YEMEL'YANOV, V.M.

Improving the fastening of spikes on log jacks. Sbor.vnedr.rats.pred. v les. i meb.prom. no.2:9-10 '59. (MIRA 13:8)

1. Dubrovskiy domostroitel'nyy kombinat.
(Lumbering--Machinery)

YEMEL'YANOV, V.M. (Moskva)

Laminar boundary layer with the reaction front on a porous plate. Inzh.zhur. 2 no.3:21-26 '62. (MIRA 15:8)
(Boundary layer)

YEMEL'YANOV, V.M.

Improving the assembly process for window sashes. Sbor.vnedr.rats. pred. v les. i meb.prom. no.2:17-19 '59. (MIRA 13:8)

1. Dubrovskiy domostroitel'nyy kombinat.
(Windows)

YEMEL'YANOV, V.M.

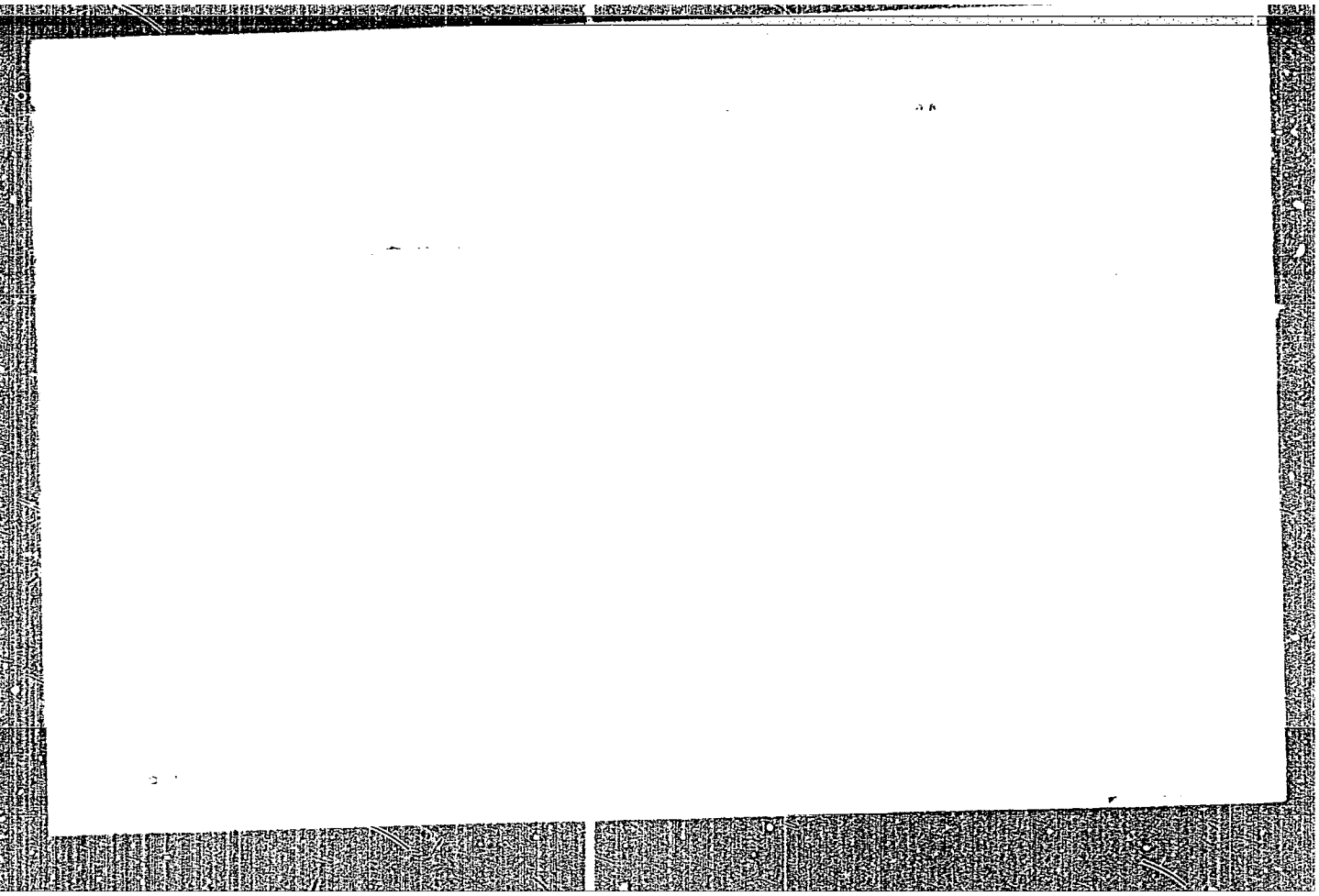
Improving the design of a gas-flow vacuum apparatus of the GAZ-51 fire engine. Sbor.vnedr.rats.pred. v les. i meb.prom. no.2:145 '59. (MIRA 13:8)

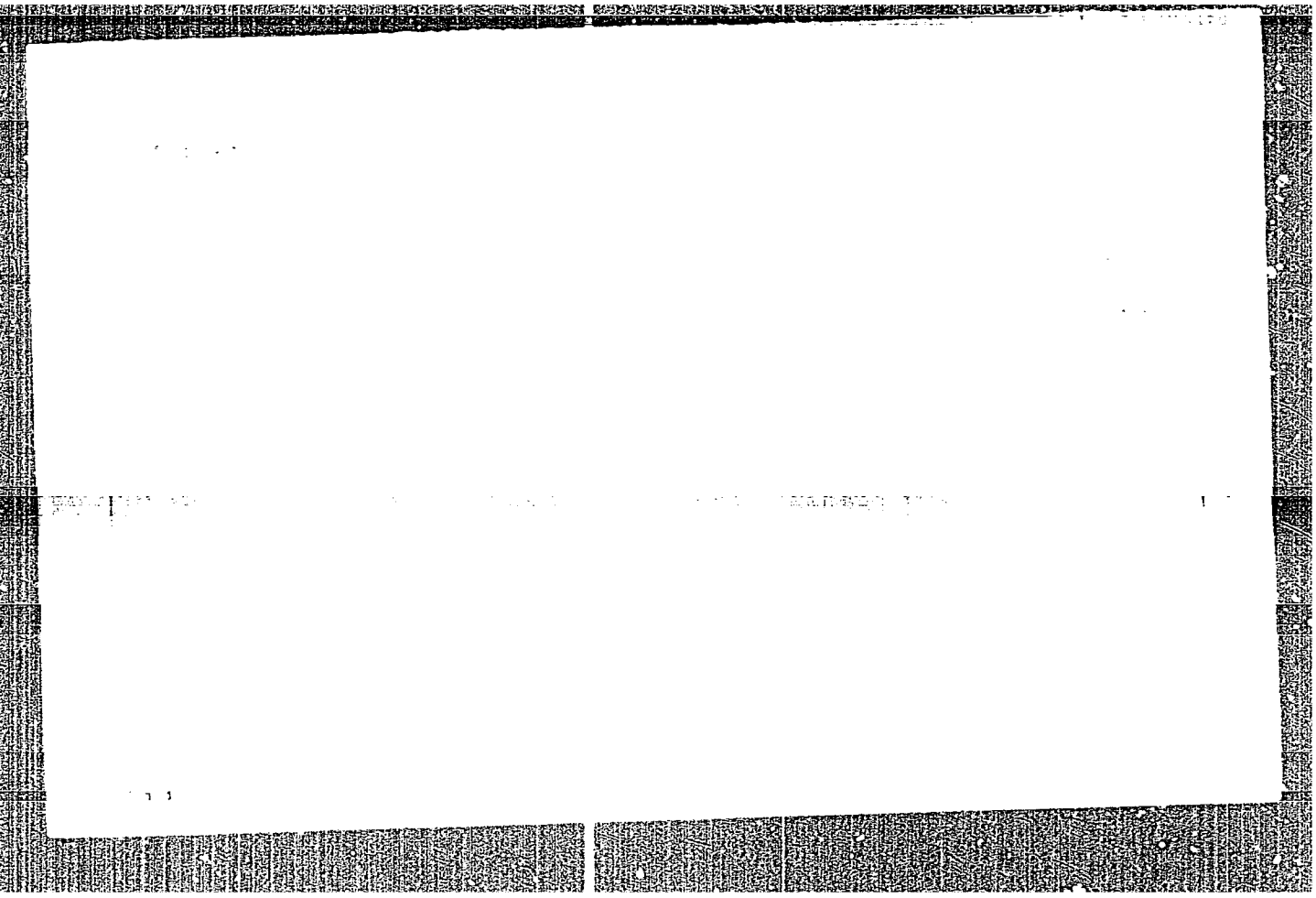
1. Dubrovskiy domostroitel'nyy kombinat.
(Vacuum aparatus) (Fire engines)

YEMEL'YANOV, V.M.

Brakes for a wood-milling machine. Sbor.vnedr.rats.pred. v les. i meb.prom. no.2:188-189 '59. (MIRA 13:8)

1. Dubrovskiy domostroitel'nyy kombinat.
(Woodworking machinery--Brakes)





YEMEL'YANOV, V. G.

Instrumental Errors of the Polar Planimeter."

report presented att the Regular Scientific Conf. on Soil Sci., Geodesy and Aerophotogeodesy, at the MIIZ (Moscow Inst for Soil Sci. Engineering.) 28-31 Jan 1958.

Chief Engineer for Geodesy of the Regional Soil Science Dept, Orel District.

YEMEL'YANOV, V.G.

Sliding lines of the polar planimeter. Geod. i kart. no.8:35-44 Ag '60. (MIRA 13:10)

(Planimeter)

TONSKIY, D.G., inzh.; YEMEL'YANOV, V.I., arkhitektor

Plans of apartment houses to be built on collective farms and state farms. Biul.stroi.tekh. 18 no.4:32-34 Ap '61.
(MIRA 14:6)

(Farmhouses) (Apartment houses)

YEMEL'YANOV, V.I.; KUZNETSOV, S.G., kand.sel'skokhoz. nauk

Possibilities for developing agriculture on the "Sergievskii" State Farm. Zemledelie 7 no.7:14-18 Jl '59. (MIRA 12:9)

1. Glavnyy agronom sovkhoza "Sergiyevskiy" (for Yemel'yanov).
(Moscow Province--State farms)

YEMEL'YANOV, V.I.

