

CHIGIRINSKIY, P.K.; LITVINOVA, I.P.; MIRSHENICHENKO, S.V.; YEREMENKO, I.D.

Alleviating the seasonal factors of work. Kons. i ev. prom. no. 1:  
33-36 J1 '63. (MIRA 16:9)

1. Konservnyy kombinat v Krymske.

ACC NR: AP6011194

SOURCE CODE: UR/0413/66/000/006/0018/0019

INVENTOR: Vasilenko, V. I.; Goshin, S. A.; Lyubchenko, N. I.; Miroshnichenko, S. Ye.

ORG: none

TITLE: A pipe rolling installation. Class 7, No. 179736

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 18-19

TOPIC TAGS: pipe, rolling mill

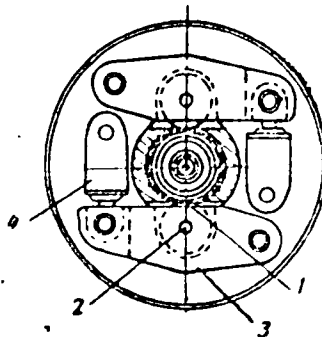
ABSTRACT: This Author's Certificate introduces: 1. An installation for rolling pipes using revolving rollers mounted in a yoke which rotates around the pipe. The productivity of the installation is increased by placing the roller axle in brackets which are turned by hydraulic cylinders and by putting the yoke in a rotating head equipped with a hydromechanical drive. 2. A modification of this installation with a rotating head mounted at each end of the pipe for simultaneous finishing.

UDC: 621.774.77

Card 1/2

L 30807-66

ACC NR: AP6011194



1--roller; 2--roller axle; 3--bracket; 4--hydraulic cylinder

SUB CODE: 13/

SUBM DATE: 11Mar64/

ORIG REF: 000/

OTH REF: 000

Card 2/27/64 LP

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133-18-011111-10112111111111

49-12-4/7

AUTHOR: Miroshnichenko, S.Z., Deputy Minister of the Ministry of Water Resources of the Tadzhik SSR

TITLE: Irrigation in Tadzhikistan During the Years of Soviet Regime (Irrigatsiya Tadzhikistana za gody Sovetskoy vlasti)

PERIODICAL: Gidrotekhnika i Melioratsiya, 1957, No. 11, pp. 11-14 USSR

ABSTRACT: The area under irrigation of the Tadzhik SSR increased during the period from 1926-1956 by more than 2.5 times, whereby the acreage used for the cultivation of cotton amounted to more than 170,000 hectares. All irrigation systems were rebuilt after the Civil War, and the majority of irrigation canals were equipped with concrete structures. In 1928, the organizations exploiting the Tadzhik water resources started to rebuild irrigation systems and canals: the Dzhoybar and Dzhilikul' canals in the Vakhshskaya valley; the Katta-Aryk, Chirik and Sangova system in the Shaartuzskiy district; the Janga and Kilyanchi system in the Kirovobod district; the head gate of the Shuroabad canal and the canal itself in the Aral' district as well as numerous other canals. Development of new irrigation systems was started in 1927. Construction of the largest

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Irrigation in Tadzhikistan During the Years of Soviet Regime

99-12-4/7

irrigation project was started in the Vakhshskaya valley in 1931, with the aim to irrigate an area of 95,000 hectares. In 1933, construction of the Vakhshskiy main canal was completed, and the following year the Kum-Sangirskiy and Dzhilikul'-Kafyrskiy branch canals were built. By 1956, 72,000 hectares in the Vakhshskaya valley were cropped. During 1939-1940, the Bol'shoy Ferganskiy and Bol'shoy Gissarskiy canals were constructed. Reconstruction of the old Vakhshskaya irrigation system was taken up in 1946, and in 1947 construction of the Unzha pumping stations was started. From 1948-1952 reconstruction of the main water intakes of the Kirovobad district was completed. By 1956, construction of the Nauskaya pumping stations on the Syr-Dar'ya was completed. Beginning from 1948, numerous new irrigation projects were planned, such as the irrigation of the Dal'verzinskaya Step', the mechanical irrigation of the Samgarskiy, Khodzha-Bakirganskiy and Ak-Gazinskiy plateaus, and the left side of the Vakhshskaya valley. Extensive use of modern equipment for construction and maintenance reduced manual work and increased efficiency. Large drainage projects were carried out in the Tadzhik republic during the years 1940-1956, when 84,000 hectares of former swamps and saline soils were prepared for irrigation. Assisted by the scientific

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Irrigation in Tadzhikistan During the Years of Soviet Regime 99-12-4/7

bureau of the Moskva Institute of Hydraulic Engineering imeni V.P. Williams (Moskovskiy institut inzhenerov vodnogo khozyaystva imeni V.P. Vil'yamsa), experiments with vertical drainage were conducted in 1957. During the past few years special attention was devoted to the study of irrigation in mountainous areas. Construction of the Piy#z canal in the Dzhirgatal' district was started. Construction of the Margidarskiy canal, which will supply water for 4,000 hectares of virgin soil in the Kolkhozchionskiy district, was started in 1957. Prospective planning calls for large irrigation projects to be carried out in the lowlands and plateaus of the Tadzhik SSR, the realization of which will enable to put additional 300,000 hectares of land under irrigation by 1970. There are 4 photographs.

ASSOCIATION: Ministry of Water Resources of the Tadzhik SSR.

AVAILABLE: Library of Congress

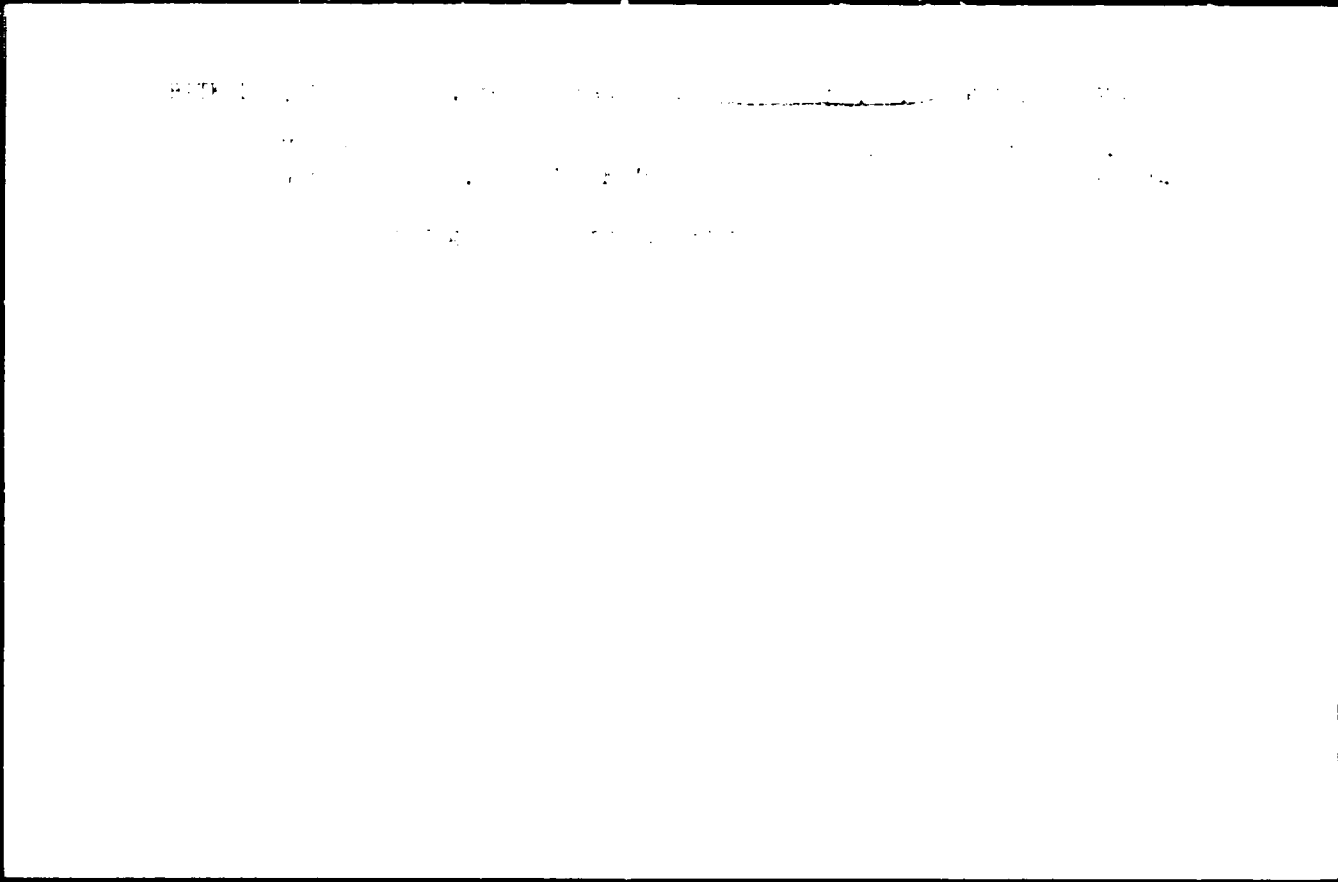
Card 3/3

BITKOLOV, N.Z., kand.tekhn.nauk; MIROSHNICHENKO, F.F., inzh.

