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SOV/110/58-7-3/21

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AUTHOR:	Fradkin, A.M., Engineer, and Petrenko, F.N., Engineer.
TITLE:	Electrostatic Spray-painting of electric motors (Usras. a electrodvigateley v electrostaticheskom pole.
PERIODICAL:	Vestnik Elektropromyshlennosti, 1958. Nr 7, pp 12-16 (USSR)
ABSTRACT: Card 1/4	This article describes a method of painting electric motors in an electrostatic field. The paint is delivered to an atomising head which is in the form of a cup with its interior surface carefully polished. The cup rotates at a speed of $900 - 1500$ r.p.m. on a hollow shaft through which the paint is delivered. This atomising device is maintained at high voltage, so that the drops of paint leaving the end of the cup are highly charged: a general view of the installation is given in Fig 1. The main components comprise a high-voltage rectifier with current-limiting resistance and automatic discharging devices. The painting chamber measures $3.5 \ge 3.2 \ge 3$ m and a conveyor passes through it. The arrangement of the chamber is shown in Fig 2; the motors, suspended from the conveyor,

Spray-painting of electric motors

SOV/110-58-7-3/21

rotate at 6 - 7 r.p.m. and are painted uniformly. The atomisers, as illustrated in Fig 3, are mounted on vertical insulators. The atomiser cups are driven by a small electric motor. The paint metering device is illustrated diagrammatically in Fig 4; connections to the atomisers are made by insulating polyvynyl chloride tube. A voltage of 100 kV is applied to the atomisers. A small extraction fan is installed in the paint chuber, primarily to remove solvent vapours. The chamber can handle 48 motors an hour. The conveyor is described and illustrated in Figs 5 & 6. The paint is dried in 25 minutes by an infra-red lamp installation, which can also be seen in Fig 6. The control panel is described. Compressed-air actmisers were tried, and so was compressed-air-turbine drive for the cups, but

Card 2/4

APPROVED FOR RELEASE: Wednesday, June 21, 2000

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Spray-painting of electric motors

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electric motor drive was found best. The process ensures that most of the paint is applied to the motors and a mist of paint is not formed. External surfaces of motors are uniformly painted, but hidden internal surfaces are not touched and may require painting by a brush on the conveyor after leaving the electrostatic field. It is important that the distance between the atomiser and the product should not vary too greatly. If the distance becomes too small, flashover may occur and if it is too great the method is not so effective. When bituminous paint 462P is used there is no risk of fire or explosion any more than in ordinary paint chambers, and no special precaution is necessary. Explosive mixtures cannot form in the chamber and the paint does not burn if a flashover occurs provided that its power is properly limited. The process is used at the Kharkov Electromechanical works for various types of explosion-proof motors, the general layout of the equipment being

Card 3/4

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Spray-painting of electric motors SovAl0-58-7-9/21
illustrated diagrammatically in Fig 7 and briefly described. It is concluded that the main advantage of the hethod is the economy of paint, consumption of which was cut by half. The process is automatic, output is high and manual labour is practically
Card 4/4 eliminated. There are 7 figures.
SUENITTED: February 27, 1958.
1. Paint sprayers-Design 2. Paint sprayers--Performance 3. Paints--Applications 4. Electric motors--Coating









ARTEN'YEV, N. L., GERUS, V. L., PETRENKO, C.

Television

Soviet priority to the Superorthicon type of the television pick-up tube. Zhur. tekh. fiz. 22 no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1958. Unclassified.

PETRENKO, G.

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USSR/ RIPEROVED FOR RELEASE, Wednesday, June 21, 2000 CIA-RDP86-00513R001

"Soviet Priority on TV Transmitting Tube of Superopticon Type," N. L. Artem'yev, V. L. Gerus, G. Petrenko

"Zhur Tekh Fiz" Vol XXII, No 5, pp 890, 891

After the invention of the 1st iconoscope by S. I. Katayev and improvements by P. V. Timofeyev and P. V. Shmakov and after the invention of secondary electron multipliers by L. A. Kubetskiy, a new achievement was the supersensitive superopticon, much described in the US without reference to the inventor G. V. Braude (cf. Certificate 55712) "Sbornik Izobreteniy SSSR" (Collection of Inventions of the USSR) No 9, 1939. Letter to the editor, received 20 Feb 52.

