L 21517-66   EWT(d)/EWT(1)/EWT(m)/EWP(f)/T-2   IG

ACC NR: AP6009723   SOURCE CODE: UR/0114/66/000/003/0008/0011

AUTHOR: Pavlov, V. A. (Engineer); Storozhuk, Ya. P. (Candidate of technical sciences)

ORG: none

TITLE: Calculation and design of mechanical injectors

SOURCE: Energomashinostroyeniye, no. 3, 1966, 8-11

TOPIC TAGS: fuel injector, mechanical fuel injector, fuel atomization

ABSTRACT: A method is proposed for calculating the basic geometric parameters of a mechanical fuel injector. Formulas are given for determining the injector nozzle diameter, swirl chamber diameter, total area of tangential ducts, and the number of ducts. The derived formulas are based on experimentally determined performance charac-teristics of a number of fuel injectors of various designs. The use of the method is illustrated by a numerical example. Orig. art. has: 14 formulas and 4 figures.
                                                                        [AS]

SUB CODE: 21/   SUBM DATE: none/ ORIG REF: 003/   OTH REF: 001
ATD PRESS:4222

Card 1/1   UDC: 621.43.037.001.24

BERNATSKIY, M.G.; PAVLOV, V.A.

Conversion of magnetoelectric instruments into rectifiers. Fiz.
v shkole 20 no.4:73-76 Jl-Ag '60.   (MIRA 13:8)

1. 7-ya srednyaya shkola, g.Smolensk.
                (Electric apparatus and appliances)
                (Electric current rectifiers)

SERDYUCHENKO, D.P.; PAVLOV, V.A.

Composition and classification of axinites. Zap. Vses. min. ob-va
91   no.1:81-84   '62.   (MIRA 15:3)
                              (Axinite)

13,2520

20042

S/146/61/004/001/006/016
B104/B215

AUTHOR: Pavlov, V. A.

TITLE: Systematic deviation of a gyroscope with universal suspen-
              sion caused by factors producing forced vibrations

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye,
              v. 4, no. 1, 1961, 53-57

TEXT: In the present paper it is shown that not only nutation, but also
every other kind of vibration of a gyroscope with universal suspension,
due to external forces, causes systematic rotations of the gyroscope.
The latter rotates about the outer axis of the suspension only if its
cardan rings are not at right angles. The angular velocity of the
deviation $\dot{\psi}_{\Omega}$ can be determined from the following relation:

Card 1/5

Systematic deviation of a ...

венств (2)

$$\dot{\psi}_{\text{Д}} \, (J_{\text{н}} + J_{\text{в}x}) \, \frac{\sin \theta_0}{2} \cdot \left\{ \frac{\dot{\theta}_{\text{н}}^2}{J \, \Omega \cos^2 \theta_0} + \frac{J_{\text{в}}}{J_c} \cdot \frac{\theta_{\text{н}}^2}{J \, \Omega \cos^2 \theta_{\text{н}}} + \right.$$

$$+ \frac{(J_{\text{в}} + J) \cdot (J - J_{\text{в}})^3 \, \epsilon^2 \Omega}{J \, (J^2 \cos^2 \theta_0 - J_{\text{в}} J_c)^2} \left[J + \frac{J^2 - J_{\text{в}} (J_{\text{в}} + J_{\text{в}y} - J_{\text{в}x})}{J_{\text{н}} + J_{\text{в}x}} \cos^2 \theta_{\text{в}} \right] + \quad \textbf{(A)}$$

$$+ \frac{J_{\text{в}} C_{\text{в}} - J \, \Omega \, B \cos \theta_0}{q \, (J^2 \, \Omega^2 \cos^2 \theta_0 - J_{\text{в}} l_c q^2)^2} \left[C \frac{J^2 \, \Omega^2 - J_{\text{в}} (J_{\text{в}} + J_{\text{в}y} - J_{\text{в}x})}{J_{\text{н}} + J_{\text{в}x}} - J \, \Omega \, B q \right] \right\} . \qquad \text{(A)}$$

if the relations

$$J_{\text{в}} + J_{\text{в}y} = J_{\text{в}}$$

$$J_{\text{н}} + J_{\text{в}} \cos^2 \theta_{\text{н}} + J_{\text{в}y} \cos^2 \theta_0 + J_{\text{в}x} \sin^2 \theta_0 = J_c$$

$$J_{\text{в}} + J_{\text{в}z} - J_{\text{в}x} = D$$

$$(J - J_{\text{в}}) \epsilon = F$$

$$\qquad \qquad \qquad \text{(2)}$$

$$\qquad \qquad \qquad \text{(2)}$$

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20042

Systematic deviation of a ...

of the system are substituted for the corresponding quantities. The equation of motion of a gyroscope with universal suspension in which the main axis of inertia does not coincide with the axis of rotation, was used for the derivation of the above formula. The effect of external forces on the system was also taken into account. In these expressions, J and $J_{\ominus}$ are the axial and equatorial moments of inertia of the

gyroscopic rotor, J_{Bx}, J_{By}, and J_{Bz} the moments of inertia of the inner cardan ring with respect to the corresponding axes of the Cartesian coordinate system. J_H is the moment of inertia of the outer cardan ring with respect to the outer axis of the gyroscopic suspension, Ω the angular velocity of the rotor, θ the angle of the rotation performed by rotor and inner cardan ring about the inner axis of the suspension with respect to the outer ring, ψ the angle of rotation of the gyroscope about the outer axis of the suspension, ε the angle of deviation between polar axis of inertia of the rotor, and its own axis of rotation, M_B and M_C are moments acting upon the axes of the

gyroscopic suspension. The first term in expression (A) characterizes

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Systematic deviation of a ...

S/146/61/004/001/006/016
B104/B215

the angular velocity of the gyroscopic deviation if the gyroscope is given an initial velocity of rotation about the outer axis of suspension. The second term characterizes the deviation caused by nutation. The third term and the fourth characterize the angular velocity of the deviation caused by an unbalance of the rotor, and by harmonic disturbances affecting the system. If the chosen moments of inertia of the individual constructive elements of the system are not very suitable, the action of external forces upon gyroscopic deviations may become very strong. If the term $J^2\cos^2\vartheta_0 - J_B J_C$ is nearly zero the system is in a state of resonance, and the deviations caused by external forces become very large. The publication of this article was recommended by the Kafedra stabiliziruyushchikh ustroystv (Department of Stabilizing Equipment). There are 2 references: 1 Soviet-bloc.

Card 4/5

Card 5/5

PAVLOV, V. B.   Cand. Tech. Sci.

Dissertation: "Filtration Phenomena in Navigational Sluices with Penetrable Bottom and Their Effect on the Rational Construction of Sluice." Moscow Order of the Labor Red Banner Construction Engineering Inst Imeni V. V. Kuybyshev, 19 May 47.

SC: Vechernyaya Moskva, May, 1947 (Project #17436)

PAVLOV, V.D.

APANAS'YEVA, A.L., kand.biol.nauk; BAYERTUYEV, A.A., kand.sel'skokhozyaystven-
nykh nauk; BAL'CHUGOV, A.V., kand.sel'skokhozyaystvennykh nauk;
BELOZEROVA, N.A., agronom; BELOZOROV, A.T., kand.sel'skokhozyaystven-
nykh nauk; MAKSIMENKO, V.P., agronom; BERNIKOV, V.V., doktor sel'sko-
khozyaystvennykh nauk; BOGOMYAGKOV, S.T., kand.sel'skokhozyaystven-
nykh nauk; VOLYNETS, O.S., agronom; BODROV, M.S., kand.sel'skokhozyay-
stvennykh nauk; BOGOSLAVSKIY, V.P., kand.tekhn.nauk; KHRUPPA, I.F.,
kand.tekhn.nauk; VERNER, A.R., doktor biol.nauk; VOZBUTSKAYA, A.Ye.,
kand.sel'skokhozyaystvennykh nauk; VOINOV, P.A., kand.sel'skokhozyay-
stvennykh nauk; VYSOKOS, G.P., kand.biol.nauk; GALDIN, M.V., inzhener-
mekhanik; GERASIMOV, S.A., kand.tekhn.nauk; GORSHENIN, K.P., doktor
sel'skokhozyaystvennykh nauk; YELENEV, A.V., inzhener-mekhanik;
GERASKEVICH, S.V., mekhanik [deceased]; ZHARIKOVA, L.D., kand.sel'sko-
khozyaystvennykh nauk; ZHEGALOV, I.S., kand.tekhn.nauk; ZIMINA, Ye.A.,
agronom; BARANOV, V.V., kand.tekhn.nauk; PAVLOV, V.D.; IVANOV, V.K.,
kand.sel'skokhozyaystvennykh nauk; KAPLAN, S.M., kand.sel'skokhozyay-
stvennykh nauk; KATIN-YARTSEV, L.V., kand.sel'skokhozyaystvennykh
nauk; KOPYRIN, V.I., doktor sel'skokhozyaystvennykh nauk; KOCHERGIN,
A.Ye., kand.sel'skokhozyaystvennykh nauk; KOZHEVNIKOV, A.R., kand.
sel'skokhozyaystvennykh nauk; KUZNETSOV, I.N., kand.sel'skokhozyay-
stvennykh nauk; LAMBIN, A.Z., doktor biol.nauk; LEONT'YEV, S.I.,
kand.sel'skokhozyaystvennykh nauk; MAYBORODA, N.M., kand.sel'sko-
khozyaystvennykh nauk; MAKAROVA, G.I., kand.sel'skokhozyaystvennykh
nauk; MEL'NIKOV, G.A., inzhener; ZHDANOV, B.A., kand.sel'skokhozyay-
stvennykh nauk; MIKHAYLENKO, N.A., kand.sel'skokhozyaystvennykh nauk;
MAGILEVTSEVA, N.A., kand.sel'skokhozyaystvennykh nauk;

