"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

On a Starting-Up Circuit [illegible] Condenser Induction [illegible] 161 - [illegible]
Motor

can be successfully used in two-phase condenser motors. In a three-phase motor it is only applicable subject to certain restrictions, as it leads to a distortion of the moment-versus-slip curve. The suggested circuit can be of interest under certain conditions, as it is simple and economical. There are [illegible] figures and [illegible] Soviet references. The publication of this article was recommended by the Kafedra elektricheskogo transporta Moskovskogo energeticheskogo instituta (Chair of Electric Transportation at the Moscow Institute of Power Engineering).

ASSOCIATION: Kafedra elektricheskogo transporta Moskovskogo energeticheskogo instituta (Chair of Electric Transportation at the Moscow Institute of Power Engineering); Kafedra elektrotekhniki Moskovskogo vysshego tekhnicheskogo uchilishcha im. Baumana (Chair of Electrical Engineering at the Moscow Higher School of Technology imeni Bauman)

SUBMITTED: January 21, 1958

Card 3/4

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEKRASOV, Oleg Alekseyevich, kand.tekhn.nauk, starshiy nauchnyy sotrudnik

Frequency regulation of asynchronous driving motors. Izv. vys. ucheb. zav.; elektromekh. 1 no.6:77-89 '58. (MIRA 11:9)

1. Kafedra elektricheskogo transporta Moskovskogo energeticheskogo instituta.
(Electric locomotives) (Electric motors, Induction)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

8(6)

AUTHOR: Nekrasov, Oleg Alekseyevich, Candidate of Technical Sciences, Senior Scientific Worker, Chair of Electric Transportation, Moscow Power Engineering Institute SOV/144-58-2-27/30

TITLE: On the Current Supply of Mine Transportation Nets for Condenser Electric Engines (Ob elektrosnabzhenii rudnichnoy otkatki pri kondensatornykh elektrovozakh)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika, 1958, Nr 2, pp 217 - 222 (USSR)

ABSTRACT: The energy-supply system of the transportation with a single-phase current and condenser locomotives shows some peculiarities which consist of an asymmetric load on the train-transformers and in increased difficulties to protect the system against short-circuit currents. These questions are now treated briefly, i.e. on the basis of the author's elaborations and practical experience gained in the transportation by means of electric engines KE-2. The calculations were applied to these locomotives (Ref 1). The results of these calculations are given here. Admissible transformers loads are investigated and calculations of a system for minimum voltage at the

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

On the Current Supply of Mine Transportation Means f r [illegible]
Condenner Electric Engines

collector are performed. The system f r short-circuit currents is calculated; the reactance protection of a short-circuit current is investigated and it is demonstrated t at it is the best means of simplifying and reducing costs of the current-supply system. There are 2 figures and 4 Soviet references.

ASSOCIATION: Kafedra elektricheskogo transporta Moskovskogo energeticheskogo institut ta (Chair of Electric Transportation at the Moscow Power Engineering Institute)

SUBMITTED March 11, 1958

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

8(5), 12(3)

AUTHORS: Nekrasov, Oleg Alekseyevich, Candidate of Technical Sciences, Senior Scientific Associate of the Chair, Rokus, Grigoriy Gavrilovich, Assistant

SOV/161-58-4-13/28

TITLE: On the Condenser-auxiliary-machines of Alternating Current Locomotives With Rectifiers (O kondensatornykh vspomogatel'nykh mashinakh elektrovozov peremennogo toka s vypryamitelyami)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika, 1958, Nr 4, pp 150 - 160 (USSR)

ABSTRACT: In electro-locomotive construction in the USSR, asynchronous condenser-motors and three phase induction motors (fed from a phase splitter (Ref 3)) are used for driving the auxiliary units of alternating current locomotives with the industrial frequency. Some results are given here of the examination of auxiliary condenser motors, in order to determine the most economical, reliable, and simple circuit diagram. The following units belong to these auxiliary machines: Motor-ventilators, motor-compressors, motor-cooling water pumps and motor-generators of the control circuits. The working conditions of these auxiliary motors of the single-phase direct-current locomotives are very difficult. On the current take-off devices of the locomotives, voltage fluctuations

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of the nominal value are allowed within the limit of from 0.75-1.1, and the range of outside temperature is limited between +40° - -50°, Celsius. The examination carried out here showed that the installed power of the condensers requires a system of auxiliary condenser-motors and a hydraulic drive of the compressors for starting from the cold, since no switched-off condensers are available if all motors are working. Applied to the electro-locomotive of the NC-type, it is shown in table 1 that this allows reducing the total capacity by 2.2 times, at simultaneous improving the starting properties of all motors. At the same time, the compressors are protected against increased wear during starting at voltages coming close to the nominal voltages. The circuit diagram developed here is illustrated and described on an example in figure 2. The examination showed that with the mentioned circuit diagram and drive respectively, any motor can be started and stopped, independent of the condition of the other motors When starting all motors in succession, all contactors close with the exception of one. With the circuit diagram for the condenser-motors of the electro-locomotive of the NO-type, 8 contactors must be switched-off by 8 relays, for starting all auxiliary motors. The

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

On the Condenser-auxiliary-machines of Alternating Current Locomotives With Rectifiers SOV/161-58-4-19/28

circuit is simple and reliable. The control circuit can also be simple and reliable, especially in the case of contactless relays being used. There are 5 figures, 1 table, and 9 Soviet references.

ASSOCIATION: 1) Kafedra elektricheskogo transporta Moskovskogo energeticheskogo instituta (Chair for Electrical Transportation at the Moscow Institute of Power Engineering), 2) Kafedra teplovogo kontrolya i avtomatiki Moskovskogo energeticheskogo instituta (Chair for Heat Control and Automation at the Moscow Institute of Power Engineering) (1. Nekrasov; 2. Rekus)

SUBMITTED: August 2, 1958

Card 3/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

8(5), 8(2), 12(3)

SOV 105-59-5-8/29

AUTHORS: Nekrasov, O. A Candidate of Technical Sciences, Shikhin, A. Ya, Engineer

TITLE: Self-regulation of Diesel Locomotive Generators Using Magnetic Amplifiers (O samoregulirovanii teplovoznykh generatorov s ispol'zovaniyem magnitnykh usiliteley)

PERIODICAL: Elektrichestvo, 1959, Nr 5, pp 31-36 (USSR)

ABSTRACT: In connection with the production of new heavy Diesel locomotives in the USSR, great attention is being paid to the problem of self-regulation of generators with the use of magnetic amplifiers. On Diesel locomotives the generator excitation is produced by direct current exciters. It is shown here that the use of a synchronous exciter instead of the direct-current exciter greatly reduces the spreading of self-regulation, and offers a possibility of reducing the amplifying coefficient and the capacity of the system for the automatic regulation of the capacity of the Diesel engine and of the generator. But the stability of the automatic regulation is also affected by other factors. The problem of stability with the use of a synchronous

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

Self-regulation of Diesel Locomotive Generators Using Magnetic Amplifiers SOV/105-59-5-8/29

exciter is investigated here and the analytical correlations between the properties of self-regulation and the properties of the individual building groups of the wiring are determined in a general form. This general correlation is ascertained by means of an example for a special case of combination of certain building groups. A method of obtaining this correlation is but not given here. The correlation obtained is then generalized. On the basis of this general method some variants of wirings and combinations of building groups of the regulating systems for the generators of Diesel locomotives were investigated theoretically and in practice [illegible] gation of the system at a reduced number of revolutions [illegible] the Diesel and the calculation of the necessary [illegible] building groups were also carried [illegible] of the general correlations given here. The experimental control in the laboratory is described. The general correlations given for systems of self-regulation of generators for Diesel locomotives with the use of magnetic amplifiers make it possible to investigate wirings, and to carry out technical calculations of stationary operating conditions. The correlations obtained can also be

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APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

Self-regulation of Diesel Locomotive Generators Using Magnetic Amplifiers

used for other drives in a generator-d.c.motor system. There are 6 figures and 3 references, 1 of which is Soviet.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute)

SUBMITTED: January 31, 1959

Card 3/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEKRASOV, O.A.

S/271/63/000/001/017/047
D413/D308

AUTHORS: Nekrasov, O.A. and Shikhin, A.Ya.

TITLE: On the calculation of operating range for automatic control systems for diesel locomotive electric transmissions

PERIODICAL: Referativnyy zhurnal, Avtomatika, telemekhanika i vychislitel'naya tekhnika, no. 1, 1963, 45, abstract 1A248 (Tr. Mosk. energ. in-ta, no. 37, 1961, 75-85)

TEXT: A description is given of a graphic-analytical method for calculating the required variation of magnetizing force F_M to drive the DC split-pole exciter used on Soviet diesel locomotives to achieve generator self-regulation for constant diesel power. A certain range of variation of magnetizing force is necessary to compensate for a considerable spread in self-regulation characteristics, and is secured by the systems of automatic control of power and current. The calculation is based on the technical data of the machines, exciter circuit diagrams of the diesel locomotive and families of

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S/271/63/000/001/017/047
D413/D308

On the calculation ...

exciter load curves. These curves are obtained with the generator exciter windings both hot and cold, for a number of independent exciter winding current I_i with one fixed value of shunt exciter winding current I_s. Using the exciter load curves, a plot of exciter voltage against magnetizing force U_E (F_M) is constructed (for a given value of I_i and generator exciter winding impedance). The actual self-regulation characteristic is derived graphically by finding the intersection points of the curve of exciter voltage against magnetizing force (constructed from the exciter load curves) and the curve of magnetizing force against exciter volts obtained by considering the exciter circuit diagram. An example of the calculation is given. Self-regulation characteristics obtained in practice are stated to have agreed with the calculated one to an accuracy of about 3%. 4 figures. 1 reference.
[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEKRASOV, Oleg Alekseyevich, kand.tekhn.nauk, starshiy nauchnyy sotrudnik; GORIN, Nikolay Nikolayevich, inzh.

Utilization of the power of asynchronous short-circuited machines operating under conditions deviating from nominal. Izv. vys. ucheb. zav.; elektromekh. 6 no.8:946-951 '63. (MIRA 16:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut Ministerstva putey soobshcheniya.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

TIKHMENEV, B.N., doktor tekhn.nauk; IZOSIMOV, A.V., kand.ekonom.nauk; NEKRASOV, O.A., kand.tekhn.nauk; LAPIN, V.B., inzh.

Technical and economic comparison of methods for joining a.c. and d.c. electrified railroad districts. Trudy TSNII MPS no.256:108-122 '63. (MIRA 16:6)

(Electric railroads)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEKRASOV, O. A., kand. tekhn. nauk; SHEVCHENKO, V. V., kand tekhn nauk; REKUS, G. G., kand. tekhn. nauk

Calculation of the heating of asynchronous machines using a thermal parameter method. Izv vyz ucheb zav; energ 7 no. 1:40-46 Ja '64. (MIRA 17:5)

1. Moskovskiy khimiko-tekhnologicheskiy institut. Predstavlena kafedroy elektrotekhniki i elektroniki.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEKRASOV, O.A., kand.tekhn.nauk; NOVIKOV, V.Ye., inzh.

Results of the traction and power tests of the experimental VL80 electric locomotive. Trudy TSNII MPS no.286:5-34 '65.
(MIRA 18:8)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEKRASOV, O.A., kand.tekhn.nauk

Comparing the traction and power characteristics of a.c. multiple-unit trains with collector motors and with rectifier type traction. Trudy TSNII MPS no.286:71-82 '65. (MIRA 18:8)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEKRASOV, O.A., kand.tekhn.nauk; GORIN, N.N., kand.tekhn.nauk

Auxiliary a.c. motors. Trudy TSNII MPS no.286:103-117 '65. (MIRA 18:8)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEKRASOV, Oleg Alekseyevich, kand. tekhn. nauk, ANDERS, Vitaliy Ivanovich, assistent

Compensation of the current of an idle three-phase magnetic amplifier. Izv. vys. ucheb. zav., elektromekh. 8 no.5:573-579 '65. (MIRA 18:7)

1. Rukov. otdel'laboratorii elektrodvizhnogo sostava TSentral'nogo nauchno-issledovatel'skogo instituta Ministerstva putey soobshcheniya (for Nekrasov). 2. Kafedra elektrovozov Moskovskogo transporta Moskovskogo energeticheskogo instituta (for Anders).

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

MALYSHEV, V.S., gornyy inzhener.; NEKRASOV, O.P., gornyy inzhener.; RYTIKOV, K.M., gornyy inzhener.

Systems of mining thin, flat skarn deposits. Gor. zhur. no.2:14-18 F '57. (MLRA 10:4)

1. Dzhenichkinskoye rudoupravleniya.
(Mining engineering) (Silicates)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

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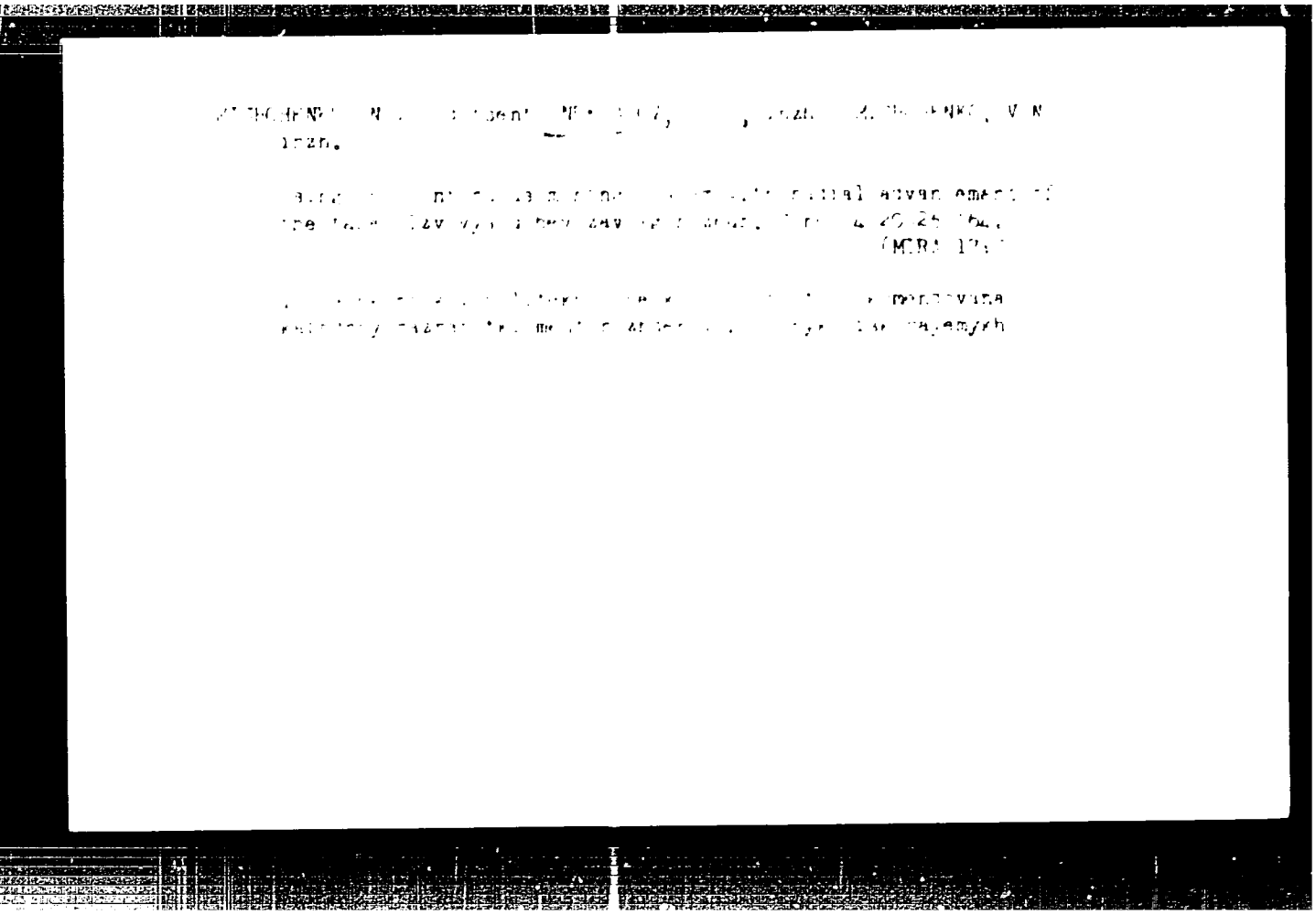

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEKRASOV, P.A., akademik [deceased]; TYUTYUNNIKOV, A.I.

