20709

S/120/61/000/001/050/062
E032/E114

Photomultiplier Detection of X-ray Pulses

pulses was found to be independent of the cathode material. When
the tube incorporates a nitrogen trap, the form of the pulse
remains stable when the pressure is increased to 10^{-3} mm Hg. When
the tube is operated without the trap, the stability deteriorates.
The optimum working conditions of the tube at a working voltage of
470 kV per pulse were: pressure 10^{-5} mm Hg, anode to cathode
distance 25 mm. The amplitude of the pulse under these conditions
does not vary by more than $\pm$ 3% over long periods of time. The
total output of X-rays is then 10^{19} - 10^{20} quanta/sec with a pulse
duration of $(3-4) \times 10^{-7}$ sec.
There are 1 figure and 5 references: 2 Soviet and 3 non-Soviet.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR
             (Institute of Chemical Physics, AS USSR)

SUBMITTED: June 24 1959, and in final form December 19, 1959

Card 3/4

IPATOV, A.F.

22917   O skhodimosti polinonov s. n. bernshteyna dlya funktsiy dvukh peremennykh.

uchen. sapiski karelo-fin. gos. un - ta, T. II, vyp. 4, 1947 (Izd: 1949),

c. 53 - 57.

SO: LETOPIS' NO. 31, 1949

KOVAL'CHUK, L.M., kand. tekhn. nauk; IPATOV, A.F., inzh.; KSYUNINA, N.G.,
    inzh.

Gluing wood by heating in a diffuse electric field of high-
frequency currents. Der. prom. 11 no.7:11-13 Jl '62.
                                                (MIRA 17:1)

SOLOMATIN, A.; IPATOV, A.F., dotsent, nauchnyy rukovoditel'

Mapping the interior of a regular octagon on a circle. Sbor.
nauch. rab. stud. Petrozav. gos. un. no.6:67-77 '62.

(MIRA 17:11)

1. Kafedra teorii funktsiy i geometrii Petrozavodskogo
gosudarstvennogo universiteta.

L 43728-65   EEO-2/EWT(d)/FSS-2/EEC(k)-2/EWG(v)/EED-2/EWA(c)   Pn-4/Po-4/Pe-5/
ACCESSION NR: AR5009481   Pq-4/Pg-4/Pk-4/Pl-4   S/0124/65/000/003/A012/A012
BC

SOURCE: Ref. zh. Mekhanika, Abs. 3A95

AUTHOR: Ipatov, A.F.

TITLE: An analytic extension of a gyro axis nutation angle and a spherical pendulum [...] a complex time-related plane

[...] RCE: Uch. zap. Petrozavodsk[...], [...] 11, [...] 3, 1963 (1964), 24-27

[...] ICS: Lagrange gyroscope, gyro nutation angle, time related equation, parameter [...] limitation, complex time concept

TRANSLATION: The author analyzed the nutation angle θ of a Lagrange gyroscope, the cosine γ of which is related to time by the equation

$$dt = \frac{[...]}{\gamma \, P(\gamma, h, r_3, K)} \qquad (1)$$

$$P(\gamma, h, r_3, K) = -2\gamma^4 - (h + [...]) \gamma^3 - [...] \gamma + {} $$
$$+ (1 - K^2)$$

$$h = \frac{C_1 - C r_0^2}{M l^2}, \quad K = \frac{C_1}{M l^2}, \quad b = \frac{C}{A}$$

Card 1/2

0

ACCESSION NR.: AR5009481

... at the realness of magnitudes p, q, r and the Euler angles requires the ... ...on (1) above. The author ... equation ...

...mation of the ...

$$T_1 = \tau + \tau' = \frac{u}{\sqrt{(1-U^2)}}\,dU \qquad (2)$$

This is followed by conformal representation of planes T_1 and U_1, as well as by the expansion of parameter change boundaries. M.I. Yefimov

SUB CODE: ME, EG   ENCL: 00

Card 2/2

MEL'NIKOV, V.P., inzh.; SLATIN, V.A., inzh.; NOR-AREVYAN, K.L., inzh.;
IPATOV, A.I., inzh.; SHKURO, L.A., inzh.; TYUTYURNIKOV, B.D.,
inzh.

Let us give high-quality equipment to the reinforced-concrete-
products plants! Transp. stroi. 12 no.3:30-33 Mr '62.
(MIRA 16:11)

IPATOV, A.M.

Effect of the moisture of flax bast on its mechanical properties.
Izv. vys. ucheb.zav.; tekh. tekst. prom. no.1:32-35 '65.   (MIRA 18:5)

1. Kostromskoy tekhnologicheskiy institut.

IPATOV, A.M.

Disruption of bonds between fiber and woody portions in the displacement of the tow along the edge. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.4:40-45 '65.   (MIRA 18:9)

1. Kostromskoy tekhnologicheskiy institut.

L 19761-65   EWT(d)/T/EWP(1)   Pg-4/Ph-4/P1-4   IJP(c)/AFWL/SSD/ASD(a)-5/ASD(s)/
AFMD(p)/AFETR/RAEM(c)/ESD(c)/ESD(dp)   MLK
ACCESSION NR: AT4047759   S/0000/64/000/000/0240/0242

AUTHOR: Ipatov, A. S.