(Continued on next card)

APANAS'YEVA, A.L.... (continued)   Card 2.

NIKIFOROV, P.Ye., kand.sel'skokhozyaystvennykh nauk; NENASHEV, N.I.,
lesovod; PERVUSHINA, A.N., agronom; PLOTNIKOV, N.A., kand.biol.nauk;
L.G.; kand.sel'skokhozyaystvennykh nauk; PAVLOV, V.D., kand.tekhn.
nauk; PRUTSKOVA, M.G., kand.sel'skokhozyaystvennykh nauk; GURCHENKO,
V.S., agronom; POPOVA, G.I., kand. sel'skokhozyaystvennykh nauk;
PORTYANKO, A.F., agronom; RUCHKIN, V.N., prof.; RUSHKOVSKIY, T.V.,
agronom; SAVITSKIY, M.S., kand.sel'skokhozyaystvennykh nauk; BOLDIN,
D.T., agronom; NESTEROVA, A.V., agronom; SERAFIMOVICH, L.B., kand.
tekhn.nauk; SMIRNOV, I.N., kand.sel'skokhozyaystvennykh nauk;
SEREBRYANSKAYA, P.I., kand.tekhn.nauk; TOKHTUYEV, A.V., kand. sel'sko-
khozyaystvennykh nauk; FAL'KO, O.S., iznh.; FEDYUSHIN, A.V., doktor
biol.nauk; SHEVLYAGIN, A.I., kand.sel'skokhozyaystvennykh nauk;
YUFEROV, V.A., kand.sel'skokhozyaystvennykh nauk; YAKHTENFEL'D, P.A.,
kand.sel'skokhozyaystvennykh nauk; SENENOVSKIY, A.A., red.; GOR'KOVA,
Z.D., tekhn.red.

[Handbook for Siberian agriculturists] Spravochnaia kniga agronoma
Sibiri. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol.1. 1957. 964 p.
        (Siberia—Agriculture)   (MIRA 11:2)

PAVLOV, V.D.

Regulation of the parameters of seismic apparatus using reactive
resistance and two-channel recording. Trudy Inst.fiz.Zem. no.32:
5-19 '64.   (MIRA 18:2)

PAVLOVA, V. A.

GELATINOV, E. A.; PAVLOV, M. D.; PAVLOV, V. V.

Potatoes

Check-rowing potatoes will increase crop. Kolkh. proizv. 13 no.5, 1953.

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Development of animal groupings on dried northwestern shore
of the Caspian Sea. Zool. zhur. 42 no.7:1080-1087 '63.
(MIRA 17:2)

1. Yandykov Anti-Plague Department of the Astrakhan Anti-
Plague Station, Ministry of Public Health of U.S.S.R.

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2221   PAVLOV, V.D. /IT. GERASIMOV, S. A.

Mashina Dlya Kvadratno-Gnyezdovoy Posadki Kartofyelya. Baku, Dyetguaizdat, 195.
1 L. Slozh V (6) S. s Ill 22sm. (Glav. Upr. S. Kh Propaganpy I Nauki M-Va
Syel' Skoro Khozyaystua SSSR. B-Ka Molodogo Kolkhoznika: 2.000 EKZ h. Ts-Avt.
Ukazany V Kontsye Tyeksta : S. A. Kyerasnmov (!) I B (!) D. Pavlov-Na
Azverbayozh Yaz.-
(54054464)   631.332.76

PAVLOV, V.D.

Possibility of reducing the natural frequency of a galvanometer by reactive resistance. Trudy Inst. fiz. Zem. no.25:44-49 '62.

(MIRA 15:11)

(Galvanometer)

PAVLOV, V.D.

Determining the critical res'stance value for galvanometers. Izv.
AN SSSR. Fiz. zem. no.3:80-81 '65.   (MIRA 18:7)

1. Institut fiziki Zemli AN SSSR.

V. D. PAVLOV   Epa
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V. D. PAVLOV
    Sveklouborochnyy kombayn SKG-I (Beet-lifting combine SKG-I, by S. A. ...
(1). Moskva, Mashgiz, 1950
    156, (2) p. illus., diagrs., tables.
    Bibliography: p. (156)

LABAZOV, N.P., kand.tekhn.nauk, dotsent; PAVLOV, V.D., kand.tekhn.nauk,
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Machining conic surfaces by the method of two feeds.
Vest.mashinostr. 45 no.11:63-66 N '65.

(MIRA 18:12)

f APLOV VA

MASLYAKOV, Vasiliy Nikolayevich; TSVETKOV, N.V., retsenzent [deceased];
SHARAPOV, N.I., retsenzent; PAVLOV, V.P., red.; DOBRONRAVOVA, S.M.,
red.izd-va; SALAZKOV, N.P., tekhn.red.

[Manual for workers receiving and delivering rafts in lumber floating]
Posobie priemosdatchiku plotov na rechnom transporte. Moskva, Izd-vo
"Rechnoi transport," 1957. 165 p.   (MIRA 11:3)
        (Lumber--Transportation)

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Self-reversal of the magnetization of artificial precipitation.
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1. Institut fiziki Sibirskogo otdeleniya AN SSSR.

PAVLOV, V. F., inzh.

      Some problems in evaluating clays for the production of keramzit.
      Trudy NIIStroikeramiki no. 19:43-53 '62.   (MIRA 17:5)

PAVLOV, V.F., kand.tekhn.nauk; ROKHVARGER, Ye.L., kand.tekhn.nauk

Study of the process of the granulation of clayey particles for
small keramzit gravel and sand. Trudy NIIStroikeramiki no.21:73-
85 '63.   (MIRA 17:2)

PAVLOV, V.F., kand.tekhn.nauk

Effect of the degree of disintegration of the natural structure of
easily fusible clays on their expansion. Trudy NIIStroikeramiki no.
21:69-72 '63.   (MIRA 17:2)

PAVLOV, V.F., kand.tekhn.nauk

Choosing the optimum conditions for burning clay to form keramzit.
Strol. mat. 9 no.4:30-32 Ap '63.   (MIRA 16:5)
                                (Keramzit)

PAVLOV, V.F., inzh.

Viscosity of low-melting types of clay at temperatures between
800° and 1200°. Trudy NIIStroikeramiki no.16:30-47 '60.

(MIRA 15:2)

(Clay--Testing)

PAVLOV, V. F., Cand. Tech. Sci. (diss) "Investigation of Vis-

cosity of Easily-fusing Clays at High Temperatures for Purpose

of Description of their Mineral Content and Expansion," Moscow,

1961, 17 pp.(Moscow Civ. Engr. Inst.) 180 copies (KL Supp 12-61

271).

PAVLOV, V.F.

Effect of changing viscosity in the temperature range of $800°-1200°$ on the caking and expanding of low-melting clays. Stek.i ker. 17 no.3:21-25 Mr '60. (MIRA 13:6)
(Clay)

VILYANSKIY, I.M., kand.med.nauk, podpolkovnik meditsinskoy sluzhby; PAVLOV, V.F.

