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KIRICHENKO, N.

Regional differences in the consumption of the U.S.S.R. population. Biul.nauch. inform.:trud i zar plata 4 no.4:39-45 '61. (MIRA 14:6)

(Consumption (Economics))

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KIRICHENKO, N.

Growth of private income and changes in the structure of the turnover of merchandise. Sov. torg. 34 no.4:9-13 Ap '61. (MIRA 14:4)

(Marketing research)

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PROCESSES AND PROPERTIES INDEX

S

CHOICE OF A RATIONAL TYPE OF TUYERE FOR BLAST-FURNACES. K. D. Kirichenko. (Metallurg, 1933, No. 6, pp. 76-89). (In Russian).
The author first considers the possibility of increasing the output of present-day blast-furnaces, and in this connection reviews some of the previous work on the size and characteristics of the combustion zone in blast-furnaces. The author, in considering the functioning of modern types of tuyeres, points out the desirability of linking the combustion zones in front of the individual tuyeres so as to form a continuous ring-shaped combustion zone. This leads the author to the conclusion that even the best tuyere (the Venturi type) has a number of disadvantages. He suggests a new type of diffuser-section tuyere, in which spreading of the combustion zone sideways is achieved by the provision of an elliptical nozzle, the latter being obtained by cutting off the end of the tuyere at an angle of 20-25° to the axis of the tuyere.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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CA

9

Testing of condensers of cast iron. N. Kirichenko. *J. Chem. Ind.* 18 (U. S. S. R.) No. 6, 32(1941). *Chem. Zentr.* 1943, I, 324. Condensers of cast Fe for *nitric* and *sulfuric acids* are advantageous both from the standpoint of heat transfer and also because of their life, which is at least 3 yrs. H. Stoertz

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N. D.

130-7-4/24

AUTHOR: Kirichenko, N.D.

TITLE: Choice of Checkers for the Intensive Heating of Cowper stoves. (Vybor nasadki dlya forsirovannogo nagreva vozdukhonagrevateley)

PERIODICAL: Metallurg, 1957, Nr 7, pp.7 - 10 (USSR)

ABSTRACT: In this article comparative calculations for various checker arrangements for blast-furnace Cowper stoves are made. The basic requirement assumed is the production of blast at 1000 C for a 1033 m^3 standard furnace. Three variants are considered: simple single-layer arrangement of 170 x 150 x 50 mm brick with a 60 x 60 mm cell; the same construction but of 130 x 150 x 40 mm brick with 45 x 45 mm cells and 40 mm wall thicknesses; a two-layer arrangement, the upper having 110 x 110 mm cells and 60 mm thick walls, made of 280 x 150 x 60 mm brick, and the lower with 130 x 45 mm cells, 40 mm thick walls made of 300 x 150 x 40 and 130 x 150 x 40 mm bricks. The second variant is seen to be the most satisfactory, with a heating surface of 24.9 m^2 per m^3 of checker volume. The calculations also indicate that the total heating surface for the 1033 m^3 furnace (143 000 n m^3

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130-7-4/24

Choice of Checkers for the Intensive Heating of Cowper Stoves.

per hour blast volume) can be reduced to 19 300 m^2. For the intensive stove operating conditions considered gas with a calorific value of 950 kcal/m^3 would have to be burnt at 35 850 n m^3/hour and better refractories would be needed. Some general features of the variants are briefly discussed and the adoption in the USSR of improved checker arrangements with shaped bricks and horizontal channels is urged. There are 2 figures and 3 tables.

ASSOCIATION: Gipromez.

AVAILABLE: Library of Congress.

Card 2/2

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KIRICHENKO, N., insh.

Competitions for increasing the output of blast furnaces.
NTO no.3:26-27 Mr '59. (MIRA 12:6)
(Blast furnaces)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

SOV/133-59-4-3/32

AUTHORS: Kirichenko, N.D., and Kochinev, Ye.V.

TITLE: High Temperature Blast Heating Stoves for Blast Furnaces (Vysokotemperaturnyye vozdukhonagrevateli domennykh pechey)

PERIODICAL: Stal', 1959, Nr 4, pp 298-304 (USSR)

ABSTRACT: In 1957, the Central Governing Body of the Scientific Technical Society of the Iron and Steel Industry (NTO ChM) announced a competition for the design of high temperature heating stoves and air conduits for blast furnaces with a working volume of 1300 to 1500 m^3, capable of preheating blast to 1100 to 1200°C. From the designs presented the jury selected 4 solutions which are described in the paper. (A) Proposed by N.K.Leonidov (Central Gipromez). In order to obtain higher temperatures the use of blast furnace gas enriched with coke oven gas or the use of preheated blast furnace gas and air or air alone is suggested. Two alternative designs of the heating stove are proposed: 1) combustion of gas in the under-dome space and 2) combustion of gas in the combustion chamber and

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in the under-dome space. The stove is not lined with refractory bricks - the space between the checkers and the casing is filled with either cut insulating brick or stamped insulating mass. The dome is supported directly by peripheral checkers (fig 1). Recuperators for preheating air and/or blast furnace gas made from carbon steel are placed in the bottom part of the waste gas chimney (fig 2). Hot blast valve is cooled by evaporation.

(B) Proposed by N.D.Kirichenko (Central Gipromez) Heating by a cold mixture of blast furnace and coke oven gas. The typical design is retained only with changes in some details such as: refractory lining; checkers; gas and air conduits and equipment (valves and cold and hot blast mixer). The design data are given in table 1 and 3. Three alternative types of checker work proposed by the author are given in table 2, the design of the stove is shown in Fig 4 and the distribution of equipment in figure 3.

(C) Proposed by Ye.A.Nitskevich and V.K.Zaytsev (TsNIIChM) Heating of blast to 1100°C is proposed in two alternative

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SOV/133-59-4-3/32

High Temperature Blast Heating Stoves for Blast Furnaces

ways: 1) single stage heating of blast; blast furnace gas and air are preheated to 400°C. To intensify heat exchange by a factor of 2.5 to 3.0 the velocity of the combustion products in checkers is increased to 3m/sec and of blast to 9m/sec, the temperature of waste gas at the outlet from checkers is increased to 520°C. The heat of waste gas is used for preheating air and blast furnace gas in recuperators. The design of the stove remains unchanged except for a considerable decrease in dimensions. 2) Two stage heating of blast. The blast is preheated first in a recuperator and then in a regenerator. In the first stage the blast is preheated to 400°C so that the recuperator can be made from ordinary carbon steel. Heating to 1100°C is done in a stove of the usual design with the burner placed in the dome (Fig 5). For heating blast for one blast furnace three regenerators and two recuperators (one in reserve) are used and common gas and air preheaters. In view of the high temperature of the waste gas the checker support is made from heat resistant cast iron.

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SOV/133-59-4-3/32

High Temperature Blast Heating Stoves for Blast Furnaces

Hollow supports are cooled by blown air which after such preheating is used for the combustion of gas. To improve heat exchange the waste gas is passed through a recuperator with a velocity of 20m/sec and the heated air at 50m/sec.

(D) Proposed by a group of authors under the direction of V.D.Pashkov (Central Gipromez).