Experience in using T.S.Mal'tsev's method for shallow tillage heavy loam soils. Trudy MIMESKH 4 no.2:3-35 '59. (MIRA 15:4)
(Tillage) (Mal'tsev, T.S.)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

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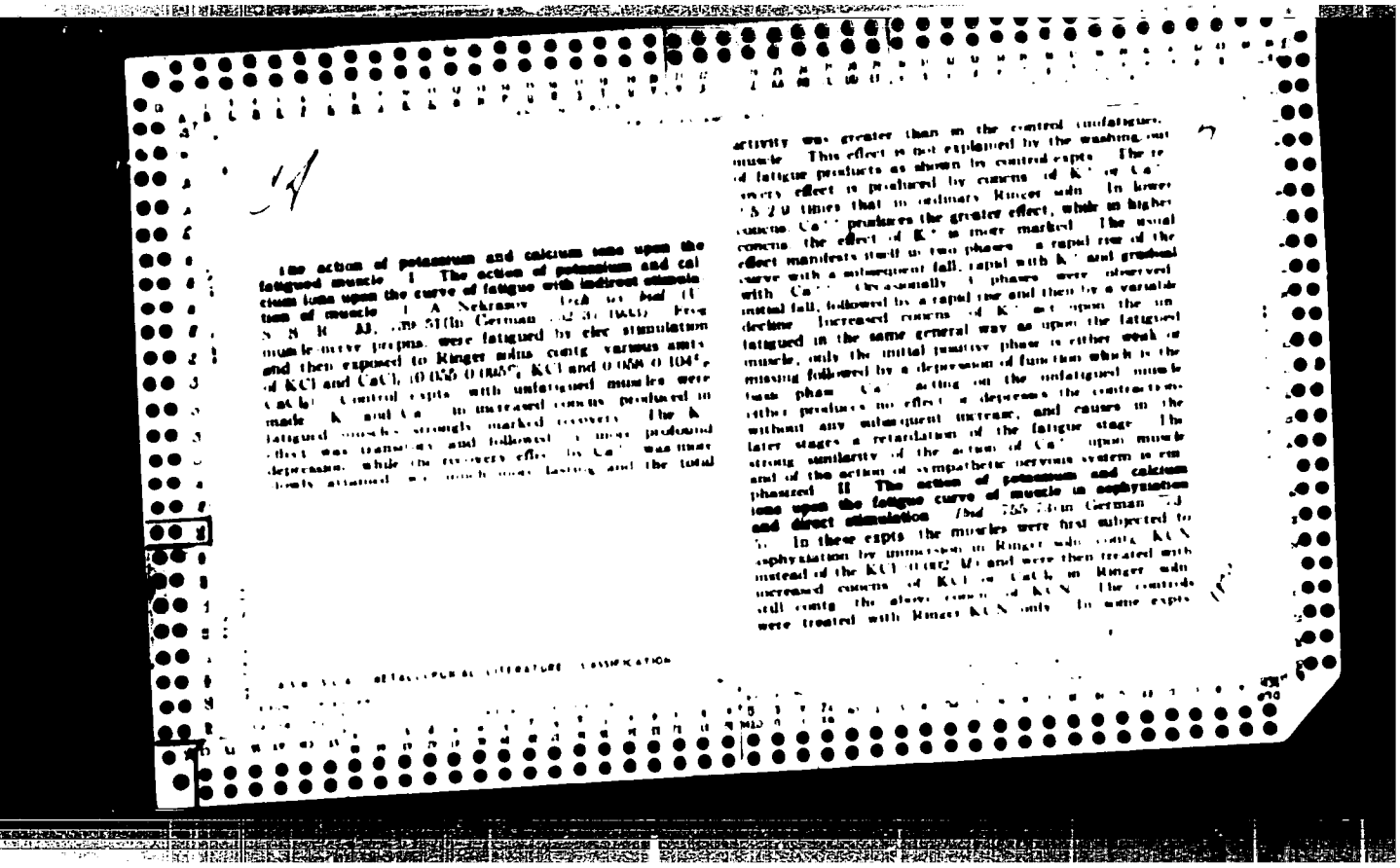

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

the Ca effect was compared in KCN-treated preps with the effect upon muscles subjected to an oxygenated Ringer soln. without KCN. In the expts with direct stimulation normal and curarized muscles were compared. The preliminary treatment with KCN not only did not diminish the ion effects upon the nerve-stimulated muscle, but actually increased them. The basic character and phases of the effects of these ions remain the same as in the normal fatigued muscle, except that the initial drop in activity is undoubtedly lacking. This initial phase is evidently related to the oxidative processes in the muscle. The K and Ca effects upon the directly stimulated normal, not curarized, muscle are in general the same as upon nerve-stimulated muscles. In the curarized fatigued muscle the effects are different. Ca^{++} produced a transient, slowly increasing diminution of contractions which then gradually abates, so that the amplitude of the contractions reaches that of the control muscles. The K^{+} under the same conditions produces its usual biphasic effect of initial stimulation followed by depression of the contractions. The character of the curves of the unfatigued muscles is in general the same as that with the fatigued preps., only the effects are weaker and require higher concns. of the two ions and more prolonged exposure to these. The K-treated muscle performs less work and is more rapidly fatigued than the control, while the muscle treated with Ca, even before the onset of fatigue, compares well with the control or exceeds it in this respect. These data are correlated with the known physiol. effects of K^{+} and Ca^{++} upon membrane permeability and potentials, irritability and chronaxie and of K^{+} upon viscosity and contractility of muscles.

W. A. Perlzweig

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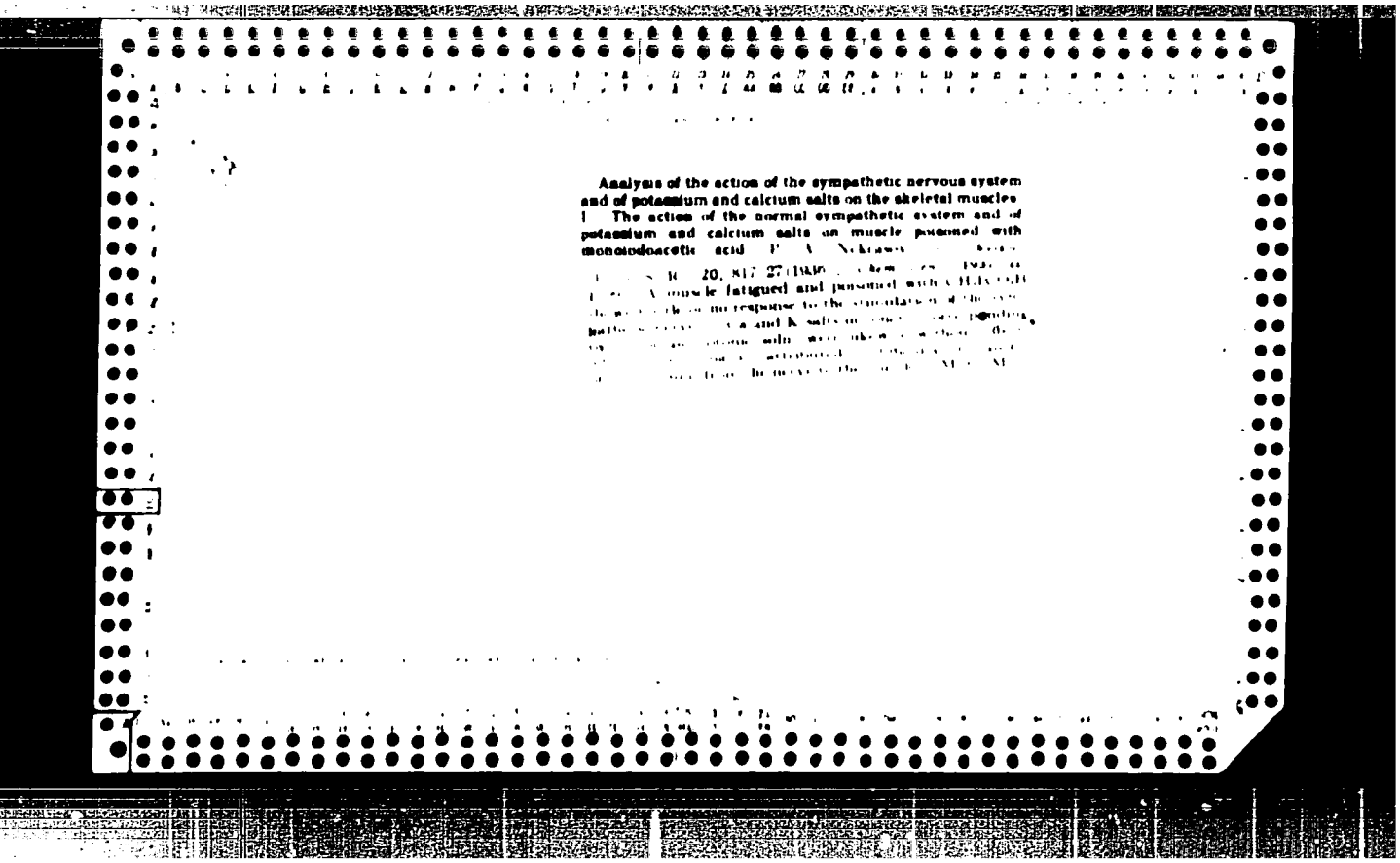

Analysis of the action of the sympathetic nervous system and of potassium and calcium salts on the skeletal muscles

I The action of the normal sympathetic system and of potassium and calcium salts on muscle poisoned with monoiodoacetic acid

muscle fatigued and poisoned with

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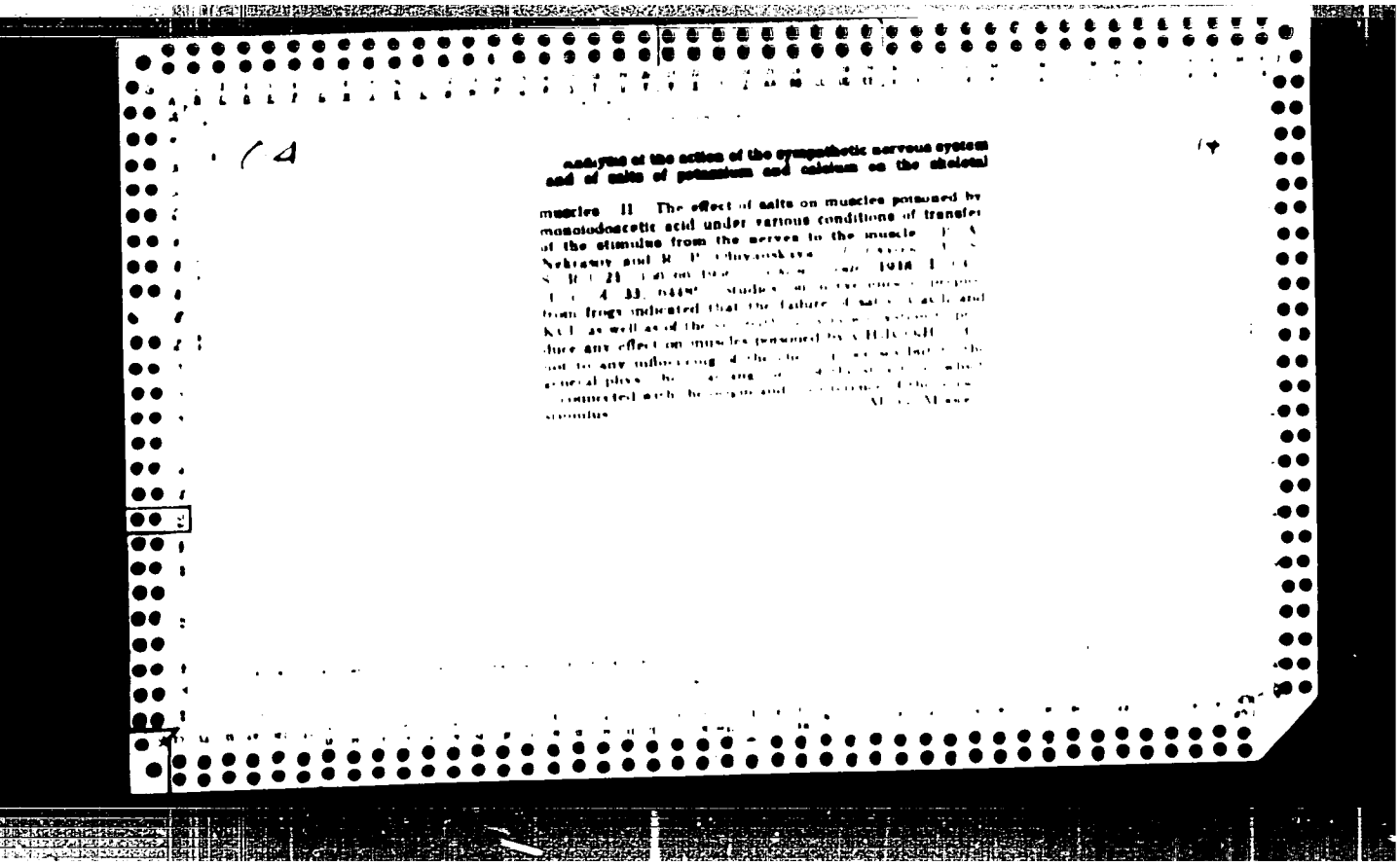

analysis of the action of the sympathetic nervous system and of salts of potassium and calcium on the skeletal

muscles II The effect of salts on muscles poisoned by monoiodoacetic acid under various conditions of transfer of the stimulus from the nerves to the muscle

from frogs indicated that the failure of salts to excite and KCl as well as of the

duce any effect on muscles poisoned by

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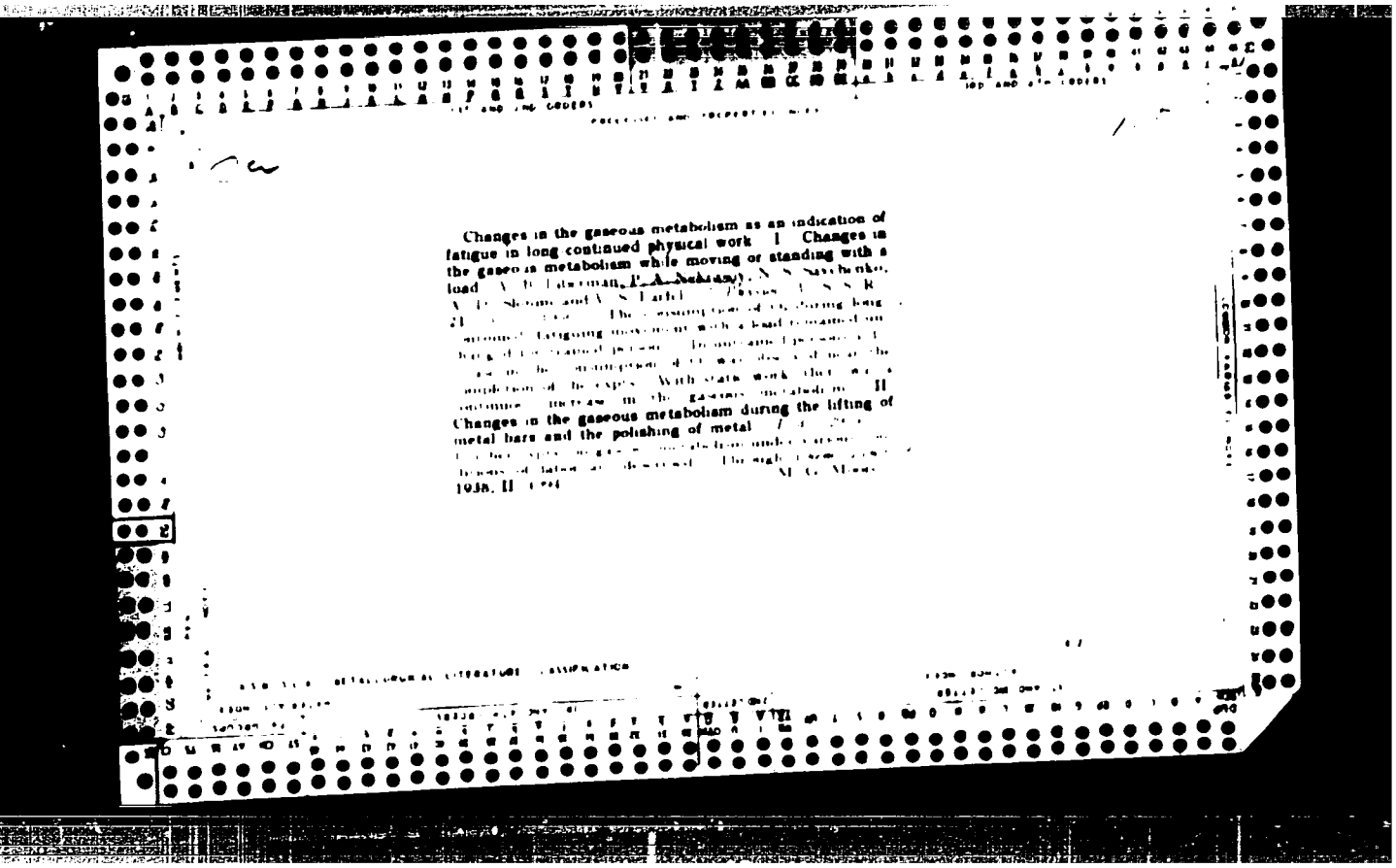