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(MIRA 12:12)

(LABORATORIES, equipment & supplies)

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22620. PAVLOV, V.F. Primeneniye nosopishchevodnogo zonda u duugorbogo verblyuda.
Veterinariya, 1949, No. 7, S. 32

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21374   PAVLOV, V. F. Opyt kameralbnogo deshifrirovaniya aerosnimkov pri sostavlenii
kart. Voprosy geografii, SB. 11, 1949, S. 137-50.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949.

PAVLOV, V.F.

Some problems in altitude traversing. Geod.i kart. no.2:32-40 Ap '56.
(MLRA 9:10)
(Traverses (Surveying))

PAVLOV, V.F.

Organization of a general topographic party. Geod. i kart.no.4:47-49
Je '56.   (Topographical surveying)   (MIRA 9:10)

PAVLOV, VITALIY FEDOROVICH

PHASE I BOOK EXPLOITATION   552

Morozkov, Sergey Georgiyevich; Izvekov, Mikhail Mikhaylovich;
Pavlov, Vitaliy Fedorovich; and Pchelina, Antonina Aleksandrovna

Posobiye po vychisleniyu koordinat i vysot opoznakov (Manual for
Calculating Coordinates and Altitudes of Fixed Points) 2nd ed.,
rev. and enl. Moscow, Geodezizdat, 1957. 91 p. 6,000 copies
printed.

Gen. Ed.: Pavlov, V.F.; Ed. of Publishing House: Vasil'yeva, V.I.;
Tech. Ed.: Romanova, V.V.

PURPOSE: The manual was prepared for the use of surveyors and topo-
graphers working in the development of aero-photographic surveys.

COVERAGE: The present handbook (second edition) is based on
V.V. Chichigina's "Basic Manual for Computing Working Coordinates
for Plainly Visible Markers", Geodezizdat, 1951, but includes more
rational formulas and computation tables an provides practical

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69927

S/109/60/005/05/015/021

E140/E435

24.2130

AUTHORS: Shul'man, A.R., Kirsanova, T.S. and Pavlov, V.K.

TITLE: The Work Function of Thin Films of Barium Oxide on a Tungsten Base

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol 5, Nr 5, pp 840-848 (USSR)

ABSTRACT: The dynamic variation of barium-oxide work function at various temperatures of a tungsten base is determined. The process is more complicated than in the case of metal-atom films, since along with evaporation and migration the film state is effected through chemical reactions with the base material. The film thickness was estimated from optical measurements and deposition time. Measurements of work function indicated the following: a) The variation of work function with film thickness has a monotonic character. b) The curve of film work function against thickness at various rates of deposition does not vary appreciably. Although there are certain common features in the behaviour of barium and barium-oxide films on tungsten base, the barium-oxide films are subject to different laws from the barium films.

Card 1/2

PAVLOV, V. L.

PAVLOV, V. L. -- "Investigation of the Deformation of Metal in Rolling
Large Castings." Acad Sci Ukrainian SSR. Inst of Ferrous Metalurgy.
Dnepropetrovsk, 1955. (Dissertation for the Degree of Candidate of
Technical Sciences.)

SO: Knizhnaya letopis', No. 4, Moscow, 1956

CHEKMAREV, A.P., professor; PAVLOV, V.L., inzhener; KLIMENKO, V.M.,
    kandidat tekhnicheskikh nauk; TSUKANOV, G.B, inzhener; BORTUBOV,
    Ye.M., inzhener; VASHCHILO, P.A., inzhener.

Intensifying the reduction operation in the 1150 blooming mill.
Stal' 15 no.10:916-921 O '55.   (MIRA 9:1)

1.Deyatvitel'nyy chlen AN USSR (for Chekmarev. 2.Institut chernoy
metallurgii AN USSR, zavod imeni Dzerzhinskogo, Tekhnicheskoye uprav-
leniye Ministerstva chernoy metallurgii USSR.
                          (Rolling mills)

Pavlov, V.L.

123-1-503

Translation from: Referativnyy Zhurnal, Mashinostroyeniye, 1957,
Nr 1, p.82 (USSR)

AUTHORS: Chekmarev, A.P., Saf'yan, M.M., Pavlov, V.L.,
Grudev, P.I.

TITLE: Tentative Heat Balance in Plastic Deformation
(Orientirovochnyy teplovoy balans pri plasticheskoy
deformatsii)

PERIODICAL: Trudy In-ta chernoy metallurgii AN UkSSR,
1956, Nr 10, pp. 129-137.

ABSTRACT: For a proper selection of the cooling system for
rollers in a cold-rolling mill it is necessary to know
the quantity of heat emanating during the period of
metal deformation, and the distribution of this heat.
The author's research has indicated that the generated
heat is being dissipated in the two

Card 1/2

Pavlov, V.L.

PAVLOV, V.L.; FIALKOV, Yu.Ya.

Tagged atom technique for the study of iodine exchange reactions in systems containing iodine chloride. Zhur.ob.khim. 26 no.6:1531-1534 Je '56.   (MIRA 11:1)
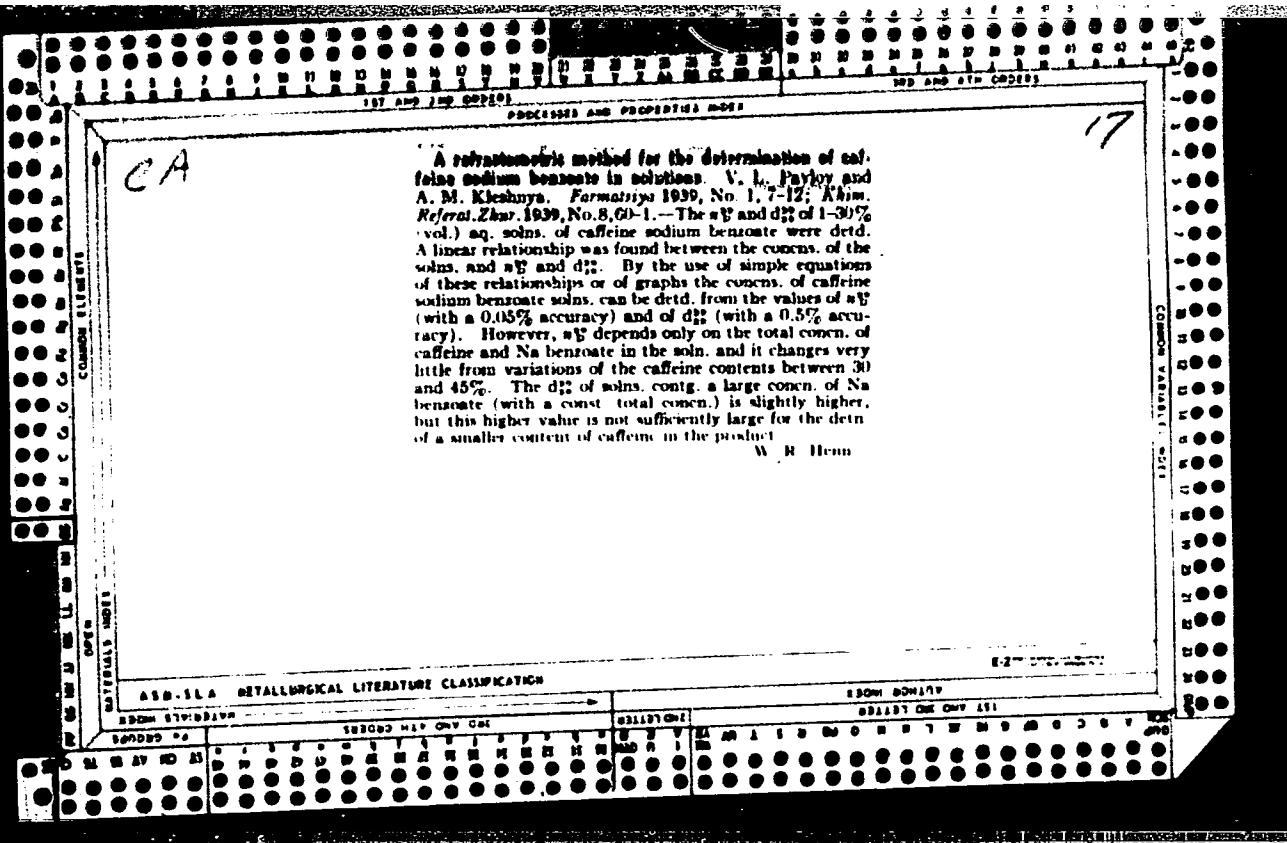
1.Kiyevskiy Gosudarstvennyy universitet.
   (Iodine chlorides)

Pavlov, V.L.