In the scheme figure 6, all the processes of compression and heating of the blast are united in one plant, enabling the production of all the mechanical energy required for the compression of air on the basis of heat requirements. The plant is situated on the blast furnace site to avoid transportation of air. Atmospheric air after passing the cooling plant (Fig 6) is cooled to + 1°C and passed into the first compression stage of the main compressor where it is compressed to 4.5 atm abs. After an intermediate cooling to + 25°C air is passed into the second stage of the compressor and compressed to 15 atm abs. The compressed air is passed into a preheater and heated by the waste gas from high temperature blast heating stoves, supplemented by

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SOV/133-59-4-3/32

High Temperature Blast Heating Stoves for Blast Furnaces

combustion of a solid fuel (burned in a combustion chamber for powdered fuel) where it is preheated to 750°C. Then it is passed to an air turbine where it is expanded, passing its potential energy to the compressor. Then the blast at a temperature of 518°C and 4.5 atm abs is passed to the hot blast stove where it is heated to 1300°C and passed to the blast furnace. The top gas leaves the furnace at a pressure of 2.8 atm abs and passes through the gas cleaning plant where it is cooled to 30°C. A part of the blast furnace gas used for heating stoves is passed to a preheater which is also heated by the waste gas supplemented by a powdered solid fuel. The blast furnace gas preheated to 600°C is passed into the gas turbine where it transfers its potential energy to the compressor and with a temperature of 454°C is then used for firing blast stoves. The air used for the combustion is also preheated to a temperature of 60°C in a heat exchanger. For starting the installation an electric motor is used which also serves as a generator

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SOV/133-59-4-3/32

High Temperature Blast Heating Stoves for Blast Furnaces

when the normal operating conditions of the plant are established. There are 6 figures and 3 tables.

ASSOCIATION: Tsentral'nyy Gipromez (Central Gipromez); TsNIIChM

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.D.

Charging arrangement on a 1719 m^3 blast furnace. Metallurg 7 no.7:14-16 Jl '62. (MIRA 15:7)

1. Gosudarstvennyy soyuznyy institut po proyektirovaniyu metallurgicheskikh zavodov.
(Blast furnaces—Design and construction)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

LEONIDOV, N.K.; KIRICHENKO, N.D.

Construction and durability of a blast-furnace hearth and well.
Metallurg 9 no.12:13-15 D '64. (MIRA 18:2)

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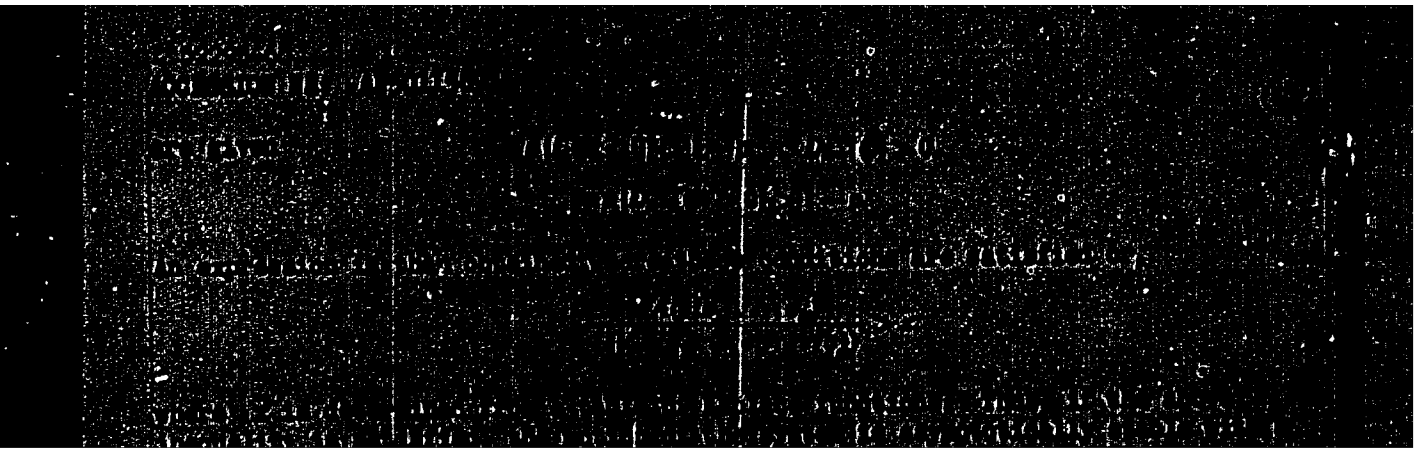

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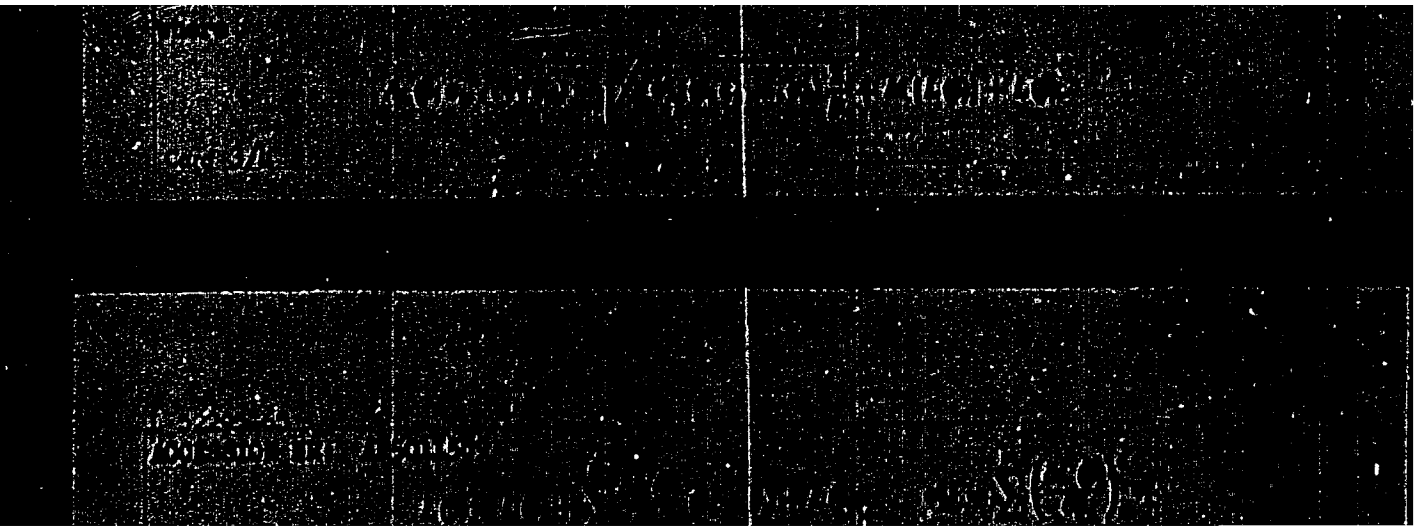