222T23











VOLOTKOVSKIY, S.A., doktor tekhn.nauk; BAKHURIN, K.I., kand.tekhn.nauk; PETRENNO, G.G., inzh. Technical and economic comparison of the efficiency of using cars with a closed and a dumping body in the Krivoy Rog Basin. Vop. rud. transp. no.6:356-360 '62. (MIRA 15:8) 1. Dnepropetrovskiy gornyy institut (for Volotkovskiy, Bakhurin'. 2. Shakhta "Novaya", rudoupravleniya im. Rozy Lyuksemburg (for Petrenko). (Krivoy Rog Basin-Mine railroads-Cars)

PETRENKO, G.G., gornyy inzh. Fractical construction of a chute drawer for mines in the Krivoy Rog Basin with large railroad cars. Gor.zhur. no.3:73-74 Mr '60. (MIRA 14:5) 1. Rudoupravleniye im.R.Lyuksemburg, Krivoy Rog. (Mine haulage)







PETRENNO, G.G. Parallel telescopic feeder for drilling vertical holes. Gor. shur. no.4:31 Ap '57. (MGRA 10:5) 1. Glevnyy mekhanik shakhty Novaya. (Rock drills)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00124(



"APPROVED FOR RELEASE: Wednesday, June 21, 2000



PETRENKO, G.G., inzh.

Loading ores without chutes with me "Krivbass 250" machine. Mekh. i avtom. proizv. 15 no. 5:18-19 My '61. (MIRA 14:5) (Krivoi Rog Basin--Mining machinery)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

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LUKASHEV, I.I., prof.; PETRENKO, G.G.

Etiology and pathogenesis of atrophic rhinitis in young pige. Veterinariia 37 no.9:36-37 S '60. (MIRA 14:11)

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

PETRENKO, G. G. Cand Vet Sci -- (diss) "The Diagnostic Significance" of Detecting Hemosiderocytes in Peripheral Blood **IXE at** Infectious Diseases of Horses." Khar'kov, 1957/. 15 pp 20 cm. (Min of Agriculture USSR, Khar'kov **XEX** Veterinary Inst), 100 copies (KL, 17-57, 98)

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PETRINKO. G. I. "Etude des equilibres de phases dans le systeme Al - Ag au noyen des methodes d'analyse thermique et de la conductibilite electrique"., Cerkasine, E. E. et <u>Petrenko, G. J.</u> (p. 1526) S0: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1940, Volume 10, no. 16.


CHERKASHIN, Ye. Ye.; PETRENKO, G. I.

" A Study of Phase Equilibria in the System Al--by the Method of Thermal Analysis and Electrical Conductivity, " Zhur. Obshch. Xhim., 10, No. 16, 1940. Inst. of Chem., Kher'kov State Univ. imeni Gor'kiy, Received 13 Merch 1940.

Report U-1610, 3 Jan 1952





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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001244
BUDNIKOV, Mikhail Sergeyevich, doktor tekhn. nauk, prof.; CHECHIK, Aron
Abramovich, kand. tekhn. nauk, dots.; OBOZNYY, Aleksey Favlovich,
kand. tekhn. nauk, dots.; FITRENKO, Grigoriy Mikhaylovich, dots.;
kand. tekhn. nauk, dots.; FITRENKO, Grigoriy Mikhaylovich, dots.;
KHAZAN,
AL'FEROVICH, Semen Zinov'yevich, kand. tekhn. nauk, dots.; KHAZAN,
Noisey Takovlevich, kand. tekhn. nauk, dots.; REZNICHENKO, 1.Ye.,
red.; NARIN'SKAYA, A.L., tekhn. red.
[Building techniques] Tekhnologiia stroitel'nykh protsessov. Kiev,
Gos. izd-vo lit-ry po stroit. i arkhit. USSR, 1961. (87 p.
(MIRA 14:12)
1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR
(for Budnikov).
(Building)



PETRENKO, G.M. [Petrenko, H.M.]