PAVLOV, V.L.; FIALKOV, Yu.Ya.

On hypotriiodic acid. Zhur.ob.khim. 26 no.6:1534-1540 Je '56.

(MIRA 11:1)
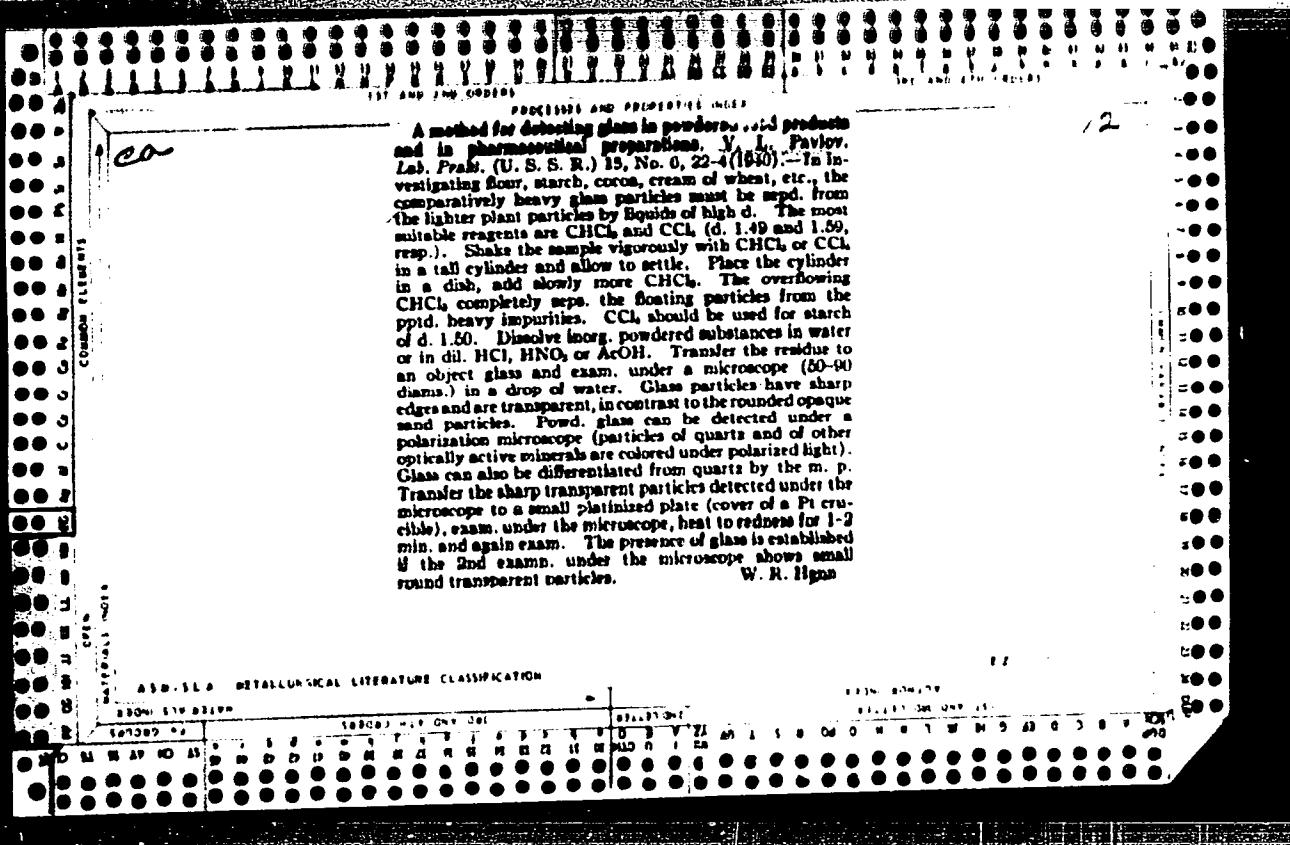
1.Kiyevskiy Gosudarstvennyy universitet.
(Hypoiodites)

CA

A refractometric method for the determination of caffeine sodium benzoate in solutions. V. L. Pavlov and A. M. Kleshnya. *Farmatsiya* 1939, No. 1, 7-12; *Khim. Referat.Zhur.* 1939, No.8, 60-1.—The n_D^{20} and d_4^{20} of 1-30% (vol.) aq. solns. of caffeine sodium benzoate were detd. A linear relationship was found between the concns. of the solns. and n_D^{20} and d_4^{20}. By the use of simple equations of these relationships or of graphs the concns. of caffeine sodium benzoate solns. can be detd. from the values of n_D^{20} (with a 0.05% accuracy) and of d_4^{20} (with a 0.5% accuracy). However, n_D^{20} depends only on the total concn. of caffeine and Na benzoate in the soln. and it changes very little from variations of the caffeine contents between 30 and 45%. The d_4^{20} of solns. contg. a large concn. of Na benzoate (with a const. total concn.) is slightly higher, but this higher value is not sufficiently large for the detn. of a smaller content of caffeine in the product

W. R. Henn

A.S.D.-I.L.A. METALLURGICAL LITERATURE CLASSIFICATION

Determination of strychnine nitrate in solutions. V. L. Pavlov and A. G. Malkina. *Farmatsiya* 1939, No. 3-4, 17-19; *Khim. Referat. Zhur.* 1939, No. 7, 69.—Boil a sample of a 0.05-0.5% soln. of strychnine nitrate for 2-3 min. to remove CO_2. In acidified soln. the free acid should be first titrated with 0.1 N NaOH soln. in the presence of methyl red. Add 5 cc. of $CHCl_3$, shake vigorously, add 3 drops of phenolphthalein and proceed with the titration. The capil. error is about ±0.2-1.8%.

W. R. Henn

CA

7
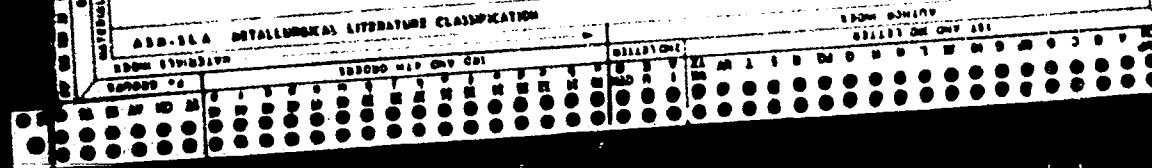
Determining traces of lead in zinc oxide and zinc oint ment. V. L. Pavlov, A. M. Kleshnya and P. Yu. Ventsl Farmatsiya 1940, No. 7/8, 15-20.—A new procedure is described for detg. less than 0.1% Pb in ZnO or its oint ments, with not more than 2% error. The Pb is pptd. as PbCrO₄ in the presence of AcOH and the pptd. chromate is titrated iodometrically. Julian F. Smith

METALLURGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX

/2

A method for detecting glass in powders and products and in pharmaceutical preparations. V. L. Pavlov. Lab. Prakt. (U. S. S. R.) 15, No. 0, 22-4 (1940).—In investigating flour, starch, cocoa, cream of wheat, etc., the comparatively heavy glass particles must be sepd. from the lighter plant particles by liquids of high d. The most suitable reagents are $CHCl_3$ and CCl_4 (d. 1.49 and 1.59, resp.). Shake the sample vigorously with $CHCl_3$ or CCl_4 in a tall cylinder and allow to settle. Place the cylinder in a dish, add slowly more $CHCl_3$. The overflowing $CHCl_3$ completely seps. the floating particles from the pptd. heavy impurities. CCl_4 should be used for starch of d. 1.50. Dissolve inorg. powdered substances in water or in dil. HCl, HNO_3 or $AcOH$. Transfer the residue to an object glass and exam. under a microscope (50-90 diams.) in a drop of water. Glass particles have sharp edges and are transparent, in contrast to the rounded opaque sand particles. Powd. glass can be detected under a polarization microscope (particles of quartz and of other optically active minerals are colored under polarized light). Glass can also be differentiated from quartz by the m. p. Transfer the sharp transparent particles detected under the microscope to a small platinized plate (cover of a Pt crucible), exam. under the microscope, heat to redness for 1-2 min. and again exam. The presence of glass is established if the 2nd examn. under the microscope shows small round transparent particles.   W. R. Ilgen

ASM-SLA   METALLURGICAL LITERATURE CLASSIFICATION

PAVLOV, V. L.

