh.

Problems concerning the use of the collectors of electrical machines. Prom.energ. 17 no.5:6-9 My '62. (MIRA 15:5)
(Electric machinery)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, S. I.

95

B/089/62/013/006/019/027
B102/B186

AUTHORS: C. T. and M. R.

TITLE: Nauchnaya konferentsiya Moskovskogo inzhenerno-fizicheskogo instituta (Scientific Conference of the Moscow Engineering Physics Institute) 1962

PERIODICAL: Atomnaya energiya, v. 13, no. 6, 1962, 603 - 606

TEXT: The annual conference took place in May 1962 with more than 400 delegates participating. A review is given of these lectures that are assumed to be of interest for the readers of Atomnaya energiya. They are following: A. I. Leypunskiy, future of fast reactors; A. A. Vasil'yev, design of accelerators for superhigh energies; I. Ya. Pomeranchuk, analyticity, unitarity, and asymptotic behavior of strong interactions at high energies; A. B. Migdal, phenomenological theory for the many-body problem; Yu. D. Fivejskiy, deceleration of medium-energy antiprotons in matter; Yu. M. Kogan, Ya. A. Iosilevskiy, theory of the Mössbauer effect; M. I. Ayasanov, theory of ionization losses in nonhomogeneous medium; Yu. B. Ivanov, A. A. Rukhadze, h-f conductivity of subcritical plasma;

Card 1/4

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35

Nauchnaya konferentsiya... S/089/62/013/006/019/027
B102/B186

design of 30-Mev electron linear accelerator; Ye. G. Pyatnov, A. A. Glaskov, V. G. Lopato, A. I. Pinogenov, G. N. Skepskiy, V. D. Selesnev, experimental characteristics of low-energy electron linear accelerators; G. A. Zeytlenk, V. M. Levin, S. I. Piskunov, V. L. Smirnov, V. K. Khokhlov, radiocircuit parameters of ЛУЭ (LUE)-type accelerators; G. A. Tyagunov, O. A. Val'dner, B. K. Gokhberg, S. I. Korshunov, V. I. Kotov, Ye. M. Moros, accelerator classification and terminology; O. S. Milovanov, V. B. Varaksin, P. R. Zenkevich, theoretical analysis of magnetron operation; A. G. Tragov, P. R. Zenkevich, calculation of attenuation in a diaphragmated waveguide; Yu. P. Lazarenko, A. V. Ryabtsev, optimum attenuation length for linear accelerator; A. A. Zhigarev, B. Ye. Yeliseyev, review on trajectographs; I. G. Morozova, G. A. Tyagunov, review on more than 500 ion sources; M. A. Abroyan, V. L. Komarov, duoplasmatron-type source; V. S. Kusnetsov, A. I. Solnyshkov, calculation and production of intense ion beams; V. M. Rybin (Ye. V. Armenskiy), inductive current transmitters of high sensitivity; V. I. Korosa, G. A. Tyagunov, kinetic description of linear acceleration of relativistic electrons; A. D. Vlasov, phase oscillations in linear accelerators; E. L. Burshteyn, G. V. Voskresenskiy, beam field effects in the waveguide of an electron linear accelerator; B. S. Bobovikov,

Card 3/4

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L 34549-65 EWT(d)/EED-2/EWP(1) Pq-4/Pg-4/Pk-4 IJP(c) BB/GG
ACCESSION NR: AP5013727 UR/0286/65/000/008/0066/0066

AUTHOR: [illegible]; [illegible]; [illegible]

TITLE: Summator with pulse width representation of numbers. Class 42, No. 170206

SOURCE: Byulleten' izobretenniy i tovarnykh znakov, no. 8, 1965, 66

TOPIC TAGS: summator

ABSTRACT: This Author Certificate presents a summator with pulse width representation of numbers, containing multistable time-pulse units. One unit is connected through an "OR" circuit, which is connected to the transfer output of the preceding summator digit, to the first inputs of a second "OR" circuit and an "AND" circuit, whose second inputs are connected to the other unit (see Fig. 1 on the Enclosure). There are also a third "OR" circuit forming the sum modulo ten and a transfer pulse shaper section. To utilize high stability chronotrons, a shaping circuit is connected between the second and third "OR" circuits. The supply inputs of the multistable time-pulse units are connected to sources of forward and additional reference voltages. Orig. art. has: 1 diagram.