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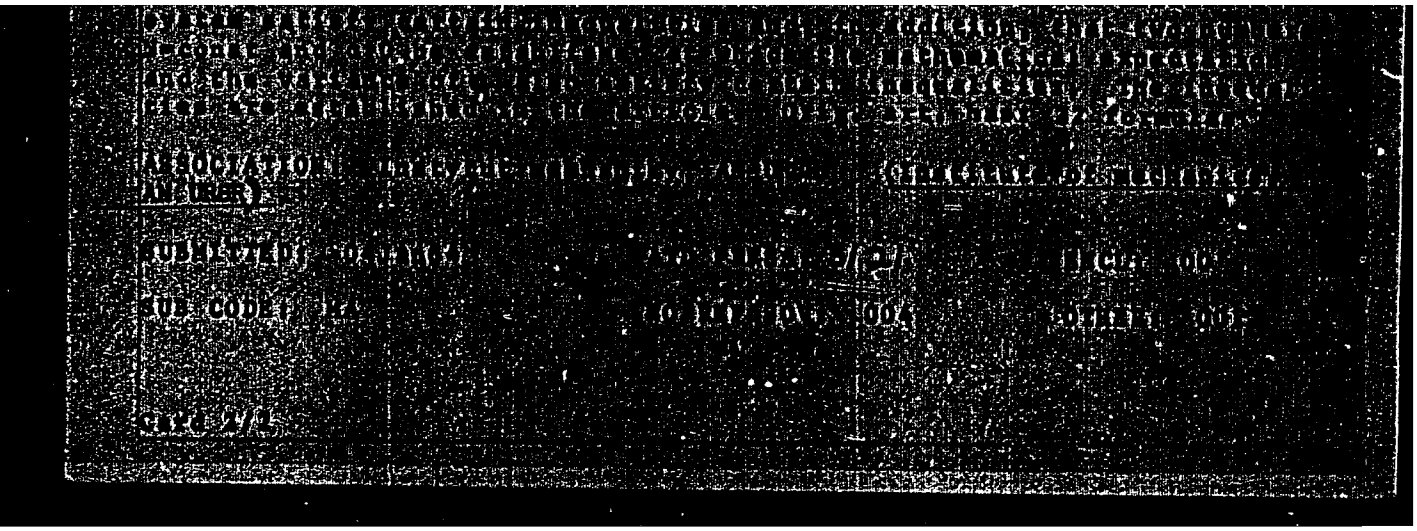

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KIRICHENKO, N.G.

15(2) PHASE I BOOK EXPLOITATION SOV/1940

Ovcharenko, Fedor Danilovich, Nikolay Grigor'yevich Kirichenko, Daniil Naumovich Kovalenko, ~~and Aleksey Ignat'yevich Rastrenenko~~

Ukrainskiye bentonity; geologiya, mineralogiya, fiziko-khimiya i primeneniye v narodnom khozyaystve (Ukrainian Bentonites; Geology, Mineralogy, Physical Chemistry, and Industrial Applications) Kiev, Izd-vo AN Ukrainskoy SSR, 1958. 98 p. 3,000 copies printed. Errata slip inserted.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR, Kiev. Soviet po izucheniyu proizvoditel'nykh sil USSR.

Resp. Ed.: F.D. Ovcharenko, Corresponding Member, Ukrainian SSR Academy of Sciences; Ed. of Publishing House: Z.S. Pokrovskaya; Tech. Ed.: V.I. Yurchishin

PURPOSE: The book is intended for engineers and technicians employed in industries using catalysts, adsorbents, fillers, and plasticizers

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as well as for scientific workers at research institutes. It may be useful to the teaching and technical staff of vuzes, as well as in industrial laboratories, and Sovnarkhozes.

COVERAGE: The book gives the results obtained from research work in the geology, mineralogy, physics, and chemistry of Ukrainian bentonite clays and indicates how bentonites can be used in the national economy. The first section was prepared by N.G. Kirichenko, Chief Engineer on the Geological Board of the Kiyev Sovnarkhoz; the second section, by D.N. Kovalenko, Candidate of Geological and Mineralogical Sciences; the third section, by A.I. Rastrenenko, Candidate of Chemical Sciences and F.D. Ovcharenko, Corresponding Member of the Academy of Sciences of the Ukrainian SSR; the fourth section, by F.D. Ovcharenko, Corresponding Member of the Academy of Sciences of the Ukrainian SSR. There are 111 references of which 110 are Soviet and 1 English.

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.G.

[redacted]

Vegetation of the sandy pastures of Zhuan-Kuma and its agricultural utilization. Izv. AN Kazakh. SSR. Ser. biol. no.9:20-31 '55 (MLRA 9:4)

(BALKHASH REGION--BOTANY)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.G.

Vegetation and feed resources of the Kazalinsk State Sheep Farm in Kzyl-Orda Province. Trudy Inst. bot. AN Kazakh. SSR 3:125-159 '56. (MLRA 9:10)

(Kazalinsk District--Botany--Ecology)
(Pastures and meadows)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.G.

Vegetation and feed resources of the Volga-Ural sands in the northern part of the Caspian Sea region. Trudy Inst.bot.AN Kazakh.SSR 6:3-73 '59. (MIRA 12:8)
(Gur'yev Province--Phytogeography)
(West Kazakhstan Province--Phytogeography)
(Pastures and meadows)

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KIRICHENKO, N. G., Cand Biol Sci (diss) -- "Plant growth and the fodder resources of the Volga-Ural sands". Alma-Ata, 1960. 24 pp (Kazakh State U im S. M Kirov) (KL, No 14, 1960, 130)

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KIRICHENKO, N.G.

Some data on the dynamics of the aerial mass of basic plant communities in Bet-Pak-Dala. Trudy Inst. bot. AN Kazakh. SSR 13:189-204 '62. (MIRA 15:12)
(Bet-Pak-Dala--Plant communities)
(Bet-Pak-Dala--Plant research)

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KIRICHENKO, N.G.

Preservation of sandy pastures in the northern Caspian Sea region. Izv. AN Kazakh. SSR Ser. biol. nauk 2 no.2:53-60 Mr-Ap '64 (MIRA 18:2)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.G.

Dynamics of the aerial part of vegetation in the Artemisia-Salsola laricifolia phytocenosis of the Bet-Pak-Dala. Trudy Inst. bot. AN Kazakh. SSR 18:113-133 '64 (MIRA 18:2)

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KIRICHENKO, N.I., inshener (g. Chita.)

For more rapid mechanization of routine track maintenance. Tekh. shel.dor. 15 no.3:3 of cover My '56. (MLRA 9:8)
(Railroads--Maintenance and repair)

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KIRICHENKO, N.I.

KIRICHENKO, N.I., insh. (Chita).

Should an exemplary section be like this? Put' i put. khoz. no.1: 22 Ja '58. (MIRA 11:1)
(Caucasus, Northern--Railroads--Maintenance and repair)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, Nikolay Il'ich; GRUSHIN, F.Ye., otv. za vypusk; ZABORSKIY, N.A., red.

[Electrical stand for breaking in and testing engines] Elektricheskii stend dlia obkatki i ispytaniia dvigateleĭ. Moskva, Izd-vo M-va sel'.khoz. SSSR, 1958. 19 p. (MIRA 12:1)

1. Moscow. Vsesoyuznaya sel'skokhozyaystvennaya vystavka, 1954- . (Gas and oil engines) (Electric apparatus and appliances)

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KIRICHENKO, N.I., inzh.; SLAVIKOVSKIY, N.A.; FILIN,

Repair of rails damaged by skidding. Put' i put. khoz. no.8:21 Ag '59. (MIRA 13:3)

1.Nachal'nik Moskovskoy distantsii puti Moskovsko-Kursko-Donbasskoy dorogi (for Kirichenko). 2.Zamestitel' nachal'nika Moskovskoy distantsii puti Moskovsko-Kursko-Donbasskoy dorogi (for Slavikovskiy). 3.Starshiy dorozhnyy master Moskovskoy distantsii puti Moskovsko-Kursko-Donbasskoy dorogi (for Filin).