34235. Pavlov, V. L.: Bara.ash, T. I. Vzaimodeystviye alkaloidov s krasitelya mi. Soobshch. i. Kriminalistika i Nauch.-Sudeb. Ekspertiza. SB. Z. Kiyev. 1949, C. 171-79

SO: Knizhnaya Letopis' No. 6, 1955

PAVLOV, V.L.

The exchange reactions of iodine in systems that contain iodine chloride by means of tagged atoms. V. L. Pavlov and Yu. Ya. Fialkov (State Univ., Kiev). *Zhur. Obshchei Khim.* 26, 1631-4(1956).—The exchange between I_2 and ICl was studied at 18° in a 0.4 N soln. of HCl. The I_2 contained I^{131}. The exptl. results showed that complete exchange was accomplished in less than 5 min. This is attributed to the formation of an unstable polyiodide according to the reaction: $ICl + I_2 \rightleftharpoons [I(I_2)Cl] \rightleftharpoons I^*Cl + I^*I$. There was no evidence of exchange between ICl and either KIO_3 or $NaIO_4$ even after 35-8 hrs.   J. R. Leach

This confirms that the solution under study contains [sic]

Pavlov, V. L.

The exchange reactions of iodine in systems that contain iodine chloride by means of tagged atoms. V. L. Pavlov and Yu. Ya. Fialkov. J. Gen. Chem. U.S.S.R. 26, 1711-14(1956)(English translation).—See C.A. 51, 4302c.

B. M. B.

PAVLOV, V.L.

SHIKHAREV, A.P.; PAVLOV, V.L.

Non-uniformity of metal deformation and stresses in rolling large
ingots. Trudy Inst.chern.met. AN URSR 11:67-85 '57. (MIRA 10:4)
(Deformations (Mechanics)) (Rolling (Metalwork))

PAVLOV, V L

KLIMENKO, V.M.; MALENKO, V.I.; CHERNYAKOV, V.D.; PAVLOV, V.L.;
     VOROPYNTSEV, Yu.V.; BORISOV, A.M.; NAZARENKO, Kh.N.; SHAPRAI, I.K.

     Increasing the output of blooming mills. Trudy Inst.chern.met.
AN USSR 11:175-181 '57.   (MIRA 11:4)

                    (Rolling mills)

PAVLOV, Vl.

Case of multiple cerebral abscess. Khirurgiia, Sofia 9 no.4:
362-364 1956.

(BRAIN, abscess,
     multiple, case report (Bul))

/ʻH ↓ ∠ ⅽ V,   ↓ ∼.

USSR/Inorganic Chemistry. Complex Compounds.   C

Abs Jour   : Referat. Zhurnal Khimiya, No 6, 1957, 18874

Author   : V.L. Pavlov, Yu.Ya. Fialkov.
Inst   : ⁻
Title   : Study of Interchange Reactions of Iodine in Systems
              Containing Iodine Chloride Using the Method of Marked
              Atoms.

Orig Pub   : Zh. Obshch. Khimii, 1956, 26, No 6, 1531-1534

Abstract   : Using I^{131} as a radioactive indicator, the inter-
              change reaction of ICl with I_2, IO_3^- and IO_4^- in 0.4 of
              n HCl at 18° was studied. When the interchange re-
              action between ICl and I_2 was studied, I_2 was marked
              and the components were separated by the extraction
              of I_2 with chloroform; and when the interchange re-
              action between ICl and KIO_3 or $NaIO_4$ was studied,
              marked ICl was used and ICl was extracted by ether.
              It was shown that in the system I_2 - JCl the complete
              interchange took place less than in 5 min. (separa-

Card 1/2   -36-

PAVLOV, V.L.; SPIRIDONOV, M.P.

Methods of experimental investigation on metal deformation in
rolling large ingots. Trudy Inst.chern.met.AN UBSR 11:43-52 '57.
(MLRA 1:2)
(Rolling (Metalwork)) (Deformations (Mechanics)--Testing)

Pavlov, V.L.

CHEKMAREV, A.'., PAVLOV, V.L.

Depth of spreading of plastic deformation by compression in
rolling large ingots. Trudy Inst.chern.met.AN UkSR 11:53-66 '57.
                                        (MLRA 10:9)

(Deformations (Mechanics)) (Rolling (Metalwork))

ACC NR: AR6023250   SOURCE CODE: UR/0044/66/000/003/V060/V061

AUTHOR: Pavlov, V. L.

TITLE: Majority logic circuit synthesis

SOURCE: Ref. zh. Matematika, Abs. 3V239

REF SOURCE: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te, vyp. 47, 1965, 35-47

TOPIC TAGS: Boolean function, Boolean algebra, digital computer, circuit design

ABSTRACT: Some separability properties of Boolean functions used for synthesis of majority circuits with three inputs are studied. A method of optimal separation, fully realized on a digital computer, is offered. [Translation of abstract]

SUB CODE: 09,12

Card 1/1   UDC: 519.95

SOV/124-59-8-9208

Translation from: Referativnyy zhurnal, Mekhanika, 1959, Nr 8, p 126 (USSR)

AUTHORS: Chekmarev, A.P., Pavlov, V.L.

TITLE: On the Non-Uniformity of Deformation of the Metal and Stresses
When Rolling Large Ingots

PERIODICAL: In In-ta chernoy metallurgii. AS UkrSSR, 1957, Vol 11, pp 67-85

ABSTRACT: The authors describe the results of a series of experiments for
determining the deformation of metal over the thickness and width
of an ingot, carried out under conditions approximating the pro-
duction conditions. The nature of deformations was determined
from the behavior of rocs pressed into the ingot. It turned out
that the deep layers of metal were deformed little or almost not
at all, when the reductions were small during the first passages
of the ingot through the rollers; this fact can cause the origina-
tion of defects in the product being rolled. The authors express a
series of recommendations aimed at increasing the reduction during
the first passages of the ingot through the rollers

Card 1/1

K.N. Shevchenko

SOV/124-59-8-9207

Translation from: Referativnyy zhurnal, Mekhanika, 1959, Nr 8, p 126 (USSR)

AUTHORS: Chekmarev, A.P., Pavlov, V.L.

TITLE: The Depth of Spread of a Plastic Compression Deformation When
Rolling Large Ingots

PERIODICAL: Tr. In-ta chernoy metallurgii. AS UkrSSR, 1957, Vol 11, pp 53-66

ABSTRACT: The author assumes that not all metal over the thickness of the
bar, is in a plastic state at the beginning of rolling thick in-
gots, and that the portion of metal subjected to plastic de-
formation is compressed, but the rest is stretched. A series
of full-scale tests was performed for determining the boundaries
of the plastic deformation spread. The behavior of the metal was
determined from the deformation of rods and disks pressed into
the ingots at various depths and in various cross sections, and
moreover from the distortion of a net marked on the upper and
lateral flanks of the ingots. The estimation of the plastic de-
Card 1/2   formation degree over the depth was performed on the basis of

AUTHORS: Chekmarev, A.P., Academician, Ukrainian Academy of Sciences, Meleshkc, V.I., Pavlov, V.I., Chekhranov, V.L., Candidates of Technical Sciences and Tsukanov, G.E., Shafran, I.E. Engineers, Ivanin, M.P., Senior Operator

TITLE: Rolling of Twin Ingots on a 1150 Blooming Mill (Prokatka sdvoyennykh slitkov na bluminge 1150)

PERIODICAL: Stal', 1959, Nr 3, pp 243 - 247 (USSR)

ABSTRACT: A rolling practice of rolling two ingots (in line one after the other) into blooms and slabs introduced at the Dzerzhinskiy Works at the end of 1957 is described. Changes in the roll passes made in 1958 are shown in Figures 1 and 2: characteristic dimensions and weights of rolled ingots - Table 1; rolling conditions during simultaneous rolling of two ingots into blooms - Table 2 and into slabs - Table 3. The operation of the mill under the above rolling conditions was investigated in co-operation with the Iron and Steel Institute of the Ac.Sc.Ukrainian SSR. Examples of the oscillographs obtained, indices of the loads and rolling velocities on rolling single and twin ingots are shown in Figures 4 and 5 and Tables 4 and 5, respectively. The experience of this type of rolling practice indicated that it is advantageous to apply it on all blooming mills as a

Card1/2

SOV/... ...