Three-phase bridge network (basic equations and external characteristic). Izv. NIIPT no.8:171-211 '61. (MIRA 15:7)
(Electric current rectifiers) (Bridge circuits)
(Electric power distribution—Direct current)

9.2150

31835
S/194/61/000/010/055/082
D256/D301

AUTHORS: Yemel'yanov, V.I., Ivanchenko, V.A. and Ozol, A.Ya.

TITLE: High-power high-voltage rectifier tube (with a non-sectioned anode-bloc)

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 31, abstract 10 G212 (Izv. N.-in. in-ta postoyan. toka, 1960, sb. 6, 112-120)

TEXT: Difficulties are encountered when attempts are made to increase at high currents the working voltage of a high-tension rectifier tube owing to ionic currents distorting the voltage distribution. The losses in the tube complicate the cooling system and increase the costs. A high voltage tube BPH-900/100 (VRN-900/100)-type was constructed using a non-section anode-bloc with a cylindrical anode inlet, the cathode with a cooling screen being placed non-symmetrically in the body of the tube. The tube is of a comparatively small size and it consists of a small number of com-

Card 1/2

31835
S/194/61/000/010/055/082
D256/D301

High-power high-voltage...

ponents thus simplifying production. The tube is rated at 900 A, 100-110 kV. [Abstracter's note: Complete translation]

Card 2/2

27506
S/079/61/031/009/007/012
D215/D306

5.4300 2209, 2409

AUTHORS: Petrov, K.A., Smirnov, V.V., and Yemel'yanov, V.I.

TITLE: Alkylation and arylation of white phosphorus

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 9, 1961, 3027 - 3030

TEXT: The authors for the first time carried out direct alkylation and arylation of white phosphorus without catalysts or activating additives. Heating benzyl chloride with white phosphorus at 300°C for 4 hrs. gave benzyldichlorophosphine. It may be assumed that alkylation and arylation reaction proceed according to a free radical mechanism as in both alkyl and aryl halides. C - Halogen bond may undergo homolytic splitting. The free radicals formed attack the white phosphorus molecule, whose structure is a tetrahedran with P atoms at each apex; this decomposes into two P_2 molecules only at 800°C. In the initial stages of alkylation and arylation the splitting of P - P bond occurs under the action of free radi-

Card 1/4

Alkylation and arylation of ...

cals to form a tetraphosphorus - alkyl - or aryl halide which on renewed attack causing breaking of P - P bonds converts to a halophosphonate

$$P_4 + 3C_6H_5\dot{C}H_2 + 3\dot{C}l \rightarrow C_6H_5CH_2PCl_2 + (C_6H_5CH_2)_2PCl.$$

The authors established a relation between the stability of the free radical and the minimum temperature, at which the reaction occurs by introducing the following groups into the reaction

$$C_6H_5\dot{C}H_2 < C_6H_5\dot{C}HCH_3 < (C_6H_5)_2\dot{C}H < (C_6H_5)_3\dot{C},$$

the stability of which increases from left to right. The temperature of the reaction decreases on passing from haloderivatives forming less stable radicals, to haloderivatives giving more stable radicals; for benzyl chloride the temperature is 300°C, for 1-chlorophenylethane 270°C, for diphenyl-chloromethane 250°C, and for triphenylchloromethane 225°C. Aralkylation of white phosphorus with benzyl chloride was conducted in a sealed tube heated at 300° C for 4 hrs. Distillation yielded three fractions, the second

being identified as benzyl dichlorophosphine. This was dissolved in CCl_4 and nitrogen oxides passed through the solution to give benzylphosphinic acid dichloride, b.pt. 130°C/2 mm. Hydrolysis of the latter by refluxing with water yielded white crystalline benzylphosphinic acid, m.pt. 166-166.5°C. The third fraction, b.pt. 234-236°C/12 mm was identified as dibenzylchlorophosphine. The distillation residue after boiling with alkaline H_2O_2, neutralization and acidification gave dibenzylphosphinic acid. Arylation of white phosphorus with bromobenzene using a similar method gave phenyldibromophosphine, diphenylbromophosphine and triphenylphosphineoxide. Arylation with m-bromotoluene gave m - toluyldibromophosphine b.pt. 110-111°C/2 mm and di-m-toluylbromophosphine, b.pt. 141-142°C/2 mm. Alkylation with n-octyl bromide produced n-octyldibromophosphine b. pt. 72°C/22 mm and di-n-octylbromosphosphine b.pt. 140°C/11 mm. There are 10 non-Soviet-bloc references.The references to the English language publications read as follows: O. Masson, J.B. Kirkland, J. Chem. Soc., 55, 138, 1870; F.W. Bennet, H.J. Emeleus, R.

27506

S/079/61/031/009/007/012
D215/D306

Alkylation and arylation of ...

N. Haszeldine, J. Chem. Soc., 1565, 1953; British Patent 707961, 1954; Ch.a., 48, 10642, 1954.

SUBMITTED: September 5, 1960

Card 4/4

YEMEL'YANOV, Viktor Iosifovich; KECHEK, R.I., otv. red.; PALAMARCHUK, A.B., red.; PAVLICHENKO, M.I., tekhn. red.

[Technology of the most important branches of industry] Tekhnologiia vazhneishikh otraslei promyshlennosti. Rostov-na-Donu, Izd-vo Rostovskogo univ., 1963. 357 p. (MIRA 17:3)

YEMEL'YANOV, V I.

4902* Use of Easily-Removable Foundry Heads on a Massive Steel Casting. Primenenie legkootdelyaemykh pribylei na krupnom stal'nom lit'e. (Russian.) I. E. Blokhin, E. T. Dolbenki, V. I. Emel'ianov, and V. A. Pershin. *Liteinoe proizvodstvo*, 1955, no. 12, Dec., p. 24-25.

Advantages of this design and method over setup with foundry head removed by machine- or fire-cutting. Use of separating plates with feeder openings and frame rods. Diagrams, graph, table.

YEMEL'YANOV, V.I.

Casting supporting stands with reduced machining allowance. Lit. proizv.no.2:supplement:47 '56. (MLRA 9:7)
(Steel castings) (Rolling mills)

BARDIN, I.P.[deceased]; VAVLOV, N.S.(Moskva); GESS-DE-KAL'VE, B.A. (Moskva); DIYEV, V.Ye.(Moskva); YEMEL'YANOV, V.I.(Moskva); KAHAVETS, P.I.(Moskva); MELENT'YEV, P.N.(Moskva); RUMAKINA, M.A. (Moskva); TSYLEV, L.M.(Moskva).

Reduction roasting of iron in ore-fuel granules in a fludized bed with fountain effect. Izv. AN SSSR. Otd.tekh.nauk. Met.i topl. no.5:13-18 S-O '60. (MIRA 13:11)
(Ore dressing) (Fluidization)

YEMEL'YANOV, V. N. (Head Veterinary Doctor of the Volchkov District, Tambov Oblast').

"Our experience in the work of animal husbandry"

Veterinariya, vol. 39, no. 9, September 1962, p. 9

YEMEL'YANOV, V.N.

BROUN, A.G.; YEMEL'YANOV, V.N., kandidat meditsinskikh nauk

Dispensary services for the rural population and workers of machine-tractor stations. Sov. med. 18 no.8:39-42 Ag '54. (MLRA 7:8)

1. Iz Yaroslavskogo meditsinskogo instituta (dir. D.P.Telkov) i Yaroslavskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach Z.M. Kunitsyna)

(RURAL CONDITIONS,
in Russia, dispensary serv.)
(OUTPATIENTS SERVICE
in Russia, dispenseries in rural areas)

YEMEL'YANOV, V.N.

YEMEL'YANOV, V.N., dotsent; MEYYERSON, Ye.G.

Public health in Yaroslavl Province; 1917-1957. Sov.zdrav. 16 no.10:48-54 O '57. (MIRA 10:12)

1. Iz kafedry organizatsii zdravookhraneniya i istorii meditsiny (zav. - dotsent V.N.Yemel'yanov) Yaroslavskogo meditsinskogo instituta.
(PUBLIC HEALTH, hist. in Russia)

YEMEL'YANOV, V.N., dotsent

Instruction in health education at the Yaroslavl Medical Institute. Mat. dlia prep. san. prosv. v med. inst. no.5:13-16 '59. (MIRA 13:12)

1. Iz Yaroslavskogo meditsinskogo instituta, kafedra organizatsii zdravookhraneniya (zaveduyushchiy - dotsent V.N.Yemel'yanov).
(HEALTH EDUCATION)

YEMEL'YANOV, V.N., dotsent (Yaroslavl')

Method for teaching the history of medicine. Sov. zdrav. 21 no.1: 40-41 '62. (MIRA 15:2)

(MEDICINE--STUDY AND TEACHING)

ACC NR: AP6012711 (A) SOURCE CODE: UR/0190/66/008/004/0668/0673

AUTHOR: Andrianov, K. A.; Yemel'yanov, V. N.

ORG: Institute of Organoelemental Compounds AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR)

TITLE: Condensation of tetrafunctional half-esters with di- and tetrafunctional organosilicon alcohols

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 4, 1966, 668-673

TOPIC TAGS: silicon, alcohol, silane, condensation reaction, ester, organosilicon compound

ABSTRACT: A study has been made of certain kinetic condensation principles of half-esters described by the general formula $C[CH_2OC(O)(CH_2)_nCOOH]_4$, where n = 2, 4, and 8 with bis-(hydroxyethoxymethyl)tetramethyldisiloxane and tetra-kis-(hydroxyethoxymethyl-dimethylsiloxy)silane. The rate constants of polyesterification and of gelation were calculated. It was determined that the rates of condensation up to the point of gelation and after the beginning of gelation are inversely proportional to the length of branching in half-esters, and are proportional to the functionality of organosilicon alcohol. The degree of condensation at the gel point increases with increased length of branching in half-esters. It was found that above the gel point soluble fractions of the polymer maintain the constant acid number corresponding to the acid number of the system just below the gel point. Orig. art. has: 5 figures

Card 1/2 UDC: 541.64 678.84

L 46605-66
ACC NR: AP6012711 [HT]

and 2 tables. [Based on authors' abstract.]