(Railroads--Rails)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

SEN'KO, M.F.; KIRICHENKO, N.I.; SLAVIKOVSKIY, N.A.

Maintenance of continuous rail tracks and of long welded rails. Put' i put,khoz. 4 no.6:7-8 Je '60. (MIRA 13:7)

1. Glavnyy inzhener sluzhby puti Moskovskoy dorogi (for Sen'ko).
(Railroads--Maintenance and repair)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.I., inzh.; SLAVIKOVSKIY, N.A.

Maintenance and repair of tracks with long rails. Put' i put. khoz. 7 no.6:3-5 '63. (MIRA 16:7)

(Railroads--Track)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

SLAVIKOVSKIY, N. A.; KIRICHENKO, N. I.

Characteristics of the operation and maintenance of tracks with 25-meter long rails. Put' i put. khoz. 6 no.10:28-29 '62. (MIRA 15:10)

1. Nachal'nik distantsii puti, st. Moskva-Kurskaya.

(Railroads—Track)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.I.

Powerful mineral spring. Priroda 41 no.7:117 Jl '53. (MLRA 6:6)

1. Armyanskoye otdeleniye instituta Gidroenergoproyekt Yerevan.
(Armenia--Springs)

Discovers gas and mineral water in a deep well in northern Armenia. Numerous gas bubbles were found down to a depth of 42 m. At 42 m a gusher of carbonated water was struck. From 43-46 m the pressure and discharge of the gusher increased. Beyond 46 m, to a depth of 200 m, the pressure and discharge increased further.

258T75

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.I.

USSR/Geology

Card 1/1 Pub. 46 - 12/19

Authors : Kirichenko, N. I.

Title : Buried loess floor in Armenia

Periodical : Izv. AN SSSR, Ser. geol. 5, 142 - 144, Sep - Oct 1954

Abstract : An account is given of the finding of a floor of loess in the Armenian SSR during engineering work connected with the construction of an hydro-electric power plant. The chemical composition of the loess is given with figures for depths and locations. The formation is said to date from the early Quarternary period. Three Soviet references (1949 - 1952). Tables.

Institution: .....

Submitted: August 24 1953

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N. I.

KIRICHENKO, N. I. --"Composition and Physical and Structural Properties of the Saksaman Forest Grounds." (Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Min of Higher Education, USSR, Novocherkassk Polytechnic Inst imeni Sergo Ordzhonikidze, Novocherkassk, 1955

SO: Knizhnaya Letopis', No. 25, 13 Jun 55

* For Degree of Candidate in Geological and Mineralogical Sciences

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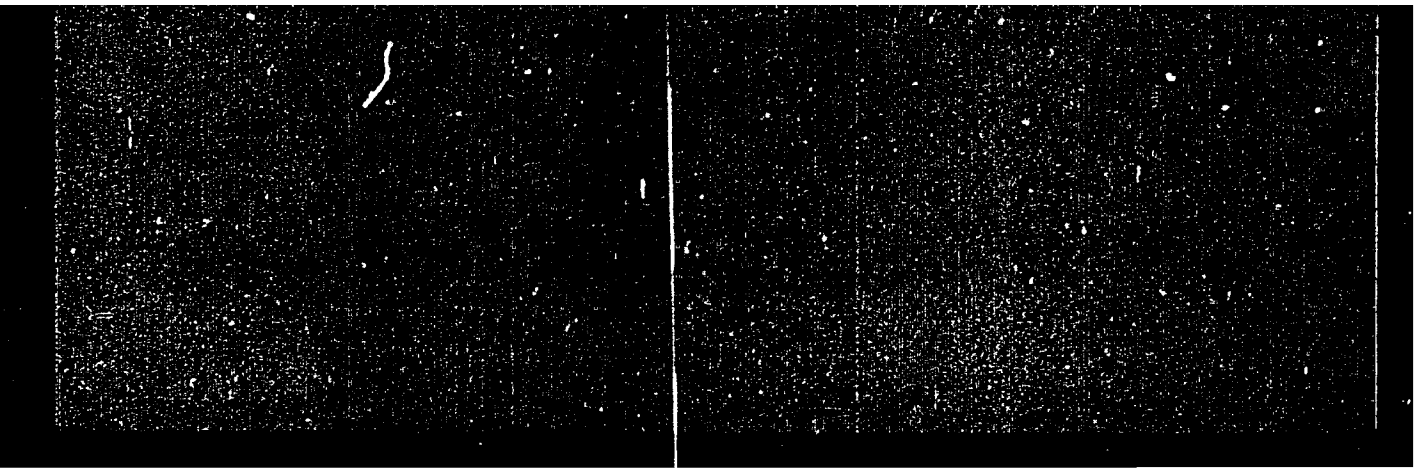

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KIRICHENKO, N.I.

Packing of loess soils. Dokl.AN Azerb.SSR 13 no.7:763-768 '57. (MLRA 10:8)

1. Bakinskoye otdeleniye Instituta "Gidroenergoproyekt." Predstavleno akademikom AN Azerbaydzhanskoy SSR M.V. Abramovichem.
(Saksagan' Valley--Loess) (Building materials--Testing)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

SOV-98-58-10-10/16

AUTHOR: Kirichenko, N.I., Candidate of Geological-Mineralogical Sciences

TITLE: Construction Experience on Macroporous Grounds (Iz opyta stroitel'stva na makroporistykh gruntakh)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 10, pp 36-37 (USSR)

ABSTRACT: The article presents a description of experience data in construction on macroporous grounds, e.g. that of the Gyumushskaya gidroelektrostantsiya (Gyumush Hydro-electric Plant) on the Razdan River in the Armenian SSR. Macroporous soil samples taken from the derivation canal area were tested. Physical and structural data of the tested soils are given. In 50 of 53 tests, the macroporosity indices have proved to be less than one, (1 to 0.5) according to N.Ya. Denisov [Ref. 2]. A reinforced concrete lining was designed for the derivation canal, built as a part of the above mentioned hydroelectric plant. The Armyanskoye Otdeleniye Gidroproyekta (Armenian Section of Gidroproyekt) designed the lining. The canal ditch with 1 : 1.5 slopes was excavated. Twelve (12) cm thick reinforced concrete plates were put on

Card 1/2

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the bottom and slopes of the canal. This concrete layer was smeared with hot mastic and covered with overlapping "Borulin" sheets. Eight (8) cm thick reinforced concrete plates were then placed on top. The above hydro-insulating lining has effectively worked for the past 5 years. There are: 1 diagram and 3 Soviet references.

1. Power plants--Construction 2. Soils--Mechanical properties
3. Soils--Porosity

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.I.

Carbonate and gypsum concretions in loess. Izv. AN Arm. SSR. Ser. geol. i geog. nauk 11 no.2:81-85 '58. (MIRA 11:9)

1. Bakinskoye otdeleniye Instituta "Gidroenergoproyekt."
(Sansagan Valley--Loess)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.I.