Purification of exhaust fumes from diesel engines with chemical solutions. Izv. vys. uch. zav.; gor. zhur. 5 no.6:48-53 '62. (MIRA 15:9)

1. Leningradskiy ordena Lenina i ordena Troitskovo Krasnogo Znameni gornyy institut imeni G.V.Plekhanova. Rekomendovana kafedroy rudnichnoy ventilyatsii tekhniki bezopasnosti. (Gases--Purification) (Diesel engines)





SHABANOV, B.I.; TURCHANOV, A.A.; MAGNITSKIY, A.A., nauchnyy  
sozdavatel; MIROSHNICHENKO, F.K.; DAVYNOVA, F.I.; MAKHINA, A.A.,  
prepodavatel'

Communist labor paves the way to a bright future. Tekst prav.  
12 no.2:1-10 F. 194. (MIRA 17:3)

1. Nachal'nik Upravleniya tekstil'noy promyshlennosti Soveta narodnogo khozyaystva Moskovskogo i moskovskogo ekonomicheskogo rayona (for Shabanov).
2. Rukovoditel' laboratorii tekhnicheskoy organizatsii truda Tsentral'nogo nauchno-issledovatel'skogo instituta sherstyanoy promyshlennosti (TsNIIShersti) (for Turchaninov).
3. Tsentral'nyy nauchno-issledovatel'skiy institut khlopchatobumaznoy promyshlennosti (TsNIKhBI) (for Magnitskiy).
4. Nachal'nik pryadil'nogo tsekhna kommunisticheskogo truda kombinata "Trekhgornaya manufaktura" imeni Dzerzhinskogo (for Miroshnichenko).
5. Rukovoditel' brigady kommunisticheskogo truda Moskovskoy kamvol'noy fabriki imeni Karolina (for Davynova).
6. Moskovskiy finansovyy institut (for Makhina).

MIROSHNICHENKO, V.

Efficient technology of maritime canal dredging in conditions of strong currents. Mor. flot 23 no.7:34-36 JI '63.  
(MIRA 1:8)

1. Rukovoditel' gruppy proyektirovaniya morskikh kanalov Chernomornii proyekta.

MIROSHNICHENKO, V. [Miroshnychenko, V.], inzh.-stroitel'

Arched buildings made of slag concrete. Sil'. bud. 12 no. 1:  
7-8 Ja '62. (MIRA 16:1.)

1. Kupyanskoye rayonnoye otdeleniye "Sil'gosp tekhniki."

MIROSHNICHENKO, V.

Methods for exterminating the shield bug *Eurygaster integriceps* during harvesting. *Zemledelie* 26 no.1: 78-80 Ja'64. (MIRA 17:5)

1. Stavropol'skiy nauchno-issledovatel'skiy institut sel'skogo khozyaystva.

1. MIROSHNICHENKO, V.A.
2. USSR (600)
4. Hydraulic Presses
7. Valuable initiative. Vin.SSSR No. 1 1953.

9. Monthly List of Russian Accessions. Library of Congress. April 1953.

1. MIROSHNICHENKO, V. A
2. USSR (600)
4. Bottling Machinery
7. Expansion cork holder for semi-automatic corking machines. Vin. SSSR 12 no. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

USSR/Chemical Technology. Chemical Products and Their Application -- Fermentation  
Industry. I-27

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6485

Author: Miroshnichenko, V. A.

Institution: None

Title: Machine for Batching of Liqueur

Original

Publication: Vinodeliye i vinogradarstvo SSSR, 1953, No 7, 55-56

Abstract: No abstract

Card 1/1



OBRUCHEV, S.V.; MIROSHNICHENKO, V.A.; BUYANTUYEV, B.R., red.; MISNIKOV,  
V.V., tekhn.red.

[The mineral spring "Nilova Pustyn" and its therapeutic importance]  
Mineral'nyi istochnik "Nilova pustyn'" i ego lechebnoe znachenie.  
Ulan-Ude, Buriatskii kompleksnyi nauchno-issl.in-t, 1959. 31 p.  
(MIRA 14:1)

(Buryat-Mongolia--Mineral waters)

TARAN, I.F.; RUDNEV, M.M.; MIROSHNICHENKO, V.A.

Role of the gerbils *Meriones meridianus* Pall. and *Meriones tamariscinus* Pall. in the preservation and spread of brucellosis. Zhur. mikrobiol., epid. i immun. 33 no.3:127-132 Mr '62. (PIFA 15:2)

1. Iz Nauchno-issledovatel'skogo protivochumnogo instituta Kavkaza i Zakavkaz'ya.

(BRUCELLOSIS) (GERBILS)

MIROSHNICHENKO, V.A.

Passage with the amniotic fluid of a foreign body which penetrated the uterine cavity through the anterior abdominal wall. Akush. i gin. 32 no.6:89 N-D '56. (MIRA 10:11)

1. Iz rayonnoy bol'nitsy (glavnyy vrach V.N.Zhukov) Psebay Krasnodarskogo kraya.

(UTERUS--FOREIGN BODIES)

MIROSHNICHENKO, V.A.

Invagination of sigmoid colon during delivery. Akush. i g.ig.  
33 no.2:86-87 Mr-Ap '56. (MLBA 9:7)

1. Iz Psebayskoy rayonnoy bol'nitsy (glavnyy vrach V.N.Zhukov)  
Krasnodarskogo kraya.  
(INTESTINES--INTUSSUSCEPTION) (LABOR (OBSTETRICS))

MIROSENICHENKO, V.A.

A true single cornu cutaneum. Khirurgiia no.12:87-89 '61.

(MIRA 15:11)

1. Iz khirurgicheskogo otdeleniya (zav. - kand.med.nauk P.N. Sholom) Krasnodarskoy gorodskoy bol'nitsy No.3 (glavnyy vrach L.A. Modenov).

(HORNS, CUTANEOUS)

YELIZAROV, D.A.; SHOLOM KRASHINSKIY, V.S.

**Neocoloplasty** Following the resection of the left half of the large intestine. Kairuzhila 34 n. 1971-72. 36 p. 114.

1. Iz 1-go kairuzhinskogo gos. univ. med. i znan. ser. 1, kn. 1, 1971. Sholoml Krashinskiy i yegorovskiy D. A. (1971) Neocoloplasty (D. A. Kushin).

LYUBIMOV, Nikolay Georgiyevich; SUROVA, Vera Arkhipovna;  
MIROSHNICHENKO, Vadim Dmitriyevich

[Lamp room attendant] Rabochii lampovoi. Moskva, Nedra,  
1965. 151 p. (MIRA 18:7)

MIROSHNICHENKO, Vadim Dmitriyevich; GIL'MAN, S.E., red. izd-va;  
LAVRENT'YEVA, L.G., tekhn. red.; MESHCHANKINA, I.S.,  
tekhn. red.

[Gas inspector; handbook for gas inspectors and workers assigned to perform their duties] Gazomershchik; posobie dlia gazomershchikov i rabochikh, ispolniaiushchikh ikh obiazanosti. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961. 143 p. (MIRA 15:2)  
(Mine gases) (Mine ventilation)



ANDREYEV, L.L.; VAKHMAN, V.I.; CHEPURIN, P.I.; MIROSHNICHENKO, V.F.;  
BOGACHEV, A.S.; VOL'VACH, Ye.Ye., agronom-entomolog; CHEBOTAREV,  
M.Ya., agronom-entomolog (Georgiyevskiy rayon); ZGADOV, G.A.,  
agronom po zashchite rasteniy

Killing shield bugs in combines. Zashch.rast.ot verd. 1 bol.  
7 no.6:30-31 Je '62. (MIR 1962:1.)

1. Zaveduyushchiy Severo-Kavkazskim opornym punktom Vsesoyuznogo  
instituta zashchity rasteniy (for Andreyev). 2. Zamestitel' direktora,  
glavnyy agronom sovkhoha "Kurskoy" (for Vakhmar). 3. Zamestitel'  
direktora, glavnyy agronom oporno-pokazatel'nogo sovkhoha "Obl'-  
nenskiy" (for Chepurin). 4. Glavnyy inzh. sovkhoha "Kurskiy" (for  
Bogachev). 6. Severo-Kavkazskiy opornyy punkt Vsesoyuznogo instituta  
zashchity rasteniy (for Vol'vach). 7. Sovkhoz "Starodubskiy"  
(for Zgadov).

(Stavropol Territory--Wheat--Diseases and pests)  
(Stavropol Territory--Eurygasters)

FILIPPOV, I.N.; GUNIN, I.V.; Primalni uchastiyei: DABAGYAN, N.P.; CHETVERIKOV, A.V.; MIROSHNICHENKO, V.G.; FRADIN, M.D.; PAVLOVSKIY, V.Ya.; FIL'CHAKOVA, V.A.; ALEKSANDROVA, L.A.; DUBROVIN, P.S.