Changes in the gaseous metabolism as an indication of fatigue in long continued physical work I Changes in the gaseous metabolism while moving or standing with a load

Changes in the gaseous metabolism during the lifting of metal bars and the polishing of metal

1938. II

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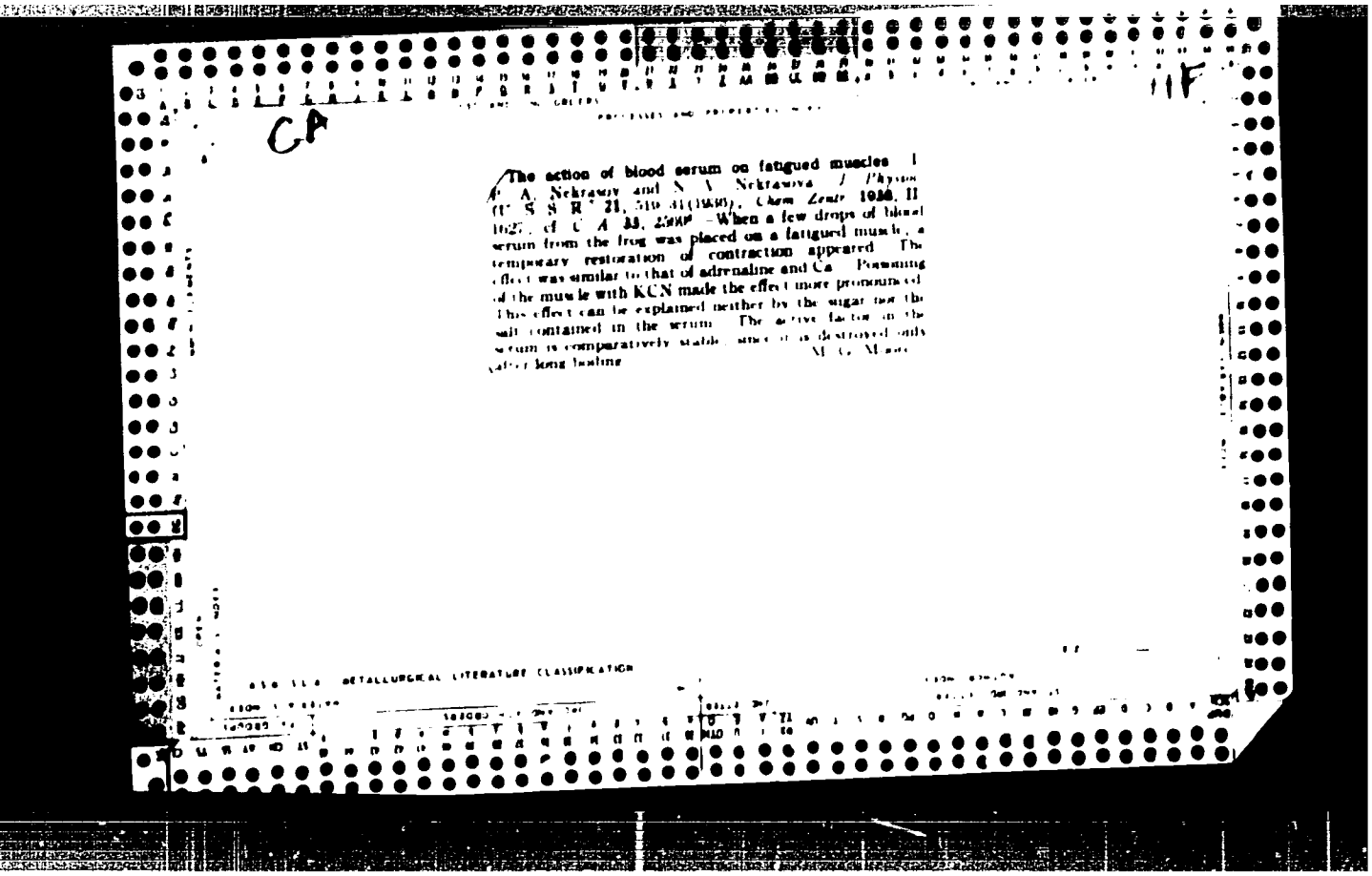
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113



CA

11F

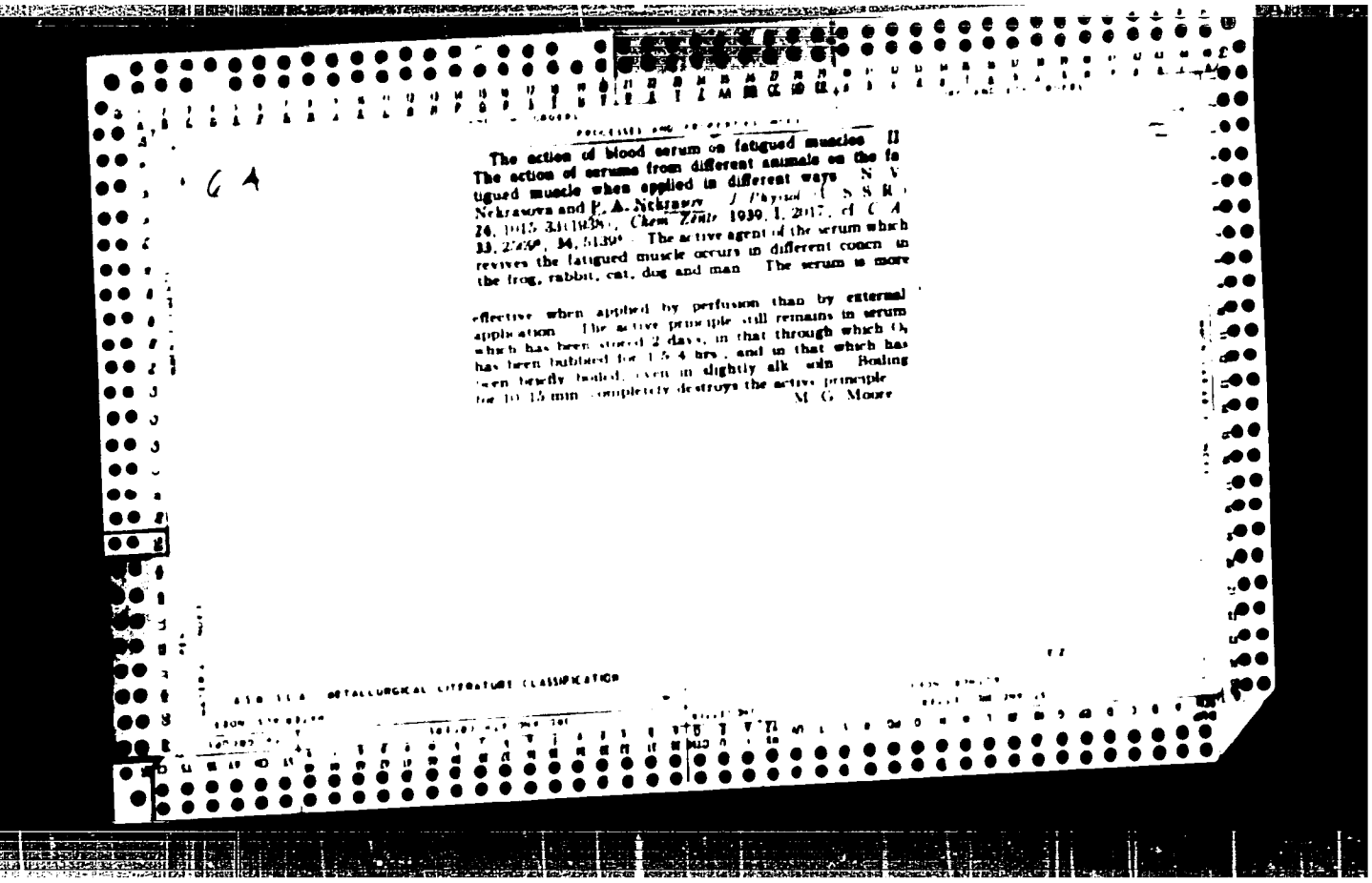
PROCESSES AND PROPERTIES INDEX

The action of blood serum on fatigued muscles. I. A. Nekrasov and N. V. Nekrasova. *J. Physiol. (U. S. S. R.)* 21, 519-31(1936); *Chem. Zentr.* 1936, II, 1627; cf. *C. A.* 33, 2500[8]. —When a few drops of blood serum from the frog was placed on a fatigued muscle, a temporary restoration of contraction appeared. The effect was similar to that of adrenaline and Ca. Poisoning of the muscle with KCN made the effect more pronounced. This effect can be explained neither by the sugar nor the salt contained in the serum. The active factor in the serum is comparatively stable, since it is destroyed only after long boiling. M. G. Moore

METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

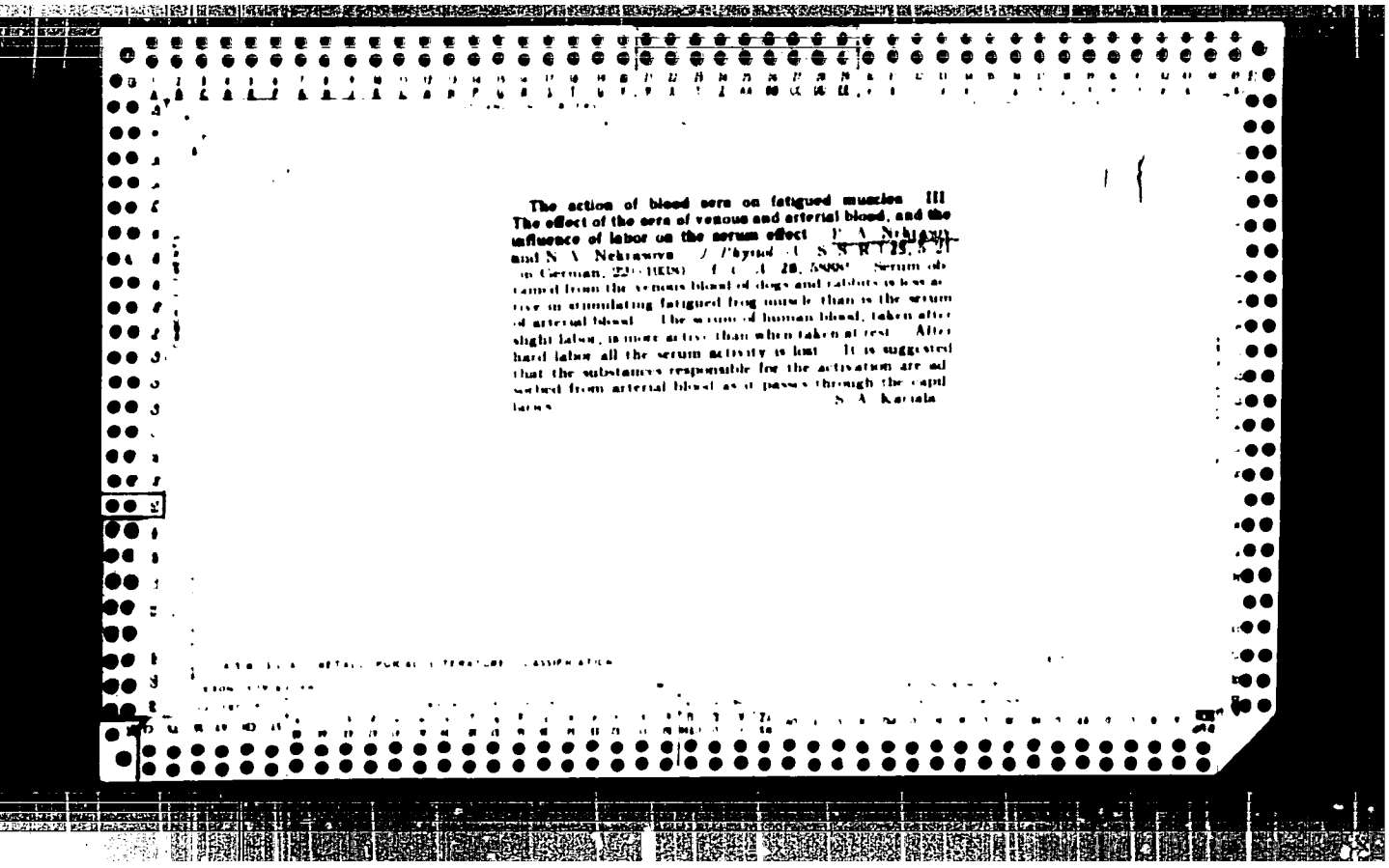
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113



The action of blood serum on fatigued muscles II
The action of serums from different animals on the fa
tigued muscle when applied in different ways N V
Nekrasova and P. A. Nikiforov J Physiol (U S S R)
24, 1015-31(1938); Chem Zentr 1939, I, 2017. cf C A
33, 2759, 34, 5139. The active agent of the serum which
revives the fatigued muscle occurs in different concn in
the frog, rabbit, cat, dog and man The serum is more
effective when applied by perfusion than by external
application The active principle still remains in serum
which has been stored 2 days, in that through which O
has been bubbled for 1.5-4 hrs., and in that which has
been briefly boiled, even in slightly alk soln Boiling
for 10-15 min completely destroys the active principle
M G Moore

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113



The action of blood sera on fatigued muscles. III. The effect of the sera of venous and arterial blood, and the influence of labor on the serum effect. P. A. Nekrasov and N. A. Nekrasova. *J. Physiol. U. S. S. R.* 25, 5-21 (in German, 22) (1938). *A. C. A.* 28, 5888. Serum obtained from the venous blood of dogs and rabbits is less active in stimulating fatigued frog muscle than is the serum of arterial blood. The serum of human blood, taken after slight labor, is more active than when taken at rest. After hard labor all the serum activity is lost. It is suggested that the substances responsible for the activation are adsorbed from arterial blood as it passes through the capillaries. S. A. Kariala

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

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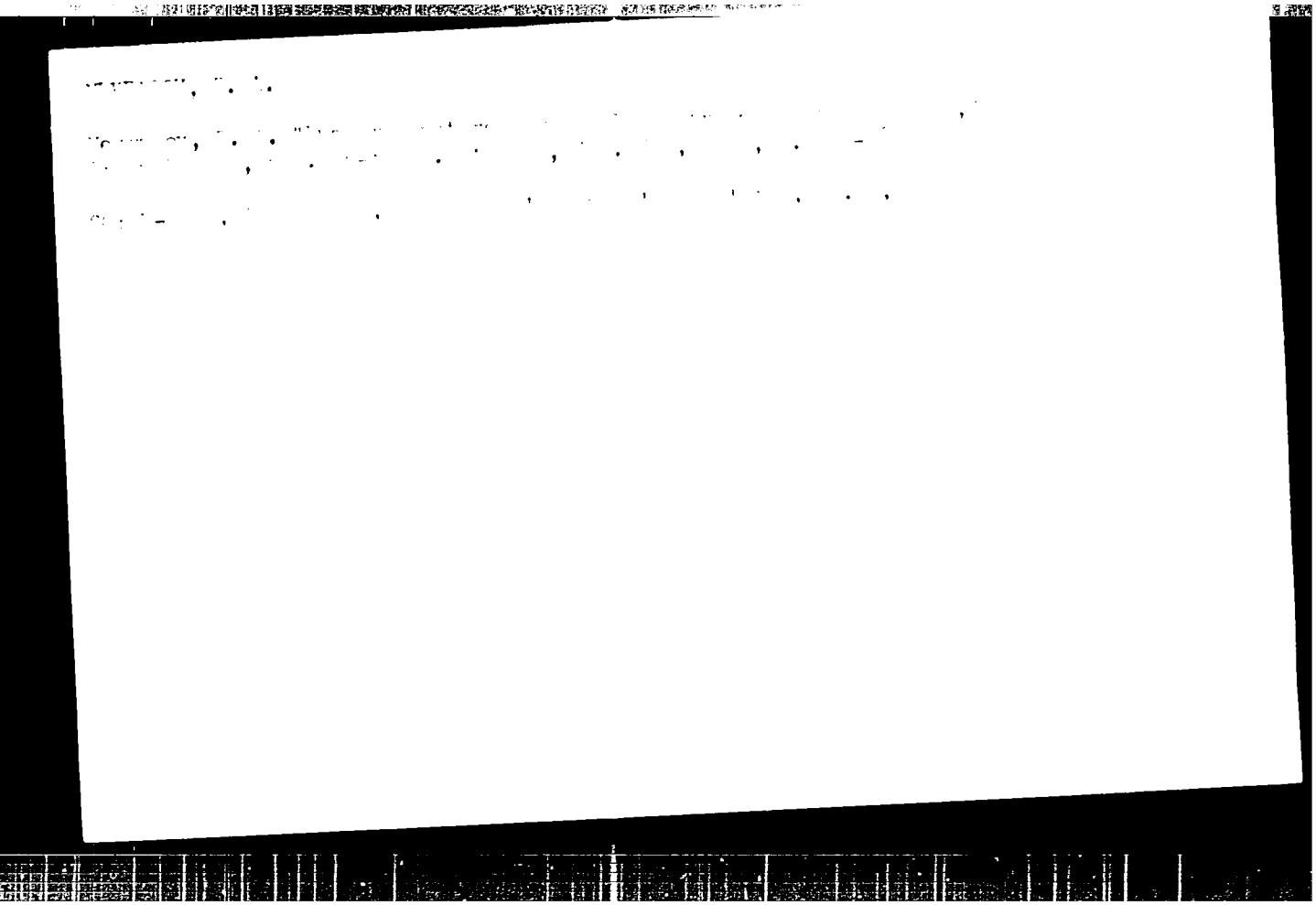


APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEKRASOV, P.A., prof.; ZEMSKAYA, Ye.I., assistent

Influences from the receptors of the nerve trunks on the spinal motor reflexes. Sbor. turd. Kursk. gos. med. inst. no. 13:280-286 '58. (MIRA 14:3)

1. Iz kafedry fiziologii (zav. - prof. P.A.Nekrasov) Kurskogo gosudarstvennogo meditsinskogo instituta.
(RECEPTORS (NEUROLOGY)) (REFLEXES)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEKRASOV, P.A.