Rolling of Twin Ingots on a 1150 Blooming Mill

15-30% increase in the output (depending on the type of ingot and dimensions of blooms and slabs) can be obtained. This increase is mainly due to a decrease in the rolling time. By maintaining correct rolling velocities the occurrence of shocks in the main mill line (when the grip of the second ingot takes place during the retardation of the motor) can be avoided. When introducing twin-ingot rolling in existing mills, it is necessary to introduce protective measures from overloading of asynchronous and rolling motors according to heating conditions. When designing new mills or reconstructing an existing mill, the possibility of rolling twin ingots should be taken into consideration. For this purpose, an increase in the power of motors and an increase in the length of the manipulator is necessary. There are 5 figures and 5 tables.

ASSOCIATIONS: Institut chernoy metallurgii AN USSR (Institute Yernaa Metallurgy, AS UkSSR, and zavod im. Dzerzhinskogo (im. Dzerzhinskiy Works)

Card 2/2

PAVLOV, V.L., kand.tekhn.nauk; MELESHKO, V.I., kand.tekhn.nauk;
TOPOROVSKIY, M.P., inzh.

Kinematic interaction of horizontal and vertical slabbing mill
rolls. Trudy Inst. chern. met. AN URSR 17:45-54 '62.

(MIRA 15:10)

(Rolling mills)

MIESHKO, V.I., kand.tekhn.nauk; PAVLOV, V.L., kand.tekhn.nauk

Methods of approximate estimates of slabbing mill output.
Trudy Inst. chern. met. AN URSR 17:142-146 '62.   (MIRA 15:10)
(Rolling mills)

CHEKMAREV, A.P., akademik; MELESHKO, V.I., kand.tekhn.nauk; PAVLOV, V.L.,
    kand.tekhn.nauk; CHEKHRANOV, V.D., kand.tekhn.nauk; KARPUHIN,
    A.M., inzh.; CHEPELEV, P.M., inzh.

New roughing conditions on 950 blooming mills. Trudy Inst.
chern. met. AN URSR 15:189-199 '61.   (MIRA 15:2)

1. Akademiya nauk USSR (for Chekmarev).
                    (Rolling mills)

CHEKMAREV, A.P., akademik; MELNIKO, V.I., kand.tekhn.nauk; PAVLOV, V.L.,
kand.tekhn.nauk; CHUKHRANOV, V.D., kand.tekhn.nauk;
GALATOV, N.S., inzh.; LIKHORADOV, A.P., inzh.

Blooming mill operations with individual roll drives. Trudy
Inst. chern. met. AN URSR 15:177-188 '61.   (MIRA 15:2)
(Rolling mills—Electric driving)

BURKSER, Yevgeniy Samoylovich; PAVLOV, V.L., otv.red.; TUBOLEVA, M.V., red.

[What is geochemistry about?] Chem zanimaetsia geokhimiia. Kiev, 1960. 36 p. (Obshchestvo po rasprostraneniiu politi-cheskikh i nauchnykh znanii Ukrainskoi SSR. Ser.5, no.8)

(MIRA 13:11)

1. Chlen-korrespondent AN USSR (for Burkser).
            (Geochemistry)

ACC NR: AR6023346   SOURCE CODE: UR/0271/66/000/004/B003/B003

AUTHOR: Pavlov, V. L.

TITLE: Synthesis of logic circuits of majority elements

SOURCE: Ref. zh. Avtomat telemekh i vychisl tekhn. Abs. 4B21

REF SOURCE: Tr. Sibirsk. fiz-tekhn. in-ta pri Tomskom un-te, vyp. 47, 1965, 35-47

TOPIC TAGS: logic circuit, Boolean function, majority element

ABSTRACT: Certain properties of the functional separability of Boolean functions
used in the synthesis of majority schemes with three inputs are investigated. A
method is proposed for finding the optimal ψ-separation of the Boolean function, under
which lie the following theorems: 1. The Boolean function f(X) ψ-is separable over
the triad (A, B, C) if the system of Boolean equations is compatible:

$$f^i(D) = \psi\,[f_1^i(D),\ f_2^i(D),\ f_3^i(D)];\quad i=0,1,\ldots,2^N-1.$$

Here $N = \sigma(A \cup B \cup C)$, $D = X \backslash (A \cup B \cup C)$; f^i, f_1^i, f_2^i, f_3^i —

is the coefficient of expansion of the functions f, f_1, f_2, f_3 with respect to the
variables $X_k \subseteq (A\ B\ C)$. 2. If the Boolean function f(X) is ψ-separable for the triad
(A, B, C), then it is ψ-separable for any triad (A', B', C'), where $A' \subseteq A$, $B' \subseteq B$,
$C' \subseteq C$. 3. To establish the ψ-separability of the Boolean function f(X) for at least

Card 1/2   UDC: 681.142.1

ACC NR: AR6023346

one triad (A, B, C), it suffices to check its separability with respect to $C^3_n + C^2_n$ elementary triads. Certain theorems concerning related problems of ψ-separability are formulated and proved. The method permits realization of all operations on a digital computer. [Translation of abstract] 2 illustrations and bibliography of 10 titles. Yu. U.

SUB CODE: 09, 12

Card 2/2

PAVLOV, Vyacheslav Aleksandrovich, prof.; SHASKOL'SKAYA, N.D., red.;
SIDOROVA, V.I., red.izd-va; TITOVA, L.L., tekhn.red.

[Metabolism and biological rotation] Obmen veshchestv i bio-
logicheskii krugovorot. Moskva, Gos.izd-vo "Vysshaia shkola,"
1960. 93 p.   (MIRA 13:7)
                    (METABOLISM)

PAVLOV, V.L.; FIALKOV, Yu.Ya. [Fialkov, IU.IA.]

Iodine exchange reactions between compounds of various oxidation
levels. Nauk.zap.Kyiv.un. 16 no.15:71-78 '57. (MIRA 11:11)
(Iodine compounds)

PAVLOV, V.L., BARABASH, T.I.

Photocolorimetric determination of atropin, veratrine, cocaine, codeine, and ethylmorphine in the form of compounds with methyl orange, tropeolin 00, eosin, and erythrosin. Apt.delo 7 no.5:43-48 S-0 '58   (MIRA 11:10)

1. Iz sudebnokhimicheskogo otdela Kiyevskogo nauchno-issledovatel'-skogo instituta sudebnoy ekspertizy.
          (ALKALOIDS)
          (COLORIMETRY)

PAVLOV, V.L.; ROZHENKO, O.A.

"Unnatural" color of some foodstuffs. Sud.-med.Ekspert. 6
no.1:18-20 Ja-Mr '63.   (MIRA 16:2)

1. Kiyevskoye oblastnoye byuro sudebnomeditsinskoy ekspertizy
(nachal'nik N.N. Strelets).
        (CHEMISTRY, FORENSIC)   (FOOD CONTAMINATION)

Pavlov L L

137-1958-2-2769

Translation from Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 80 (USSR)

AUTHORS: Chekmarev, A.P., Pavlov, V.L

TITLE   The Distribution in Depth of the Plastic Compression Deformation
            in Large-ingot Rolling (Glubina rasprostraneniya plasticheskoy
            deformatsii szhatiya pri prokatke krupnykh slitkov)

PERIODICAL   Tr. In-ta chernoy metallurgii AN U   , 1957, Nr 11, pp 53-66

ABSTRACT   The distribution in depth of a plastic compression deformation
             (DD) in the rolling of large ingots is determined a) by the magni-
             tude of the reduction, an increase in which increases the DD;
             b) by the H/D and H/B ratios, an increase in which decreases
             the diffusion depth; and c) by the plasticity of the steel, which
             depends on the chemical composition and structure of the metal,
             the rolling temperature, and the extent to which the ingot has been
             heated through. The DD is likewise affected by the speed of rolling
             and the magnitude of the external friction coefficient. The DD is
             not uniform throughout the width of the billet; it is greatest along
             the center of the billet, diminishing toward the sides. As the edges
             of the focal area of plastic compression deformation draw closer to
Card 1/2   the center of the billet, the deformation of the metal becomes more

13 1958-2-2769

The Distribution in Depth of the Plastic Compression Deformation (cont)

difficult. The inequalities $H/D \le \alpha$ and $H/l_\alpha \le 2$ do not delimit the penetration of the deformation throughout the entire height of the billet. The results of this study reveal a correlation between DD's which can be determined by direct measurement and those which are inferred from changes in the lateral contour.