SUB CODE: 07/ SUBM DATE: 21Apr65/ ORIG REF: 004/ OTH REF: 001/

Card 2/2 mjs

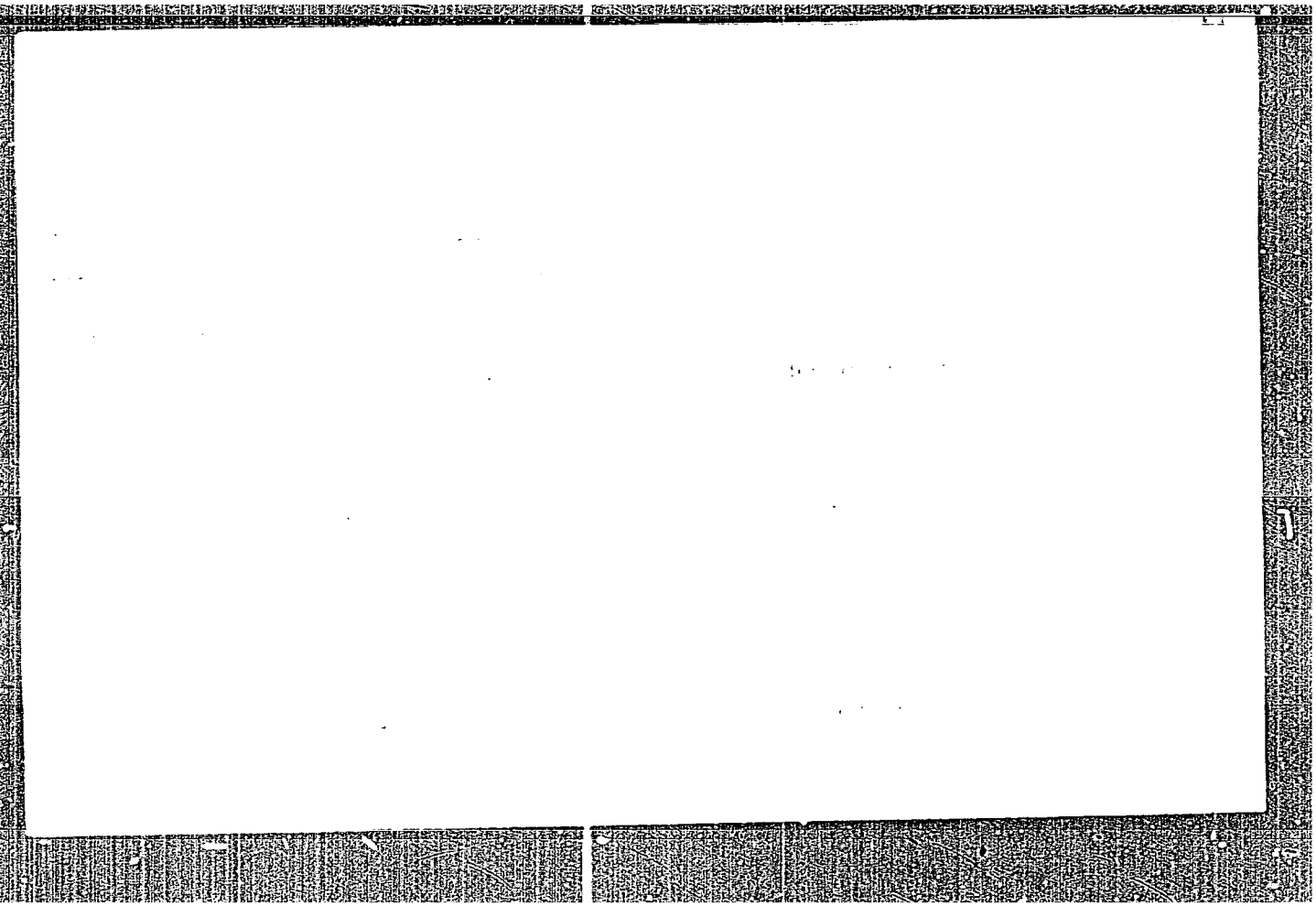
ANDRIANOV, K.A.; YEMEL'YANOV, V.N.

Synthesis of polyesters and polyester amides having a cycloreticular structure. Izv. AN SSSR. Ser.khim. no.7:1267-1272 Jl '63. (MIRA 16:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Pentaerythritol)
(Acids, Fatty)
(Polymers)

ANDRIANOV, K.A.; YEMEL'YANOV, V.N.

Reaction of chloroalkanoic acids with pentaerythritol. Zhur. ob. khim. 34 no.11:3817-3818 N '64 (MIRA 18:1)



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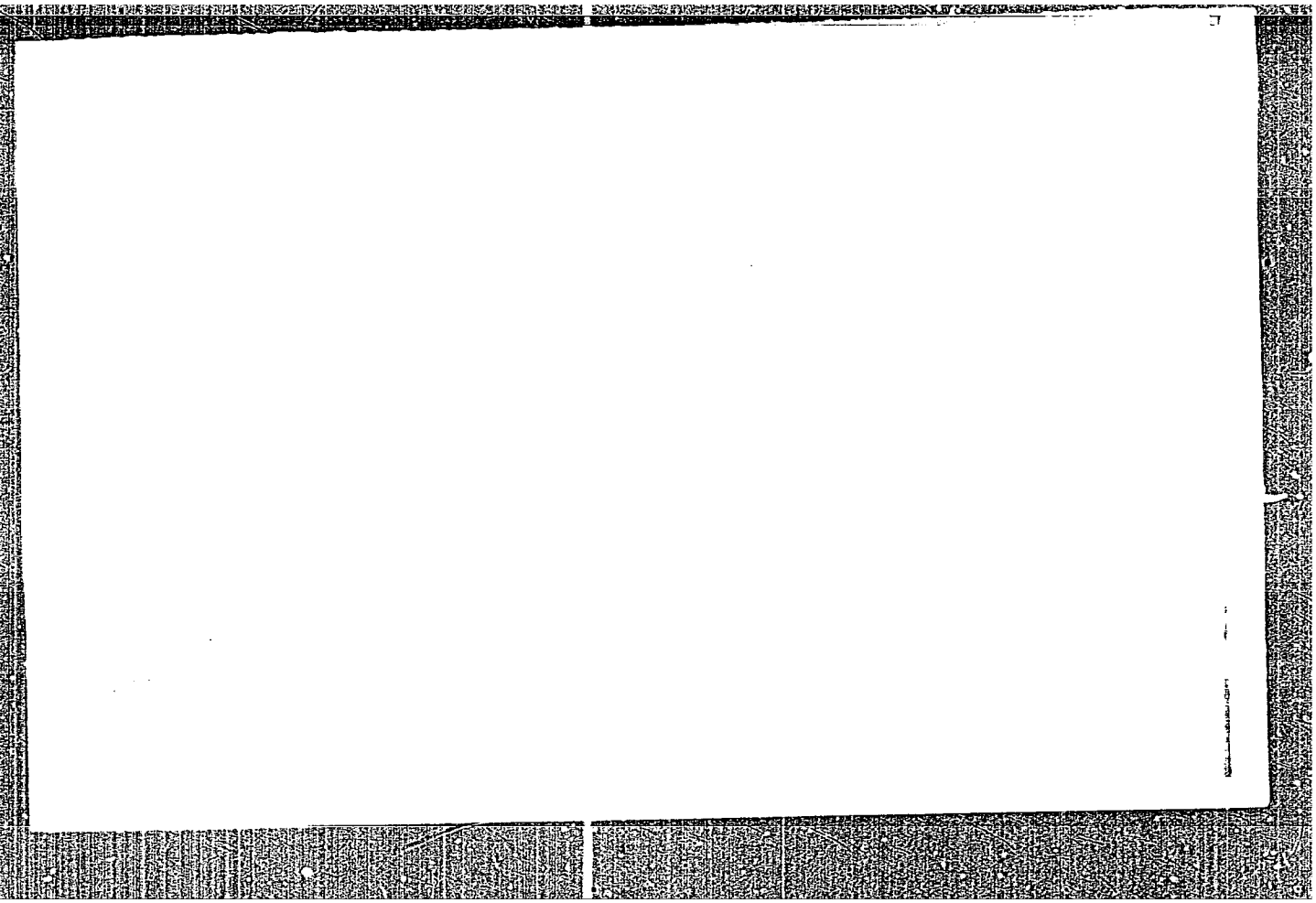

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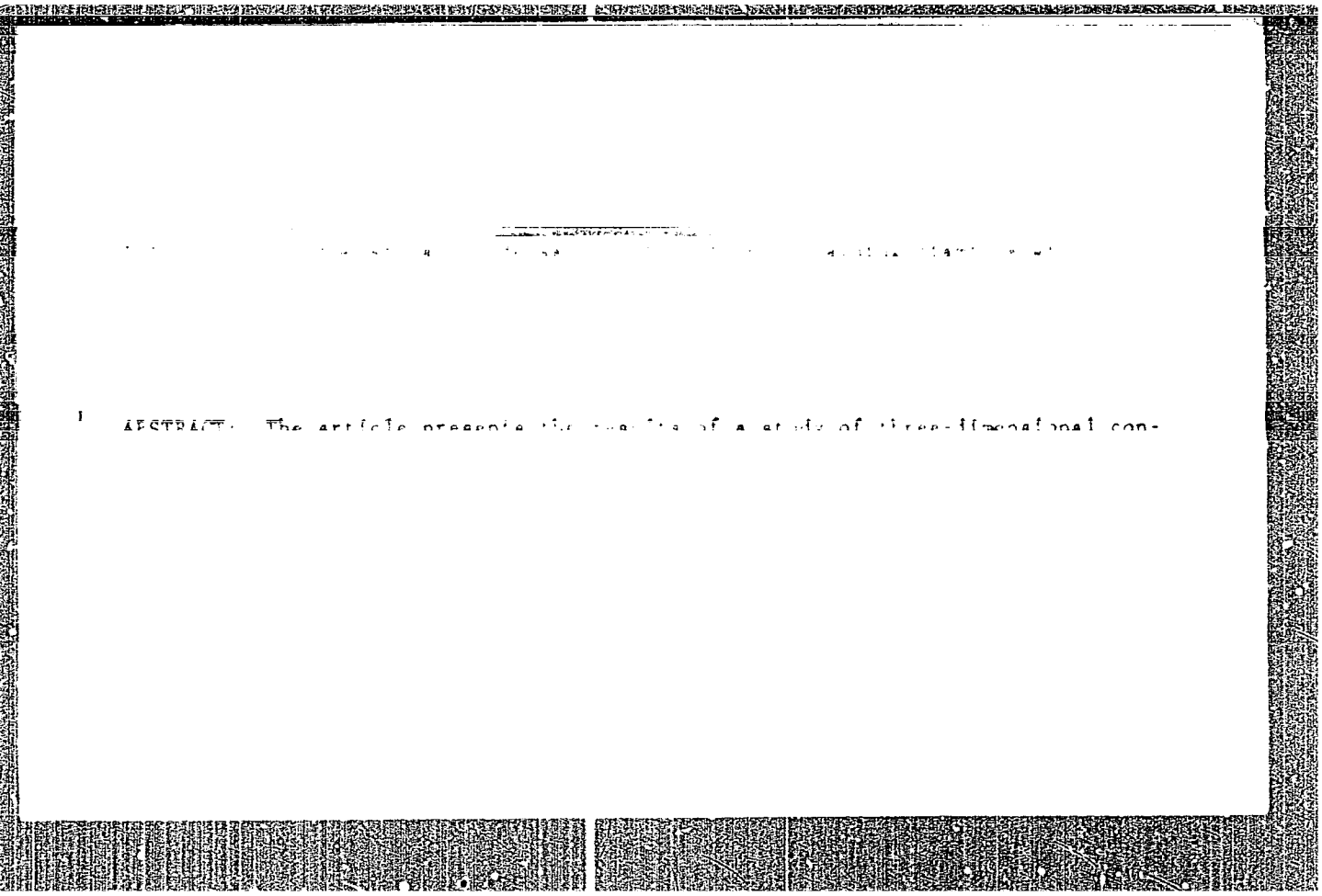