Physiology of the receptors of the peripheral nerve trunks. Fiziol. zhur. 47 no.9:1105-1113 S '61. (MIRA 14:9)

. From the Department of Physiology, Medical Institute, Kursk.
(RECEPTORS (NEUROLOGY))

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEKRASOV, P.Ya. (Kiyev, 74, ul. Verbovaya, d. 2b.)

A case of amebosarcoma of the mediastinum. Nov. khir. arkh. 5:123-124 S-O '58. (MIRA 12:1)

1. Kafedra onkologii (zav. - prof. I.T. Shevchenk) Kiyevskogo instituta usovershenstvovaniya vrachey.
(MEDIASTINUM--TUMORS)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

LESECHENKO, F.I. (Kiyev, ul. Vorovskogo, d.14, kv.14); NEKRASOV, P.Ya.

Diagnosis and treatment of melanomas of the rectum. Nov.khir.arkh. no.5:95-97 S-O '59. (MIRA 13:3)

1. Kafedra onkologii (zaveduyushchiy - prof. I.T. Shevchenko) Kiyevskogo instituta usovershenstvovaniya vrachey.
(MELANOMA) (RECTUM--TUMORS)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

POKROVSKIY, S.A. (Kiyev, ul. Tolstogo, d.7, kv.1); SEMENOVA, A.M.; NEKRASOV, P.Ya.

Radiotherapy in malignant bone tumors. Nov. khir. arkh. no.2: 89-96 Mr-Ap '60. (MIRA 14:11)

1. Kiyevskiy nauchno-issledovatel'skiy rentgeno-radiologicheskiy i onkologicheskiy institut.
(BONES--CANCER) (RADIOTHERAPY)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

VOINOV, Ye.A. (Kiyev, [illegible] 31a, kv.17); [illegible], [illegible]; [illegible], M.P.; LOBODA, [illegible].

X-ray, radio and surgical method for treating internally or externally located cancer. Klin. khir. no.3:12-[illegible] '[illegible].

1. Radio-khirurgicheskiy otdel (zav. - zasluzhennyy deyatel' nauki, prof. I.T.Shevchenko) Kiyevskogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo i onkologicheskogo instituta.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEKRASOV, Roman Mikhaylovich; ALYAB'YEV, V.I., red.; MIKHAYLOVA, L.G., red. izd-va; VDOVINA, V.M., tekhn. red.

[Rigging of skidding and loading equipment] Montazh trelevochno-pogruzochnogo oborudovaniia; prakticheskoe rukovodstvo. Moskva, Goslesbumizdat, 1961. 130 p. (MIRA 16:2)
(Lumbering)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

[illegible], V.I., [illegible]

[illegible]

(Laboring—[illegible])

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

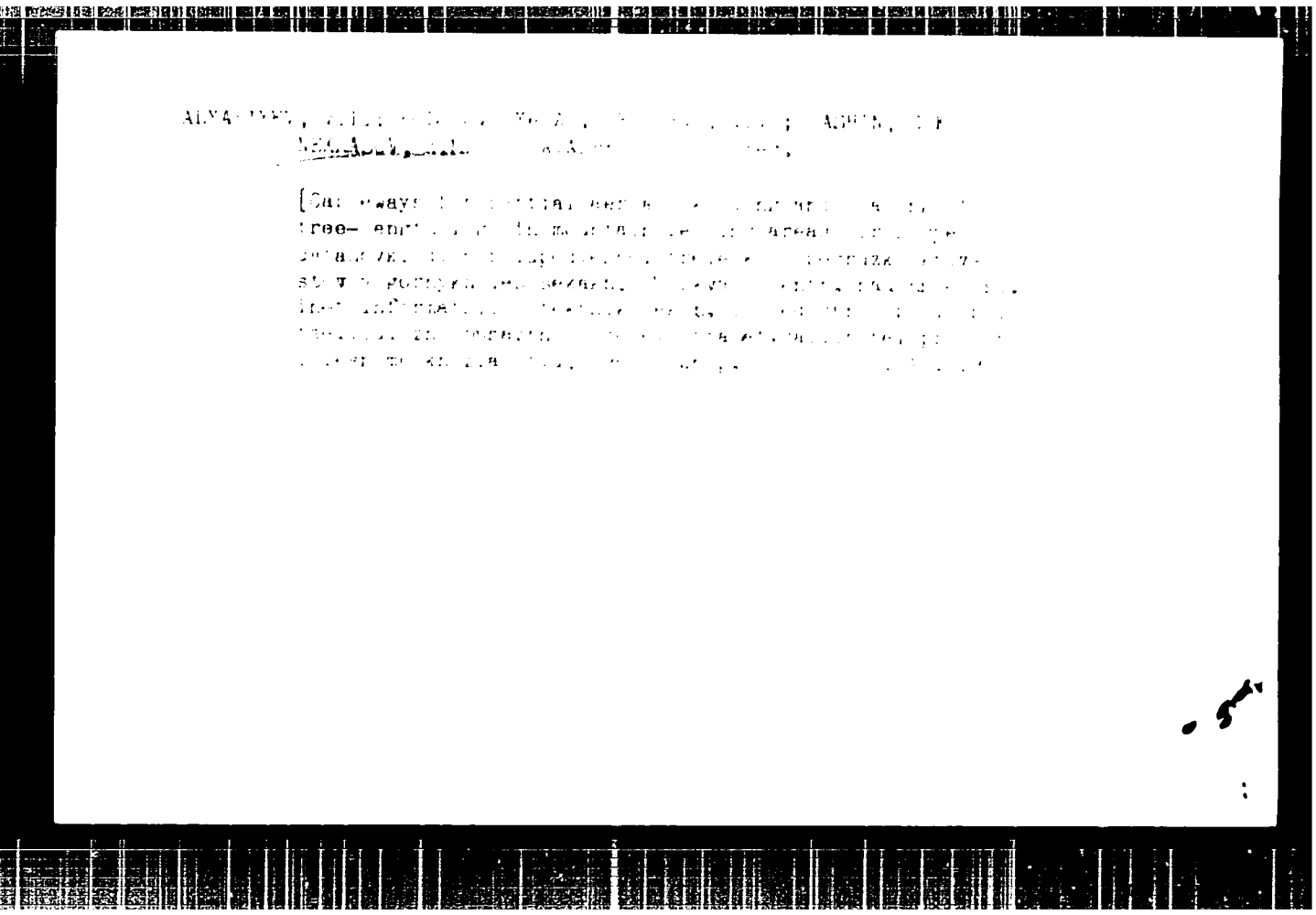
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

PERFILOV, M.A.; ALYAB'YEV, V.I.; NEKRASOV, R.M.; GRECHISHNIKOV, V.V.; MAZHIN, G.K.; FEDOROV, N.S., otv. red.; KALININA, L.M., red. izd-va; SHIBKOVA, R.Ye., tekhn. red.

[Album of auxiliary skidding and loading equipment]Al'bum vspomogatel'nogo trelevochno-pogruzochnogo oborudovaniia. Moskva, Goslesbumizdat, 1962. 119 p. (MIRA 16:4)
(Lumber--Transportation)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113



APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEKRASOV, Roman Mikhaylovich; ALYAB'YEV, V.I., red.

[Assembly of equipment at cutovers. Montazh oborudovaniia na lesosekakh. 2. izd. Moskva, Lesnaia prosyshl., 19[illegible]. 21[illegible] p. [illegible]

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

ALYAB'YEV, V.I., kand.tekhn.nauk, MASHIN, G.K., inzh., NEKRASOV, R.N., inzh., TIMOFEYEV, L.G., inzh.

The new TPU-4 Ysniime skidding and loading equipment. Mekh.i avtom. proizv. 14 no.5:32-35 My '60. (MIRA 14:2)
(Lumbering—Machinery)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEKRASOV, S. A.

USSR/Miscellaneous---machine construction

Card 1/1

Author : Nekrasov, S. A., engineer

Title : About methods of projection without making a copy

Periodical : Vest. mash. 34/3, 101, Mar/1954

Abstract : The VEP-1 apparatus is intended for direct manifolding of drawings from pencil originals, for photographic copying without changing the scale, and for mechanized chemical copying of drawings. Much time is saved by this apparatus. Drawings.

Institution : .....

Submitted : .....

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEKRASOV, Sergey Afanas'yevich; KUZNETSOVA, N.I., red.; GALICHENKOVA, [illegible], red.

[Manual for inspection commissions of the plant-factory and local committees] V pomoshch' revizionnym komissiiam FZMK. [Moskva] Izd-vo VTsSPS Profizdat, 1957. 47 p. (MIRA 11:9)
(Trade unions)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

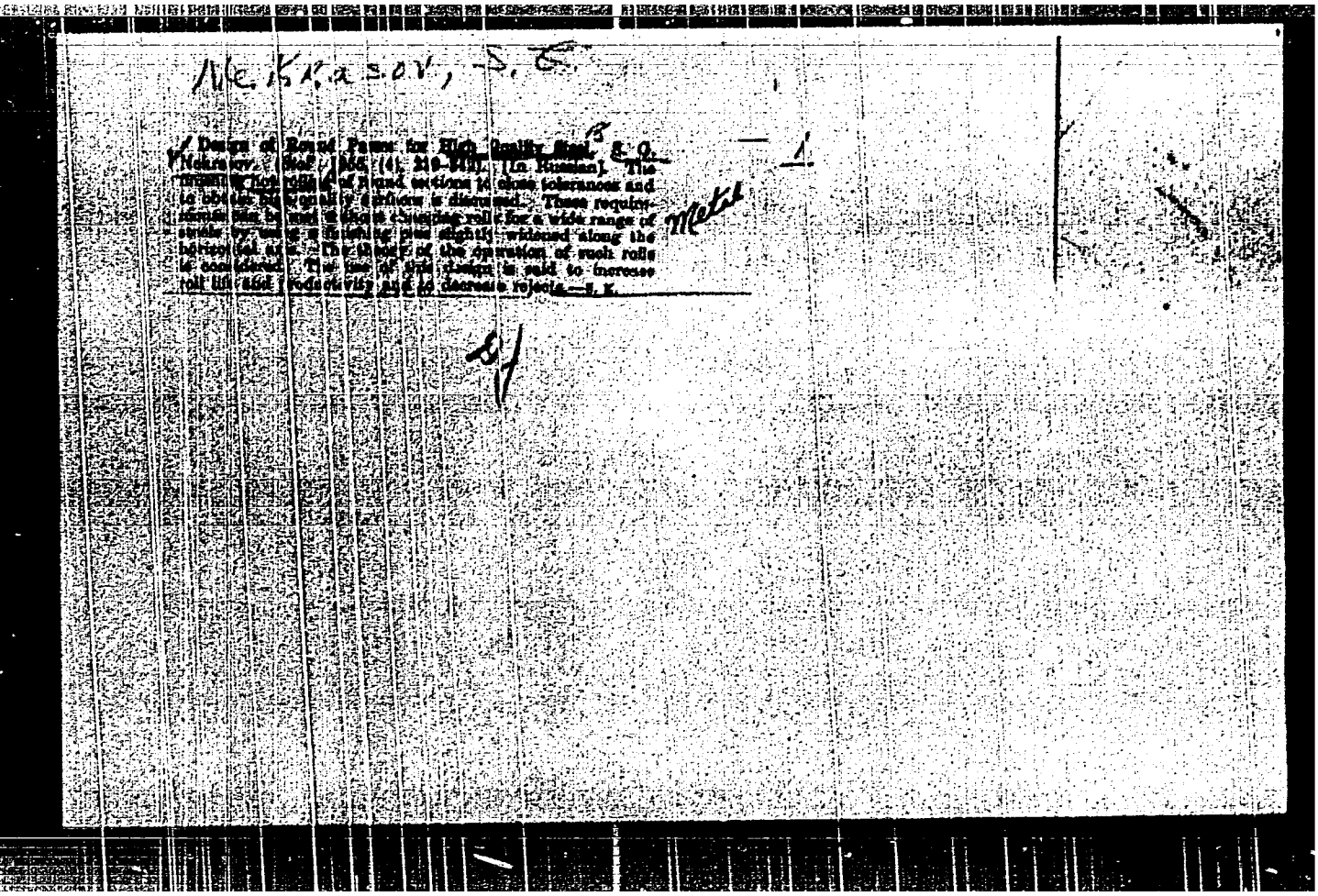
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

Nekrasov, S. G.

Design of Round Passes for High Quality Steel. S. G. Nekrasov. (Stof. 1955, (4), 219-[illegible]). [In Russian]. The finishing hot rolling of round sections to close tolerances and to obtain high quality surfaces is discussed. These requirements can be met without changing rolls for a wide range of steels by using a finishing pass slightly widened along the horizontal axis. The theory of the operation of such rolls is considered. The use of this design is said to increase roll life and productivity and to decrease rejects.—S. K.

Metal

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136



"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

SHURALEV, M.V., inzhener; NEKRASOV, S.G.

Rolling of square bar steel with sharp edges. Stal' 16 no.11:997-999 N '56. (MLRA 10:1)

1. Zlatoustovskiy metallurgicheskiy zavod.
(Rolling (Metalwork))

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

130-9-13/21

AUTHORS: Shuralev, M.V.(Eng.) and Nekrasov, S.G.(Calibration Engineer)

TITLE: Operation of a 600 Mill according to a New Schedule. (Rabota stana 600 po novomu grafiku)

PERIODICAL: Metallurg, 1957, Nr 9, pp.27-28 (USSR)

ABSTRACT: The 600 mm roll diameter mill at the Zlatoustovsk metallurgical works rolls rounds of carbon and alloy steel 90 to 150 mm in diameter from 170 x 170 and 190 x 190 mm square billets weighing 520 to 780 kg. The mill consists of four three-high stands with two continuous furnaces. The rolling schedule and pass designs were recently revised, leading to higher productivity on account of more uniform loading of the stands and working with overlap. The setting and control of the mill was facilitated by the use of separate stands for producing the starting square billets, and separate furnaces were also used for different sizes. An annual economy of about 500,000 roubles has been effected. Pass designs and rolling schedules for the old and revised systems are given. There are 3 figures.

ASSOCIATION: Zlatoust Metallurgical Works (Zlatoustovskiy Metallurgicheskiy Zavod)

AVAILABLE: Library of Congress.

Card 1/1

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

AUTHORS: Shuralev, M.V., and Nekrasov, S.G., Engineers.

TITLE: Determination of Spread during Rolling (Opredeleniye ushireniya pri prokatke)

PERIODICAL: Stal', 1958, No.1, pp. 57 - 60 (USSR).

ABSTRACT: Four methods of calculating spread on rolling (Refs. 1, 2, 3 and 5) were checked by comparing the calculated results with those actually obtained on rolling on three different mills. Characteristic data on mills are given in Table 1. The experiments were carried out as follows: a) templets were cut off from various strips after passes at the same setting of the rolls; b) the temperature of the strips was determined by an optimal pyrometer; c) transverse dimension of cold templets, perimeters of templets and their cross-sectional areas were measured and d) the spread was also calculated by the above four methods and the determined and calculated results compared. The comparison is given in Table 2. The results obtained by the calculations differed from the experimental results, so that all methods of calculating require some experimentally determined correcting coefficients. Therefore, it would be advantageous to use for practical purposes the most simple formulae, introducing into them the corresponding experimental coefficients. Such formula was obtained by the authors

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

(Formula 6) based on S.N. Petrov's formula (Ref.5). The formula proposed is suitable for determining spread in roll passes and on a smooth roll. A comparison of results calculated using the above formula with the actual spread (Table 2) indicated that a good agreement was obtained. It is stated in the editorial note that the use of the proposed formula under conditions of other works requires a preliminary experimental check of correcting coefficient m for various passes. There are 2 tables, 1 figure and 6 Russian references.