ASSOCIATION: Institut matematiki, SO AN SSSR (Institute of Mathematics, SO AN SSSR)

SUB CODE: 09

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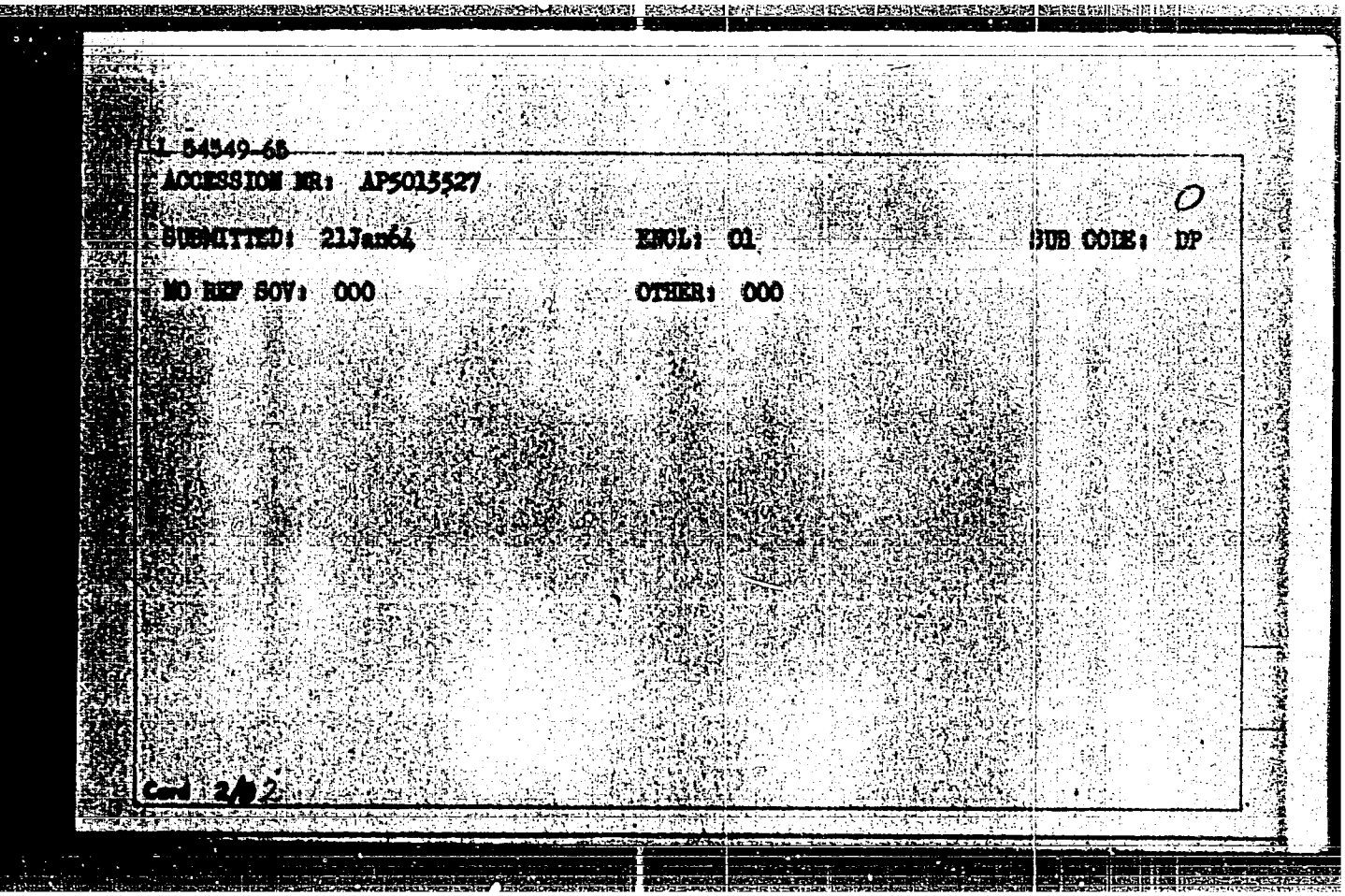
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