Investigating the buckling of webs on lightweight I-beams.  
Stal' 23 no.10:915-918 0 '63. (MIRA 16:11)

1. Ukrainskiy institut metallov. 2. Ukrainskiy institut metallov (for Dabagyan, Chetverikov, Miroshnichenko). 3. Zavod "Azovstal'" (for Fradin, Pavlovskiy, Fil'chakova, Aleksandrova, Dubrovin).

MIROSHNICHENKO, Vitaliy Georgiyevich [Miroshnychenko, V.H.];  
KOLYADKIN, V., red.; MEYEROVICH, S. [Meierovych, S.],  
tekhn.red.

[Two years in Vietnam; engineer's notes] Dva roky u  
V'ietnami; notatky inshenera. Kyiv, Derzh.vyd-vo polit.  
lit-ry URSR, 1959. 42 p. (MIRA 14:2)  
(Vietnam, North--Description and travel)

MIROSHNICHENKO, V.G.

Device for knitting half wool socks with capren thread reinforcement.  
Obm. tekhn. opyt. [MLP] no.35:5-7 '56. (MIRA 11:12)  
(Knitting machines) (Hosiery)

MIROSHNICHENKO, V.G.

Change of direction of the yarn and fixing brake disks on MS-64  
machines. Obm. tekhn. opyt. [MLP] no.35:11-12 '56. (MIRA 11:12)  
(Knitting machines)

MIROSHNICHENKO, V.G.

Mechanism for fixing elastic in drawers. Obm. tekhn. opyt. [MLP]  
no.35:22 '56. (MIRA 11:12)  
(Sewing machines--Attachments)

(A)

L 11652-66

EPA/EWT(L)/EWT(M)/EWP(L)/EPF(N)-2/T/ETC(M)

WW/DJ

ACC NR: AF6002954

SOURCE CODE: UR/0286/65/000/024/0125/0125

INVENTOR: <sup>4/4</sup> Bekharev, A. P.; <sup>4/4</sup> Kislov, V. G.; <sup>4/4</sup> Zhitnikov, Ye. S.; <sup>4/4</sup> Miroshnichenko, V. G.;  
Labotorin, V. A.

ORG: none. <sup>4/4</sup>

TITLE: Fuel pump <sup>4/4</sup> for internal combustion engines. <sup>2/1</sup> Class 46, No. 177229 (announced  
by Noginsk Fuel Equipment Factory (Noginskiy zavod toplivnoy apparatury) <sup>4/4</sup> 4/1  
B

SOURCE: <sup>4/4</sup> Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 125

TOPIC TAGS: fuel pump, internal combustion engine

ABSTRACT: The proposed fuel pump contains a cylindrical piston which moves inside a sleeve and which has radial ports emerging from the upper part of the control grooves. To increase the piston's angle of rotation in order to increase the control



Fig. 1. Fuel pump

1 - Piston; 2 - radial ports; 3 - control grooves.

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UDC: 621.43.038.5

L 11652-66

ACC NR: AP6002954

range, the grooves are made straight along a radius greater than the radius of the piston (see figure). Orig. art. has: 1 figure. [TN]

SUB CODE: 21/ SUBM DATE: 15Jan65/ ATD PRESS: 4175

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TRISHEVSKIY, I.S., kand.tekhn.nauk, MIROSHNICHENKO, V.I., inzh.

Bent shapes for the mining industry. Gor.zhur. no.4:54-55 Ap  
'62. (MIRA 15 4)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov.  
(Rolling (Metalwork))

KURILKO, V.I.; MIROSHNICHENKO, V.I.

Reflection of electromagnetic waves by a moving plasma. Zhur.  
tekh.fiz. 32 no.7:803-810 J1 '62. (MIRA 15:8)

1. Fiziko-tekhnicheskiy institut AN USSR, Khar'kov.  
(Electromagnetic waves) (Plasma (Ionized gases))

TRISHEVSKIY, I.S., kand.tekhn.nauk (Khar'kov); MIROSHNICHENKO, V.I., inzh.  
(Khar'kov); POROSHIN, B.V., inzh. (Khar'kov)

Use of bent sections in machinery building for transportation.  
Zhel.dor.transp.44 no.3:41-42 Mr '62. (MIRA 15:3)  
(Railroads--Cars--Design and construction)

S/185/01/006/003/007/010

0208/0302

24.2120(1538, 3717, 4216)

AUTHORS: Kurylko, V.I. and Miroshnychenko, V.I.

TITLE: Reflection of electromagnetic waves by a plasma

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 3, 1961,  
415-416

TEXT: By reflecting electromagnetic waves on moving objects, it is possible to increase their amplitude and frequency. (Ref. 1: Ya. B. Fainberg and V.S. Tkalych, Zvit FTI AS UkrSSR, no. 1021, 1955, ZhTF, 29, 491, 1959), (Ref. 3: Ya. B. Fainberg, Atomnaya energiya, 6, 431, 1959). Ya. B. Fainberg noted (in Ref. 3: Op. cit) that this effect can be considerably increased with non-relativistic velocities, by reducing the phase velocity of the electromagnetic waves. For reflection, a plasma is used which moves in a waveguide for slow (non-relativistic) waves. In Refs. 1 and 2 (Op. cit) the corresponding calculations were made, but the temperature of the plasma was not taken into account nor the space dispersion related to it. As under actual conditions the temperature is not zero.

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Reflection of electromagnetic waves... S/185/61/006/003/007/010  
D208/D302

space dispersion occurs (it becomes very notable at frequencies  $\omega \sim \frac{e|H_0|}{mc}$ ). In the present study the temperature of the plasma is taken into account. The electromagnetic wave is reflected by a plasma which moves with velocity  $\vec{V}$  along a constant magnetic field  $H_0$  z, in a dielectric with given  $\epsilon$  and  $\mu$  (without dispersion). In a system in which the plasma is at rest and the dielectric moves, the electromagnetic field in the plasma is described by the equations (Ref. 7: V.I. Kurylko, ZhTF, 31, 70, 1961):

$$E'_1 + a_1 E'_2 + a_2 E'_3 = \int_0^{\xi} d\xi' f(\xi') \{ K_1(\xi - \xi') + \rho K_2(\xi + \xi') \}$$

$$\frac{\omega^2 \epsilon \mu}{4\pi} a_1 = \frac{2\epsilon(\mu - 1)\epsilon_0}{1 - \epsilon^2 \mu^2} a_2 = \frac{a^2 \mu (1 - \epsilon^2 \mu^2)}{4(1 - \epsilon^2 \mu^2)}$$

$$K_1(\xi) = -i \frac{\omega^2 \pi^2 \mu (1 - \epsilon^2 \mu^2)}{\omega^2 \epsilon \mu (1 - \epsilon^2 \mu^2)} \int_0^{\xi} \frac{dv_1}{v_1} \exp \left\{ -\frac{v_1^2}{\beta^2} - \frac{i(1 \pm \epsilon \mu)}{v_1} \xi \right\}$$

$$x = \frac{\omega z}{c}, \quad \beta c = v, \quad m \omega^2 = 4\pi n_0 e^2$$

$$\omega m c^2 \mu = e H_0$$

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Reflection of electromagnetic waves

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$f_0 \cdot \frac{n_0 v_0^{-3}}{2\pi} \exp\left\{-\frac{v_0^2}{2} - \frac{v^2}{2}\right\}$  is the velocity distribution of the electrons of the plasma,  $\bar{p}$  is a factor which shows the proportion of mirror-reflected electrons assuming that

$$E_+(x < 0) = 0 \text{ and } F_+(x > 0) = 0 \text{ where } F_+(x) = \int dx E_+(x)$$

$\{K_+(|x - x'|) + pK_+(|x + x'|)\}$  we obtain for the Fourier components  $\mathcal{E}_+(t)$  and  $F_+(t)$  of  $E_+(x)$  and  $F_+(x)$  a system of equations which amounts to the Hilbert problem for two functions:

$$F_+(t) = -\frac{1}{2} [E_+(0) + (a_1 + it) E_+(0)] + [a_2 - t^2 - a_1 it - k_+(t)] F_+(t) - pk_+(t) \mathcal{E}_+(-t) \quad (2 a)$$

$$F_+(-t) = -\frac{1}{2} [E_+(0) + (a_1 - it) E_+(0)] + [a_2 - t^2 + a_1 it - k_+(t)] F_+(t) - pk_+(t) \mathcal{E}_+(t) \quad (2 b)$$

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Reflection of electromagnetic waves

This simplifies if  $p = 0$  and  $p = 1$ . In the first case the equations are independent and in the second case we obtain

$$F_{\pm}(t) + (a_2 - t^2 + a_1 t) E_{\pm}(-t) = a_{\pm} t + b_{\pm} \quad (3 a)$$

$$F_{\pm}(t) + (a_2 - t^2 + a_1 t) E_{\pm}(t) = a_{\pm} t + b_{\pm} \quad (3 b)$$