Experimental study of the forces of lateral friction of concrete surfaces against soil. Dop.AN URSR no.6:740-745 '60. (MIRA 13:7)

1. Kiyevskiy inzhenerno-stroitel'nyy institut. Predstavleno akademikom AN USSR F.P. Belyankinym [F.P. Bieliankinym]. (Friction) (Soil mechanics)

PERTERSIKO, Grigoriy Mikhaylovich; ALEKSANDROVSKIY, A., red.; IOAKIMIS, A., tekhn.red.
Shaft method for constructing deep columnar foundations] Shakhtayi and on the sposob ustroistve glubokikh stolbchatykh fundamentov. Kiev, Gos. isd-vo lit-ry po stroit. 1 arkhit. USSR, 1957. 125 p. (WHA 11:5) (Youndations)

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 Image: Comparison of the second s

PERFERICO, G.M., inchemer. Dilding concrete foundations for sub-stations without using forms. (MERA 7:12) (Electric substations) (Concrete construction)

PETHENKC, G. M.

FETRENKO, G. M.-- "A Shaft Method of Abutment of Deep Columnar Foundations A against Large Concerted Loads." Min Higher Education USBR, Kiev Engineering-Construction Inst., Kiev, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No. 35, 1955



APPROVED FOR RELEASE: Wednesday, June 21, 2000

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M. M. DASHEVSKI

19. M. $\mathcal{Y} A S \mathcal{Y} S \mathcal{Y} \mathcal{Y} S \mathcal{Y} \mathcal{Y}$ Some polychlore derivatives of accasphene. II. Hid, in AcOH 4 bars, at refus gave 1.15 g. 3.4.5 with 35 g. NaCs, 5 in AcOH 4 bars, at refus gave 1.15 g. 3.4.5 with 35 g. 3.4.5 with 34 g. 3.4.5

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001240

144 July



USER/Chemin	strj	v - Organic chemistry
Card 1/1		Pub. 116 - 17/30
Authors		Dashevskiy, M. M., and Petrenko, G. P.
Title	t	About 4,5-dichloroacenaphthene and its oxidation products
David a dd a - 9		
Periodical	. I	Ukr. khim. zhur. 21/3, 370-372, June 1955
Abstract		Ukr. khim. zhur. 21/3, 370-372, June 1955 A new method for the oxidation of 4,5-dichloroacenaphthene into 4,5-dichlo- ronaphthalic acid with a yield of 80 - 83% is briefly described. It was proven experimentally that the chlorination of acenaphthene with sulfuryl chloride in the presence of an aluminum chloride catalyst yields up to 75% of 4,5-dichloroacenaphthene plus small amounts of monochloroacenaphthene and tars. It was established that the yield of 4,5-dichloroacenaphthene- quinone does not exceed 52% of the theoretical. Four USSR references (1934-1952).
Abstract		A new method for the oxidation of 4,5-dichloroacenaphthene into 4,5-dichlo- ronaphthalic acid with a yield of 80 - 83% is briefly described. It was proven experimentally that the chlorination of acenaphthene with sulfuryl chloride in the presence of an aluminum chloride catalyst yields up to 75% of 4,5-dichloroacenaphthene plus small amounts of monochloroacenaphthene and tars. It was established that the yield of 4,5-dichloroacenaphthene- quinone does not exceed 52% of the theoretical. Four USSR references