ASSOCIATION: Zlatoust Metallurgical Works (Zlatoustovskiy metallurgicheskiy zavod)

AVAILABLE: Library of Congress

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

SOV/133/58-9-17/29

AUTHORS: Shuralev, M. V., ~~Nekrasov, S. G.~~ (Engineers) and Azarenko, B. S. (Cand.Tech.Sciences)

TITLE: Review of the Book of A. A. Protasov and F. P. Zuyev, "Calibration of Rolls for Rolling High Speed Cutting Steel" Retsenziya na knigu A. A. Protasova i F. P. Zuyeva, "Kalibrovka valkov dlya prokatki bystrorezhushchey stali")

PERIODICAL: Stal', 1958, Nr 9, pp 825-827 (USSR)

ABSTRACT: The book was published by Metallurgizdat in 1958. The review is favourable.

ASSOCIATION: Zlatoustovskiy metallurgicheskiy zavod, MVTU im. Baumana (Zlatoust Metallurgical Works and MVTU im. Bauman)

Card 1/1

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEKRASOV, S.G., inzh.

Improved grooving for punching die shapes no. 3. Izv.vys.ucheb.zav.; chern.met. no.11:146-147 N '58. (MIRA 12:1)

1. Zlatoustovskiy metallurgicheskiy zavod. Rekomendovano kafedroy obrabotki metallov davleniyem Sibirskogo metallurgicheskogo instituta.
(Rolls (Iron mills))

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

SOV/133-59-1-13/23

AUTHORS: Shuralev, M.V. and Nekrasov, S.G.

TITLE: Roll-pass Designing and Rolling of Shaped Profiles from Alloy Steels (Kalibrovka i prokatka fasonnykh profiley iz legirovannoy stali)

PERIODICAL: Stal', 1959, Nr 1, pp 58 - 63 (USSR)

ABSTRACT: Rolling of shaped economical profiles (channel beams PS-102, PS-103 and PS-120) from alloy steels (1Kh18N9T, 30KhGSA and Kh17N2) (Figure 1, Table 1) which are supplied to consumers instead of strip resulted in a 20-30% economy in the consumption of metal and simplified the manufacturing of finished parts. The rolling is done on a three-stand mill 400. Billets are heated in a two-zone continuous furnace with bottom heating. The dimensions of roll passes are given in Tables 2 and 3 and Figures 2 and 4. Some special features of rolling alloy steels are discussed. It is pointed out that for steel 1Kh18N9T the permissible angles of grip are 2-3° lower than for carbon steels which is explained by a higher resistance to deformation of this steel at the rolling temperature. Steels 1Kh18N9T and Kh17N2 are strongly spreading during rolling. Therefore, in designing roll passes for these steels, the limitation of spread should be smaller than

Card1/2

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

Roll-pass Designing and Rolling of Shaped Profiles from Alloy Steels

for carbon steels. In designing finishing passes an increased shrinkage of alloy steel (particularly 1Kh18N9T) should be taken into consideration. There are 6 figures and 4 tables.

Card2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

25(1) SOV/148-59-1-14/19

AUTHOR: Nekrasov, S.G., Engineer

TITLE: Computation of Height Deformation in Non-Uniform Rolling (O raschëte vysotnoy deformatsii pri neravnomernom obzhatii)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Chernaya metallurgiya, 1959, Nr 1, pp 121-126 (USSR)

ABSTRACT: Average reduction for computing deformation of metal in groove rolling was determined by the method of shifted volume suggested by I.Ya. Tarnovskiy [Ref 1, 2]. Complicated calculation was the basic deficiency of this method. The author presents a formula: $\frac{1}{\eta} = \frac{h_o}{h_1} = \frac{\omega_o}{\omega_1}$, where η is the average height coefficient of deformation; h_o and h_1 are the initial and final average heights of the strip, and ω_o and ω_1 are the initial and final cross-section surfaces of the strip. This formula serves to compute height deformation in non-uniform absolute and relative reduction by the width of the deformed strip, without preliminary equalization of absolute reduction. The proposed method can be used to compute height deformation in

Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

SOV 148-58-1-14/19

Computation of Height Deformation in Non-Uniform Rolling

rolling with different-shaped grooves.
There are [illegible] figures, 2 tables and [illegible] Soviet references

ASSOCIATION: Zlatoustovskiy metal [illegible] zavod (Zlatoust [illegible] Metallurgical Plant)

SUBMITTED: August 2[illegible], 1958

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

S/137/60/000/011/018/043
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 11, p. 117, # 26144

AUTHOR: Nekrasov, S.G.

TITLE: Rolling of High-Speed Steel at the Zlatoust Metallurgical Plant

PERIODICAL: Tr. Mezhvuz. nauchno-tekhn. konferentsii na temu: "Sovrem.dostizh. prokatn. proiz-va", Vol. 2, Leningrad, 1959, pp. 220 - 227

TEXT: An ingot, weighing with the riser 200 kg, is rolled to a blank of 78 x 78 mm on a 620 mm three-high mill after heating for 10 hours up to 1,170 - 1,200°C (grade Р-18 (R-18)) or to 1,150 - 1,180°C (grade Р 9 (R9)) with twice preheating. Grooving of the rolls includes 9 box-, 8 rhombic- and 2 square grooves. R18 steel is rolled in 19 passes with a mean coefficient of extension equal to 1.15. R9 steel is rolled in 15 passes with a mean coefficient of extension equal to 1.19. The effective yield is 76.5 - 77.5%. The blank is rolled to a finished shape after preheating to the same temperature, for 2 hours

Card 1/2

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

S/137/60/000/011/018/043
A006/A001

Rolling of High-Speed Steel at the Zlatoust Metallurgical Plant

30 minutes in the case of 78 x 78 mm sections and for 1 hour 50 minutes at 30 x 30 mm sections with an extension coefficient up to 1.63 in oval grooves and 1.45 in square grooves. The temperature at the end of rolling process is 980°C.

P.G.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

SHURALEV, M.V. ; NEKRASOV, S.O., kalibrovshchik

Charge in the grooving of no.4 stamp strips. Metallurg 4 no.3:26-27 Mr '59. (MIRA 12:4)

1. Zamestitel' glavnogo inzhenera Zlatoustovskogo metallurgicheskogo zavod (for Shuralev). 2. Zlatoustovskiy metallurgicheskiy zavod (for Nekrasov).

(Rolling mills)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

[illegible]

AUTHOR Nekrasov,

TITLE Rolling [illegible] steel.

PERIODICAL: Referativnyy [illegible] Metallurgiya, [illegible] abstract [illegible] "Tr. Konferentsii [illegible] progressivnoy tekhnologii [illegible] proiz-va" Sverdlovsk, Metallurgizdat, [illegible]

TEXT: Data on grooving [illegible] profile [illegible] channel type) are given. [illegible] is carried out in four [illegible] forming passes from square [illegible] grade [illegible] and [illegible] (30KhGSA). The coefficient of shrinkage of the metal for the end temperature of rolling 980 - 1,038° was [illegible] for steel [illegible] and [illegible] for steel 30KhGSA. The grooving for profiles [illegible] given [illegible] turns out that for grooving shaped profiles from high-alloy steels it is necessary to take into account the deterioration of metal gripping [illegible] lower than for carbon steel), the higher value of strain rigidity, shrinkage, and spread.

A. Bulanov

(Abstracter's note [illegible] complete translation.)

Card 1/1

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

AUTHOR :

TITLE:

PERIODICAL:

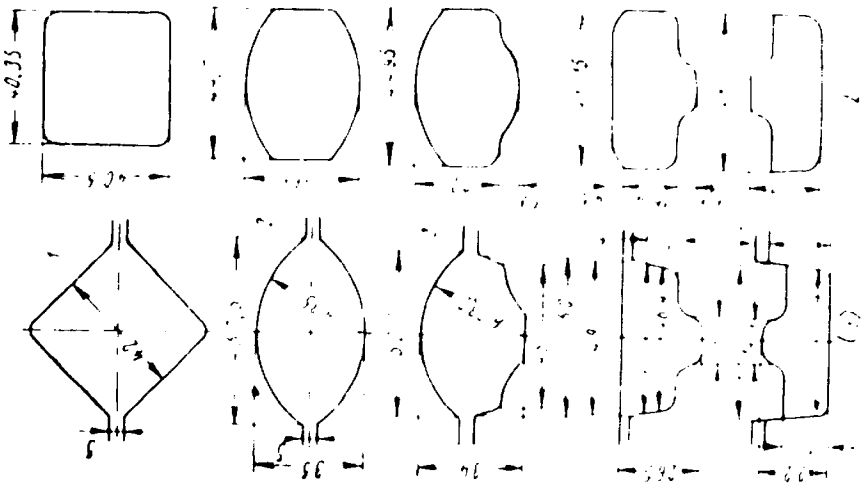
ABSTRACT:

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

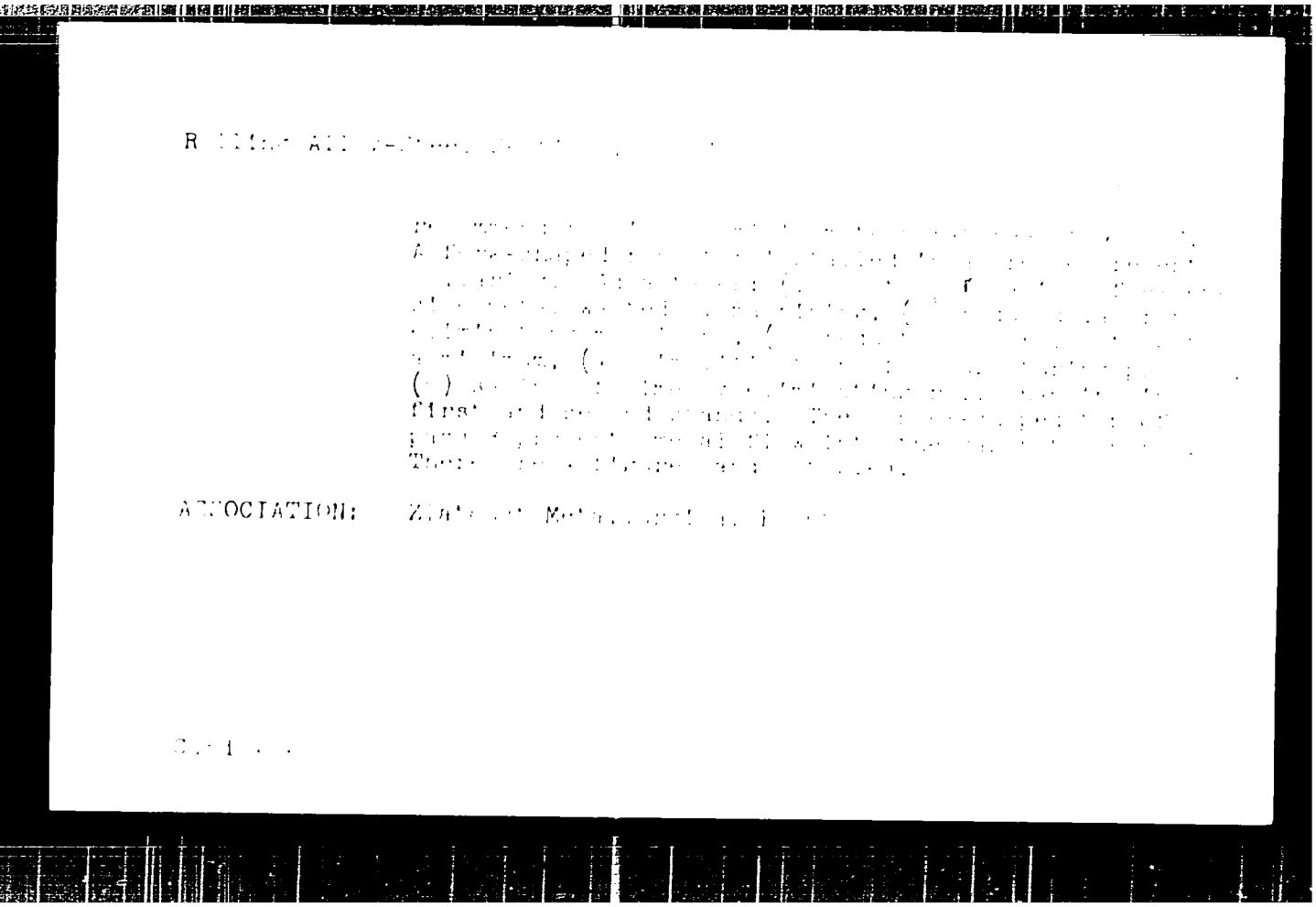
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113



Card 3/4

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113



APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEKRASOV, S.G.

Calculating the horizontal projection of the contact area in oval groove rolling. Izv.vys.ucheb.zav.; chern.met. no.6:88-94 '60. (MIRA 13:7)

1. Zlatoustovskiy metallurgicheskiy zavod.
(Rolling(Metalwork))

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

S 148/60 000 01 [illegible]
A161 A133

AUTHOR: Nekrasov, S. G.

TITLE: The grooving of straightening machine rolls for round bar steel.

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no. 12, 1960, 77 - 83

TEXT: Rapid and nonuniform wear of square roll grooves is the reason why most metallurgical plants use grooves with a curved outline for round bar steel. Three kinds of groove are discussed - 1) Of geometrically true half-circle shape (without divergence); 2) Circular with divergence (widening) at the base along the straight line; 3) Two-radius groove (Fig. 2). The article includes the calculation formulae (final formulae only, without derivation). Information is given on round grooves used at the Zlatoust Metallurgical Plant (Fig. 6) and their features and dimensions. The application range of the grooves is determined by their holding capacity, which diminishes with increasing tt space between metal and groove sides, and there is a critical tt value (tt_{cr}) that is calculated with the formula

$$tt_{cr} \geqslant \frac{D_{min}}{2} \cdot (\sqrt{2K} - 1 \ldots$$

Card 1/5

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

The grooving of straightening machine rolls

where D_{min} is the minimum circle diameter [illegible] and K - the "universality factor" depending [illegible] empirically. The optimum angle value [illegible] the 40 - 50° range. Straightening rolls with [illegible] tried at the Zlatoust Plant at different times [illegible] ally true) the edges broke off and [illegible] work diameter. The [illegible] was the [illegible] difficulty [illegible] in the horizontal plane. [illegible] second groove kind (with divergence). Steady straightening [illegible] both kinds at

$K \leq$ [illegible] for rod diameters [illegible] mm;
$K \leq$ 1.4 " " " [illegible] 50 mm;
$K <$ [illegible] " " " [illegible] 40 mm.

Higher K factors led to a loss of [illegible] through the passes several times. Wear [illegible] eters above [illegible] mm, due to high straightening [illegible] sality factor" and the minimum wear [illegible] obtained with two-radius grooves. The K [illegible] ues:

Card [illegible]

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113[illegible]

S/1[illegible]/[illegible]/[illegible]/[illegible]
A1[illegible]/A1[illegible]

The grooving of straightening machine rolls ...

at $r = \frac{D_{max} + D_{min}}{2}$ the K is < 1.6 for diameters 25 - 60 mm, and < 1.[illegible] for above 60 mm; at $r = \frac{D_{min}}{2}$ it is < 1.7 for diameters up to 60 mm, [illegible] for diameters above 60 mm. Both [illegible] of groove [illegible] machine at the plant; the "universality" [illegible] $r = \frac{D_{max}}{2}$ [illegible] two-radius groove rolls wear slower and more uniformly than [illegible] radius groove rolls, and do not loose the holding capacity [illegible] operation campaign. An example of two-radius groove [illegible] for 26 - 44 mm diameters at $\alpha = 45°$: 1) Groove width [illegible] $B = 1.1\ D_{max} = 1.1 \cdot 44 = 48.4$ mm; $r = \frac{D_{min}}{2} = \frac{22}{2} = 13$ [illegible] 2) [illegible]

$$R = \frac{0.25 \cdot B^2 + r^2 - Br_m \sin\alpha}{2r_m - B\sin\alpha} = \frac{0.25 \cdot 48.4^2 + 22^2 - 48.4 \cdot 22 \cdot 0.707}{2 \cdot 22 - 48.4 \cdot 0.707} = 32.4 \text{ mm}$$

$$r = \frac{D_{max}}{2} = \frac{44}{2} = 22 \text{ mm}$$

3) Groove depth - $H = r + \sqrt{(R-r)^2 - (R-r_m)^2 \sin^2\alpha} - (R-r_m)\cos\alpha = 13 + \sqrt{(32.4-13)^2 - (32.4-22)^2 \cdot 0.707^2} - (32.4-22) \cdot 0.707 = 23.6$ mm.