Hence

$$\frac{b_{\pm} + E_{\pm}(0) + a_1 E_{\pm}(0)}{a_{\pm}} = E_{\pm}(t) = \frac{\Lambda_{\pm}}{\lambda_{\pm}} E_{\pm}(t) \quad (4)$$

$$b_{\pm} = E_{\pm}(0) + a_1 E_{\pm}(0), \quad \lambda_{\pm} = a_2 - t^2 + a_1 t = k_{\pm}(t)$$

If the plasma is at rest or in the absence of the dielectric,  $a_1 = 0$ . In that case (4) becomes an algebraic equation for the Fourier components  $E_{\pm}(t) + E_{\pm}(-t)$  of the field  $E_{\pm}(x)$ , which corresponds to  $E_{\pm}(x < 0) = E_{\pm}(x > 0)$ . (Ref. 6: V. D. Shafranov ZhETF, 34, 1475, 1958) Solving (4) we obtain:

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Reflection of electromagnetic waves

$$E_{\pm}(t) = [E_{\pm}(0) + a_1 E_{\pm}(0) \dots] H(t) \quad \frac{H(t)}{2} \frac{dt \cdot H^{-1}(t)}{(t) [\Lambda_+(t) \Lambda_-(t)]^{1/2}}$$

$$H(t) = \exp \frac{1}{2\pi i} \int_{-\infty}^{\infty} (t - t')^{-1} \ln \left( \frac{t + it'}{t - it'} \right) dt' \quad (5)$$

Knowing  $E_{\pm}(t)$ , the field  $E_{\pm}(x)$  can be calculated as well as the coefficient of reflection

$$R_{\pm} = \frac{1 - z_{\pm}}{1 + z_{\pm}} \cdot z_{\pm} + \frac{E_{\pm}(0)}{H_{\pm}(0)} = \frac{(1 - z_{\pm}^2)}{1 + z_{\pm}^2} = \frac{a_1}{2} + \frac{E_{\pm}(0)}{E_{\pm}(0)}$$

where  $\frac{E_{\pm}(0)}{E_{\pm}(0)}$  can be found from Eq. (5) of Ref. 4:

$$E_{\pm}(0) = E_{\pm}(0) + a_1 E_{\pm}(0) = I_{\pm}$$

$$I_{\pm} = \frac{1}{2} \int_{-\infty}^{\infty} \frac{dt \cdot H(t)}{[\Lambda_+(t) \Lambda_-(t)]^{1/2}} \quad (6)$$

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Reflection of electromagnetic waves . S/185/61/006/003/007/010  
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Thus, Eq. (6) makes it possible to obtain the coefficient of reflection for any parameters of the plasma and of the dielectric, space dispersion being taken into account. The authors express their thanks to Ya. B. Fainberg and G. Ya. Lyubars'kyy. There are 7 references: 5 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: M. Lampert, Phys. Rev. 102, 299, 1959; and G. Reuter, E. Sondheimer, Proc. Roy. Soc., 195, 336, 1949.

ASSOCIATION: Fizyko-tekhnichnyy instytut AN USSR (Physicotechnical Institute, AS UkrSSR), Khar'kov

SUBMITTED January 3, 1961

Card 6/6

ACCESSION NR: AT4036053

S/2781/63/000/003/0161/0164

AUTHORS: Kurilko, V. I.; Miroshnichenko, V. I.

TITLE: Concerning the instability of high-frequency heating of a plasma

SOURCE: Konferentsiya po fizike plazmy\* i problemam upravlyayemogo termoyadernogo sinteza, 3d, Kharkov, 1962. Fizika plazmy\* i problemy\* upravlyayemogo termoyadernogo sinteza (Plasma physics and problems of controlled thermonuclear synthesis); doklady\* konferentsii, no. 3, Kiev, Izd-vo AN UkrSSR, 1963, 161-164

TOPIC TAGS: plasma instability, plasma heating, cyclotron resonance phenomena, ion beam, kinetic gas theory, plasma oscillation, micro-wave plasma

ABSTRACT: The stability of an ion cyclotron wave in a plasma is considered, with the analysis limited to a wave propagating along

Card 1/2

MIROSHNICHENKO, V.I. [Miroshnychenko, V.I.]

Nonlinear theory of the effect of polarization losses of energy  
by a bunch of particles in a plane. Ukr. fiz. zhur. 8 no.11:1268-  
1269, 1963. (UFA 1963)

1. Fiziko-tekhnicheskii institut A. UkrSSR, Kharkov.

ACCESSION NR: AT4036053

S/2781/63/000/003/0161/0164

AUTHORS: Kurilko, V. I.; Miroshnichenko, V. I.

TITLE: Concerning the instability of high-frequency heating of a plasma

SOURCE: Konferentsiya po fizike plazmy\* i problemam upravlyayemogo termoyadernogo sinteza, 3d, Kharkov, 1962. Fizika plazmy\* i problemy\* upravlyayemogo termoyadernogo sinteza (Plasma physics and problems of controlled thermonuclear synthesis); doklady\* konferentsii, no. 3, Kiev, Izd-vo AN UkrSSR, 1963, 161-164

TOPIC TAGS: plasma instability, plasma heating, cyclotron resonance phenomena, ion beam, kinetic gas theory, plasma oscillation, micro-wave plasma

ABSTRACT: The stability of an ion cyclotron wave in a plasma is considered, with the analysis limited to a wave propagating along

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ACCESSION NR: AT4036053

constant magnetic fields. From the dispersion equation for the longitudinal plasma oscillations transversely to the magnetic field, excited by an ion beam, it is found by a kinetic analysis that high-frequency instabilities occur in such a plasma and the growth increments are determined. In addition, instabilities with characteristic times which are much longer than the period of the high-frequency wave can be developed during propagation of an ion cyclotron wave in the plasma. The growth increment for such instabilities is also determined. "In conclusion the author thanks Ya. B. Faynberg for suggesting the topic and help in the work, and V. D. Shapiro for valuable discussions. Orig. art. has: 5 formulas.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 21May64

ENCL: 00

SUB CODE: ME

NR REF SOV: 007

OTHER: 002

Card 2/2

MIROSHNICHENKO, V.I.

Nonlinear theory of the effect of laser energy losses by a  
bunch of charged particles in a plasma. *Izv. Akad. Nauk SSSR Ser. Fiz. Mat. Nauk*,  
8:1137-1145, Apr 1974. (XIII 17:2)

1. Fiziko-tekhnicheskiy institut im. P. N. Lebedeva, Moskva.

ACCESSION NR: AP4042943

S/0057/64/034/008/1537/1540

AUTHOR: Miroshnichenko, V.I.

TITLE: On the nonlinear theory of the Cerenkov effect energy losses of a charged particle bunch in a plasma

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.8, 1964, 1537-1540

TOPIC TAGS: confined plasma, charged particle beam, Cerenkov effect

ABSTRACT: The author discusses the energy loss by Cerenkov radiation of a disk-shaped charged particle bunch moving in a plasma confined within a metallic waveguide of circular section in the presence of a longitudinal magnetic field. The calculation is performed in the "quasistatic" approximation in which the magnetic field of the wave can be ignored, and the motions of the ions are neglected. The equations for the interactions among the plasma electrons, the electric field, and the moving charge are treated by a perturbation method based on an expansion in powers of  $\lambda = 2ge/mV(f_0^2 + f_H^2)^{1/2}$ , where  $g$  is the charge in the particle bunch,  $V$  is the velocity of the bunch,  $f_0$  is the Langmuir frequency,  $f_H$  is the Larmor frequency, and  $e$  and  $m$  are the charge and mass of the electron. The first order (linear) equations

Card 1/2

ACCESSION NR: AP4042948

were solved with the aid of a Fourier transform, and the result is given. The second order equations are written and the general form of their solution is indicated. The rate of energy loss from the disk charge was calculated from the second order axial component of the electric field. The result is given, but with one coefficient left undetermined. The rate of energy loss for a positively charged particle bunch is different from that for a negatively charged one. The energy loss decreases if the strength of the longitudinal magnetic field is increased. "In conclusion I express my gratitude to Ya.B.Faynberg for suggesting the topic and to V.I.Kurilko for assistance in the work." Orig.art.has: 12 formulas.

ASSOCIATION: Fiziko-tehnicheskii institut AN USSR, Khar'kov (Physico-technical Institute, AN USSR)

SUBMITTED: 06Apr64

ENCL: 00

SUB CODE: ME,EM

NR REF COUN: 001

OTHER: 00



L 13451-66 EWT(d)/EWT(1)/EPC(k)-2/ETC(F)/EPF(n)-2/ENG(m) IJP(c) GG/AT/WG-2

ACC NR: AP6002437

SOURCE CODE: UR/0057/65/035/012/2154/2159.

AUTHOR: Kondratenko, A.N.; Miroshnichenko, V.I.