L 54549-65
ACCESSION NR: AP5013527

SUBMITTED: 21Jan64 ENCL: 01 SUB CODE: DP

NO REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

L 42036-65 EWT(1)/EWA(h) Peb

ACCESSION NR: AP5010958 UR/0286/65/000/007/0135/0135

11
10
0

AUTHOR: Piskunov, S. V.

TITLE: Sequential decimal summator. Class 42, No. 169091

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 135

TOPIC TAGS: summator, counter circuit 25

ABSTRACT: This Author Certificate presents a sequential decimal summator containing a phase-to-pulse number converter and a decade counter. To insure algebraic summation and to simplify the circuit, the first input of the trigger of the first term to time-pulse representation converter is connected to a source of pulses of the first term. The second input is connected to sources of null pedestal pulses of the main and secondary cycles, and the trigger output is connected to the first input of the "AND" circuit of the first term to direct unitary code converter. Its second input is connected to the main cycle pulse source, and its output is connected to the first input of an "OR" circuit. The first input of the trigger of the second term to time-pulse representation converter is connected to a source of pulses of the second term. The second input is connected to the source of pulses of the main and secondary cycles. The direct output of the trigger is connected to the first input of the three-input "AND" circuit of the second term to direct unitary

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ACCESSION NR: AP5010958

code converter. Its two other inputs are connected to a source of pulses of the main cycle from the first to the ninth and to a source of summation command. The inverse output of the trigger is connected to the first input of the three-input "AND" circuit of the second term to secondary unitary code converter. Its two other inputs are connected to a source of pulses of the main cycle from the first to the eighth. The outputs of these "AND" circuits are connected to the second and third inputs of the "OR" circuit whose output is connected to the counter input of a phase-pulse multistable unit. The second cutoff input of the unit is connected to the source of null pedestal pulses. The cycle pulse input is connected to the source of secondary cycle pulses. The output of the phase-pulse multistable unit is connected to the first inputs of sum selection coincidence circuits and a transfer (borrowing exclusion) pulse shaper circuit. The second inputs are connected to sources of pulses of the secondary and main cycles respectively. The output of the transfer (borrowing exclusion) pulse shaper circuit is connected to the unit input of the register whose zero input is connected to the source of the first term pulses. The register output is connected through a differentiating circuit to the fourth input of the "OR" circuit.

ASSOCIATION: Institut matematiki, SO AN SSSR (Institute of Mathematics, SO AN SSSR)