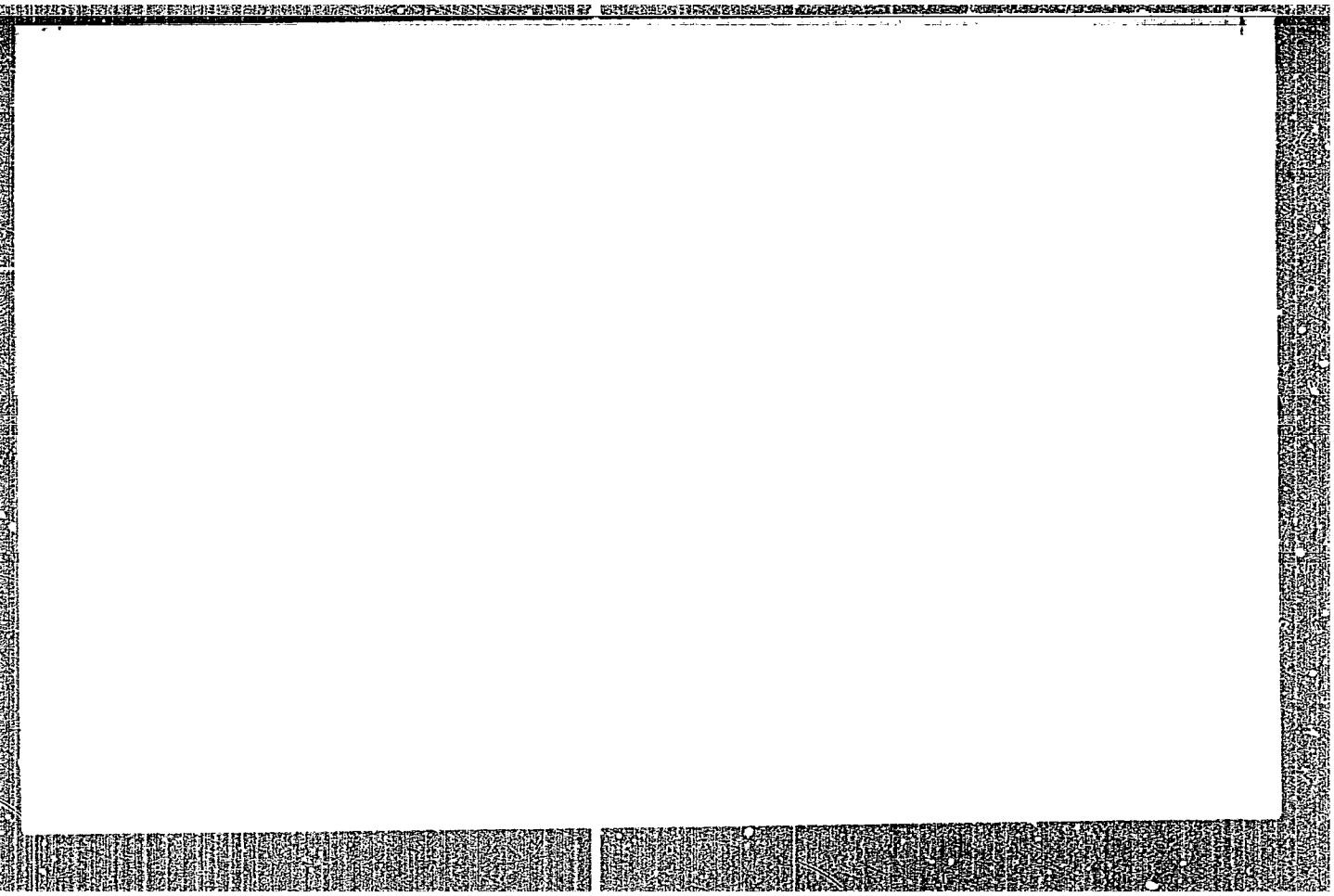

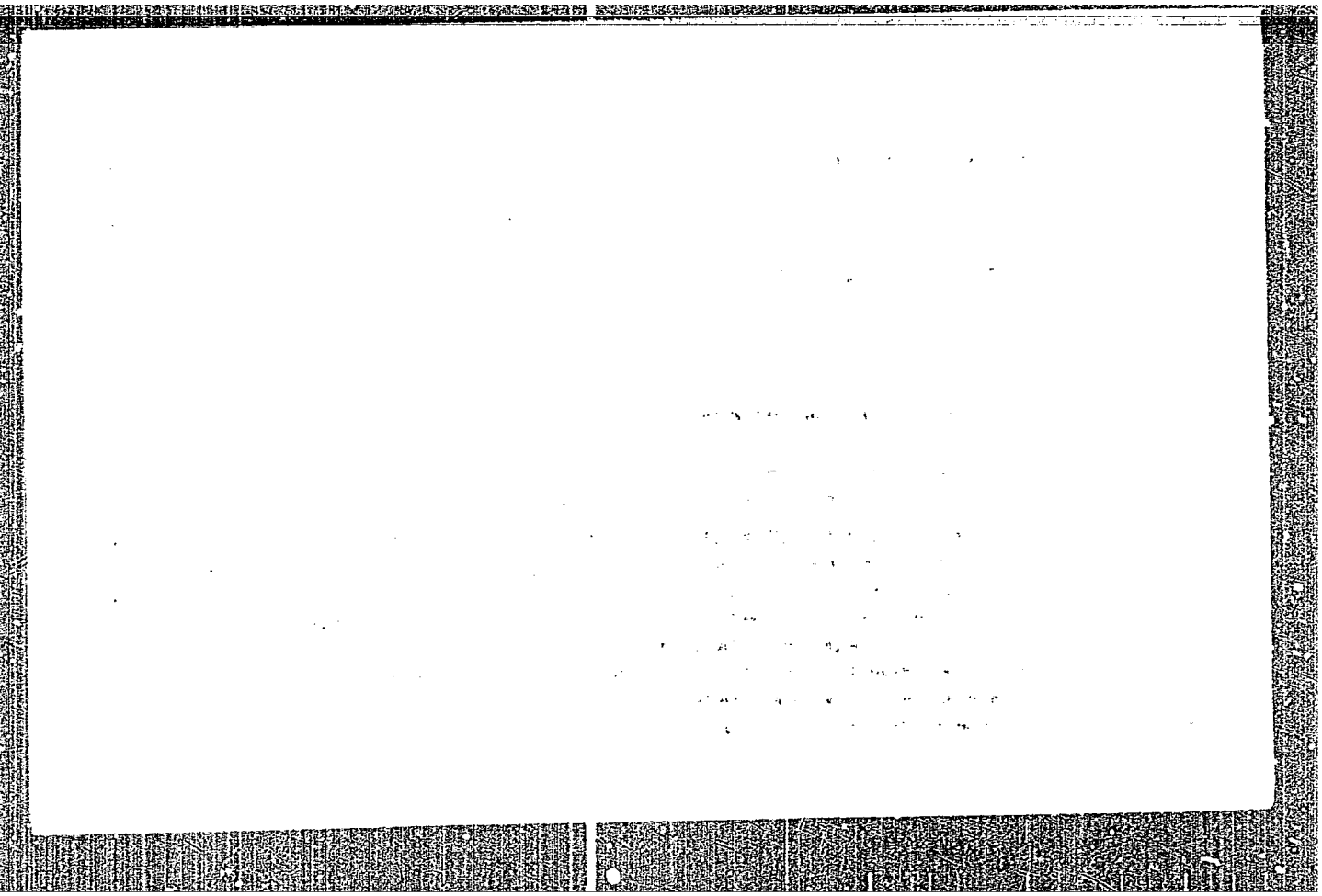

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