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

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1915年1月1日

PETRENKO G.P. 4 Haleron substituted feminellitic scide. Af M. Disker-Haleron substituted feminellitic scide. Af M. Disker-Phateket for the science of the 160° gave the inide, m. 255-6.6°): 5-chloreheminelliffe. acid, m. 207°, forms sparingly sol, mono-2, sall for which at-7 the soly is 0.350 g. per 100 g. sola. (heating yikhis thu-ombydride, which formed the imide, m. 200-1.6°, for which the soly, at 15° is 0.14th g. per 100 g.): 4.6-dishlorehemi-mellitic acid, m. 226-7°; forms a disydrate; 4-bronobeani-mellitic acid, m. 198-201° (Ar sulf reported; imide, m. 267-5°, for which the soly, at 22° is 0.174 g. per 100 g.) (the free soly disydrate (soly, at 23° 1.03 a. per 100 g.), (here a sone K tali dibydrate (soly, at 23° 1.03 a. per 100 g.) (the free soid forms a meashydrode and an mode, m. 242°); 4.60-dibtomotemisedlike acid (by ouchstnen ad 2.1.5):(thormonaphthalic anhydrate), m. 105-7° (m.d. m. 375.7°). In oshilation the ring which is free of halogen is attacked; if halogen is present in both rungs of napht sale acid, that ring is attacked more rapidly, which costates the greatest as of halogen is present in both rungs of napht sale 1 till to a frame the ankyled, which benefit with stor in acid, that ring is attacked more tapidly which costants the groutest no. of hidsgen atoms. Transfer of hidsgen from β -to m-position in respect to CO_AII does not appear to affect the case of oxidation of these ring. 4-Hidsbernimellitic acids are much infer sol, in H_AO than the 5-isomers. Also in J_{a} (i.e., Ciem. U.S.S.R. 25, 1139-42(1955)(Eng. transla-tion). G. M. Konshport.

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APPROVED FOR RELEASE: Wednesday, June 21, 2000



APPROVED FOR RELEASE: Wednesday, June 21, 2000



DASHEVSKIY, M.M.; PETRENKO, G.P. Vapor phase oxidation of fluorene. Zhur.prikl.khim. 35 nc.3: (MIRA 15:4) (Fluorene) (Oxidation)

PETAENKC, G. F.

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Cand Chem Sci - (fist) "Faraffin exidation of acenaththere." Cdessa, 1961. 12 tp; (Firistry of Higher and Georgary Unclass t Education of the "krainian SSR, (dessa Folytechnic Inst); 200 copies; price not given; bibliography at end of text (10 entries); (KL, 5-61 sup, 177)

25394 \$/080/61/034/002/015/025 A057/A129 5 3300 Dashevskiy, M.M., Petronko, G.P. AUTHORS : Dehydrogenation of acenaphthene TITLE: PERIODICAL: Zhurnal Prikladnoy Khimii, v 34, no 2, 1961, 391-395 Vapor phase dehydrogenation of acenaphthene with and without catalyst was investigated. Various diluents (nitrogen or carbon dioxide gas, stasm, or sim) were used and a technically suitable satalytic method with a Zn/Al oatslyst was developed giving a yield of 90% of a preduct containing 95-96% abenarhtbylene. The latter is of interest for syntheses of copolymers with special properties and thus for the production of plastics. Sons of the first syntheses of acenaphthylans were made by K. Dziewonski, G. Rapaleki (Bef 164 Ber., 45, 249 (1912)), and K. Dzie-wonski, T. Stolybwo (Ref 12, Ber., 57, 1540 (1924)), while later investigations were surried out by J. Jones (Ref 13: J.Soc.Chem.Ind., 68, 225 Card 1/8