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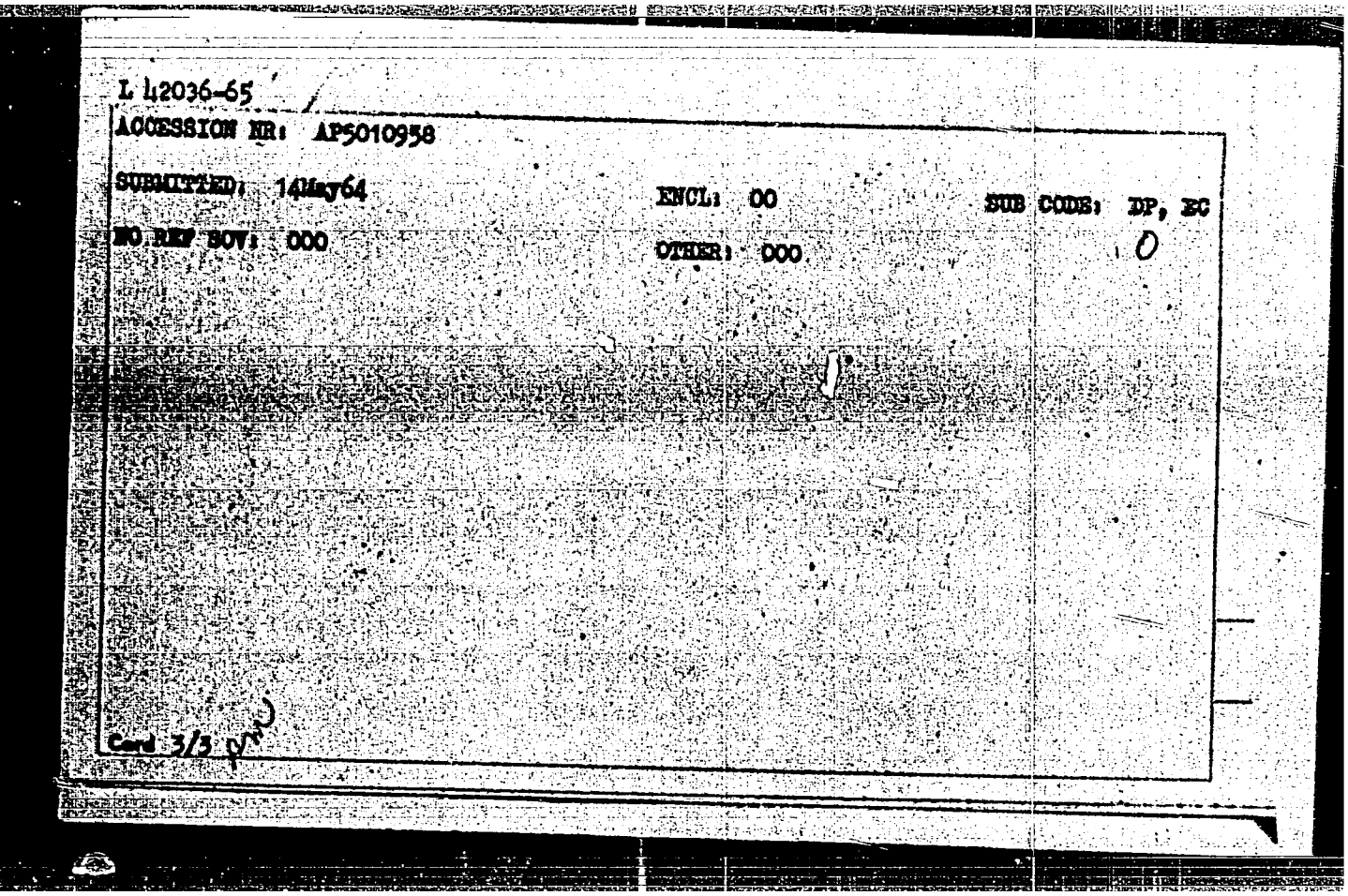