Composition, physical and structural properties of diatomites. Vop. gidrogeol. i inzh. geol. no.17:121-129 '59. (MIRA 14:1)
(Diatomaceous earth)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.I. [Kyrychenko, M.I.]

Mindel-Riss fauna in the Saksagan' Valley. Geol. zhur. 20 no. 3:89-90 '60. (MIRA 14:4)

(Saksagan' Valley—Molusks)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.I.

Permeability of earthen dams. Uch. zap. AGU. Geol-geog. ser. no.2:51-53 '59. (MIRA 14:6)

(Dams)
(Soil percolation)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

TIZDEL', M.R.; KARPYSHEV, Ye.S.; MOLOKOV, L.A.; KONYAROVA, L.P.; PESTOVSKIY, K.N.; ZENKOV, M.V.; ~~KIRICHENKO, N.I.;~~ NEYSHTADT, L.I.; MALYAROVA, I.Ye.; PIRTSKHALAYSHVILI, G.P.; KALMYKOVA, N.I.; BELYY, L.D., doktor geol.-miner. nauk; BOROVOY, A.A., red.; GOTMAN, T.P., red.; LARIONOV, G.Ye., tekhn. red.

[Geology and dams]Geologiia i plotiny. Pod obshchei red. A.A. Borovogo. Moskva, Gosenergoizdat,(Its Materialy po proektirovaniiu gidroenergeticheskikh uzlov. Seriia 2: Izyskaniia) Vol.2. 1962. 151 p. (MIRA 15:9)

1. Moscow. Vsesoyuznyy gosudarstvennyy proyektnyy institut "Gidroenergoproekt." 2. Vsesoyuznyy gosudarstvennyy proyektnyy institut , Moscow (for all except Borovoy, Gotman, Larionov).

(Geology) (Dams)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.I., kand.geolog.-mineralogicheskikh nauk

Construction of the dam of the Chir-Yurt Hydroelectric Power Station. Gidr.stroi. 33 no.4:17-19 Ap '63. (MIRA 16:4)
(Chir-Yurt Hydroelectric Power Station)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N. I., kand. geologo-mineralogicheskikh nauk;
DANIYELYAN, Yu. T., inzh.; MALYUTKIN, B. V., inzh.

Deformation of characteristics of Chirkey limestones.
Gidr. stroi. 33 no.12:18-22 D '62. (MIRA 16:1)

(Chirkey Hydroelectric Power Station—Limestone—Testing)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KOTUL'SKIY, V.V., inzh.; IL'INA, O.V., inzh.; KIRICHENKO, N.I., kand. geol.-miner. nauk; MARTYNOV, V.S., inzh.; LYKOSHIN, A.G., kand. geol.-miner. nauk, nauchn. red.; GLOTOVA, L.V., red.; KASIMOV, D.Ya., tekhn. red.

[Seepage-preventing screens for dams; investigations, design, and construction] Protivofil'tratsionnye zavesy plotin; iz opyta izyskanii, proektirovaniia i stroitel'stva. Moskva, Gosstroiizdat, 1963. 194 p. (MIRA 17:1)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut vodosnabzheniya kanalizatsii, gidrotekhnicheskikh sooruzheniy i inzhenernoy gidrogeologii.

(Dams)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

BELOMAR, O.D.; ZAYCHENKO, V.Yu.; KIRICHENKO, N.M.; CHUYUN, A.B.

Results of sampling in neutron-neutron logging in the coal deposits of the Donets Basin. Dop. AN URSR no.5:602-606 '63. (MIRA 17:9)

1. Institut mineral'nykh resursov AN UkrSSR. Predstavleno akademikom AN UkrSSR S.I. Subbotinym.

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KIRICHENKO, N.N.

Collection of inventive and efficiency suggestions contributed by workers of the automobile and tractor industries. Moskva, gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1951. 63 p. (SL-39645)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.P.

KIRICHENKO, R.M.; KIRICHENKO, N.P.

Two winters spent on Kara-Kul Lake; reminiscences of the explorers. Izv.Uzb.fil.geog.ob-va no.3:161-171 '57. (MIRA 11:4)
(Kara-Kul Lake)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, Nadezhda Yakovlevna

[Psychological preparation for childbirth; recommended lesson text for the instructing midwife] Psikhoprofilakticheskaia podgotovka beremennykh k rodam; primernyi tekst zaniatii instruktora-akusherki. Kiev, Gosmedizdat, USSR, 1957. 25 p. (MIRA 13:7)

(CHILDBIRTH--PSYCHOLOGY)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KATS, V.I., doktor ekon. nauk; KIRICHENKO, V.N., kand. ekon. nauk; IVANOV, Ye.A.; SAID-GALIYEV, K.G.; LUK'YANOV, E.B.; MUSATOVA, V.A.; PLYZHEVSKIY, B.P., kand. ekon. nauk; STOMAKHIN, V.I.; KARPUKHIN, D.N., kand. ekon. nauk; KIRICHENKO, N.Ya.; ZHIDKOVA, M.V., kand. ekon. nauk; ANCHISHKIN, A.I.; KLINSKIY, A.I., kand. ekon. nauk; SOLOV'YEV, N.S.; KLOTSVOG, F.N.; VSYAKIKH, E.P.; LAGUTIN, N.S., kand.ekon. nauk; LEMESHEV, M.Ya., kand. sel'khoz.nauk; KORMNOV, Yu.F., kand. ekon. nauk; SAVIN, V.A.; TEREKHOV, V.F.; KUDROV, V.M., kand. ekon. nauk; AL'TER, L.B., doktor ekon. nauk, red.; KRYLOV, P.N., kand. ekon. nauk; LEPINKOVA, Ye., red.; KOKOSHKINA, I., mladshiy red.; ULANOVA, L., tekhn. red.

[Growth of the social product and the proportions of the national economy of the U.S.S.R.] Rost obshchestvennogo proizvodstva i proportsii narodnogo khoziaistva SSSR. Moskva, 1962. 453 p. (MIRA 16:2)

(Russia--Economic policy)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KRYLOV, P.N.; MAYYER, V.F.; ZHIDKOVA, M.V.; LAGUTIN, N.S.; KOROVKIN, G.N.; KIRICHENKO, N.Ya.; AGABAB'YAN, E.M.; KUZ'MINA, Ye.I.; GALYNSKIY, V.T.; SKRYLEVA, V.N.; GLYAZER, L.S., red.; RYABOVA, Ye.A., red.; GERASIMOVA, Ye.S., tekhn. red.

[Planning national consumption in the U.S.S.R.; current problems] Planirovanie narodnogo potrebleniia v SSSR; sovremennye problemy. Pod red. V.F.Maiera i P.N.Krylova. Moskva, Izd-vo "Ekonomika," 1964. 134 p. (MIRA 17:1)

1. Moscow. Nauchno-issledovatel'skiy ekonomicheskiy institut.

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

LAPCHENKO, M.L.; KIRICHENKO, N.Ye. [Kirichenko, N.IE.]