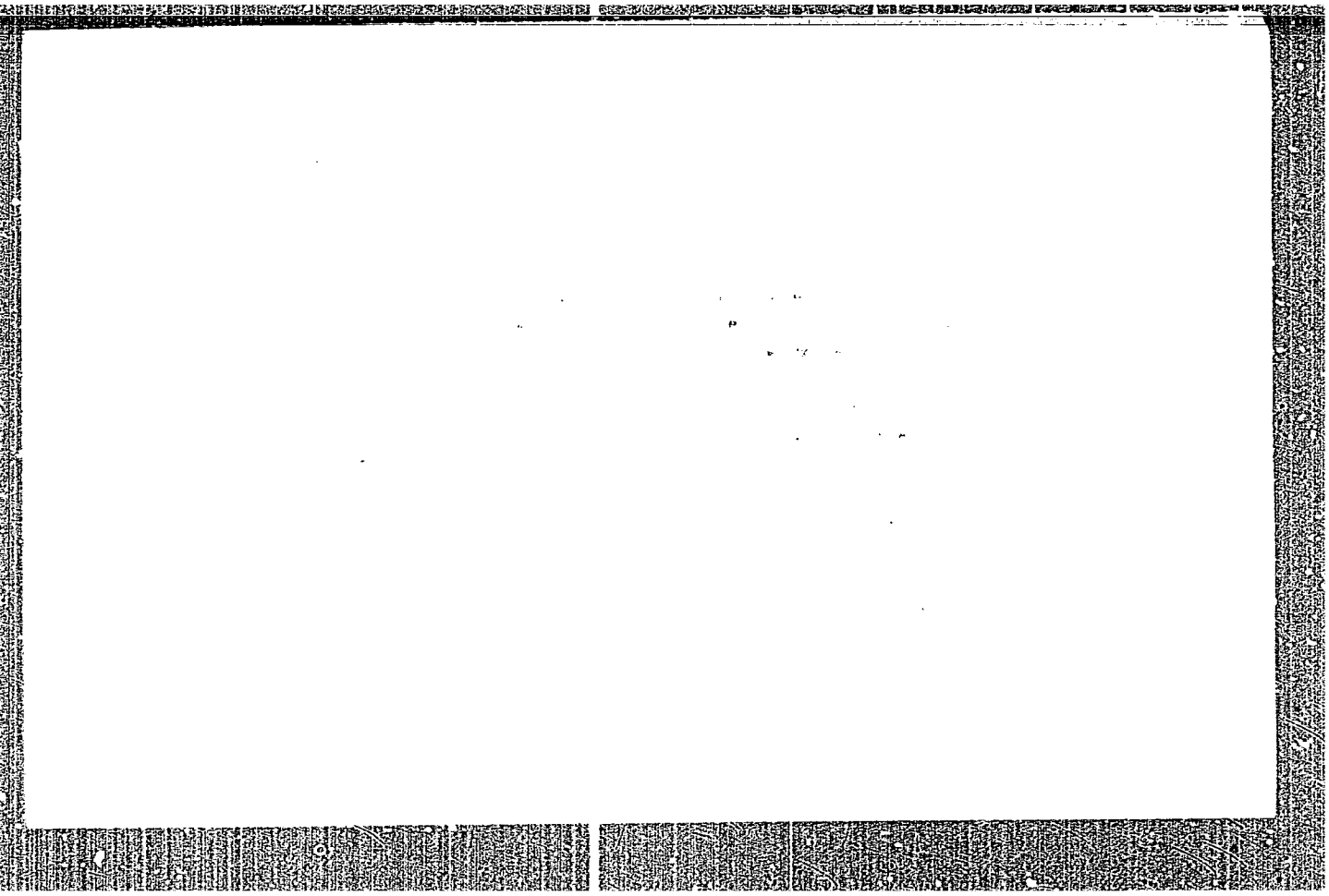

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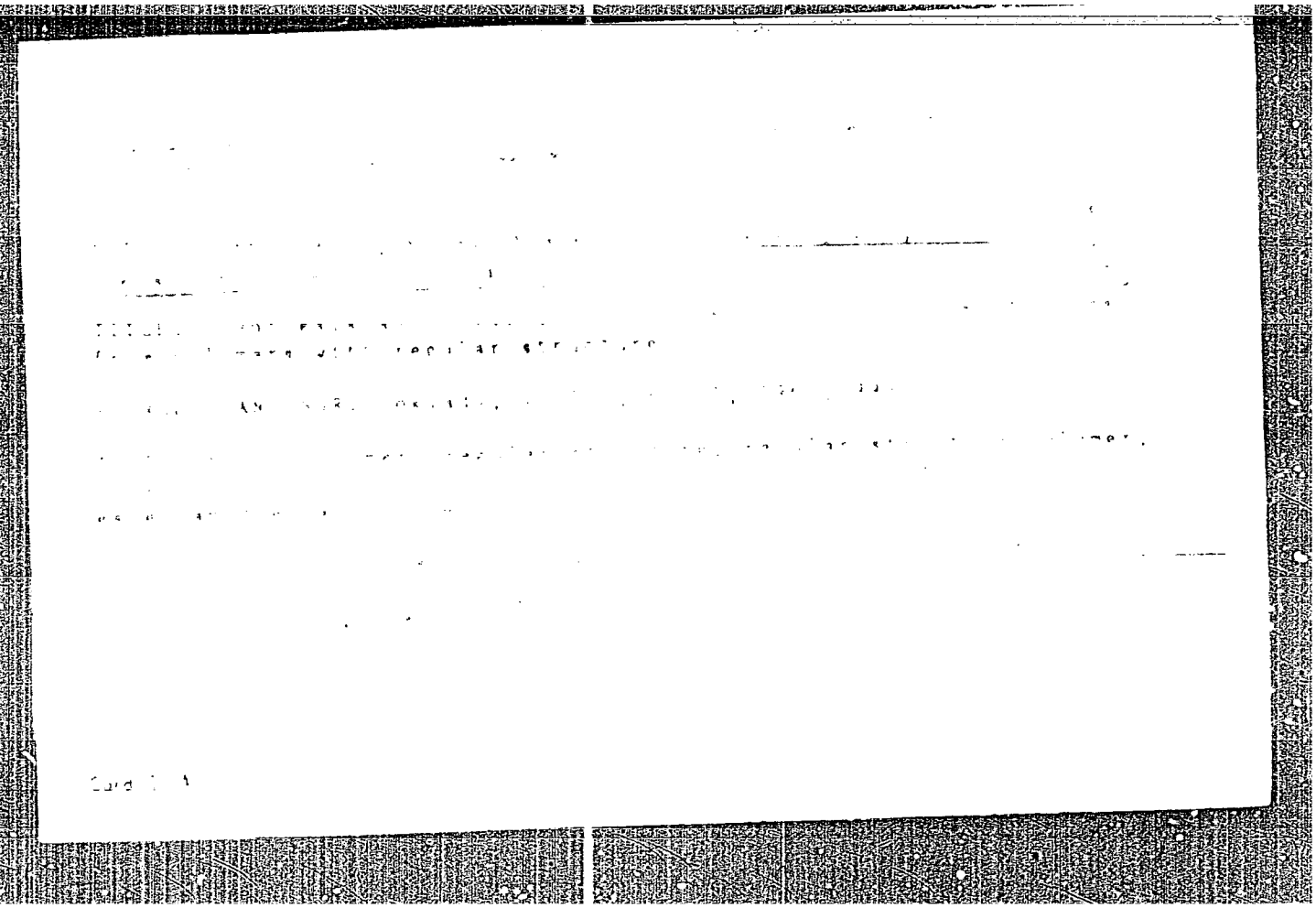