L 42036-65

ACCESSION NR: AP5010958

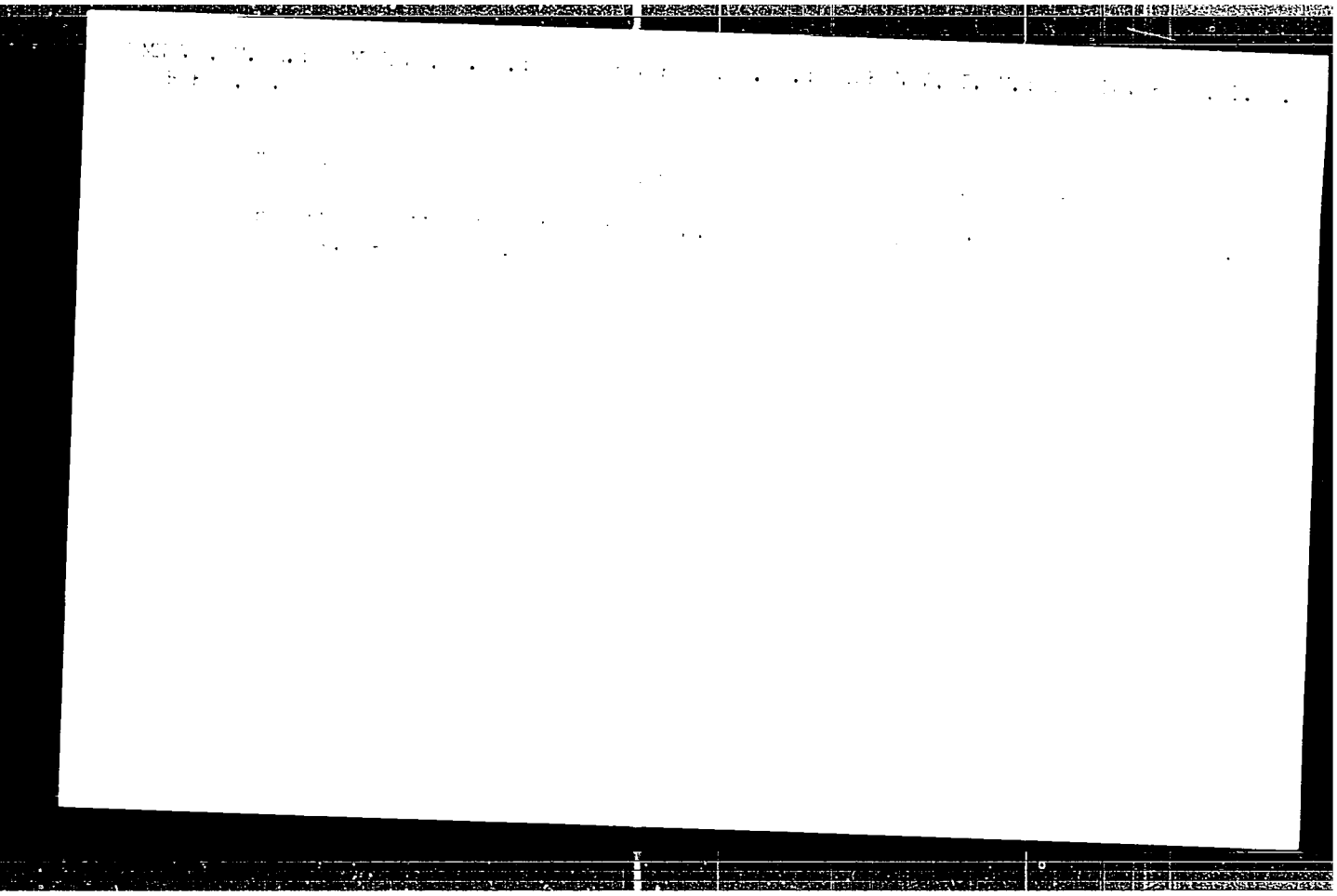
SUBMITTED: 14May64 ENCL: 00 SUB CODE: DP, EC

NO REF SOV: 000 OTHER: 000

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, V.

What is published in economics by the State Publishing House of Political Literature in 1964. Vop. ekon. no.1:144-147 Ja '64. (MIRA 17:3)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, V., master sporta

"Abrakadabra" is a new figure in advanced flying. Kryl. rod. 14 no.2:21 F '63. (MIRA 16:4)

(Aerial sports)

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PISKUNOV, V.

Literature for studying economics. Vop. ekon. [illegible]
Mr '62.

(Bibliography--Economics)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

ABRAMOV, V.A.; RUMYANTSEV, A.F.; CHAYKIN, P.I.; ABATURIN, L.V.; GAVRILOV, V.I.; ALTAYSKIY, I.P.; KAMENSKIY, A.Ye.; SUSACH, P.V.; VASIL'YEV, V.N.; OBOLENSKIY, K.P.; SAVEL'YEV, Ye.A.; MOTOV, S.I.; ALSAKOV, G.K.; IVANOV, F.G.; PISKUNOV, V., red.; POLYA[illegible], red.; MUKHIN, Yu., tekhn. red.

[Economi[illegible] of agricultural enterprises; textbook] Ekonomika sel'skokhoziaistvennykh predpriiatii; uchebnoe posobie. Moskva, Gospolitizdat, 1962. 510 p. (MIRA 15:9)

1. Kommunisticheskaya partiya Sovetskogo Soyuza. Vysshaya partiynaya shkola.

(Farm management)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PISKUNOV, V.; PODGORNOVA, V.; POLYAKOVA, N.; ROCHKO, V.; KHOLOD, S.