Prolapse of the urethral mucosa in a 9-year-old girl. Ped. akush. i gin. 22 no. 1:3 of cover '60. (MIRA 13:8)
(URETHRA--DISEASES)

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1ST AND 2ND CODES

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH CODES

18

A

Oxygen in the tower and chamber processes. N. E. Kirichenko and S. V. Benkovskii. *J. Chem. Ind.* (Moscow) 1934, No. 4, 27–41.—A detailed math. analysis of the production of H_2SO_4 using air enriched with 42% O_2, shows that stronger acid is obtained at greatly reduced cost.
H. M. Leicester

COMMON ELEMENTS

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N. E.

BC

Oxygen in the chamber and tower processes [of sulphuric acid manufacture]. N. E. Kiritschenko and S. V. Bernovski (J. Chem. Ind. Russ., 1934, 10, No. 4, 27—41).—A detailed analysis of the use of 42% O_2 in place of air for production of SO_2 from pyrites (I) for H_2SO_4 (II) production indicates that the cost of (II) is thereby reduced by 28·7% in the tower process, owing to reduction of 50% in the HNO_3 expenditure and in the capital outlay, of 75% in the Pb used, and to considerable fuel economies, involved in the roasting of (I) and in the concn. of (II). Finally, more complete combustion of (I) yields a product suitable for the Fe industry. R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Sulfuric acid. N. E. Kirichenko, E. K. Lopatto, S. V. Ben'kovskii and N. I. Dmitrievskii. Russ. 46,551, April 30, 1936. Contact of burner gases with nitrose is established by injecting the nitrose, together with H_2SO_4, at a pressure of 1 atm.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

18

Nitric acid. N. E. Kirichenko and S. V. Ben'kovskii. Russ. 46,553, April 30, 1936. Nitrose gases are atomized with nitric acid mixed in an injector.

Ca

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

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KIRICHENKO, N

BC

B-I-8

Calculation of mechanism of the process of oxidation of sulphur dioxide in the chamber process. N. Kirichenko and S. Benkovski (Ukrain. Chem. J., 1936, 11, 260—263).—Polemical, against Tichonov (B., 1936, 688). R. T.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

18

CA

Mechanism of absorption of nitrogen oxides [illegible] Kirichenko and S. Ben'kovskii. Ukrain. Khim. Zhur. 11, 304-26(1936). Substitution of acidified for ordinary air in absorption towers brings about increased concn. of NO_2 at the expense of NO, consequently, increased intensity of the process. A method of calcn. of accelerated rate of oxidation, 11 tables and 5 figures accompany the text. I. G. Tolpin

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

18

Ca

The reason for the slowing of carbonation in ammonia solutions of sodium sulfate. N. E. Kirichenko. *J. Chem. Ind.* (U. S. S. R.) 14, 1329-31(1937). The work of Belopol'skii, Bogusławskii and Urusov (*C. A.* 31, 4480[9]) is criticized. Some critical remarks on the criticism of N. E. Kirichenko. A. P. Belopol'skii. *Ibid.* 1331-3; cf. *C. A.* 32, 713[9]. H. M. Leicester

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.YE.

19

Sulfuric and nitric acids. N. E. Kirichenko. Russ. 52,923, March 31, 1938. Addn. to Russ. 46,551 (C. A. 33, 3540[4]) and Russ. 46,553 (C. A. 33, 3540[5]). The methods of the original patents are modified in that air is forced through the injector nozzle at 2 to 50 atm. to effect a finer dispersion of the liquid and establishment of the most favorable ratios between the gaseous and the liquid phases.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

PROCESSES AND PROPERTIES INDEX

Modernization of the cooling action in a tower sulfuric acid factory. K. M. Malin, N. K. Krichenko, V. P. Andronov and N. N. Otvagin. J. Chem. Ind. (U. S. S. R.) 18, No. 3, 10-16 (1938).—Factors affecting the cooling system are discussed. H. M. Leicester

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

The solubility of nitrogen dioxide in sulfuric acid containing nitric acid. N. E. Kirichenko. *J. Chem. Ind.* (U. S. S. R.) 17, No. 6, 85-8(1940).—Although NO_2 is very slightly sol. in H_2SO_4, in H_2SO_4 contg. 7.2-8.3% HNO_3 the soly. is 8 cc. per cc. of acid at room temp.
H. M. Lakrester

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, N.E.

Chemical Abstracts
May 25, 1954
Acids, Alkalies and
other Heavy Chemicals

G 3

Oxidizing space and separate denitrator in a sulfuric acid tower system. M. E. Pozin and N. E. Kirichenko. *Zhur. Prikkad. Khim.* 24, 561-8(1951).—A small nonirrigated packed tower inserted before the absorption zone to oxidize the nitrous gas to the equimol. ratio, $NO:NO_2 = 1$, is unsuitable for good and intensive operation of present-day tower systems. A special irrigated tower denitrator inserted in parallel with the first tower is effective. Data taken in 1938 from the operation of a plant with a capacity of 100 kg. of H_2SO_4 per cu. m. per 24 hrs. or 235 metric tons/day are used for computing the degree of oxidation of nitrous gases in the free space of the packing of the first absorption tower.

V. H. Gottschalk

10-12-54

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO

BC

B-I-8

Electrolytic preparation of magnesium hydroxide from aqueous magnesium chloride. D. P. ZOSIMOVITSCH and O. I. KIRICHENKO (Mem. Inst. Chem., Ukrain. Acad. Sci., 1936, 3, 257—260).—$Mg(OH)_2$ is obtained from aq. $MgCl_2$ in 80% yield, and of high purity, by electrolysis at 25—30° (c.d. 200—1000 amp. per sq. dm.; at 3-5 volts). The p_H of the catholyte rises after a few min. from 6-65 to 10-14, thereafter remaining const. Presence of NaCl, $CaCl_2$, or $CaSO_4$ does not interfere. R. T.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KUL'SKIY, Leonid Adol'fovich, prof.; MARKOV, B.F., doktor khim.nauk, otv.red.; KIRICHENKO, O.I., inzh., otv.red.; SHEVCHENKO, M.A., kand.khim.nauk, red.; GORONOVSKIY, I.T., kand.khim.nauk, red.; NAKORCHEVSKAYA, V.F., inzh., red.; SLIPCHENKO, V.A., inzh., red.; SOKOLOVSKIY, L.I., red.izd-va; YEFIMOVA, M.I., tekhn.red.

[Chemistry and technology of water treatment] Khimiia i tekhnologiia obrabotki vody. Kiev, Izd-vo Akad.nauk USSR, 1960. 359 p. (MIRA 13:7)

(Water--Purification)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, O.M. [Kyrychenko, O.M.]

Accumulation of plastic material in the Kimmerik iron ore basin of the Kerch Peninsula. Trudy Inst.min.resur. AN URSR no.2:3-11 '60. (MIRA 15:5)

(Kerch Peninsula—Rocks, Sedimentary)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

YURK, Yu.Yu.; KORNILOV, N.A.; KIRICHENKO, O.N.; LEBEDEV, Yu.S.

Outlines of the Cimmerian iron ore basin in the southern part the U.S.S.R. Dokl. AN SSSR. 154 no.2:355-358 Ja'64. (MIRA 17:2)

1. Institut mineral'nykh resursov AN UkrSSR. Predstavleno akademikom D.I. Shcherbakovym.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

YURK, Yu.Yu.; SHNYUKOV, Ye.F.; LEBEDEV, Yu.S.; KIRICHENKO, O.N.; SEMENENKO, N.P., akademik, otv.red.; ISUPOVA, N.I., tekhn.red.