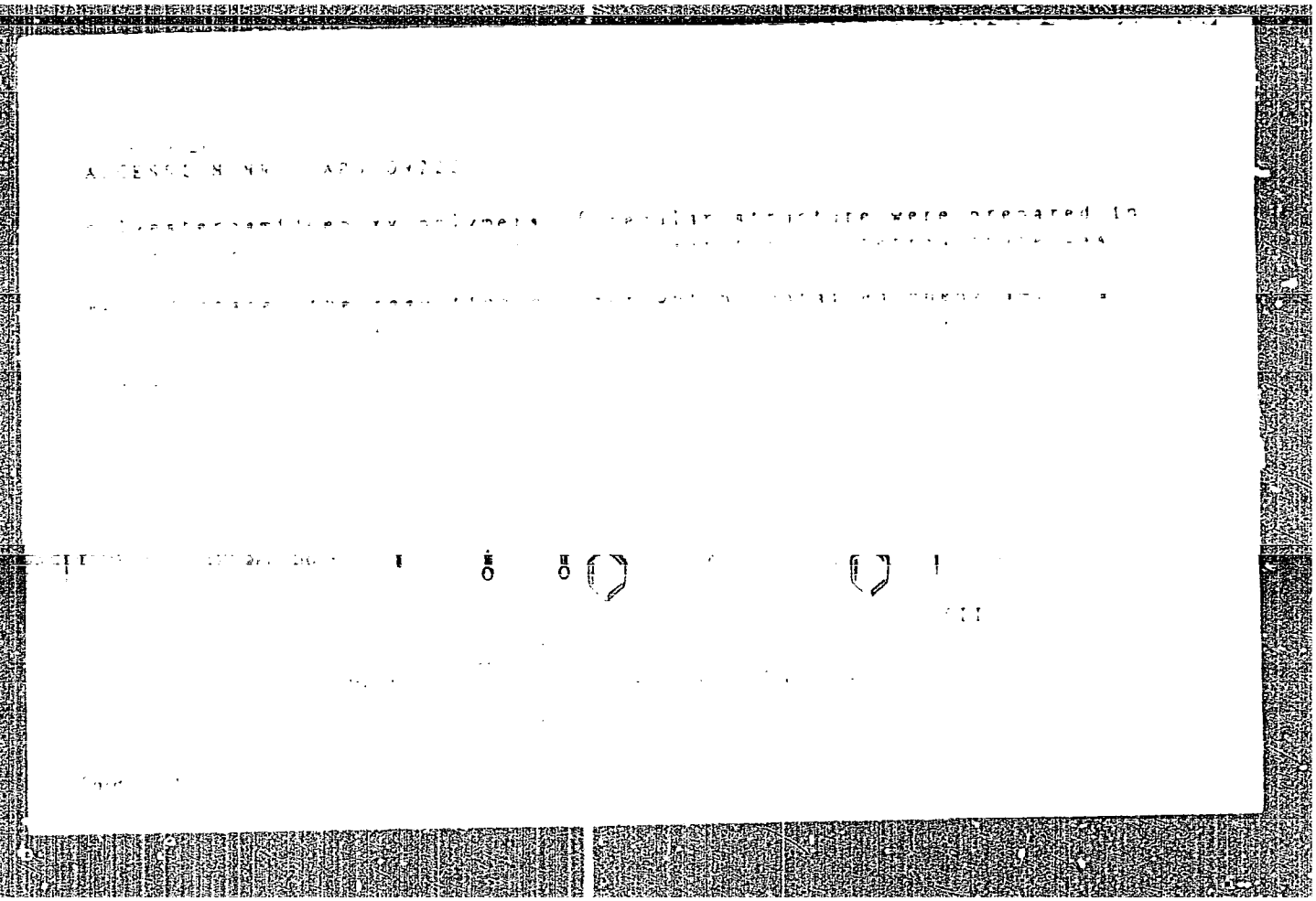

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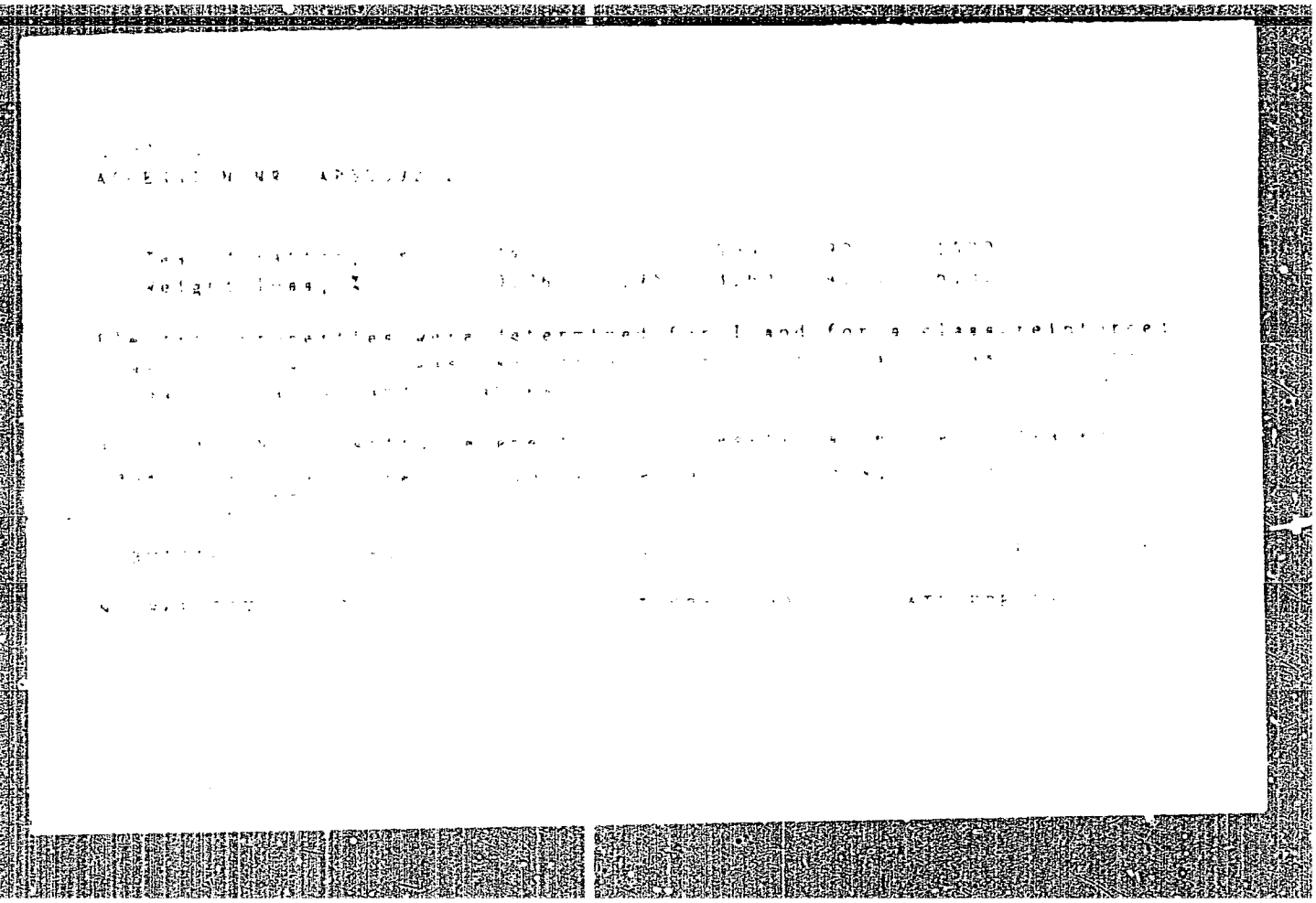

YEMEL'YANOV, V. P. and ZINOCHKIN, A. G.,

"Organizational and Economic Strengthening of Kolkhozes in Sverdlovskaya Oblast' in the Postwar Period (1946-55)," Sotsialisticheskoye stroitel'stvo na Urale; sbornik statey (Socialist Construction in the Ural Industrial Area; Collection of Articles) [Sverdlovsk] Sverdlovskoye knizhnoye izd-vo, 1957. 345 p.

Ed. (front of book): ZUYKOV, V. N., Candidate of Historical Sciences; Ed. (back of book): GETLING, Yu.; Tech. Ed.: PAL'MINA, N.

PURPOSE: THIS collection of articles is intended for the general reader.

COVERAGE: The collection contains reports on the economic growth of the Ural Industrial Area, including the development of farming. Particular attention is given to the role played by this region during the 2nd World War. Relatively little space is devoted to the current Five Year Plan. There are 20 photographs in the text, some of which show industrial objects.

TSIREL'SON, N.B., prof.; BOGOLYUBOVA, G.V., dotsent; LISITSYN, Yu.P., dotsent; RIKARDO, D.I., dotsent; KEROV, M.A.; starshiy prepodavatel'; YEMEL'YANOV, V.P., assistent; ZOLOTINA, V.A. assistent

Methods for improving the transportation and keeping of cattle before slaughtering at meat combines. Zhivotnovodstvo 23 no.6:25-27 Je '61. (MIRA 16:2)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti (for Yemel'yanov, Zolotina).
(Slaughtering and slaughterhouses) (Beef cattle—Transportation)

YEMEL'YANOV, V.P.

Changing the design of mold boxes. Biul. TSNIICHM no.21:51 '57.
(MIRA 11:5)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Molding (Founding))

YEMEL'YANOV, V.P.

YEMEL'YANOV, V.P.

Die stamping of mold bands. Biul. TSNIICHM no.23:39 '57.
(MIRA 11:2)

1.Magnitogorskiy metallurgicheskiy kombinat.
(Sheet-metal work)

YEMEL'YANOV, V.P.

Reconditioning shears blades used in cold cutting. Biul. TSNIICHM no.17:42 (325) '57. (MIRA 11:4)

1.Magnitogorskiy metallurgicheskiy kombinat.
(Shears (Machine tools))

YEMEL'YANOV, V.P.

Machine for electroplating workpieces and, plates. Biul.tekh.-ekon. inform. no.2:16-17 '58. (MIRA 11:4)
(Electroplating)

AUTHOR: Yemel'yanov, V.P. SOV/130-58-9-13/23

TITLE: Changing the Arrangement for Charging Metal into Furnaces (Izmeneniye skhemy posadki metalla v pechi)

PERIODICAL: Metallurg, 1958, Nr 9, p 27 (USSR)

ABSTRACT: Until the adoption of a suggestion made by G.V. Konovalov and N.M. Shemetov plate billets (slabs) used to be loaded on the reheating-furnace hearth (wheeled) in separate piles with metal distance pieces and asbestos between billets (Figure 1a). Now the billets are arranged in a checker pattern with overlaps of 50-80 mm, distance pieces and asbestos being used only for the billets at either end (Figure 1b). The productivity of the furnace has increased 1.5-fold. There is 1 figure.

ASSOCIATION: Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Kombinat)

Card 1/1 1. Furnaces--Performance 2. Metals--Heat treatment 3. Metals--Production

YEMEL'YANOV, V.P.

Water cooler rabbles used for cleaning hearth bottoms. Biul. TSNIICHM no.4:43-44 '58. (MIRA 11:5)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Metallurgical furnaces)

AUTHOR: Yemel'yanov V.P. 130-58-5-9/16

TITLE: Mechanization of the Production of Plates for Magnesite-chromite Roofs (Mekhanizatsiya isgotovleniya plastinok dlya magnezitokhromitovykh svodov)

PERIODICAL: Metallurg, 1958, Nr 5, pp 20 - 24 (USSR).

ABSTRACT: Each open-hearth furnace magnesite-chromite roof requires about 30 000 steel plates 1-2 mm thick and of various sizes to support the bricks. The author outlines the old and largely manual method for producing these plates and goes on to describe a semi-automatic line for this purpose introduced at the Magnitogorsk Metallurgical Combine. This line (Figure 1), which has increased plate-production productivity by a factor of about five, uses coiled strip and has one attendant. It embraces all the operations from strip uncoiling to the packing of the finished plates in boxes and consists of several mechanisms suitably linked. The strip is fed to the working member of the press (Figure 5) by a straightening machine connected to the press (Figure 4) by a system of gears and motivated by the press electric motor. The gearing is such that the strip can move freely into position on the press. The uncoiler (Figure 2) is actuated by the

Card 1/2

Mechanization of the Production of Plates for Magnesite-chromite Roofs

straightening machine and can hold 3-4 coils simultaneously, coil placing and handling being facilitated by several design features. Some straightening is effected by a three-roll device before the strip reaches the straightening machine. A rack mechanism (Figure 3) keeps the straightening machine stationary during the cutting and hole punching. All the press mechanisms work from one motor, including the working member consisting of an assembly of the necessary cutting, bending and punching mechanisms. There are 5 figures.

ASSOCIATION: Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine)

YEMEL'YANOV, V.P.

New design of stands in three-high-type medium-sheet rolling mills.
Biul. TSNIICHM no.5:46 '58. (MIRA 11:5)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Rolling mills)

YEMEL'YANOV, V.P.

Changes in the design of wire reeling gears. Biul. TSNIICHM no.5: 47 '58. (MIRA 11:5)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Wire drawing)

YEMEL'YANOV, V.P.

Improving the design of tuyere stocks. Biul. TSNIICHM no.6:43 '58.
(MIRA 11:5)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Blast furnaces)

YEMEL'YANOV, V.P.

Tongs for removal of molds and extensions. Biul. TSNIICHM no.6:45 '58. (MIRA 11:5)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Metallurgical plants--Equipment and supplies)

YEIMEL'YANOV, V.P.

Spear with scraper for wrecking vertical walls during open hearth furnace repairs. Biul. TSNIICHM no.7:35 '58. (MIRA 11:6)

1.Magnitorgorskiy metallurgicheskiy kombinat.
(Open-hearth furnaces--Maintenance and repair)

YEMEL'YANOV, V.P.