[Study the economics of your enterprise; visual aid for students of economics schools] Izuchai ekonomiku svoego predpriiatiia; nagliadnoe posobie dlia slushatelei nachal'nykh ekonomicheskikh shkol. Leningrad, Gospolitizdat, 1961. 46 p. (MIRA 14:4)

(Industrial management—Audio-visual aids)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

BERRI, Lev Yakovlevich; TOLKACHEV, Aleksandr Sergeyevich; PISKUNOV, V., red.; DANILINA, A., tekhn.red.

[Economic and technical foundation of communism] Material'no-tekhnicheskaia baza kommunizma. Moskva, Gos.izd-vo polit.lit-ry, 1960. 97 p. (MIRA 13:7)
(Russia--Industries) (Communism)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

LOKSHIN, E.Yu., prof., doktor ekon.nauk; ANDREYEVA, O.I., kand.ekon.nauk; VOROSHILOVA, T.S., dotsent, kand.ekon.nauk; TARAS'YANTS, dotsent, kand.ekon.nauk; PASOLYAK, N.D., dotsent, kand.ekon.nauk; EYDEL'MAN, M.R., kand.ekon.nauk; YAKOBI, A.A., dotsent, kand.ekon.nauk; PISKUNOV, V., red.; MUKHIN, Yu., tekhn.red.

[Economics of the supply of materials and equipment; a textbook] Ekonomika material'no-tekhnicheskogo snabzheniia; uchebnoe posobie. Moskva, Gos.izd-vo polit.lit-ry, 1960. 510 p.
(MIRA 13:11)

(Industrial procurement)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

KOVALEV, P.P.; GLADKOV, I.A., redaktor; MITROFANOVA, S., redaktor; PISKUNOV, V., redaktor; DANILINA, A., tekhnicheskiy redaktor

[Development of electrification in Soviet lands from 1921 to 1925; a collection of documents and papers] Razvitie elektrifikatsii sovetskoi strany 1921-1925 gg.; sbornik dokumentov i materialov. Moskva, Gos. izd-vo polit. lit-ry, 1956. 703 p. (MLRA 10:1)
(Electrification)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

POLYANOVSKIY, Valentin Naumovich; PISKUNOV, V., red.; TROYANOVSKAYA, N., tekhn.red.

[In the interests of the people] V interesakh naroda. Moskva, Gos. izd-vo polit.lit-ry, 1957. 31 p. (MIRA 11:3)
(Agriculture)

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KAMENITSER, S.Ye.; F[illegible]OVICH, V.; PISHCHULIN, G.; PISKUNOV, V., red.; [illegible]KAYA, N., tekhn.red.