ORG: none

TITLE: Kinetic theory of the passage of electromagnetic waves through a plasma layer. 1. 61  
21.44

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 12, 1965, 2154-2159

TOPIC TAGS: ~~plasma~~ electromagnetic wave, electromagnetic wave reflection, electromagnetic wave absorption, plasma surface, ~~electron-temperature~~, electron reflection, kinetic equation

ABSTRACT: The authors calculate the reflection, transmission, and absorption of plane <sup>21.44</sup>electromagnetic waves incident at an arbitrary angle on an infinite plane layer of plasma of finite thickness, the incident waves being polarized with the electric vector normal to the plane of incidence. The calculations are based on Maxwell's equations and the kinetic equation for the deviation from Maxwellian form of the distribution function for the plasma electrons. Ion motions are neglected. There are imposed on the distribution function boundary conditions which correspond to assumption of a fixed probability  $p$  for specular reflection of a plasma electron arriving at the plasma - vacuum boundary. The fate of the fraction  $1 - p$  of the electrons that are not reflected is not discussed. With the aid of these boundary conditions an ex-

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Card 1/2

UDC: 538.566

L 13451-66

ACC NR: AP6002437

pression is derived for the current in the plasma, and a system of coupled equations is derived for the spatial Fourier components of the electric field within the plasma. These equations are solved for the two limiting cases when the distance traversed by a plasma electron during a period of the wave owing to the thermal velocity is very large or very small compared with the thickness of the plasma layer, and expressions are obtained for the reflection, transmission, and absorption coefficients of the electromagnetic waves. These coefficients depend significantly on the electron reflection probability  $p$ . For the case when the plasma layer is thin (or the electron thermal velocity is high) and the electron reflection probability  $p$  is not too close to unity, the reflection and transmission coefficients of the incident wave are derived directly from the expression for the current. The results derived in this case can be obtained phenomenologically in the hydrodynamic approximation by employing an electron collision frequency equal to the ratio of the electron thermal velocity to the thickness of the plasma layer. Orig. art. has: 40 formulas.

SUB CODE: 20

SUMM DATE: 27Jan65

ORIG. REF: 014

OTH REF: 000

Card

2/2

L 22292-66 EPF(n)-2/EWT(d)/EWT(m)/ETC(m)-6/T/EWP(f) WW/WE  
ACC NR: AP6009813 (v) UR/0096/66/000/004/0043/0048

86  
8

AUTHOR: Polyatskin, M.A. (Candidate of technical sciences); Shatil', A.A. (Candidate of technical sciences); Khaynovskiy, Ya.S. (Candidate of technical sciences); Murashko, V.D. (Engineer); Miroshnichenko, V.I. (Engineer)

ORG: TsKTI; KhtGZ

TITLE: Mixing and combustion processes // in the combustion chamber of a gas turbine installation

SOURCE: Teploenergetika, no.4, 1966, 43-48

TOPIC TAGS: gas turbine engine, combustion chamber test, aerodynamic research, natural gas, combustion mechanism, flow structure

ABSTRACT: The article reports the results of aerodynamic investigations of an experimental combustion chamber with three different types of burners. The measurements were made with a three channel cylindrical water cooled probe, at sections located at relative distances L/D from the burner equal to 0.48, 1.1, 1.72, and 2.2 (D is the diameter of the chamber). The fuel was natural gas. Data on the axial mass velocities and the composition of the products of combustion make it possible to establish the distribution of the mass velocities of the fuel being fed over the cross section of the chamber. Calculation of the local values of the mass velocities of the fuel was carried out with the approximate formula:

Card 1/2

UDC: 621.438.621.43.056.001.5

L 22292-66

ACC NR: AP6009813

0

$$B_1 = \frac{w_1 \rho_1}{L_0 \alpha_1}, \text{ кг/м}^3 \cdot \text{сек}, \quad (1)$$

where  $w_1$  and  $\rho_1$  are the local velocity and density of the gas;  $\alpha_1$  are the local values of the excess air coefficients;  $L_0$  is the stoichiometric coefficient (for the gas used,  $L_0 = 16.4 \text{ kg/kg}$ ). The experimental form of the flame in the combustion chamber is illustrated in a series of figures. Other figures show the schematic mixing picture in the combustion chamber. In general, the experimental results indicate that in the combustion the main mechanism is convective transfer which, in turn, is determined by the aerodynamic structure of the flow. Orig. art. has: 5 formulas and 7 figures.

SUB CODE: 21/3/SUBM DATE: none/ ORIG REF: 013

Card 2/2 not

L 41753-66 EWT(1) IJP(c) GG/AT

ACC NR: AP6011911

SOURCE CODE: UR/0141/66/009/002/0272/0278

AUTHOR: Kondratenko, A. N.; Miroshnichenko, V. I.

ORG: none

TITLE: Kinetic theory of passage of an electromagnetic wave through a plasma layer placed in a magnetic field

---

SOURCE: IVUZ. Radiofizika, v. 9, no. 2, 1966, 272-278

TOPIC TAGS: electromagnetic wave, plasma electromagnetic wave, plasma magnetic field, *ELECTRON REFLECTION, PLASMA WAVE ABSORPTION*

ABSTRACT: Reflection and transmission are considered of a circularly polarized electromagnetic wave arriving normally to the boundary of a plasma layer placed in a cross-oriented (perpendicular) constant magnetic field. Reflection, transmission, and absorption factors are determined for these cases: (1) Specular

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UDC: 621.371.182

L 41753-66

ACC NR: AP6011911

reflection of electrons and ions from the layer boundaries; the plasma absorptive power is proportional to the cube of the thermal velocities of electrons and ions; (2) Arbitrary reflection of electrons and ions from the layer boundaries; a slight spatial dispersion; the absorptive power is proportional to the thermal velocity of electrons and ions; (3) R-f waves with the condition  $\omega \ll v_{Te}, |\omega \pm \omega_{He}| \ll v_{Te}$  and with the ion motion neglected; (4) L-f waves. Orig. art. has: 55 formulas.

SUB CODE: 20 / SUBM DATE: 07Jun65 / ORIG REF: 004

Card 2/2 *JK*

L 45263-66 EWT(1)  
ACC NR: AP6026930

IJP(c) GG/AT

SOURCE CODE: UR/0141/66/009/004/0666/0674

68  
67  
B

AUTHOR: Miroshnichenko, V. I.

ORG: none

TITLE: Kinetic theory of reflection of an electromagnetic wave from a moving plasma

SOURCE: IVUZ. Radiofizika, v. 9, no. 4, 1966, 666-674

TOPIC TAGS: electromagnetic wave, moving plasma, absorption coefficient, reflection factor, wave reflection, electron reflection

ABSTRACT: The reflection of an electromagnetic wave with oblique incidence on a half space filled with plasma is investigated. The plasma moves in a medium which permits propagation of slow waves ( $\omega < \omega_p$ ). Under the assumption of a purely specular and purely diffuse reflection of electrons from the boundary, general expressions for fields penetrating the plasma are obtained. Expressions for impedances and reflection factors are derived. For limit cases of weak and strong spatial

Card 1/2

UDC: 533.925:621.371.162

1 45263-66  
ACC NR: AP6026930 /

dispersion, the approximate values of reflection factors and absorption coefficients are calculated. The author expresses his gratitude to Ya. B. Faynberg for discussing the results of the work. [DW]

SUB CODE: 20,09/ SUBM DATE: 20Nov65/ ORIG REF: 010/ OTH REF: 002

Card 2/2 *hsh*



I 21721-66 EWT(d)/FSS-2/EWT(1)/ETC(f)/EPE(n)-2/EMG(m) LJP(c) SG/AT  
 ACC NR: AP6004874 SOURCE CODE: UR/0057/66/036/001/0025/0032

AUTHOR: Kondratenko, A.N.; Miroshnichenko, V.I.

ORG: none

TITLE: Kinetic theory of the passage of electromagnetic waves through a plasma layer.

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 1, 1966, 25-32

TOPIC TAGS: plasma electromagnetic wave, electromagnetic wave reflection, electromagnetic wave absorption, plasma surface, electric polarization, electron plasma, kinetic equation, distribution function, electric field, absorption coefficient

ABSTRACT: In the previous paper of this series (ZhTF, 35, 2154, 1965/see Abstract AP6002437/) the authors presented calculations, based on Maxwell's equations and the kinetic equation for the deviation from Maxwellian form of the distribution function for the plasma electrons, of the reflection, transmission, and absorption of plane electromagnetic waves incident at an arbitrary angle on an infinite plane layer of plasma of finite thickness, the incident waves being polarized with the electric vector normal to the plane of incidence. In the present paper they present similar calculations for incident waves polarized with the electric vector in the plane of incidence. There are imposed on the distribution function boundary conditions which correspond to assumption of a fixed probability  $p$  for specular reflection of a plasma

Card 1/2

UDC: 933.9

L 21721-66

ACC NR: AP6004874

2

electron arriving at the plasma - vacuum boundary, an expression is derived for the current in the plasma, and a set of coupled equations is obtained for the spatial Fourier components of the electric field within the plasma. These equations are solved for the case  $p = 1$  and arbitrary plasma thickness, and for a thick plasma and arbitrary  $p$ , and expressions are derived for the reflection transmission and absorption coefficients of the incident electromagnetic waves. For the case of a thick plasma layer the absorption coefficient is proportional to the electron thermal velocity even when  $p = 1$ . In the limit of an infinitely thick plasma layer, the expression obtained for the absorption reduces to that given by V.P.Silin and Ye.P.Fetisov (ZhETF, 41, 159, 1961). For the case of a thin layer with  $p = 1$  the absorption can be considerable, although under these conditions the absorption of waves polarized with the electric vector perpendicular to the plane of incidence is always small. For the case when the plasma layer is thin and  $p$  is not too close to unity the reflection and transmission coefficients are derived directly from the expression for the current. The results derived in this case can be obtained phenomenologically in the hydrodynamic approximation by employing an electron collision frequency equal to the ratio of the electron thermal velocity to the thickness of the plasma layer. The penetration into the plasma of the longitudinal wave excited at its surface is also briefly discussed. The authors thank V.F.Aleksin and K.N.Stepanov for discussions. Orig. art. has: 57 formulas.