Machines for drawing-off slags from mixers. Biul. TSNIICHM no. 8:38-39 '58. (MIRA 11:7)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Blast furnaces)

YEMEL'YANOV, V.P.

Mechanizing the opening of intermediate-ladle locks. Biul. TSNIICHM no. 8:39 '58. (MIRA 11:7)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Metallurgical plants--Equipment and supplies)

SOV/130-58-10-7/18

AUTHOR: Yemel'yanov, V.P.

TITLE: Mechanisation of Labour-Consuming Processes at the MMK (Mekhanizatsiya trudoyemkikh protsessov na MMK).

PERIODICAL: Metallurg, 1958, Nr.10, pp.19-22 (USSR)

ABSTRACT: The author describes some of the mechanisation which has been adopted in the Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk metallurgical combine) melting shops. One successful device, proposed by I.N. Kutnyy and I.S. Kovalik is a lift assembly (Fig.1) for use in lining ladles. The complete assembly is lowered into the ladle in which the bottom and the first few courses of the wall have been laid (Fig.2). For ladling the large quantities of refractory-mix components a system of bunkers, hoppers, conveyors and cylindrical rotary screens has been provided (Fig.3). The mixing machine is charged via a chute from a system of dispensers (Fig.4). The system is recommended for other works. The slag pots at the combine are given an inner lime wash, the lime required being, until recently, quenched with a heavy expenditure

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of labour. In the lime-preparation section all operations have now been mechanised (Fig.5) in such a way that lime waste is prevented. For breaking down vertical walls and ends of open-hearth furnaces a device proposed by I.S. Ovsyannikov has been adopted and is recommended for other works. This consists (Fig.6) of a special pick and rake which are attached to a charging machine. There are 6 figures.

ASSOCIATION: Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine).

AUTHOR: ~~Yemel'yanov~~, V.P. SOV/130-59-1-5/21

TITLE: Sealing Charging Hoppers (Uplotneniye zasypnykh voronok)

PERIODICAL: Metallurg, 1959, Nr 1, p 10 (USSR)

ABSTRACT: A brief account with a diagram is given of a design of a labyrinth seal for the joint between the bell hopper and the rotating distributor hopper of a blast furnace. The design, proposed by D.S. Gormakov, has been adopted at the Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk metallurgical combine) and has considerably reduced dust.
There is 1 figure

ASSOCIATION: Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk metallurgical combine)

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SOV/130-59-1-12/21

AUTHOR: Yemel'yanov, V.P.

TITLE: Improvement of Annealing Conditions for Thin-Strip Metal in Muffle Furnaces (Uluchsheniye usloviy otzhiga tonkolistovogo metalla v mufel'nykh pecnakh)

PERIODICAL: Metallurg, 1959, Nr 1, p 27 (USSR)

ABSTRACT: Because of the more rapid movement of combustion products along the walls compared to within muffle furnaces, non-uniform heating of packets and coils of thin strip being annealed in the cold-rolling shop at the Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk metallurgical combine) results. The adoption of a proposal by V.N. Tikhonov that the three-end burners be partly closed for the 2-3 hours required to attain the full temperature has accelerated and improved annealing, eliminated welding and led to considerable economies.

ASSOCIATION: Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine)

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YEMEL'YANOV, V.P.

Mechanization of time-consuming processes at the Magnitogorsk Metallurgical Combine. Metallurg 4 no.3:31-32 Mr '59.
(MIRA 12:4)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Magnitogorsk--Rolling mills--Equipment and supplies)

05759

28(5)

AUTHORS: Konovalov, E. Ye., Matyukhin, V. V., Yemel'yanov, V. P., Karabash, A. G. SOV/32-25-10-48/63

TITLE: A Conductometric Signaler for Oxygen in Gases

PERIODICAL: Zavodskaya laboratoriya, 1959, Vol 25, Nr 10, pp 1260-1262 (USSR)

ABSTRACT: A device was constructed (E. Ye. Konovalov, Ye. A. Kochetkova, V. M. Morozov, V. D. Kolesnikov, V. M. Andreyev, A. G. Karabash - Patent No 1113837), which is intended to be used for the continuous control of the oxygen content in noble gases. It makes it possible to determine the moment at which the oxygen absorber becomes saturated and prevents pollution of the system with oxygen-containing gas. The transmitter of the device (Fig 1) is a porcelain tube filled with coppered silica gel. A porcelain rod is introduced into the tube round which a chrome nickel coil with resistivity of 500 Ohm is wound. The tube itself is in a steel casing. The working piece of the transmitter is heated by means of an electric furnace to 300 to 350°. The gas to be controlled flows through the porcelain tube by way of the "coppered" silica gel. If the gas contains oxygen, the latter oxidizes the copper, thus

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increasing the electric resistivity of the transmitter, which is transmitted to a secondary signaling device (Fig 2, Scheme). The latter was worked out by A. F. Popov and contains a polarized relay of the type RP-4 as a regulating element, as well as a corresponding signal lamp, which flashes up as soon as a certain resistance of the transmitter is attained (owing to the increase of the oxygen content in the gas, i.e. the advanced oxidation of the copper on the silica gel). Also a second variety of the signaling device was worked out, in which a burning lamp is extinguished at a certain resistance of the transmitter (i.e. oxygen content in the gas). The device may also be used for investigations for hydrogen in gases, in which case copper oxide is on the silica gel instead of copper, and the electric resistance of the transmitter is reduced by hydrogen. In a similar manner it is possible also to prove the existence of reducing hydrocarbons. There are 3 figures and 1 Soviet reference.

YEMEL'YANOV, V.P.

Mechanization in the Magnitogorsk Metallurgical Plant.
Metallurg 5 no. 12:14 D '60. (MIRA 13:11)
(Magnitogorsk--Metallurgical plants--Equipment and supplies)

S/130/61/000/001/006/006
A006/A001

AUTHOR: Yemel'yanov, V. P.

TITLE: Improved Equipment of Rolling Shops

PERIODICAL: Metallurg, 1961, No. 1, p. 28

TEXT: The author enumerates the following improvements achieved at the rolling shops of the Magnitogorsk Metallurgical Combine: 1. Reduced wall thickness of heating furnaces. The wall thickness was diminished from 803 to 573 mm, as suggested by N. M. Shemetov and V. A. Zakharov. Although the effective volume of the furnaces was thus raised, heat losses increased. To reduce these losses, a 5 mm thick asbestos packing was placed between the brick masonry and the furnace carcass. It appeared that although heat losses had increased to 4.6% against 3.3% the reduced wall thickness entailed savings of refractory and repair materials, greatly compensating the aforementioned deficiency. Due to the introduction of the suggested improvement, savings of 150,000 rubles per year were obtained on four furnaces. 2. Extended service life of electric vacuum furnace spirals. The burning of chrome-nickel heat resistant spirals of the VKP-03 (UKR-03B) type electric vacuum furnaces was caused by short circuiting of the spirals through

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the chamotte, which had lost its dielectric properties due to the unsuccessful connection of the spirals. The difference of adjacent spiral potentials amounted to 380 v. The dielectric properties of the interspiral space were lowered due to evaporation of sodium from the protective coating of muffles, consisting of water glass mixed with 25% Na_2O. To prevent burning of the spirals, S. V. Murinets, G. M. Zhuravel' and V. P. Beshentsev suggested the following measures: a) maintenance of the clean interspiral space; b) alteration of the connection system of the spirals so that adjacent spirals be uni-potential in spots of the least dielectric strength; c) eliminating water glass from muffle coating. The measures suggested made it possible to eliminate burning of the spirals and almost doubled their service life. 3. Increasing the efficiency of heating furnaces. The top sections of furnaces for heating of slabs were equipped with six sprayers operating on mazut with a consumption of 240 kg/hr each. The sprayers were frequently obstructed, thus reducing the furnace efficiency and requiring repeated cleaning. I. S. Suslov suggested the use of two sprayers instead of six, consuming 500 kg/hr of mazut each. The larger size of the sprayers prevents obstruction and assures a normal heating of the metal. Moreover, the new sprayers produce an atomized flame instead of an elongated one, thus raising the durability of the vertical furnace walls. The suggested improvement reduced fuel consumption and

Improved Equipment of Rolling Shops

S/130/61/000/001/006/006
A006/A001

raised the efficiency of the furnace. Savings amounted to 100,000 rubles per year.

ASSOCIATION: Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine)

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YEMEL'YANOV, V.P.

Bristle brush roll for the cleaning of sheets. Metallurg 6 no.2: 27 F '61. (MIRA 14:1)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Metal cleaning)

YEMEL'YANOV, V.P.

In the blast furnace plant of the Magnitogorsk Metallurgical Combine. Metallurg 6 no.4:8-10 Ap '61. (MIRA 14:3)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Magnitogorsk--Blast furnaces--Equipment and supplies)

YEMEL'YANOV, V.P.

Improving the combustion data of open-hearth furnaces. Metallurg 6 no.5:19 My '61. (MIRA 14:5)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Open-hearth furnaces—Combustion)

YEMEL'YANOV, V.P.

Manhole for access to the baffle plate on air ducts. Metallurg 6 no.5:22 My '61. (MIRA 14:5)

1. Magnitogorskiy metallurgicheskiy zavod.
(Open-hearth furnaces—Design and construction)

YEMEL'YANOV, V.P.

Increasing the service life of crane rails. Metallurg 6 no.5:22 My '61. (MIRA 14:5)

1. Magnitogorskiy metallurgicheskiy zavod.
(Open-hearth furnaces—Equipment and supplies)

YEMEL'YANOV, V.P.

Improving the durability of intermediate ladle linings. Metallurg 6 no.5:22 My '61. (MIRA 14:5)

1. Magnitogorskiy metallurgicheskiy zavod.
(Open-hearth furnaces—Equipment and supplies)
(Refractory materials)

YEMEL'YANOV, V.P.

Changing the design of molds for sampling. Metallurg 6 no.5:22 My '61. (MIRA 14:5)

1. Magnitogorskiy metallugicheskiy zavod.
(Smelting furnaces—Equipment and supplies)

S/130/61/000/008/005/005
A006/A101

AUTHOR: Yemel'yanov, V. P.