There are 6 figures.

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The grooving of straightening machine rolls... [illegible]

ASSOCIATION: Zlatoustovskiy [illegible] (Z[illegible])

SUBMITTED: A[illegible], 1959

Fig. 3.

Legend: a - circular;
b - with divergence;
c - two-radius.

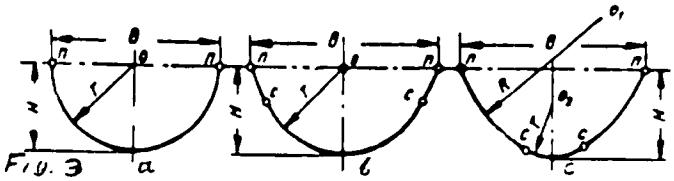

Fig. 3

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEFRASOV, S.[illegible]

Design of grooves in the square - oval system of [illegible] alloy steels. Izv. vys. [illegible] [illegible] [illegible]

1. [illegible] metallurgicheskiy zavod.
(Rolls (Iron mills))

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEKRASOV, S.G., inzh.

Design of rectangular grooves for the rolling of carbon and alloyed steel. Stal' no.6:541-542 Je '61. (MIRA 14:5)

1. Zlatoustovskiy metallurgicheskiy zavod.
(Rolls (Iron mills))

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

AUTH: Shuralev, M.V., Chief Engineer Deputy, Nerras [illegible]

TITLE: Economical Alloyed Steel Sections

PERIODICAL: Metallurg, 1961, No. 4, pp. 21 - [illegible]

ABSTRACT: New economical sections are now being rolled [illegible] No. 2 at the Zlatoust Metallurgical Plant (Figure 1). The sections are made [illegible] (20Kh3MVF) and 30 [illegible] (30KhGSA) alloyed steel. Each section is [illegible] passes: passes 1 - 5 on stand No. I; pass [illegible] stand II [illegible] stand III (Figure 2). A rectangular strip is used as initial [illegible] the rolling of shaped sections obtained from a ribbed groove with [illegible] (Figure 3), so that the initial strip width can be altered [illegible] switching over from one section to another one, and the [illegible] are controlled. Each of the [illegible] sections shown in Figure [illegible] shaped [illegible] and grooves designed for rolling with limited widening. [illegible] passes in the rolls of stand III it was taken into account that the [illegible] of widening the strip jams in the closed pass and tends to [illegible] the closed passes of the pre-finishing grooves were arranged [illegible]

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Economical Alloyed Steel Sections

roll and those of finishing grooves on the lower roll. [illegible] arrangement makes the strip bend downwards. To prevent [illegible] forged steel wires are placed into the closed passes [illegible] central roll. The described arrangement of grooves requires [illegible] new set of rolls only for stand III, and the boring of a ribbed groove [illegible] rolls of stand III. Roll changing is only necessary for stand II when switching over to the method of economical rolling of sections. [illegible] nature of strip deformation and the filling of grooves during the [illegible] strips, templets were taken from strips of the intermediate passes. When [illegible] section b) (Figure 1) of 20Kh3MVF steel the strip showed lateral bulging [illegible] entering the ribbed groove. The bulging was not fully eliminated [illegible] groove. When rolling a rectangular strip in the [illegible] reduction in length of the peaks of sections was observed [illegible] uniform compression over the width of the groove [illegible] and [illegible] mm at the edges. The final shaping of peaks is performed [illegible] groove. When rolling sections a) and b) (Figure [illegible] finishing groove with the metal is in agreement with [illegible] Data [illegible] the rolling of economical sections are presented [illegible] the described sections yields 22% savings of [illegible]

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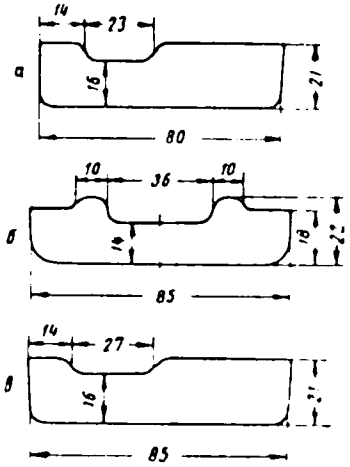
Economical Alloyed Steel Sections

reduces labor-consuming machining operations when manufacturing machine parts.

Figure 1: Economical sections; a- -01 (GK-01); b - GK-09; c - GK-014



Card 3/8

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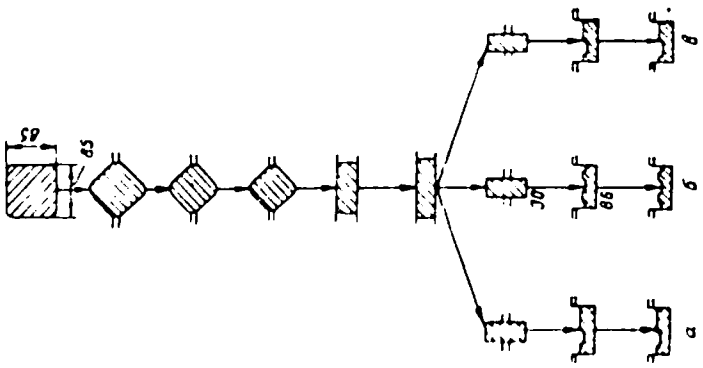
Economical Alloyed Steel Sections

Figure 2: Schematic diagram of rolling sections; a - GK-01; b - GK-09; c - GK-014



Card 4/8

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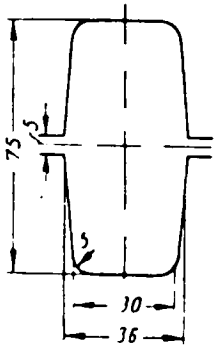
Economical Alloyed Steel Sections

S/13 /61/000/004/003/00-
A006/A001

Figure 3: Design of a ribbed groove



Card 5/8

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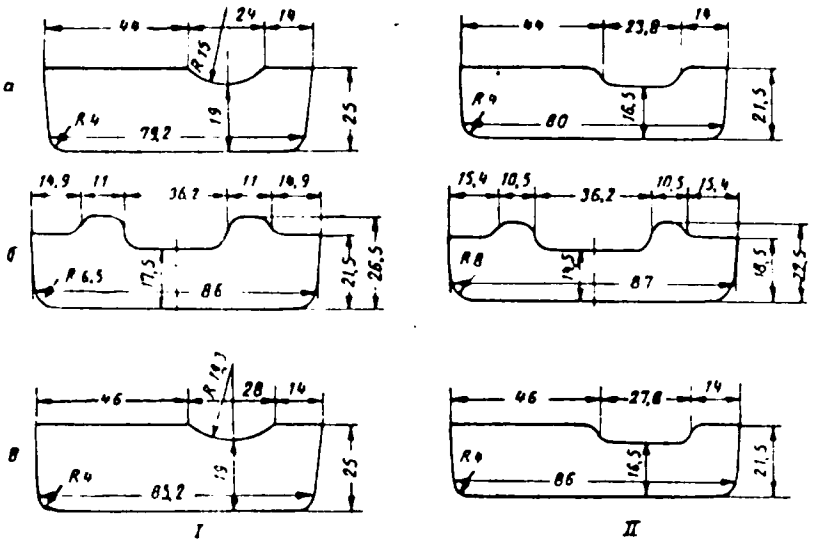
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

S/130/61/000/004/003/005
A006/A001

Economical Alloyed Steel Sections

Figure 4: Design of grooves for sections a - GK-01; b - GK-09; c - GK-014; 1) pass a ; II) pass 8



Card 6/8

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

S/130/61/[illegible]/[illegible]/[illegible]3/[illegible]
A006/A0[illegible]

Economical Alloyed Steel Sections

Table:

Analysis of calibrating sections GK-01, GK-09 and GK-014

a) Strip dimensions
b) Side of square
c) Cross sectional surface of strip in mm
d) Coefficient of reduction in length
e) Square
f) Smooth
g) Rib
h) Shaped

Клеть Stand	Пл. пуск Pass	Groove shape Форма калибра	Размеры полосы мм a: высота height	Размеры полосы мм a: ширина width	b: сторона квадрата	Площадь поперечного сечения полосы мм²	c: коэффициент [illegible]	d: Strip angle	[illegible]	Section
		blank Заготовка			85	7100				
I	1	e Квадрат	–		78	5830	1.22	20	40	
	2	То же	–		70	4820	1.21	24	–50	
	3	» »	–	–	70	4680	1.03	15	–30	
	4	f Гладкий	50	78	–	3650	1.28	19	–20	
	5	То же	30	89	–	2550	1.43	18	–45	
II	6	g Ребро	77	30	–	2300	1.11	15	–30	GK-01 ГК 01
III	7	h Фасонный	25	79	–	1880	1.22	13	50	
	8	То же	21.5	80	–	1600	1.17	7	–45	
I	5	Гладкий	30	89	–	2550	1.43	18	–45	GK-09 ГК 09
II	6	Ребро	83	30	–	2480	1.03	11	–0	
III	7	Фасонный	26.5	86	–	1835	1.35	14	–45	
	8	То же	22.5	87	–	1530	1.2	8	–20	
I	5	Гладкий	30	89	–	2550	1.43	18	–45	GK-014 ГК 014
II	6	Ребро	83	30	–	2480	1.03	11	–0	
III	7	Фасонный	25	85	–	2030	1.22	13	50	
	8	То же	21.5	86	–	1700	1.19	7	–45	

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

S/130/61/000/004/003/005
A006/A001

Economical Alloyed Steel Sections

There are 4 figures and 1 table.

ASSOCIATIONS: Zlatoustovskiy metallurgicheskiy zavod (Zlatoust Metallurgical Plant) (Shuralev); Sibirskiy metallurgicheskiy institut (Siberian Metallurgical Institute) (NeKrasov)

Card 3/3

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

S/130/61/[illegible]
A006/A1[illegible]

AUTHORS: Shuralev, M. V.; Nekrasov, S. G.; Galega, S. G.

TITLE: The new economical ГК-06 (GK-06) shaped section

PERIODICAL: Metallurg, no. [illegible], 1961, 23-24

TEXT: A new economical (GK-06) shaped section made of alloyed ЭИ415 (EI415) and 30ХГСА (30KhGSA) steel was assimilated at the Zlatoust Metallurgical Plant. The section is rolled on a medium-grade "400 Nr.2" mill which consists of four three-high stands arranged in a line. The 85 mm square blanks are heated in a continuous furnace and rolled into finished sections in 8 passes: the first four passes on stand I, three on stand II and the finishing pass on stand III. The section is shaped in one semi-closed groove with large cutting edges and 3 closed beam-type grooves with constant position of joints. All section grooves were designed for operation with reduced spread thus promoting the precise formation of the shaped section. The closed grooves are placed on the lower rolls since due to the reduced spread the strip may jam the closed grooves and bind with the roll. The dimensions of the rolling diameter are almost equal in order to prevent excessive increase of the lower roll load and weakening

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

S/130/61/000/[illegible]/A006/A101

The new economical GK-06 (GK-06) shaped section

of the upper roll. Binding of the lower roll is avoided by the use of forged steel guide fixtures placed into the closed grooves. Experimental and industrial rolling of the GK-06 shape has shown that if the stands are correctly set-up satisfactory filling of the grooves with metal is assured, the finished sections possess the dimensions required and a satisfactory surface quality. The use of GK-06 sections instead of rolled strips in machinebuilding saves about [illegible] of alloyed metal and reduces labor consuming mechanical operations when manufacturing machine parts. There are 3 figures and 1 table.

ASSOCIATION: Zlatoustovskiy metallurgicheskiy zavod (Zlatoust Metallurgical Plant); Sibirskiy metallurgicheskiy institut (Siberian Metallurgical Institute)

Card 2/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEKRASOV, S.G.

Resistances in rolling with standard grooves. Izv.vys.ucheb.zav.; chern.met. 5 no.4:91-101 '62. (MIRA 15:5)

1. Sibirskiy metallurgicheskiy institut.
(Rolling (Metalwork))

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEKRASOV, S.G.

Calculating the horizontal projection of the contact area in rolling with plain grooves. Izv. vys. uchob. zav.; chern. met. 6 no.4:88-97 '63. (MIRA 16:5)

1. Sibirskiy metallurgicheskiy institut.
(Rolling (Metalwork)—Graphic methods)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEKRASOV, S.G.

Designing the next to the last oval planishing groove for rolling round steel. Izv. vys. ucheb. zav., chern. met. 6 no.8:115-119 '63. MIRA 16:11

1. Sibirskiy metallurgicheskiy institut.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEKRASOV, [illegible]

[illegible] the shape of the deformation center during [illegible] in plain grooves. Izv. vys. ucheb. zav.; chernomet. 7 no. [illegible] '64. [illegible]

[illegible] Sibirskiy [illegible] institut.

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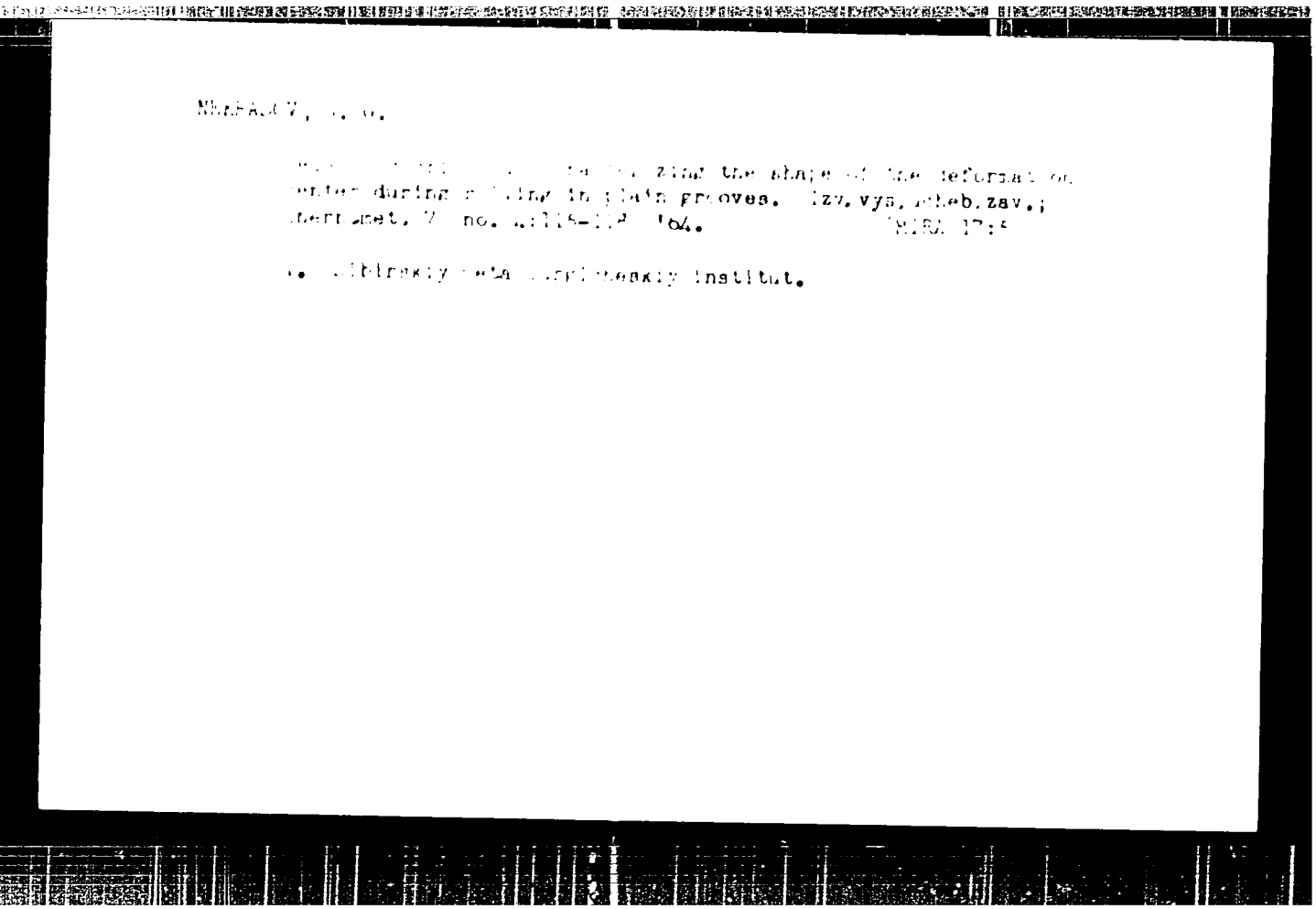

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

NEKRASOV, S.G.; SACHKO, N.S.; ABAKUMOVA, N.V.