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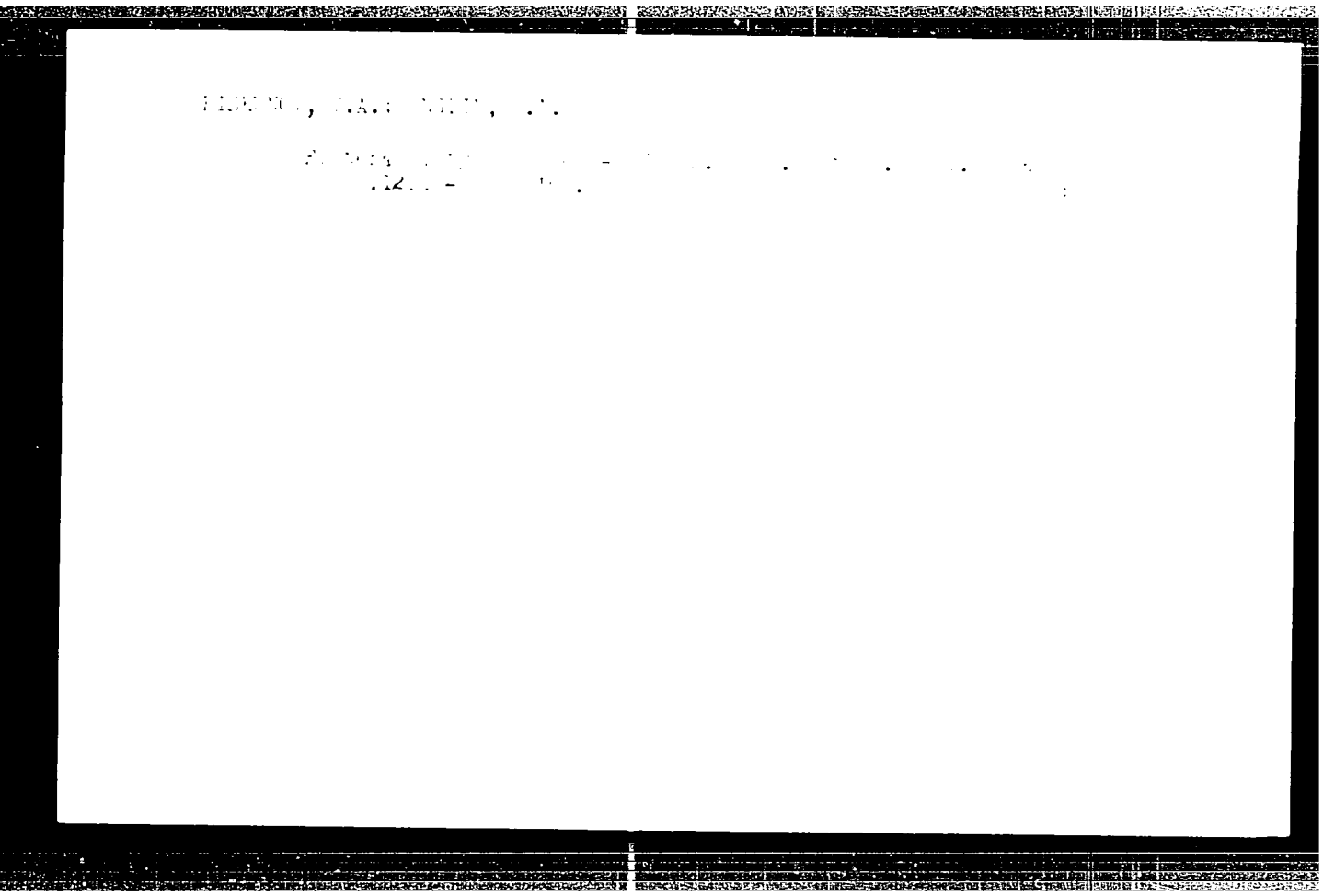

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L 53611-65 EWG(j)/EWT(m)/EPF(c)/EPR/T/EWP(t)EWP(b) Pr-4/Ps-4 IJP(c)
ACCESSION NR: AP5011692 JD/WE UR/0065/65/000/005/0049/0052
665.521.3

AUTHORS: Piskunov, V. A.; Zrelov, V. N.

40
B

TITLE: Abrasive properties of microimpurities and oxidation products in jet propulsion fuels

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 5, 1965, 49-52

TOPIC TAGS: jet motor, jet engine fuel, fuel, abrasion, abrasive, impurity content, impurity movement/ TS 1 jet propellant, T 1 jet propellant, T 5 jet propellant

ABSTRACT: Special experiments were conducted in an effort to determine the nature of machine detail abrasion by microimpurities and precipitates in jet propulsion fuels. From 60 to 70% of such admixtures consisted of highly abrasive oxides of iron, silicon, calcium, magnesium, aluminum, sodium, and copper. In supersonic aircraft the heating of fuel to 100-150C increased the formation of hard thermo-oxidation precipitates. At 150C their content in the TS-1 propellant was 84.7 g/T, in T-1 it was 144.9 g/T, and in T-5 fuel 44.9 g/T, with particles ranging in size from 1 to 1000 microns. The experiments consisted in measuring of the time periods required for a pump to transit from minimum to maximum of its capacity (determined

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by the carrying capacity of a special jet tube) for the TS-1 fuel containing 30 mg/liter of impurities at the temperature range from 100 to 1500. This transition time period decreased due to the erosion of the regulating jet tube. The amount of wear was equal to that obtained with TS-1 containing corundum powder. High destruction processes were observed in engines working at higher rates and in supersonic jets, due to the formation of thermal oxidation products. Experimental results obtained for different engine and fuel types are tabulated. Orig. art. has: 3 tables.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: FP, PR