[Mineralogy of iron ore formation in the Kerch Basin] Mineralogiia zhelezorudnoi formatsii Kerchenskogo basseina. Simferopol', Krymizdat, 1960. 449 p. (MIRA 13:12)

1. AN USSR (for Semenenko).
(Azov Sea region--Iron ores)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, O.N. [Kyrychenko, O.M.]

Terrigenous minerals in Cimmerian iron deposits in the region of Kerch and the Sea of Azov. Mat.z min.Ukr. no.2:62-68 '61. (MIRA 15:8)

(Kerch Peninsula—Minerals) (Azov Sea region—Minerals)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

[illegible] [illegible] [illegible] [illegible]

[illegible] in [illegible] [illegible]. [illegible] pol.iskop. no.2: [illegible]. (MIRA 17:10)

[illegible] [illegible] [illegible] [illegible] Kiyev.

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, O.P.

MIL'NER, A.S.; KIRICHENKO, O.P.

Dependence on temperature for the electric resistance of ferrites. Dop. AN URSR no.3:258-260 '55. (MLRA 8:11)

1. Kharkivs'kiy derzhavniy universitet. Predstaviv diysniy chlen Akademii nauk URSR K.D.Sinel'nikov
(Ferromagnetism)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, O.P.

Cutting torch operated with gas-acetylene substitutes. Mashinostroitel' no.2:21 F '64. (MIRA 17:3)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, P.; RATANOVA, V.; SERGEYEV, F.; POLCHANINOVA, G.

Disinfecting grain with methyl bromide in the silos of elevators equipped with recirculating units. Muk.-elev. prom. 29 no.2: 8-9 F '63. (MIRA 16:8)

1. Khar'kovskaya mashinoispytatel'naya stantsiya (for Kirichenko).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov yego pererabotki (for Ratanova, Sergeyev, Polchaninova).
(Methane) (Grain--Disinfection)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

ACCESSION NR: AP4038435 S/0294/64/002/002/0199/0204

AUTHORS: Kirichenko, P. I.; Mikryukov, V. Ye. (Deceased)

TITLE: Thermal and electric properties of some alloys of the rhenium-nickel system

SOURCE: Teplofizika vy*sokikh temperatur, v. 2, no. 2, 1964, 199-204

TOPIC TAGS: nickel, rhenium, thermal conductivity, electric conductivity, alloy system, resistivity temperature coefficient, temperature gradient

ABSTRACT: The temperature dependence of the electric resistivity, temperature conductivity, and Wiedemann-Franz ratio were investigated for rhenium-nickel system alloys in the range from 293--1123K (the heat conductivity and the Wiedemann-Franz ratio were measured from 293 to 873K). There are no literature data on the investigated alloys. The results are of independent interest and are also useful

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ACCESSION NR: AP4038435

for physico-chemical analysis. Each parameter was measured by two independent procedures. The various test procedures are either described or referred to in the literature. All the investigated alloys were found to have relatively low thermal and electric conductivity. It was found that the heat transfer in the investigated alloys is effected by the electron conductivity and the lattice thermal conductivity. Tests have shown that the alloys investigated are solid solutions. Orig. art. has: 4 figures and 5 formulas.

ASSOCIATION: Energeticheskiy institut im. G. M. Krzhizhanovskogo (Power Engineering Institute)

SUBMITTED: 10Jul63 DATE ACQ: 09Jun64 ENCL: 03

SUB CODE: MM NR REF SOV: 011 OTHER: 002

Card 2/5

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, P.L.; KAMINSKIY, A.G. (Kiyev)

Further improvement of some forms of medical expertise on the working capacity and the raising of the level of physicians' qualifications in Medical Experts' Commissions on workers' Disability and Temporary Control Commissions. Vrach. delo no.1: 122-125 Ja'64 (MIRA 17:3)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

DEMIDOVSKAYA, L.F.; KIRICHENKO, R.A.

Morphological and anatomical characteristics of reed and the cycle of its development. Trudy Inst. bot. AN Kazakh. SSR, 19:93-159 '64.

Phytoclimate of reed growths in the Syr Darya Valley. Ibid.:160-171 (MIRA 18:3)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

L 40782-66 EWT(1)/EWT(m)/T/EWP(t)/ETI/EWP(k) LJP(c) DS/JD/HW

ACC NR: AP6018611 SOURCE CODE: UR/0420/65/000/004/0107/0109

AUTHOR: Lopatin, A. I.; Balyberdin, V. V.; Chumachenko, V. S.; Gurov, V. M.; Trubchaninov, F. N.; Kirichenko, R. F.; Fomenko, F. I.

ORG: Kharkov Aviation Institute (Khar'kovskiy aviatsionnyy institut)

TITLE: Investigation of an electrohydraulic source and some of its potential applications

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 4, 1966, 107-109

TOPIC TAGS: electrohydraulic effect, shock wave, electric discharge

ABSTRACT: The authors describe a highly efficient coaxial electrohydraulic source for industrial use. A diagram of the device is shown in figure 1. The annular aluminum electrode 2 is fastened to textolite base 1 by bolts. Stainless steel electrode 3 is fastened to the base inside the aluminum electrode and located on its central axis. Voltage is fed to the annular and central electrodes from a battery of condensers through a controllable discharger. The electrical discharge between the electrodes develops in the form of individual spark channels. A schematic diagram of the experimental unit used for testing the source is shown in figure 2.

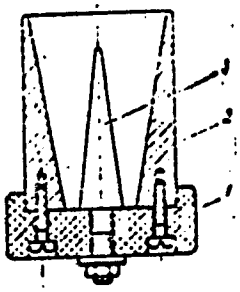

Figure 1

Card 1/3

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

L 40782-66
ACC NR: AP6018611

Voltage from regulator *1* is fed through step-up transformer *2* and high-voltage rectifier *3* to condenser battery *5* with a total capacitance of 6 μf. The charging voltage is monitored on electrostatic kilovoltmeter *6*. The current in the discharge circuit is registered by a low--inductance Rogowski loop with an integrating circuit connected in the coaxial cable. The signal from this integrating circuit is fed to one channel of an oscillograph. A capacitance signal from the voltage divider is fed to the second channel of the oscillograph through a 75 Ω impedance matching resistor. Analysis of the oscillograms shows that the cyclic frequency of the discharge is 925 Kc while the inductance of the discharge circuit is 0.2 μh. The current amplitude of the discharge reaches 16 Ka when 10 Kv is applied to the condenser plates. Water velocity is a linear function of discharge voltage with the approximate equation $W=4V+1$, where W is water velocity in m/sec and V is voltage in Kv. At a distance of 3 m

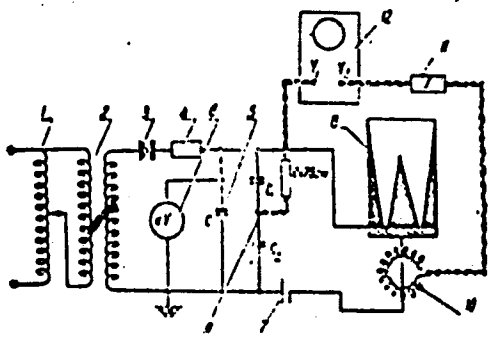

Figure 2: 1--voltage regulator; 2--step-up transformer; 3--20 Kv high--voltage rectifier; 4--60 KΩ discharge resistor; 5--IM-50-3 condenser battery; 6--S-96 kilovoltmeter; 7--discharger; 8--electrohydraulic source; 9--D6-2 voltage divider; 10--Rogovski loop; 11--integrating circuit; 12--OK-17M double beam oscillograph

Card 2/3

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

L 40782-66

ACC NR: AP6018611

from the source, the cross sectional area of the water stream is no more than three times that of the source. Orig. art. has: 4 figures.