Book reviews. Izv.vys.ucheb.zav.; chern.met. 8 no.[illegible]

1. Sibirskiy metallurgicheskiy institut.

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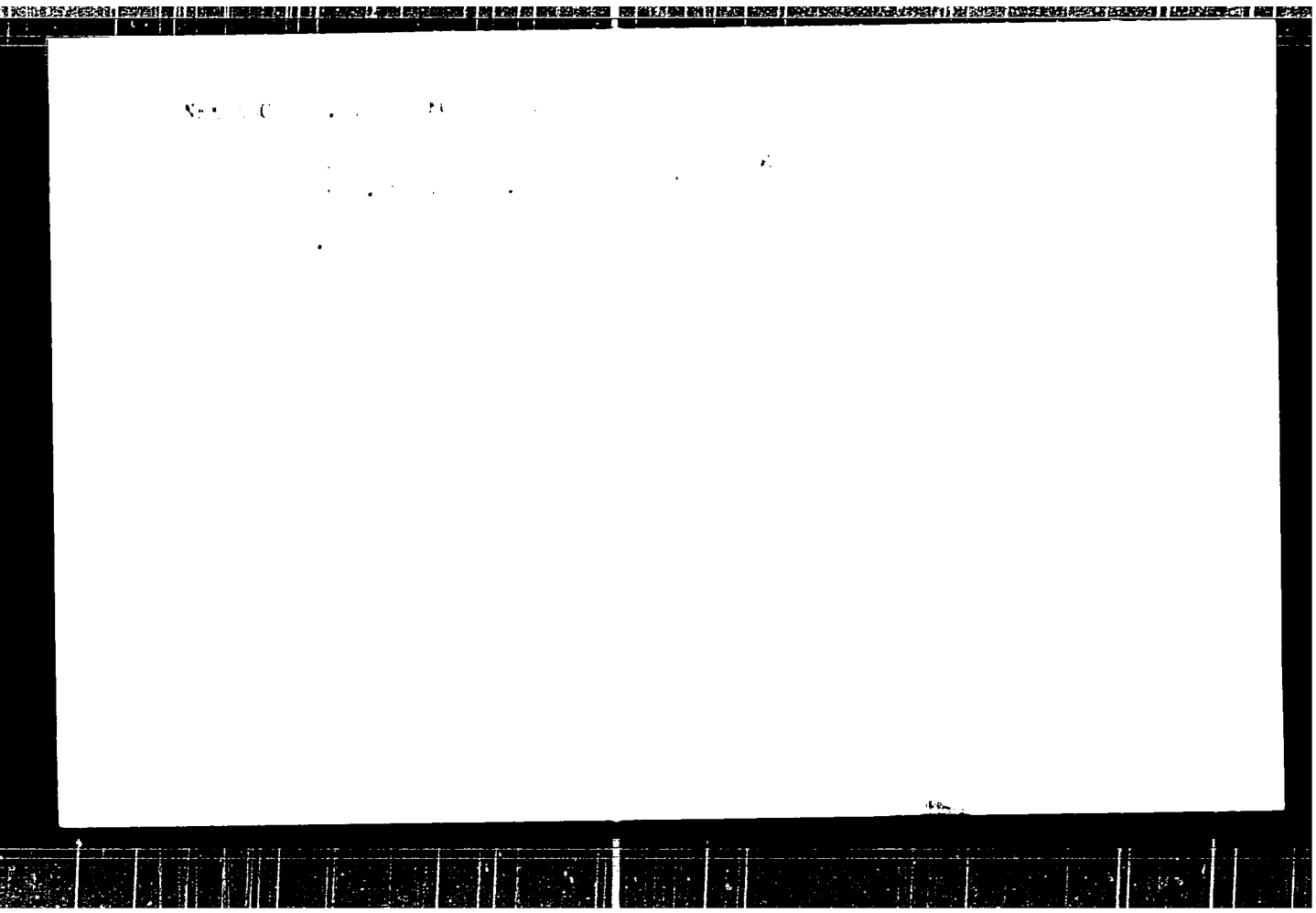
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113(



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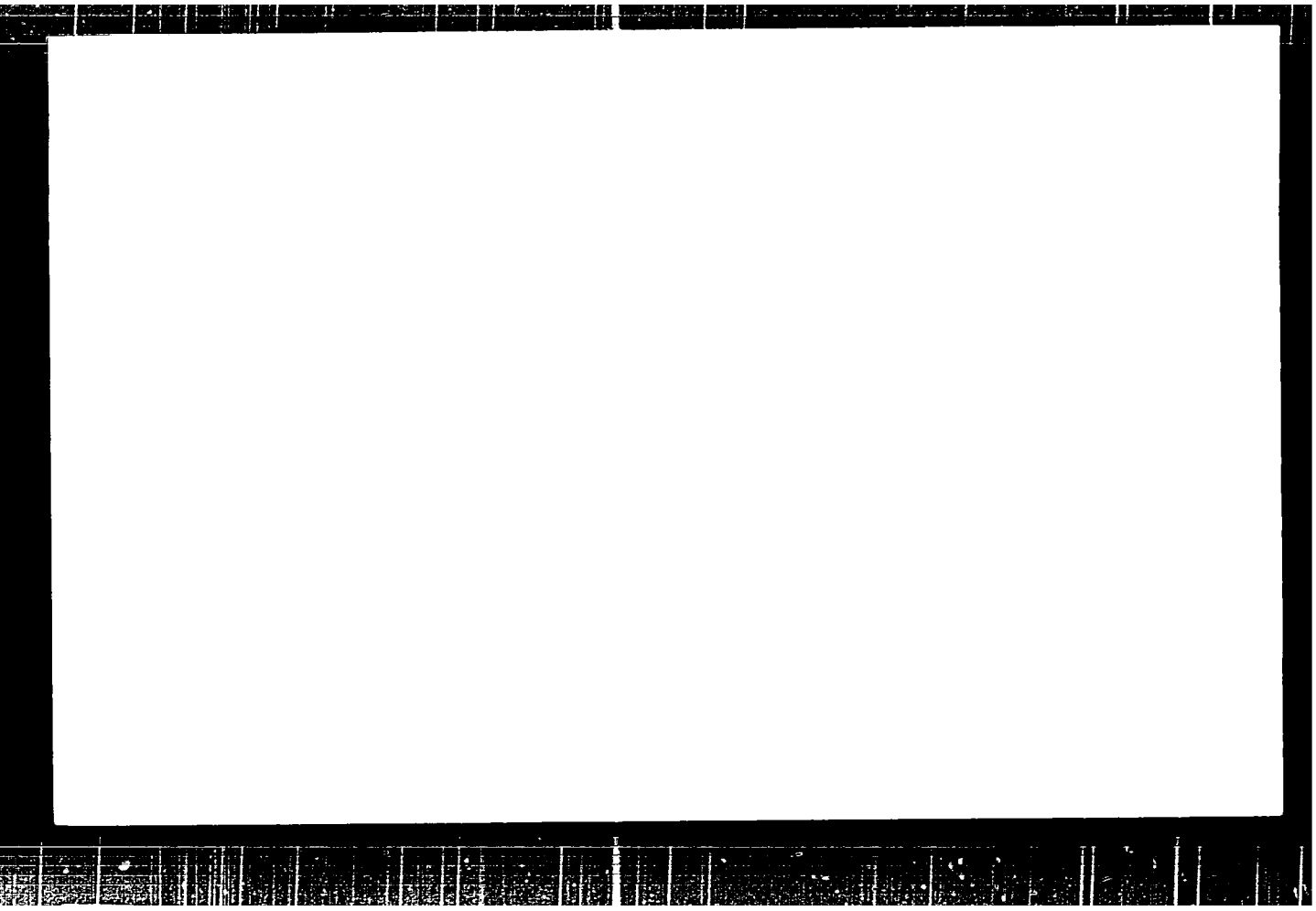

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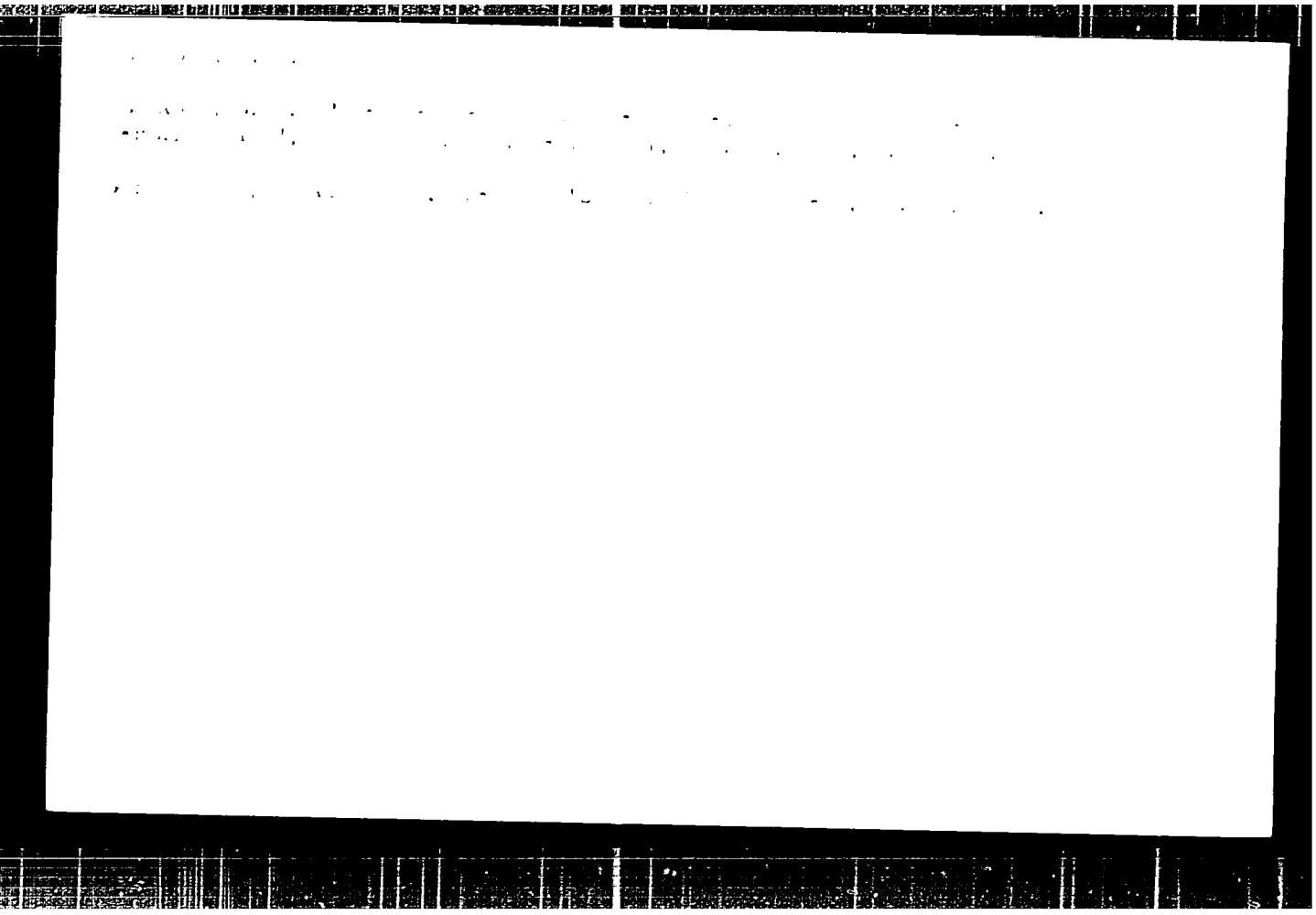

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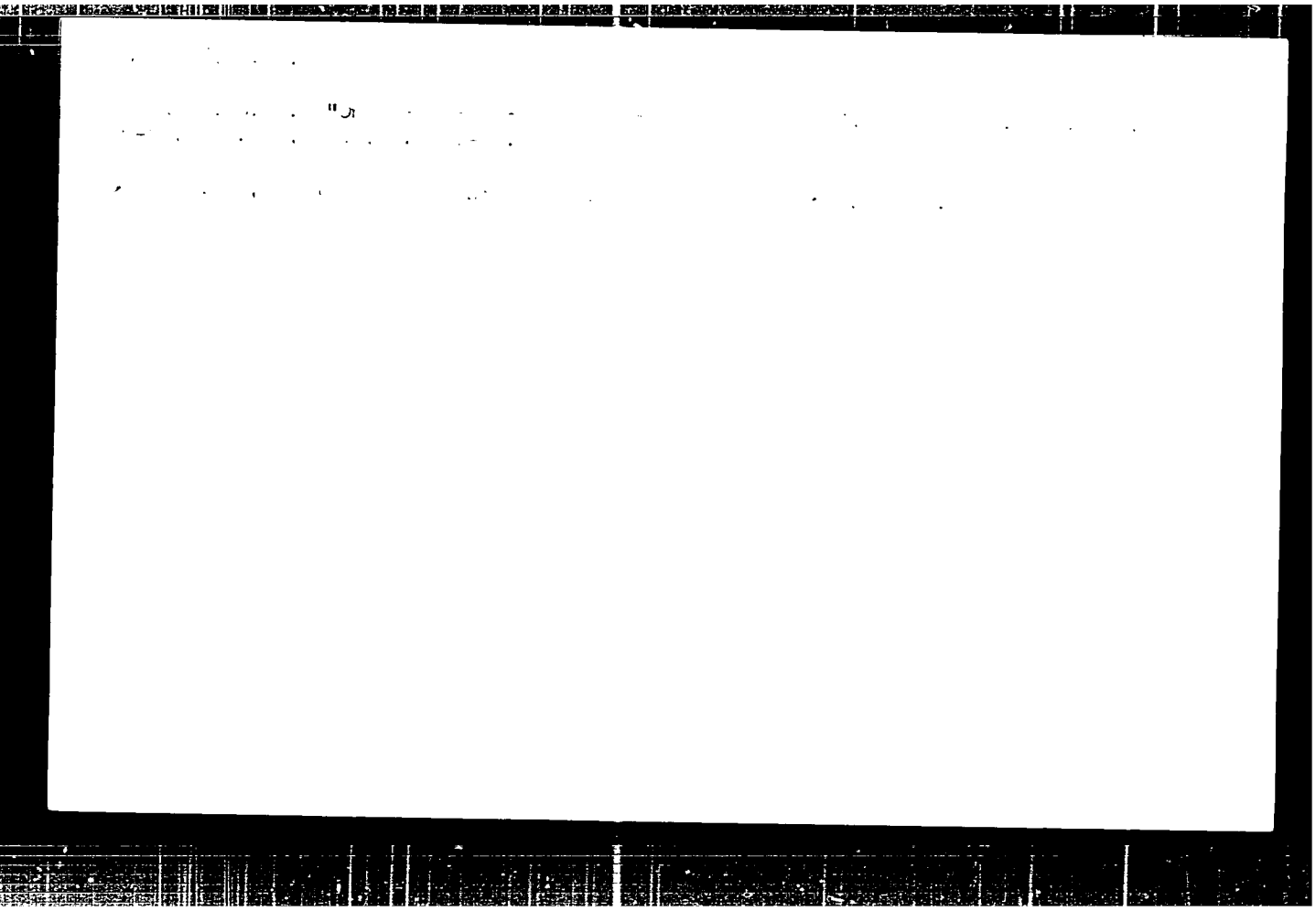