V. D.

1. Ingots—Rolling   2. Ingots—Deformation   3. Steel—Plasticity

Card 2/2

P'A ⟨ /. ⟨ l'. /.   137-1958-2-2783

Translation from Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 83 (USSR)

AUTHORS: Chekmarev, A. P., Pavlov, V. L

TITLE.   On the Nonuniformity of the Deformation in Metal and on the
               Stresses That Occur in Large-ingot Rolling (O neravnomernost:
               deformatsii metalla i napryazheniyakh pri prokatke krupnykh
               slitkov)

PERIODICAL: Tr. In-ta chernoy metallurgii AN UkrSSR. 1957, ⟨... ⟩
               pp 67-85

ABSTRACT: A study was made of the change in degree of nonuniformity of
               the deformation (D) and of its distribution pattern in their relation
               to the amount of reduction (R) obtained and to various other factors.
               Eight 6.5 - 7.5 ton ingots of two grades of steel (axle and bridge)
               were rolled experimentally on an 1150 mm blooming mill at the
               Dzerzhinskiy works. The extent of vertical and transverse deform-
               ation in different regions of the billet, as related to the amount of
               R and other factors in the rolling process, was judged by the D
               of elements of composite spindles (sockets) and the pitch of a
               tapped thread which had been driven into the ingot in advance
Card 1/2   When the ingots were rolled on the blooming mill, the vertical

137-1958-2-2783

On the Nonuniformity of the Deformation in Metal (cont)

nonuniformity coefficient of the D decreased as the reduction
increased. It was found that the vertical and transverse nonuni-
formity of a deformation. the relative reductions being equal, was
more clearly pronounced in the case of the tougher metal (the
axle steel). When the large ingots were rolled on the 1150 mm
blooming mill, the lateral and vertical distribution of the trans-
verse spreading that occurred in the billet was generally unevenly
distributed and was related to the lateral and vertical depth of
penetration of the compressive D deformation into the billet
section   The tests showed that increasing the effective diameter
of the blooming-mill rolls to 1100-1150 mm (in the rolling of
7 - 7.5 ton low-carbon and medium-carbon steel ingots) assured
deformation of the central strata from the very first pass. To
produce, however, a relatively uniform vertical distribution of
the deformation in the billet. the diameter would have to be in-
creased to 1400 mm, which would necessitate a special review of
the problem from the point of view of the power requirement

<div align="right">B Ye</div>

1. Metals—Deformation—Analysis

Card 2/2

?A (/((:· L

137-1958-2-2790

Translation from   Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 84 (USSR)

AUTHORS: Klimenko, V M., Meleshko, V. I., Chekhranov, V. D., Pavlov, V. L., Vorotyntsev, Yu V. Bortunov, Ye M., Nazarenko, Kh N, Shafran, I K.

TITLE: Increasing Blooming-mill Productivity (Uvelicheniye proizvodi-tel'nosti blyuminga)

PERIODICAL   Tr In-ta chernoy metallurgii AN UkrSSR 1957 Vol 1, pp 175-181

ABSTRACT: A comprehensive investigation of the performance of an 1150 mm blooming mill at the Dzerzhinskiy plant revealed ways in which blooming-mill output capacity could be increased. These required the adoption of certain technical and procedural measures, namely, improving the performance of the clamping gear and of the main power unit, better regulation of the heating of the metal, etc. Once this had been done and the new high-reduction runs had been inaugurated, the rolling operation could be shortened by 4-8 passes and 1-3 turnings, with a simultaneous 150 percent increase of the reduction per smooth roll and 200 percent increase of the reduction per grooved section roll. The quality of the rolling was not impaired, industrial tests showing that the incidence of rejects had declined from 1 percent to 0 6 percent.

V D.

Card 1/1

1. Rolling mills--Production

BUDNITSKIY, A.B.; VENIKOV, V.A.; GIZILA, Ye.P.; GREBEN', I.I.;
IYERUSALIMOV, M.Ye.; KALNIBOLOTSKIY, M.L.; KONDRA, B.N.;
LOYEV, Ye.G.; NESTERENKO, A.D.; PAVLOV, V.M.; POSTNIKOV, I.M.;
POBEGAYLO, K.M.; RADCHENKO, L.A.; SVECHNIKOV, L.V.; SYROMYATNIKOV,
I.A.; FEDOSEYEV, A.M.; FEDCHENKO, I.K.; KHODOROV, S.Ye.;
CHIZHENKO, I.M.; TSUKERNIK, L.V.

Professor Vasilii Grigor'evich, 1904 -; on his 60th birthday.
Elektrichestvo no.4:93-94 Ap '64.
(MIRA 17:4)

PAVLOV, V. M.

"Parameters of Synchronous Machine with Massive Rotor."
Cand Tech Sci, Order of Electrical Engineering, Kiev Order of
Lenin Polytechnic Inst, Min Higher Education USSR, Kiev, 195-.
(KL, No 10, Mar 5-)

SO: Sum, No. 1- , De - n-Survey of Scientific and Tech
Dissertations Defended at USSR Higher Educational Inst tut ons)

PAVLOV, V.M.

"Hydrology of dry land". A.I.Chebotarev. Reviewed by V.M.Pavlov.
Meteor.i gidrol. no.6:67 Je '56.   (MIRA 9:9)
(Hydrology) (Chebotarev, A.I.)

PAVLOV, V. M., Kandidat ... ; DVORNIKOV, ... ;
     POTTIKIN, I. M., ...

     Use of solid ... centers. Dokl. ...
27 no. 11;21-40 : '57   (...)

1. Kiyevsk, ... (...).
2. Khar'kovsk, ... eng. ...
     (...).

               (...)

PAVLOV, V.M.; KUKSA, V.I.

Experience in working with the TB--52 bathythermograph. Trudy Inst.
okean. 25:88-97 '57..   (MIRA 11:2)
(Oceanographic instruments)

ACC NR, AT6031778 (N) SOURCE CODE: UR/2566/65/077/000/0053/0066

AUTHOR: Pavlov, V. M.; Grechushnikov, B. N.

ORG: none

TITLE: Certain aspects of the theory of polarization of diffused light at sea

SOURCE: AN SSSR. Institut okeanologii. Trudy, v. 77, 1965. Gidroopticheskiye issledovaniya (Optical studies of ocean water), 53-66

TOPIC TAGS: light diffusion, oceanography, sun, sea, light, underwater flight

ABSTRACT: The relationship between the position of the sun and the distribution of polarization parameters of underwater light is explained. The ability of some submarine creatures to orient themselves in water seems to depend on the above mentioned relationship. The authors give some results of the calculation and analysis of the diffusion by volume of the particles, which is $\rho = 6$, and the index of refraction $m = 1.167$. The authors are deeply grateful to V. N. Lebedeva, Fellow of the Institute of Crystallography of the Academy of Sciences USSR, for her great help and valuable advice during the preparation of the given work. Orig. art. has: 4 figures, 13 formulas, and 2 tables.

SUB CODE: 17, 08, 03, 06, 20/SUBM DATE: none/ORIG REF: 012/ OTH REF: 026/

Card 1/1   awm   [GC]

L 10230-66

ACC NR: AP6002411

SOURCE CODE: UR/0105/64/000/010/0087/0088

AUTHOR: Greben', I. I.; Iyerusalimov, M. Ye.; Kondra, B. M.; Nesterenko, A. D.; Pavlov, V. M.; Postnikov, I. M.; Kholmskiy, V. G.; Chunihenko, I. M.

32
B

ORG: none

TITLE: Professor I. K. Fedchenko (60th birthday and 35th anniversary of his scientific and pedagogical activity)

SOURCE: Elektrichestvo, no. 10, 1964, 87-88

TOPIC TAGS: electric engineering personnel, electric engineering

ABSTRACT: September 26, 1964 was the 60th birthday of Ivan Kirilovich Fedchenko, Doctor of Technical Sciences and Professor in Charge of the Chair "Tekhnika vysokikh napryazheniy" (High-voltage engineering) at the Kiev, Order of Lenin, Polytechnical Institute. His entire career was spent at this institute. He successfully defended his dissertation in 1936 and became a reader (docent). He has published more than 60 scientific papers. Between 1934 and 1940 he set up production of domestic high-voltage capacitors. Much of his activity has been devoted to capacitor problems. After the war he worked on the problem of earth conductivity and use of earth as a return in power transmission. Fedchenko took his doctorate in 1951 defending a dissertation on earth as a conductor, which was

UDC: 621.3.027.3

Card 1/2   2

L 10230-66

ACC NR: AP6002411   0

later published as the monograph "Teoriya zemlyanogo provoda" (Theory of
earth as a conductor). He has worked extensively on insulations. His
most recent work is on electric arcs. For his achievements Fedchenko holds
two orders of the Red Banner of Labor, in addition to several military awards.
Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09 / SUBM DATE: none

Card 2/2

PAVLOV, V.M., kand. tekhn. nauk

The remote-control bladeless current meter. Meteor. i gidrol. no.8:
56-57 Ag '65.   (MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet, geograficheskiy fakul'tet.