25394 5/080/61/034/002/015/025 A057/A129

Dehydrogenation of asenaphthene

surface (5-6 mm layer) and left to stand for 24 hrs at room temperature. Then 4-7 mm pieces were dried for 2-3 hrs at 125°C, and for 2-3 hrs at 600°C. After this the catalyst was treated for several hours with steam at the temperature of the experiment. The diagram of the device used for dehydrogenation experiments with this catalyst is presented in Fig 1. Hot water was passed through the cooler (5) to avoid obstruction of the outlet. The present authors consider it unnecessary to pass acenaphthene vapors with a corresponding diluent as it is suggested in the German patent 921989, CBI 5424 (1959). The second cooler was water-cooled. In each experiment 30 - 100 g acenaphthene were used and the duration varied from 15 - 120 min. Some of the obtained results are presented in Tat. 2. Considerable effect of temperature was observed (Fig 2). The drop in acenaphthylene content above 600°C is explained by an increase of side reactions, i.e., formation of naphthalene methyinaphthalene ets. An essential effect on denydrogenation is exercised by the contact time. There are 2 figures, 2 tables and 17 referencess 4 Soviet-bloo, 17 non-Soviet-bloc.

Card 3/8

APPROVED FOR RELEASE: Wednesday, June 21, 2000





PETRENKO, G.P.; TERENT'YEVA, G.N.

Determination of fluoremone and phthalic acid in the product of vapor-phase oxidation of fluorene. Zhur.anal.khim. 18 no.8: 1012-1015 Ag '63. (MIRA 16:12)

1. Odessa Polytechnical Institute.

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APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240



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SHISHKOV, A.I., kand.tekhn.nauk; KUR'YAN, A.I., kand.tekhn.nauk; PETRENKO, G.P., inzh.
Calculating the mechanical characteristics of an asynchronous motor considering the nonlinearity of the saturation throttle in stator circuits. Izv.vys.ucheb.zav.; gor.zhur. no.ll:171-178 '60. (MIRA 13:12)
1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy institut imeni Artema. Rekomendovana kafedrov gornoy elektrotekhniki Dnepropetrovskogo gornego instituta. (Electric motors, Induction)

sov/80-32-5-34/52 5(3) Petrenko, G.P., Dashevskiy, M.M. AUTHORS: The Oxidation of Acenaphthene to Naphthalic Anhydride TITLE: Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 5, pp 1126-1132 (USSR) PERIODICAL: The vapor-phase oxidation of acenaphthene to naphthalic anhydride is ABSTRACT: studied here. The oxidation was carried out by air at $320 - 435^{\circ}C$ over varadium catalysts and manganese dioxide. Vanadium pentoxide as catalyst produces a mixture of acenaphthilene with unreacted acenaphthene. At an increased air supply naphthalic anhydride may be present to the maximum amount of 29%. The addition of potassium sulfate to the catalyst raises its activity and with the increase of the temperature the yield of naphthalic anhydride rises sharply. Naphthalic anhydride is the principal product of the reaction, if the air supply is sufficient. The oxidation of acenaphthene over manganese peroxide leads to a yield of 28 - 30% acenaphthilene at 325°C. The highest yield of naphthalic anhydride is obtained with a catalyst of iron vanadate with potassium sulfate at 350 - 370°C and a volume ratio acenaphthene : air = 1 : 100. The time of contact is 2.9 sec. The yield of anhydride is 75 - 80% of the theoretical. Card 1/2
"APPROVED FOR RELEASE: Wednesday, June 21, 200 CLA-RDP86-00513R00124(
The Oxidation of Acenaphthene to Naphthalic Anhydride SOV/80-32-5-34/52
There are 3 graphs, 2 tables, 1 diagram and 16 references, 1 of which
is Soviet, 5 American, 4 Erglish, 3 German, 1 French, 1 Swiss and 1
SUEMITTED: January 8, 1958
Card 2/2