SUB CODE: 20/

SUBM DATE: 18Mar65/

ORIG REF: 009/

OTH REF: 000

Card 2/2 ULL

ACC NR: AP6018724

SOURCE CODE: UR/0057/66/036/006/1008/1016

AUTHOR: Miroshnichenko, V.I.

ORG: none

TITLE: Electromagnetic properties of a semi-infinite plasma with diffuse reflection of electrons at the boundary

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 6, 1966, 1008-1016

TOPIC TAGS: plasma electromagnetic wave, plasma surface wave, electromagnetic wave reflection, electron reflection, dispersion equation, *WAVE PROPAGATION, MAXWELL EQUATION*

ABSTRACT: The author discusses the propagation of electromagnetic waves on the surface and the reflection of them from the surface of a semi-infinite plasma with a plane boundary under conditions of low space dispersion (electron thermal velocities small but not entirely negligible compared with the phase velocity of the waves) and diffuse reflection of the plasma electrons from the plasma surface. The calculations are based on Maxwell's equations and an expression for the current, which, it is asserted, can be obtained from a solution of the equation for the electron distribution function under conditions of diffuse reflection of the electrons from the plasma boundary. The equations are subjected to a Fourier transformation with respect to the time,  $t$ , under the condition that the electric field of the wave vanish outside the

Card 1/2

UDC: 533.9

L 41.1-4

ACC NR: AP6019724

plasma, and calculation of the Fourier components is reduced to solution of a Hilbert boundary problem in the complex  $t$ -plane. An expression is derived for the impedance of the plasma, and from it there is obtained the dispersion equation for the surface waves and a formula for the reflection coefficient for electromagnetic waves incident at an arbitrary angle on the plasma surface. The surface waves are found to be damped by the Landau mechanism, the damping constant being a linear function of the electron thermal velocity. There is no "surface wave" described by the dispersion equation  $k^2 = 0$ ; the contrary conclusion of A.Ts.Amatuni (ZhTF, 34, 1354, 1964), it is suggested, was based on the unwarranted assumption that the Fourier component of the current decreases exponentially. The rate of absorption of the energy of an electromagnetic wave incident on the plasma surface is found to be proportional to the thermal velocity of the plasma electrons. Orig. art. has: 56 formulas.

SUB CODE: 20 /

SUBM DATE: 22Jul65 /

ORIG. REF: 005 /

Card

2/2 MLP

MIROSHCHENKO, V.P.; KARPUSHIN, V.P.

Using nicotinic acid electrophoresis on the breasts in insufficient lactation. *Pediatrics* no.6:28-31 Je '57. (MIRA 10-10)

1. Iz akushersko-ginekologicheskoy kliniki (zav. - doktor meditsinskikh nauk P.P.Sidorov) Stalinskogo meditsinskogo instituta (dir. - dotsent A.M.Ganichkin)  
(ELECTROPHORESIS) (NICOTINIC ACID) (LACTATION)

MIROSHNICHENKO, N. G., Cand. Med. Sci. — dis. "On the  
problem of quantitative and qualitative changes  
in the milk in mother <sup>of late pregnancy</sup> ~~suffering from~~ late toxemia  
of pregnancy." Stalingo, 1950, II: 11. (Stalingo: late  
ed. Inst. in A.M. Gor'kiy) 120 copies. (L, 1950, II

KARPUSHIN, V.P., assistant; MIROSHNICHENKO, V.P. [Miroshnychenko, V.P.]

Ascorbic acid content of the milk of parturients having  
considerable hemorrhage in labor. Ped. akush. i gin. 22  
no. 1:42-44 '60. (MIRA 13:8)

1. Akushersko-ginekologicheskaya klinika (zav. - prof. P.P.  
Sidorov) Stalinskogo meditsinskogo instituta (dir. - dots.  
A.M. Ganichkin [Hanichkin].  
(ASCORBIC ACID) (HEMORRHAGE, UTERINE) (MILK, HUMAN)

LANDAU, Ya.M., dotsent; SIGALOV, A.B.; KARPUSHIN, V.P.; MIROSHNICHENKO,  
V.P.; RUDNEVSKIY, Yu.I.

Physiological blood loss in the puerperal period of normal labor.  
Sov.med. 24 no.3:89-94 Mr '60. (MIRA 14:3)

1. Iz akushersko-ginekologicheskoy kliniki (zav. prof. P.P.Sidorov)  
Stalinskogo meditsinskogo inatituta (dir. - dotsent A.M.Ganichkin).  
(PUERPERIUM)



SIDOROV, P.P., [Sydorov, P.P.], prof.; MIROSHNICHENKO, V.P. [Miroshnychenk., V.P.]; KARPUSHIN, V.P. [Karpushyn, V.P.]

Comparative characteristics of operations using obstetrical forceps under pupendal and ether inhalation anesthesia. Ped., akush. i gin. 23 no.6:4 -47 '61. (MIRA 15:4)

1. Kafedra akusherstva i ginekologii (zav. - doktor med.nauk, prof. P.P.Sidorov [Sydorov, P.P.]) Donetskogo meditsinskogo instituta im. A.M.Gor'kogo (rektor - dotsent A.M.Ganichkin [Hanichkin, A.M.]) na baze klinicheskoy bol'nitsy im. M.I.Kalinina (glavnyy vrach - V.F.Zubko).

(ANESTHESIA IN OBSTETRICS)

KARPUSHIN, V.P., kand.med.nauk; MIROSHNICHENKO, V.P., kand.med.nauk;  
SOROKA, P.G., assistent

Complete hydatiform mole. Sov. med. 25 no.5:28-33 My '61.

(MIRA 14:6)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. Doktor  
meditsinskikh nauk P.P.Sidorov) Stalinskogo meditsinskogo instituta  
(dir. - dotsent A.M.Ganichkin) na baze klinicheskoy bol'nitsy  
imeni M.I.Kalinina (glavnyy vrach - kandidat meditsinskikh nauk  
B.A. Shaparenko).

(UTERUS--TUMORS)

KUZNETSOV, V.A., dotsent; MIROSHNICHENKO, V.P.

Course of pregnancy and labor in arterial hypotension. Sov.  
med. no.3:118-121 '62. (MIRA 15:5)

1. Iz akushersko-ginekologicheskogo kliniki (zav. - prof. P.P. Sidorov) Donetskogo meditsinskogo instituta imeni A.M. Gor'kogo (dir. - dotsent A.M. Ganichkin) na baze Klinicheskoy bol'nitsy imeni M.I. Kalinina (glavnyy vrach - kand.med.nauk B.A. Shaporenko).

(PREGNANCY, COMPLICATIONS OF) (HYPOTENSION)  
(LABOR, COMPLICATED)

MIROSHNICHENKO, V.P. (Donetsk, Universitetskaya ul., 30, kv.5): MOLZHANINOV,  
Is.V.; KOZHEMYAKINA, V.V.