TITLE: Changes in the cooling conditions of rolls

PERIODICAL: Metallurg, no. 8, 1961, 27

TEXT: Unsatisfactory cooling of working rolls of continuous billet mills at the Magnitogorsk Metallurgical Combine caused frequent breakdowns. The rolls were cooled only from the front side of the stand. V. F. Kudimov and V. I. Oglushevich suggested to intensify cooling of the bottom roll by supplying the water from the rear, and of the middle roll by supplying the water over its whole semi-circumference. For this purpose an additional row of racks ("reks") was mounted. As a result roll consumption was considerably reduced. Breakdowns decreased by a factor of 6, yielding 15,000 rubles of yearly savings.

ASSOCIATION: Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine)

Card 1/1

GORODETSKIY, L.N.; CHIGIRINSKIY, V.M.; NAFTULOVICH, S.M.; DANCHENKO, N.F.; YEMEL'YANOV, V.P.; BARBASHIN, B.M.

In rolling mills all over the country. Metallurg 6 no.8:25-28 Ag '61. (MIRA 14:8)

1. Rel'sobalochnyy tsekh zavoda im. Petrovskogo (for Gorodetskiy, Chigirinskiy). 2. TSentral'naya zavodskaya laboratoriya zavoda im. Petrovskogo (for Naftulovich, Danchenko). 3. Magnitogorskiy metallurgicheskiy kombinat (for Yemel'yanov). 4. Starshiy master blyuminga zavoda im. Voroshilova (for Barbashin).
(Rolling mills)

YEMEL'YANOV, V.P.

Device for pushing out slabs from heating furnaces.
Metallurg 6 no.12:34 D '61. (MIRA 14:11)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Furnaces, Heating)

YEMEL'YANOV, V.P.

Stationary arrangement for the blowing of blast furnace coolers with compressed air. Metallurg 7 no.10:27 O '62. (MIRA 15:9)
(Blast furnaces—Maintenance and repair)

YEMEL'YANOV, V.P.

Vinyl plastic lining of pipelines. Metallurg 8 no.2:34 F '63.
(MIRA 16:2)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Pipe, Steel)
(Plastics)

BARANOV, Yu.I.; KOSTOUSOV, N.L.; MINYAYEV, V.A.; YEMEL'YANOV, V.P.

In rolling mills across the land. Metallurg 8 no.3:32-34 Mr.'63. (MIRA 16:3)

1. Severskiy metallurgicheskiy zavod (for Baranov, Kostousov, Minyayev). 2. Magnitogorskiy metallurgicheskiy kombinat (for Yemel'yanov).

(Rolling mills—Equipment and supplies)

YEMEL'YANOV, V.P.

Convex, back-up rolls for straightening machines. Metallurg 8 no.8:31 Ag '63. (MIRA 16:10)

1. Magnitogorskiy metallurgicheskiy kombinat.

KONOVALOV, E.Ye.; PEYZULAYEV, Sh.I.; YEMEL'YANOV, V.P.

Use of zone melting for concentrating silver and copper impurities in the spectrographic analysis of pure lead. Zhur. anal.khim. 18 no.12:1500-1501 D '63. (MIRA 17:4)

YEMEL'YANOV, V.P.

Redesigning the regenerator roof brickwork of a heating furnace. Metallurg. 9 no.10:33 O '64 (MIRA 18:1)

1. Magnitogorskiy metallurgicheskiy kombinat.

YEMEL'YANOV, V.P.

Redesigning the walls between the holes of blooming mill soaking pits. Metallurg 9 no.11:28-29 N '64. (MIRA 18:2)

1. Magnitogorskiy metallurgicheskiy kombinat.

YEMEL'YANOV, V.P.

Major repair of stacks. Metallurg 9 no.12:26 D '64. (MIRA 18:2)

1. Magnitogorskiy metallurgicheskiy kombinat.

YEMEL'YANOV, V.P.; SKROBOV, V.; KONDYBKO, P.; ILYUKOVICH, B.M.; MERKUR'YEV, S.Ye.; SARAPULOV, Yu.V.

In the country's rolling mills. Metallurg 9 no.12:34-35 D '64. (MIRA 18:2)

1. Magnitogorskiy metallurgicheskiy kombinat (for Yemel'yanov). 2. Zavod "Krasnaya Etna" (for Skrobov, Kondybko). 3. Chusovskoy metallurgicheskiy zavod (for Ilyukovich, Merkur'yev). 4. Cherepovetskiy metallurgicheskiy zavod (for Sarapulov).

YEMEL'YANOV, V.P.

Improving the quality of slab surfaces during rolling. Metallurg 10 no.8:32 Ag '64. (MIRA 17:11)

1. Magnitogorskiy metallurgicheskiy kombinat.

YEMIL'YANOV, V.P.

Lengthening the life of fire port brickwork. Metallurg 10 no.3:31 Mr '65. (MIRA 18:5)

1. Magnitogorskiy metallurgicheskiy kombinat.

YEMEL'YANOV, V.P.

In the country rolling departments. Metallurg 10 no.1: 32-33 Ja '65. (MIRA 18:4)

1. Magnitogorskiy metallurgicheskiy kombinat.

YEMEL'YANOV, V.P.; ILYUKOVICH, B.M.; MERKUR'YEV, S.Ye.; FOMENKO, G.G.

In the rolling mills of the land. Metallurg 10 no.12:38 D '65.
(MIRA 18:12)

1. Chusovskiy metallurgicheskiy zavod (for Ilyukovich, Merkur'yev).

ACC NR: AR6028422 SOURCE CODE: UR/0196/66/000/005/I034/I034

AUTHOR: Bamdas, A. M.; Shapiro, S. V.; Yemel'yanov, V. P.; Yevstigneyeva, T. A.; Blinov, I. V.; Davydova, L. N.; Zakharov, N. V.; Makhin, Yu. I.; Roginskaya, L. E.; Frolov, V. T.

TITLE: Development work on static frequency changers in the Gor'kiy Polytechnic Institue im. A. A. Zhdanov

SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 5I205

REF SOURCE: Sb. Vses. nauchno-tekhn. konferentsiya po primeneniyu vysokoskorostn. mashin s elektroprivodom povyshen. chastoty toka v nar. kh-ve. Ordzhonikidze, 1945, 47-51

TOPIC TAGS: frequency changer, frequency converter, frequency conversion

ABSTRACT: The Laboratory has developed static ferromagnetic quadruplers, octuplers, and nonuplers with self-magnetization by flux intermediate harmonics, with single- and 3-phase output; also, a 1.5-ratio frequency changer has been developed. Their principal characteristics, power and weight data are reported. Specifically, the weight of active material varies from 36 to 29 kg/kva for capacities 1--6 kva; efficiency, 70--80%. With an input voltage variation of 90-110%, the quadrupler voltage varies only by ± 5--8%. The output voltage of a negative-feedback-type octupler varies only by ± 2% with a load current varying from zero to 130% its

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ACC NR: AR6028422

nominal value. The octupler output voltage can be regulated within ± 15% by controlling its magnetization current. The efficiency of the 1.5-ratio frequency changer is 60--70%. It is capable of stable operation despite input voltage and load variations within ± 50% of their nominal values. Four figures. Bibliography of 4 titles. S. Shapiro [Translation of abstract]

SUB CODE: 09

Card 2/2

ACC NR: AR6020929 SOURCE CODE: UR/0196/66/000/002/I036/I036

AUTHOR: Bamdas, A. M.; Shapiro, S. V.; Blinov, I. V.; Yemol'yanov, V. P.; Zakharov, N.V. Makhin, Yu. I.; Roginskaya, L. E.

TITLE: Single-stage static ferromagnetic frequency multipliers with ratios 8 and 9

SOURCE: Ref. zh. Elektrotekhn i energ, Abs. 2I205

REF SOURCE: Tr. Gor'kovsk. politekh. in-ta, v. 20, no. 6, 1965, 5-11

TOPIC TAGS: frequency multiplication, frequency octupler, ferromagnetic material

ABSTRACT: Two single-stage static ferromagnetic frequency multipliers with a magnetic bias produced by intermediate-frequency currents are described. The frequency octupler has 8 saturated cores. Its primary windings supplied by a 3-phase system are connected in a zigzag circuit in such a way that the core fluxes form a symmetrical 8-phase system. In addition, the octupler has secondary (output) windings, and also magnetization and self-magnetization windings fed at frequencies 2 and 4 times the supply frequency. The latter windings are connected to capacitors. The 9-ratio multiplier has 9 cores. In addition to the primary, secondary, and self-magnetization windings, this multiplier has a self-magnetization winding operating at a triple-supply frequency. Characteristics of experimental models of 2-kva and 900-va multipliers, respectively, are presented. The 2-kva octupler has an efficiency of 65%, weight, 80 kg; the 9-ratio multiplier, 70%, 40 kg. Both have a near-sinusoid output voltage wave; they have a fairly hard external characteristic: the no-load to full-load voltage regulation is 20%. Engineering design methods are given. Six figures. Bib. of 9 titles. S.Shapiro

Card 1/1 SUB CODE: 09 UDC:621.314.263.001.24

YERSHOV, B.A., inzh.; YEMEL'YANOV, V.S., inzh.

Determining the speed of a pneumatic-post carrier at track turns. Izv.vys.ucheb.zav.; mashinostr. no.7:137-140 '63. (MIRA 16:11)

1. Kuybyshevskiy industrial'nyy institut.

YEMEL'YANOV, V.S.

Raising work effectiveness of hammer crushers. Gor.zhur. no.2:54-55 F'55. (MLRA 8:7)
(Crushing machinery)

YEMEL'YANOV, V.S.

Industrial experience in increasing the efficiency of a hammer crusher. Ger.zhur. no.12:59 D '55. (MLRA 9:4)
(Crushing machinery)

YEMEL'YANOV, V. S.
Min Higher Education USSR. Sverdlovsk Mining Inst imeni V. V. Vakhrushev.

YEMEL'YANOV, V. S. - "Theoretical and experimental investigations of the operation of hammer crushers with hammers balanced for shock." Min Higher Education USSR. Sverdlovsk Mining Inst imeni V. V. Vakhrushev. Sverdlovsk, 1956.
(Dissertation for the Degree of Candidate in Technical Sciences.)

SO: Knizhnaya Letopis', No. 13, 1956.

YEMEL'YANOV, V.S., inzhener.

Improving the design of currently used hammer mills. Strel.i der. mashinostr. no.7:13-15 Jl '56. (MLRA 9:10)
(Milling machinery)