5 (3) Dashevskiy, M. M., Petrenko, G. P. SOV/75-14-3-26/29 AUTHORS: Quantitative Determination of Acenaphthylene (Kolichestvennoye TITLE: opredeleniye atsenaftilena) Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 3, PERIODICAL: **pp** 375-377 (USSR) The authors investigated several methods which are based **ABSTRACT:** either on the unsaturated constitution of the acenaphthylene or on its intense yellow coloration without having obtained satisfactory results. Finally a gravimetric method was found which is characterized by the fact that acenaphthylene forms a sparingly soluble polymer under the influence of strong acids (sulfuric acid with glacial acetic acid). Table 1 presents the determination results for mixtures of acenaphthylene and acenaphthene. The results which are not quite precise can be corrected by means of a calibration curve when strictly proceeding according to the analysis directions. Simpler is the colorimetric method in which the acenaphthylene is distilled rapidly in low absolute pressure (in order to avoid resinification) and investigated photometrically in the monochromator UM-2. A figure shows the Card 1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00124(Tretan UP an Quantitative Determination of Acenaphthylene SOV/75-14-3-26/29 dependence of the optical density on the concentration of the acenaphthylene. Table 2 presents the determination results which show a maximum error of 1 %. There are 1 figure, 2 tables, and 5 references, 2 of which are Soviet. ASSOCIATION: Odesskiy politekhnicheskiy institut (Odessa Polytechnical SUBMITTED: March 7, 1958 Card 2/2

507/105-55-9-9/34 Shafranov, V. P., Shishkov, A. I., Fursov, V. D., Petrenko, G. P. AUTHORS: Large-Scale Testing of an Overburden Stripping Dragline Excavator Having a New Electric Drive System (Promyshlennyye ispytaniya vskryshr.ogo kanatno-kovshovogo ekskavatora s TITLE: novoy sistemoy elektroprivoda) Elektrichestvo, 1958, Nr 9, pp 43 - 46 (USSR) PERIODICAL: Since 1946, dragline excavators of type BSb-4/40 (boom length 40 m, bucket capacity 4 cu.m) which are used in open pit coal and ore mining have been produced by the Soviet ABSTRACT: industry. Up to 1955, induction motors with phase rotors were used as a drive. However, a smooth starting or traking, and the flexibility required for changing load, could not be achieved with them. Therefore, production of an excavator of the same type but with a generatoremotor drive, the Generator being provided with three windings was taken up by the N vokramatorskiy mashinostroitel'nyy zavod (Novokrama. torskiy factory for machine construction). This, however, involved substantially higher costs of electric equipment, and made an increase of the output of the power transformer Card 1/3

Large-Scale Testing of an Overburden Stripping Dragline SOV/105-58-9-9/34 Excavator Having a New Electric Drive System

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necessary. Since 1957, these excavators have been manufactured with a new type of drive using induction motors. At the above-mentioned factory five of these excavators were produced in 1957, and in the same year one of these, viz., the excavator Nr 153, was tested under the direction of N.Ye.Kuvayev, university teacher at the department for mining electrical engineering of the association given below, in the Razdolskiy sernyy kombinat (Razdol sulphur trust). The main results of these tests are given here. As they show, the technical and operating data have been substantially improved by the new technical solutions found. New features were: Use of saturated reactors in the stator circuit of the reversible motor, inductive reactances in the rotor circuit of the main winch drive motor, and singlephase braking of that motor. There are 6 figures.

ASSOCIATION: Deepropetrovskiy gornyy institut (Deepropetrovsk Mining Institute)

SUBMITTED: January 22, 1958 Card 2/3

1.

APPROVED FOR RELEASE: Wednesday, June 21, 2000





















FETRENKO, P.F., kandidat tekhnicheskikh nauk. The UVO-1 machino for drying hydro peat. Torf.pron.33 no.4:20-22 '56. (MERA 9:9) 1.Vsesoyuznyy nauchno-issledovatel'skiy institut torfyanoy promyshlennosti. (Peat machinery)







CIA-RDP86-00513R00124(















CIA-RDP86-00513R001240

CIA-RDP86-00513R00124(













AGROSKIH, A.A.; ORIOOB'TEV, S.M.; PETRENEO, 1.4. Mfect of the weight of the bulk density of coal on the properties of the coke produced. Isv.AN SSSE Otd.tekh.namk no.2:205-214'47. (MIRA 6:12) 1. hergeticheskiy institut in. O.M. Krshishanovskogo Akademii nauk SSSE. 2. Predstavleno akademikom N.P.Chishevskin. (Ocal--Carbonisation)