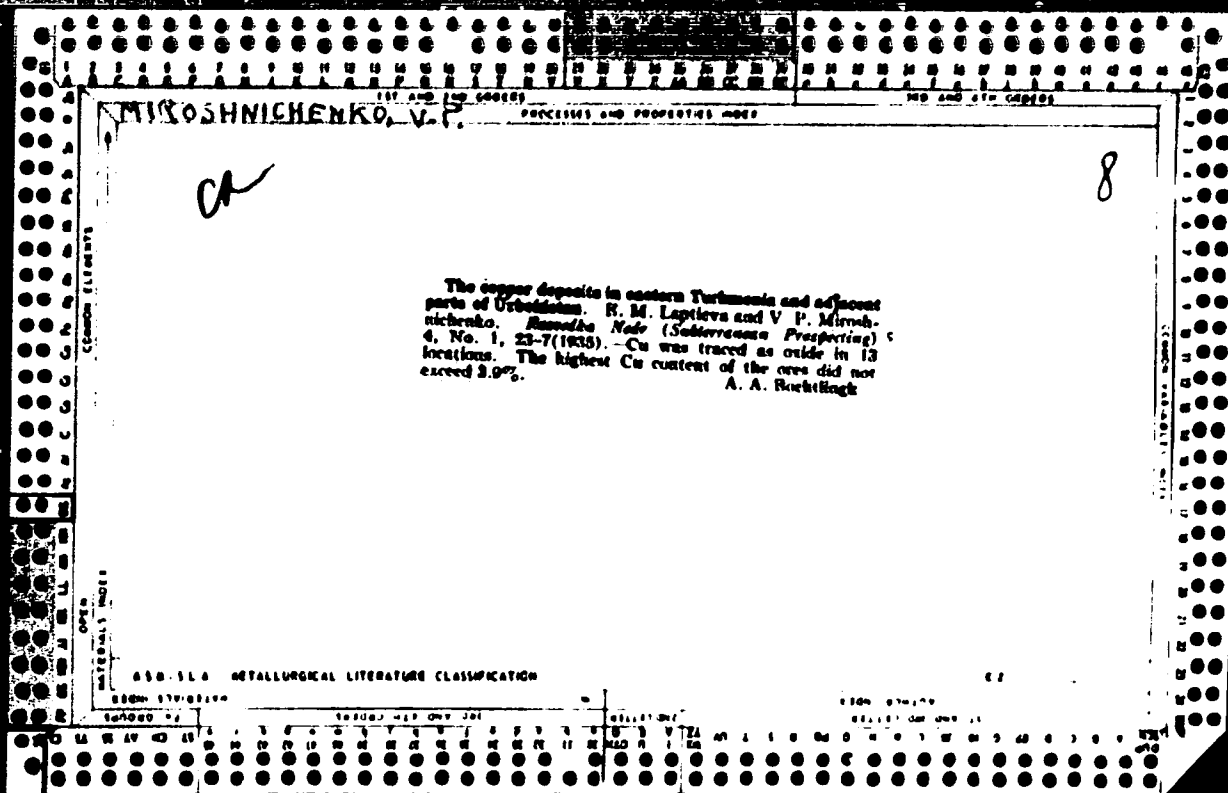
Treatment in chronic endocervicitis and glandular and muscular  
hyperplasia of the cervix uteri with diathermy excision. Vop.  
onk. 10 no.1:82-87 '64. (MIRA 17:11)

1. Iz kafedry akusherstva i ginekologii No.1 (zav. kafedroy - dotsent  
V.P. Miroshnichenko, nauchnyy konsultant - prof. doktor med. nauk  
P.P. Sidorov) Donetskogo meditsinskogo instituta (rektor - prof.  
doktor med. nauk A.M. Ganichkin) na baze Donetskoy oblastnoy bol'-  
nitsy imeni M.I. Kalinina (glavnyy vrach - P.A. Koroq').

SECRET

1. The following information was obtained from a source who has provided reliable information in the past.

2. The source has provided information regarding the activities of the [redacted] in the [redacted] area. The source has provided information regarding the activities of the [redacted] in the [redacted] area. The source has provided information regarding the activities of the [redacted] in the [redacted] area.



MIROSHNICHENKO, V. P.

RT-1407 (Aero-Geo-Surveying. Application of Aerial Photography to Geological Investigations) Abstracted from:  
AEROGEOS"EMKA PRIMENENIE AEROFOTOS"EMKI DLA GEOLOGICHESKIH ISSLEDOVANI. Moscow Leningrad, 1946. (Original Russian source unavailable for review. Translation does not include illustrations)

USSR/Oil regions  
Geology

Apr 1947

"Geological Structure of the North-Western Kazakhstan"  
V. P. Miroshchikova, 1947

"Izv Ak Nauk Ser Geol" No 4

Study, illustrated with maps, of the geology of  
the region between Turkmen SSR and Iran, with  
notes on the possibilities of locating oil de-  
posits in this region.

17759



14-57-7-14459  
Translation from: Referativnyy zhurnal, Geografiya, 1954, Nr 7,  
p 33 (USSR)

AUTHOR: Miroshnichenko, V. P.

TITLE: Development and Application of Aerial Methods for  
Studying Recent and Contemporary Tectonic Movements  
in Piedmont plains of the Accumulative Eolian  
Type (Opyt razrabotki i primeneniya aerometodov dlya  
izucheniya noveyshikh i sovremennykh tektonicheskikh  
dvizheniy v predelakh predgornyykh ravnin akkumulya-  
tivno-eolovogo tipa)

PERIODICAL: Tr. Labor. aerometodov AN SSSR, 1954, Vol. 3  
pp 32-88

ABSTRACT: Aerial surveys are used in studying neotectonic mani-  
festations on the Caspian plain in Western Turkmenia  
because the Piedmont plains have developed un-  
exposed relief forms, in which dome-shaped upthrusts

Card 1/4

Development and Application of Aerial Methods (Cont.)

14-57-7-14469

comprise the positive elements, sloping valleys (residual depressions), the negative. Observations have confirmed that this primary tectonic relief determines the nature and distribution of the rest of the landscape. The author has established that those elements in the landscape which interact with other elements and depend upon the geological structure are very important for studying the territory. He gives the name of "geoanalytics" to this subject. Using numerous examples, he shows that the sandy relief of the area in question was originally formed by the joint action of wind and very recent tectonic movements. Here the author emphasizes the necessity of considering such factors as the facies composition of the loose substratum, its thickness, the nature of the basement layer, the distribution and depth of the stratum, ground waters, vegetable cover, and other items. Observations have shown that wind has a very strong effect upon the structurally raised sections surrounded by areas with a sand-hill relief; these sections form sand ridges in adjacent residual depressions. Thus an area with an

Card 2/4

Development and Application of Aerial Methods (Cont.) 14-57-7-14469

incised relief gradually rises, and, under the influence of the wind, assumes a sand-hill relief. The action of new tectonic uplifts and erosion upon one another has great geoanalytical importance. Erosion helps to form takyr-soil areas, which are frequently observed among the sands burying the uplifts. The author terms these takyr-soil areas stratigraphically coordinated. They have no clear erosional network in residual depressions, but an erosional network is developing in structurally uplifted areas. It is linearly oriented along the flanks from the dome of the uplift to its periphery. Many residual depressions were found to have clearly-expressed concentric features: takyr almost barren of vegetation on the periphery, salt marshes with halophytic vegetation further inside, and solonchaks at the center. Different areas are different in colors. Aerial photographs make it possible to trace tectonic fault lines, either following columnar gypsum masses (which appear dark in photographs), or marked by the difference in the lithology on the two sides of the fault, or adjoining a series of hills and ridges

Card 3/4

Development and Application of Aerial Methods (Cont.) 14-57-7-14.59

formed behind haloxylitic shrubs which grow along fault lines where abundant moisture is present. A bibliography of 27 titles is included.

Card 4/4

G. K.

MEYER, G.Ya.; MIROSHCHENKO, V.P., SHUL'TS, S.S.

Visual aerial geological and geographical observations in the Caspian Sea region, the Aral-Caspian watershed, and the Kara-Kum. Truth Lab. aeromet. 4:92-93 '55.

(MLRA 2 2)

(Caspian Sea region--Aeronautics in geography)

VINOGRADOV, B.V.; MIROSHNICHENKO, V.P.

Evidence of present-day movements in the landscapes of silt planes.  
Dokl. AN SSSR 109 no.2:369-372 J1 ' 56. (MLRA 9:10)

1. Laboratoriya aerometodov Akademii nauk SSSR. Predstavleno akademikom D.V. Nalivkinym.  
(Turkmenistan--Geology, Structural)

MIROSNICHENKO, V.P., kand.geologo-mineralogicheskikh nauk, otvetstvennyy red.; KUDRITSKIY, D.M., red.izd-va; TVERITINOVA, K.S., tekhn.red.

[Papers on using aerial methods for the study of soils and vegetation of Northern Kazakhstan] Materialy k ispol'zovaniyu aerometodov pri izuchenii pochv i rastitel'nosti Severnogo Kazakhstana. Moskva, 1957. 112 p. (MIRA 11:2)

1. Akademiya nauk SSSR. Sovet po izucheniyu proizvoditel'nykh sil.  
(Kazakhstan--Soils) (Photography, Aerial)  
(Kazakhstan--Botany)

BARANOVA, A.I.; MIROSHNICHENKO, V.P.

Brief notes on the history of the Laboratory of Aerial Methods of  
the Academy of Sciences of the U.S.S.R. Izv. AN SSSR, Ser. geog. no.5:  
130 S-0 '57.

(MIRA 11:2)

(Photography, Aerial)



VINOGRADOV, B.V.; VOLKOV, I.A.; MIROSHNICHENKO, V.P.; PREOBRAZHENSKIY, A.S.

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(Photography, Aerial)

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L'viv. un. 40:43-56 '57. (MIRA 11:4)

1. Laboratoriya aerometodov AN SSSR, Leningrad.  
(Aeronautics in geography)

TSYS', P.N.; KALESNIK, S.V.; SOKOLOV, N.N.; CHOCHIA, N.S.; PROTOPOPOV, A.P.; ZABELIN, I.M.; GVOZDETSKIY, N.A.; YEFREMOV, Yu.K.; KARA-MOSKO, A.S.; KOZLOV, I.V.; SOLNTSEV, N.A.; ISACHENKO, A.G.; ARMAND, D.L.; MIROSHNICHENKO, V.P.; PETROV, K.M.; KAZAKOVA, O.N.; MIKHAYLOV, K.I.; PARMUZIN, Yu.P.; GERENCHUK, K.I.; MIL'KOV, F.N.; TARASOV, F.V.; NIKOLAYEV, V.N.; SOBOLEV, L.N.; RYBIN, N.N.; DUMIN, B.Ya.; IGNAT'YEV, G.M.; MEL'KHEYEV, M.N.; SANEBLIIZE, M.S.; VASIL'YEVA, I.V.; PEREVALOV, V.A.; BASALIKAS, A.B.