RYBACHOK, I.N.; FAVLOV, V.M.

Apparatus for the dehydration of emulsions. Mash. . neft. . .
no.4:8-10 '65.   (MIRA . 8:

1. Volgogradskiy nauchno-issledovatel'skiv institut neftyanoy
gazovoy promyshlen   i   dokumenti   .

GREBEN', I.I.; IYERUSALIMOV, M.Ye.; KONDRA, B.N.; NESTERENKO, A.D.;
     PAVLOV, V.M.; POSTNIKOV, I.M.; KHOLMSKIY, V.G.; CHIZHENKO, I.M.

     Ivan Kirillovich Fedchenko, 1904-; on his 60th birthday and the
     35th anniversary of his theoretical and educational work.
     Elektrichestvo no.10:87-88 O '64.   (MIRA 17:12)

APOLLOV, B.A.; PAVLOV, V.M.

Bladeless current meter. Meteor. i gidrol. no.6:54-55 Je '63.
(MIRA 16:6)

1. Moskovskiy gosudarstvennyy universitet.
(Currents (Hydrology)--Measurement)

PAVLOV, V.M.

Use of the hydraulic index of a river bed in the extrapolation
of discharge curves. Meteor.i gidrol. no.11:45-47 N '62.

(MIRA 15:12)

1. Moskovskiy gosudarstvennyy universitet.
(Rivers)

BOGACHOV, G.N.; PAVLOV, V.M.; CHERNYKH, V.I.; KLYUKINA, E.P.

Oxidizing calcination of chromite charges in furnaces with a
fluidized bed. Khim. prom. no.9:63-64 S '61.   (MIRA 15:1)
(Sodium chromate)
(Furnaces)

S/169/62/000/00'/07'/08')
D228/D302

AUTHOR: Pavlov, V. M.

TITLE: Polarization of natural light in the sea

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 1, 1962. 20, ab
stract 1V127 (Tr. In-ta okeanol. AN SSSR, 47, 196.
80-91)

TEXT: Data obtained on the phenomenon of the natural polariza*:
of light in the sea are reviewed. These data were obtained by v.
sual-photographic and photoelectric instruments. Devices of the
first type are based on application of analyzers in which light
while passing through a crystallo-optical mounting, forms an in
terference picture caused by the degree of polarization of under
water light and by the position of the plain of polarization. By
means of the telecontrollable photoelectric polarimeter it is
possible to measure the degree of polarization in all direction°
in a horizontal plane, also vertically upwards and downwards. T
measurement results led to the conclusion that the polarization

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PAVLOV, V.M.; SHISHKO, I.I.

      Blending of chromite charges in a fluidized bed.   Khim.prom. no.11:
      781-782 N '61.   (MIRA 15:1)
          (Chromite)   (Fluidization)

USSR/Forestry - Forest Crops.   K.

Abs Jour   : Ref Zhur - Biol., No 15, 1958, 68037

Author   : Grozdov, B.V., Gurov, F.M., Pavlov, V.M., N'konchuk, V.N.

Inst   : Bryansk Forest Economy Institute.

Title   : Introducing Some Quick-Growing Tree Species into the
              Forests of Bryansk Oblast'.

Orig Pub   : Tr. Bryanskogo lesokhoz. in-ta, 1957, 8, 55-64.

Abstract   : Data on investigations of the growth rate of larch crops
              of different geographic derivations demonstrate that the
              most favorable for conditions in Bryansk, Kaluga, and
              Smolensk oblast's are the European larch (of plain deriva-
              tion), the Polish larch, and Sukachev larch from the
              southwestern part of its habitat (especially the large-
              coned variant). The best soil for larches is a leached
              chernozem with a loess subsoil; next best are grey,

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- 24 -

DEMICHEV, A.D.; KISELEV, V.F., starshiy dorozhnyy master (stantsiya Ira-Iol'
Pechorskoy dorogi);KOZLOVSKIY,A.D.;KOMANDIN,A.A. starshiy dorozhnyy master
(Stantsiya Polotsk Belorusskoy dorogi);KURS, V.G., brigadir puti(stant-
siya Cheremkhovo Vostochno-Sibirskoy dorogi); PAVLOV. V.N., brigadir
puti (stantsiya Cheremkhovo Vostochno-Sibirskoy dorogi); SHAKHBALAYEV,
A.M., dorozhnyy master (stantsiya Zenzeli Ordzhonikidzevskoy dorogi);
TARASENKO, V.Ye., dorozhnyy master (stantsiya Irkutsk II)

Letters to the editor. Put' i put.khoz. no.11:43-45 N '58.
(MIRA 11:12)
1. Nachal'nik normativnoy stantsii tresta "Rekput' " (for Demichev).
2. Zamestitel' nachal'nika distantsii, stantsiya Kizel Sverdlovskoy
dorogi (for Kozlovskiy).
(Railroad engineering)

BARDYSHEV, G.M.; BERLIN, I.Z.; VAYNSHTOK, M.Z.; LEVIN, S.I.;PAVLOV, V.N.;
    FUSHKANTSEV, B.N.; SAMOCHETOV, V.F.; SEMENOV, M.G.; SOKOLOV, A.Ya.;
    KHUVES, E.S., inzh.; EMANUEL', T.P.; GRIGOR'YEV, K.P., inzh., red.
    [deceased]; DENISENKOVA, L.M., red.; D'YACHENKO, V.M., red.; SAVEL'YEV,
    Z.A., tekhn. red.

[Technical handbook for workers in the grain-elevator industry] Tekhni-
cheskii spravochnik rabotnika elevatornoi promyshlennosti. Pod obshchei
red. Grigor'eva K.P. i Khuvesa E.S. Moskva, Izd-vo tekhn. i ekon. lit-
ry po voprosam khleboproduktov. Pt.1. 1960. 339 p.   (MIRA 14:11)
                    (Grain elevators)

PAVLOV, V.N.

Work results in developing animal husbandry and strengthening the food supply on the Stalin Collective Farm in Slavsk District, Kaliningrad Province. Nauch. trudy KOMS no.1:175-187 '59.

(MIRA 15:1)

1. Kolkhoz imeni Stalina Slavskogo rayona, Kalingradskaya oblast'.
(Slavsk District--Pastures and meadows)

PAVLOV, V. N., CAND AGR SCI, "ACCELERATED ESTABLISHMENT
OF DRILL HAY HARVESTS ON POLDER LANDS OF KALININGRADSKAYA
OBLAST." LENINGRAD-PUSHKIN, 1961. (MIN OF AGR RSFSR, LE-
NINGRAD AGR INST, CHAIR OF MEADOW CULTURE). (KL, 3-61,
226).

PAVLOV, V. N., Cand Biol Sci -- (diss) "Principal regularities of vertical-zonal distribution of the vegetation cover of Kazakhstan subtropics. (Bostandyk Rayon of Yuzhno-Kazakhstanskaya Oblast)." Mos, 1955. 19 pp (Mos Order of Lenin and Order of Labor Red Banner State Univ im M. V. Lomonosov, Biol-Soil Faculty, Chair of Geobotany), 100 copies (KL, 2-58, 112)

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New Bergenia species from the western Tien Shan. Biul.MOIP. Otd.biol.
62 no.3:87-90 My-Je '57.   (MLRA 10:8)
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Vegetation of Bostnadyk and possibilities for its economic utilization. Izv. AN Kazakh. SSR. Ser. bot. i pochv. no.1: 86-105 '59.   (MIRA 13:6)
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Some data on high-altitude flora and vegetation in the western
Tien Shan. Nauch.dokl.vys.shkoly; biol.nauki no.2:138-145 '59.
(MIRA 12:6)

1. Rekomendovana kafedroy geobotaniki Moskovskogo gosudarstvennogo
universiteta im. M.V.Lomonosova.
(Tien Shan--Alpine flora)