SUB CODE: 13/ 20/ SUBM DATE: none/ ORIG REF: 007

Card 3/3 mcl

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

L 40782-66 EWT(1)/EWT(m)/T/EWP(t)/ETI/EWP(k) IJP(c) DS/JD/HW

ACC NR: AP6018611 SOURCE CODE: UR/0420/65/000/004/0107/0109

AUTHOR: Lopatin, A. I.; Balyberdin, V. V.; Chumachenko, V. S.; Gurov, V. M.; Trubchaninov, F. N.; Kirichenko, R. F.; Fomenko, F. I.

ORG: Kharkov Aviation Institute (Khar'kovskiy aviatsionnyy institut)

TITLE: Investigation of an electrohydraulic source and some of its potential applications

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 4, 1966, 107-109

TOPIC TAGS: electrohydraulic effect, shock wave, electric discharge

ABSTRACT: The authors describe a highly efficient coaxial electrohydraulic source for industrial use. A diagram of the device is shown in figure 1. The annular aluminum electrode 2 is fastened to textolite base 1 by bolts. Stainless steel electrode 3 is fastened to the base inside the aluminum electrode and located on its central axis. Voltage is fed to the annular and central electrodes from a battery of condensers through a controllable discharger. The electrical discharge between the electrodes develops in the form of individual spark channels. A schematic diagram of the experimental unit used for testing the source is shown in figure 2.

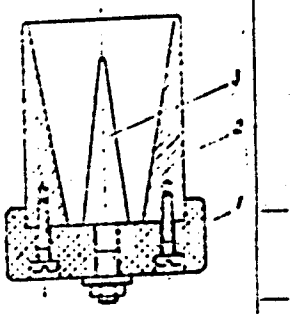

Figure 1

Card 1/3

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

L 40782-66

ACC NR: AP6018611

Voltage from regulator *1* is fed through step-up transformer *2* and high-voltage rectifier *3* to condenser battery *5* with a total capacitance of 6 μf. The charging voltage is monitored on electrostatic kilovoltmeter *6*. The current in the discharge circuit is registered by a low--inductance Rogowski loop with an integrating circuit connected in the coaxial cable. The signal from this integrating circuit is fed to one channel of an oscillograph. A capacitance signal from the voltage divider is fed to the second channel of the oscillograph through a 75 Ω impedance matching resistor. Analysis of the oscillograms shows that the cyclic frequency of the discharge is 925 Kc while the inductance of the discharge circuit is 0.2 μh. The current amplitude of the discharge reaches 16 Ka when 10 Kv is applied to the condenser plates. Water velocity is a linear function of discharge voltage with the approximate equation $W=4V+1$, where W is water velocity in m/sec and V is voltage in Kv. At a distance of 3 m

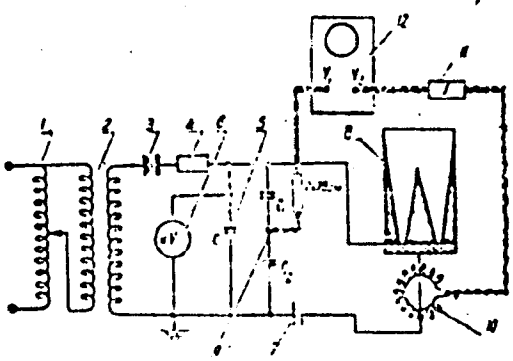

Figure 2: 1--voltage regulator; 2--step-up transformer; 3--20 Kv high--voltage rectifier; 4--60 KΩ discharge resistor; 5--IM-50-3 condenser battery; 6--S-96 kilovoltmeter; 7--discharger; 8--electrohydraulic source; 9--D6-2 voltage divider; 10--Rogowski loop; 11--integrating circuit; 12--OK-17M double beam oscillograph

Card 2/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

L 40782-66

ACC NR: AP6018611

from the source, the cross sectional area of the water stream is no more than three times that of the source. Orig. art. has: 4 figures.

SUB CODE: 13/ 20/ SUBM DATE: none/ ORIG REF: 007

Card 3/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

L 32678-66 EWT(m)/EWP(k)/EWP(t)/ETI IJP(c) JD/HW

ACC NR: AP6006440 SOURCE CODE: UR/0420/65/000/003/0084/0085

AUTHORS: Lopatin, A. I.; Balyberdin, V. V.; Chumachenko, V. S.; Fomenko, V. I.; Ivanov, G. V.; Trubchaninov, F. A.; Kirichenko, R. F.

ORG: none

TITLE: Radiotechnical method for measuring the motion parameters of the blank during sheet metal stamping

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 3, 1965, 84-85

TOPIC TAGS: metal stamping, test instrumentation, UHF instrument

ABSTRACT: A mostly qualitative description of a radiotechnical method for measuring the displacement of the die during sheet metal stamping is briefly presented. The method consists of attaching a metal "flag" to the die and using this flag to partially block the path between two ultrahigh frequency waveguides, one of which serves as a transmitter and the other as detector. After calibrating the change in transmitted UHF energy as a function of flag position in the gap between the guides, this curve can be used to interpret the die motion (position or velocity) as recorded on an oscilloscope during a stamping operation. Any centimeter range UHF generator can be used. A sample calibration curve and a sample stamping curve are presented without details or specifications as to operating ranges, accuracy, etc. Orig. art. has: 3 figures.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 001

Card 1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, R.M.; KIRICHENKO, N.P.

Two winters spent on Kara-Kul Lake; reminiscences of the explorers. Izv.Uzb.fil.geog.ob-va no.3:161-171 '57. (MIRA 11:4)
(Kara-Kul Lake)

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

25(1) SOV/135-59-5-17/21

AUTHOR: Kirichenko, S.I., Engineer, Fukel'man, M.L.

TITLE: The BEZ-250 Electrode-Holder for Welding Without Discarded Metal

PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 5, pp 40-41 (USSR)

ABSTRACT: The design of the BEZ electrode-holder (Figure 1) is free of one defect present in usual rod-type holders of its kind. It contains a semi-automatic device for exciting the arc, the necessary arc gap is obtained, reliable contact between the bottom of the holder and the article is achieved and the welder is protected from the flash of the arc. It can be used with a current of 250 amps, a/c or d/c and any type of electrode. Instructions for its use are given. The welder only needs 2-4 hours theory and 1-2 days practice to get used to it. At one plant it can save 650-750 thousand rubles annually, and 200 have already been produced. There is 1 diagram and 1 photo.

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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3

KIRICHENKO, S.I., inzh.

Electrode holder for welding without discards. Sudostroenie 25 no.7:51-52 Jl '59. (MIRA 12:12)
(Electric welding--Equipment and supplies)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722620009-3"