Discussion at the conference on studying land forms. Nauk. zap. L'viv. un., 40:231-267 '57. (MIRA 11:6)

1. L'vovskiy gosudarstvennyy universitet (for TSys', Gerenchuk, Dumin).
2. Laboratoriya aerometolov AN SSSR, Leningrad (for Sokolov, Mirosnichenko, Petrov).
3. Institut geografii AN SSSR, Moskva (for Armand, Sobolev).
4. Gosudarstvennyy universitet, Voronezh (for Mil'kov, Tarasov).
5. Leningradskiy gosudarstvennyy universitet (for Chochia, Isachenko, Kazakova).
6. Komissiya okhrany prirody AN SSSR, Moskva (for Protopopov).
7. Gosudarstvennyy universitet, Chernovtsy (for Rybin).
8. Gosudarstvennyy universitet, Irkutsk (for Mel'kheyev).
9. Gosudarstvennyy pedagogicheskiy institut im. V.I. Lenina, Moskva (for Vasil'yeva).
10. Bol'shaya Sovetskaya Entsiklopediya (for Zabelin).
11. Gosudarstvennyy universitet, Tbilisi (for Sanebliize).
12. Moskovskiy gosudarstvennyy universitet (for Gvozdetskiy, Solntsev, Mikhaylov, Parmuzin, Nikolayev, Ignat'yev).
13. Torgovo-ekonomicheskii institut, L'vov (for Perevalov).
14. Gosudarstvennyy institut im. Kapsukasa, Vil'nyus (for Basalikas).
15. Muzey zemlevedeniya Moskovskogo gosudarstvennogo universiteta (for Yefremov, Kozlov).
16. Srednyaya shkola No.13, Kiyev (for Kara-Mosko). (Physical geography)

*MIROSHNICHENKO, V P*

3(4)

PHASE I BOOK EXPLOITATION

SOV/1835

Akademiya nauk SSSR. Laboratoriya aerometodov

Trudy, t. 6 (Transactions of the Laboratory of Aerial Methods, USSR Academy of Sciences, Vol 6) Moscow, Izd-vo AN SSSR, 1958. 280 p. Errata slip inserted. 1,500 copies printed.

Resp. Ed.: V.P. Mirosnichenko, Candidate of Geological and Mineralogical Sciences; Ed. of publishing House: D.M. Kudritskiy; Tech. Ed.: E.Yu. Bleykh.

**PURPOSE:** This volume is intended for geologists, photo interpreters, or other personnel engaged in the study of landscape formations, especially from the standpoint of aerial photography.

**COVERAGE:** This collection of studies and brief articles treats problems in aerial photography and photo interpretation in relation to geological phenomena. The geographical area of study, with minor exceptions, is the Caspian plains and western shore. Most of the studies are well illustrated with aerial photographs. Aside from the numerous articles on geological phenomena of the

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Transactions of the Laboratory (Cont.)

SOV/1835

Caspian basin, the following are also covered: portions of the Russian platform, the Muyunkumy sands of Central Kazakhstan, photo interpretation of clayey flats, desert vegetation and tree cover, the effective lens speed of photographic objectives, photogrammetric determination of profiles on hydro technical models, and others. No personalities are mentioned. References follow each main article.

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PHASE I BOOK EXPLOITATION

SOV/3852  
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Akademiya nauk SSSR. Laboratoriya aerometodov

Trudy, tom 8: Materialy VII Vsesoyuznogo mezhvedomstvennogo soveshchaniya po aeros"yemke 25 noyabrya - 1 dekabrya 1956 g. (Materials of the 7th All-Union Interdepartmental Conference on Aerial Surveying, 25 November-1 December 1956) Moscow, Gosgeoltekhizdat, 1959. 300 p. 5,000 copies printed.

Ed. of Publishing House: V. G. Filatov; Tech. Ed.: O. A. Gurova;  
Editorial Commission: N. G. Kell', Corresponding Member, Academy of Sciences USSR; A. A. Logachev, V. P. Miroshnichenko (Resp. Ed.), and N. N. Sokolov.

PURPOSE: This publication is intended for photogrammetrists, geologists, geographers, and other scientific and technical personnel concerned with aerial photography.

COVERAGE: This issue of the Transactions of the Laboratory of Aerial Survey Methods contains the second part of materials presented at the 7th All-Union Interdepartmental Conference on Aerial Surveying which took place in Leningrad, November 25 through December 1, 1956.  
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Materials of the 7th All-Union (Cont.)

80V/3852

Articles treat problems dealing with the execution and application of aerial survey methods in geological, geomorphological, and geophysical investigations. Special attention is directed to aerial survey methods in geological and geomorphological mapping and geophysical work under different conditions. The techniques of joint airborne magnetic prospecting and aerial photography are described. References accompany individual articles.

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Miroshnichenko, V. P. [Laboratoriya aerometodov AN SSSR - Laboratory of Aerial Survey Methods, Academy of Sciences USSR]. Application of

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MIROSHNICHENKO, V. P.

"Application of Aeromethods for Geographical Explorations in the USSR"

report to be submitted for the Intl. Geographical Union, 10th General Assembly  
and 19th Intl. Geographical Congress, Stockholm, Sweden, 6-13 August 1960.

PHASE I BOOK EXPLOITATION

SOV/4315  
SOV/7-S-9

Akademiya nauk SSSR. Laboratoriya aerometodov

Trudy, tom 9 (Transactions of the Laboratory of Aerial Methods, USSR Academy of Sciences, vol. 9) Moscow, AN SSSR, 1960. 357 p. Errata slip inserted. 1,700 copies printed.

Resp. Ed.: V.V. Sharkov, Candidate of Geography; Ed. of Publishing House: D.M. Kudritskiy; Tech. Ed.: M.Ye. Zendel'.

**PURPOSE:** This volume is intended for geographers, geologists, geodesists, and photogrammetrists.

**COVERAGE:** This collection of 23 articles contains studies of the earth's surface, structure, and geological formations by means of aerial photography. The authors discuss the principles, methods and techniques used in aerial surveying to determine such factors as the petrographic composition of the soil through the measurement of the spectral brightness of surfaces, the geological structure of underwater areas through recorded photographic images, the geological composition and geomorphological structure of underlying layers through the analysis of surface plant coverings, the trends and characteristics of recent tectonic movements through the study of surface features traced photographically

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SOV/4315

over extensive regions, etc. The instruments used in this work (cameras, cinematographic spectrographs, stereographs, stereoprojectors, color and black and white film) are described and the analysis and interpretation of the data obtained discussed. References accompany individual articles.

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MIROSHNICHENKO, V.P., otv. red.; VIKTOROV, S.V., red.; KALESNIK, S.V., red.; KELL', N.G., red.; LEONT'YEVA, Ye.V., red.; SAMOYLOVICH, G.G., red.; KUDRITSKIY, D.M., red. izd-va; KONDRAT'YEVA, M.N., tekhn. red.

[Using aerial photography methods in the study of landforms; transactions] Primeneniye aerometodov v landshaftnykh issledovaniyakh; trudy. Moskva, Izd-vo Akad.nauk SSSR, 1961. 304 p. (MIRA 14:11)

1. Soveshchaniye po primeneniyu aerometodov v landshaftnykh issledovaniyakh, Leningrad, 1959.

(Aerial photogrametry—Congresses) (Landforms)

21(1), 11(2)  
AUTHORS:

Lavrov, N. V., Doctor of Technical Sciences, Makarov, I. A., Candidate of Technical Sciences, Miroshnichenko, V. S., Engineer, Perepelitsa, A. L., Candidate of Technical Sciences, Pinsker, A. Ye., Engineer, Chernenkov, I. I., Engineer

SOV/67-59-2-1/18

TITLE:

Use of Air Enriched With Oxygen in Partial Carbonization of Coal (Primeneniye obogashchennogo kislorodom vozdukha pri polukoksovanii uglya)

PERIODICAL:

Kislorod, 1959, <sup>12</sup>Nr 2, pp 1-9 (USSR)

ABSTRACT:

An air-blowing engine has hitherto been applied in multizone shaft furnaces, of which general use is made in partial carbonization of coal. In addition to semicoke, semicoke gas was produced which contained a large quantity of nitrogen. Thus this gas is very unfavorable for further use for heating and technical purposes. Consequently, the authors made an experiment with industrial furnaces in which they tried to use air enriched with oxygen. As a result, the semicoke gas was considerably improved and the coking process was intensified. A diagram of a multizone furnace for partial carbonization of coal is shown in figure 1, and its mechanism is

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