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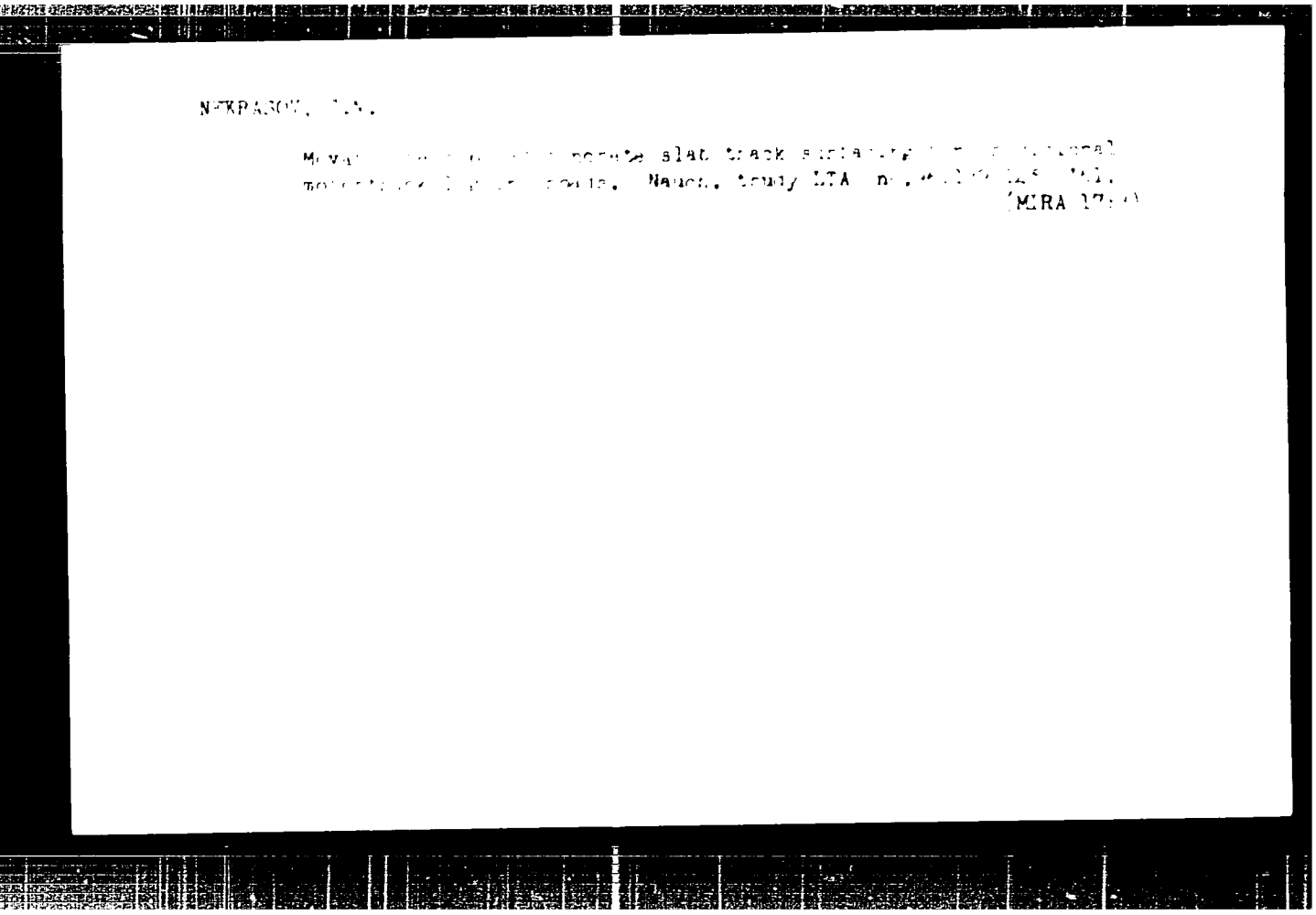
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113



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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

L 1294-66 EWT(d)/EED-2/EWP(1) IJP(c) BB/GG
ACCESSION NR: AR5007329 UR /0271/65/000/001/B044/B044
681.142.62

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika. Sv. t., Abs. 1B253

AUTHOR: Yefremov, V. D.; Nekrasov, S. P.

TITLE: Code converters based on a current-distribution principle

CITED SOURCE: Uch. zap. aspirantov i soiskateley. Leningr. politekh. in-t. Elektroizmerit. tekh. i avtomatika. L., 1963, 72-78

TOPIC TAGS: code converter, binary decimal converter

TRANSLATION: Several code converters constructed on a current-distribution principle and using square-loop ferrites are described. A circuit for converting binary code into "1 out of 2" code is presented. In the binary system of coding, the signal in the trunk corresponds to 1, the absence of a signal, to 0. In the "1 out of 2" code, a signal in one trunk means 1, in another trunk, it means 0. The circuit operation is described. A circuit for converting three digits of the "1 out

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L 1294-66
ACCESSION NR: AR5007329

of 2" code into a "1 out of 8" code is explained. The above circuits permit designing the converters of a binary number into any number system having base 2^n. A conversion circuit of one digit of a "2 out of 5" code into a "1 out of 10" code is considered, as is a circuit for conversion of the cyclic Gray code into a "1 out of 2" code. The conversion algorithm is presented, and operation is explained. Also, a binary-decimal converter is considered which includes a control device that coordinates the operation of various components, a counter that checks the moment of finishing the conversion, and decimal and binary resisters; the converter operation is described. A circuit is given of one digit of the decimal register which permits doubling of the stored number. A structural diagram of a decimal-binary converter is presented. A circuit of one digit of the decimal register which permits division of the stored number by 2 is presented. Bibl. 2, figs. 8.

SUB CODE: DP ENCL: 00

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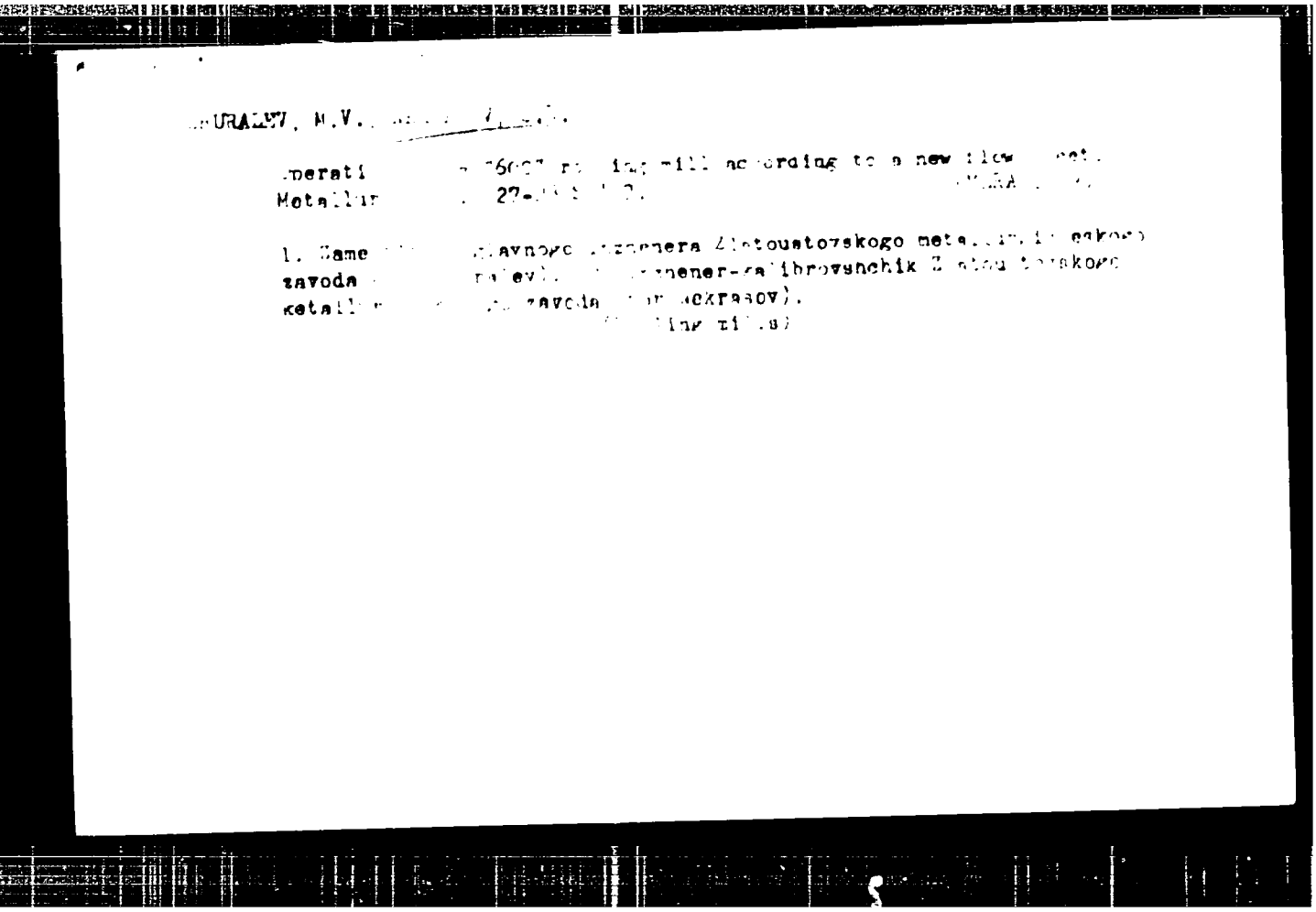
URALEV, M.V. [illegible]

Operati [illegible] 6000 [illegible] mill according to a new flow [illegible]
Metallur [illegible] 27-[illegible]

1. Same [illegible] glavnogo [illegible]nenera Zlatoustovskogo metallurgicheskogo zavoda [illegible] [illegible]nener-kalibrovshchik Zlatoustovskogo metallurgicheskogo zavoda [illegible] Mekrasov).
([illegible] mills)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136



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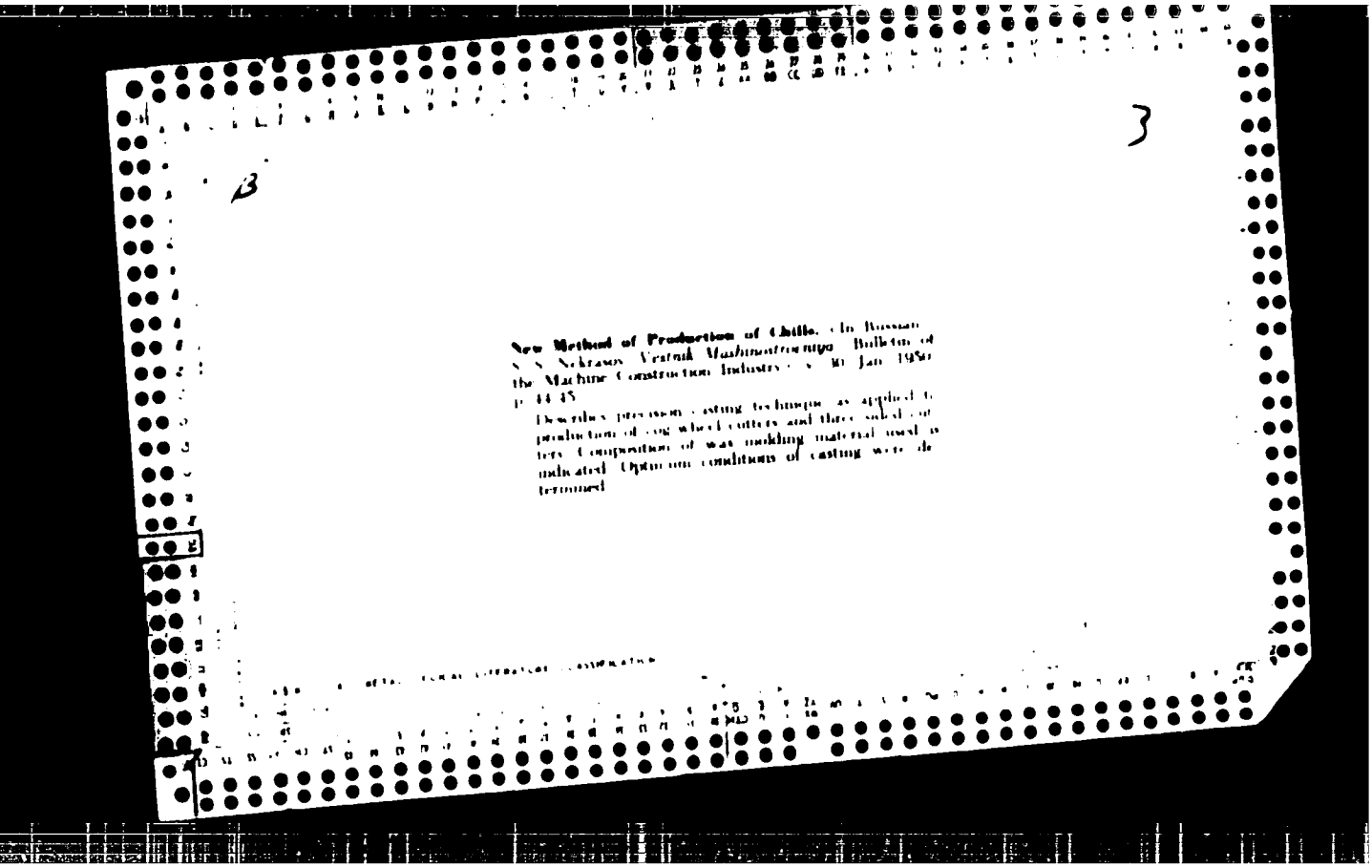


New Method of Production of Chills. (In Russian) S. S. Nekrasov. *Vestnik Mashinostroeniya.* Bulletin of the Machine Construction Industry, v. 30, Jan. 1950, p. 44-45.

Describes precision casting technique as applied to production of cog wheel cutters and three sided cutters. Composition of wax molding material used is indicated. Optimum conditions of casting were determined.

METAL - LOCAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

NEKRASOV, S. P. and S. [illegible]V.

Tochnaia otlivka reznushchikh instrumentov metodom vyplavliaemykh modelei.
(Vestn. Mash., 1950, no. 11, p. 80-83)

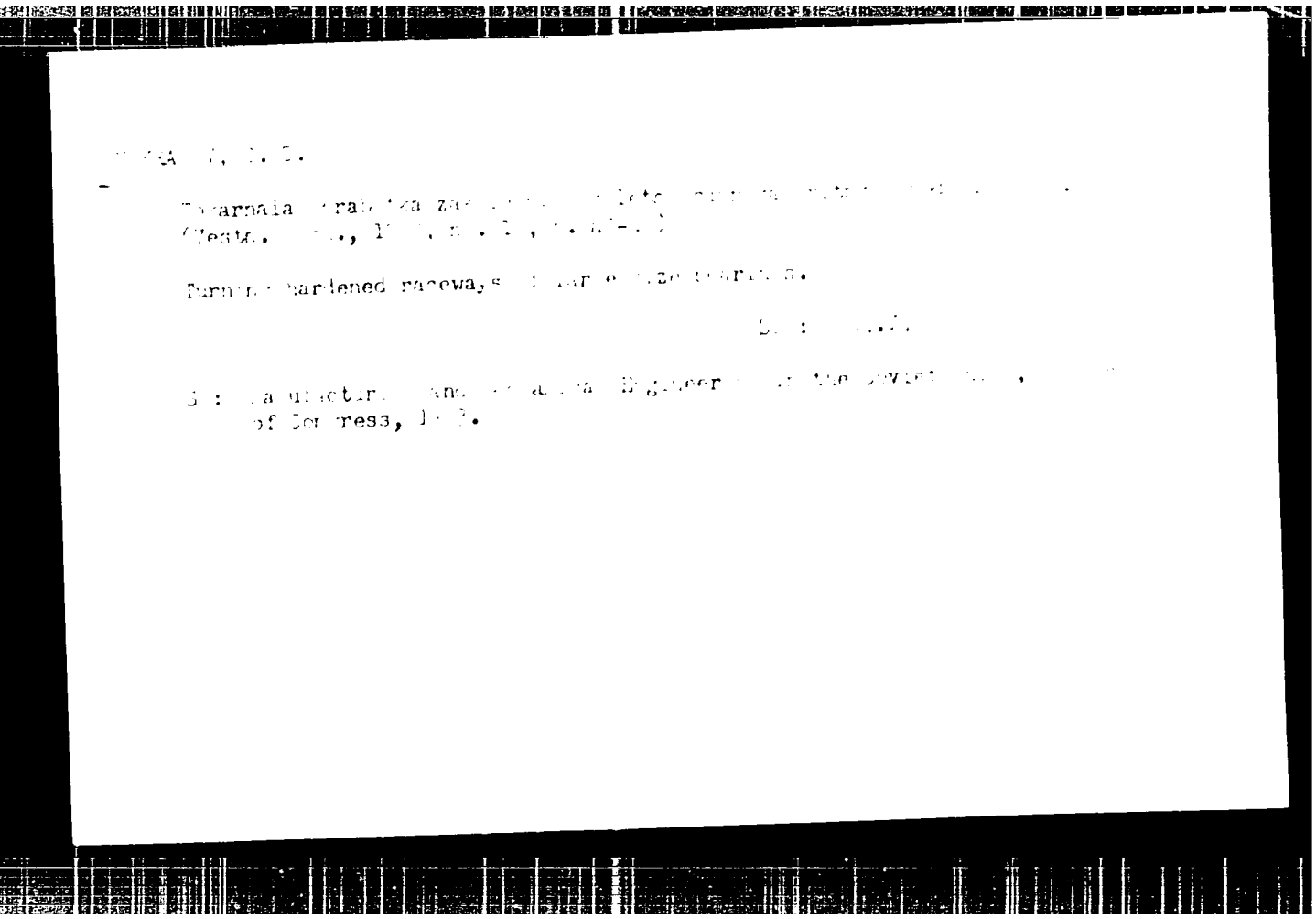
Precision casting of cutting tools by wax model method.

SO: [illegible]

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001136

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113



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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00113

1. NEKRASOV, S.S.

2. USSR (600)

4. Pipe, Steel

7. Workability of cold-rolled pipes made of steel ShKh 15. Podshipnik, no.9, 19[illegible].

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