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Card 2/2

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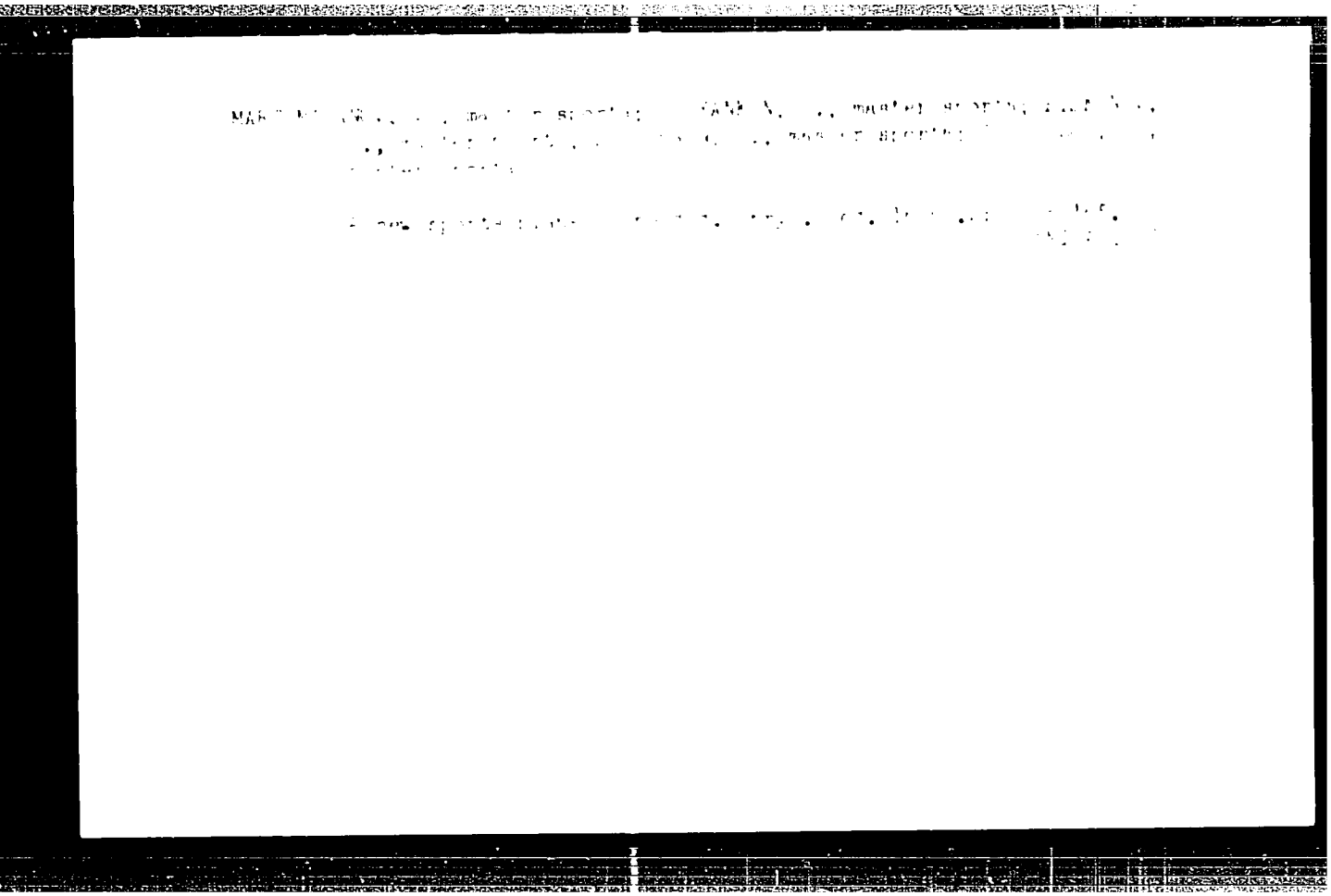

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