TITLE: Method of constructing a bounded-distance code

SOURCE: AN SSSR. Institut avtomatiki i telemekhaniki. Teoriya i primeneniye
avtomaticheskikh sistem (Theory and application of automatic systems).
Moscow, Izd-vo Nauka, 1964, 240-242

TOPIC TAGS: code, coding, bounded distance code

ABSTRACT: For $D = 2^k \pm 1$ (where D is the code distance, $k \geq m$, and m is the
number of information symbols in a code word), the optimum code can be
constructed by the equivalent-pair method. The newly-formed set is a group
having a code distance equal to the sum of the code distances of isomorphically
added groups. The method of isomorphous addition can also be used with ordered
sets between which a one-to-one correspondence exists. A code consisting of an

Card 1/2

L 19761-65
ACCESSION NR: AT4047759

...dered subset of binary numbers has a distance 2, while the number N_1 of words that can be formed by means of this code is given by: $N_1 \leqslant 2^m = 2^{m-1}$, where m_0 is the word length. The all-combination code is an ordered subset of binary numbers with D = 1 and $N_1 \leqslant 2^m$, where m is the word length. In the limit case $N_1 = N_1 = N$. If a one-to-one correspondence is established between the terms of the first and second subsets, then, by combining corresponding words of both codes, new code words with D = 3 can be obtained. Orig. art. has: 10 formulas.
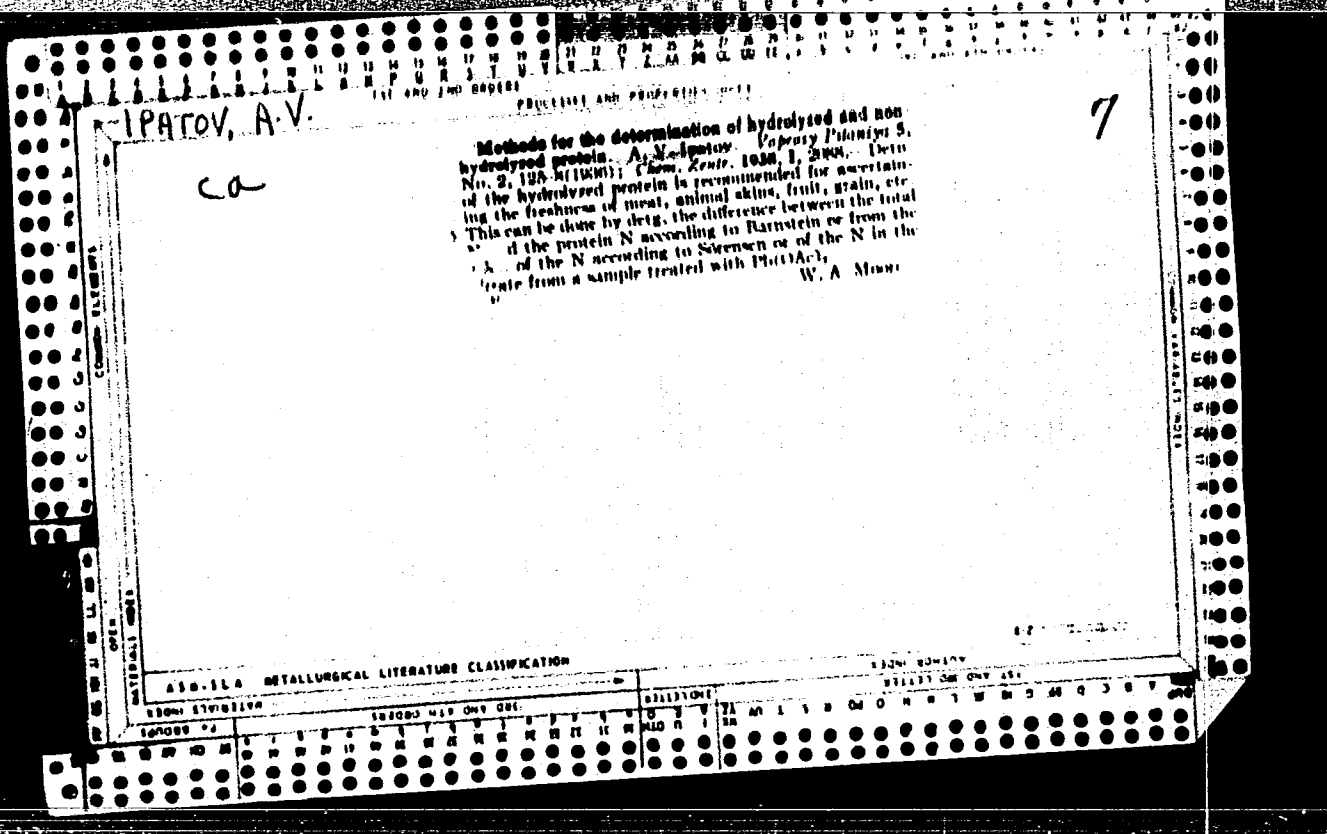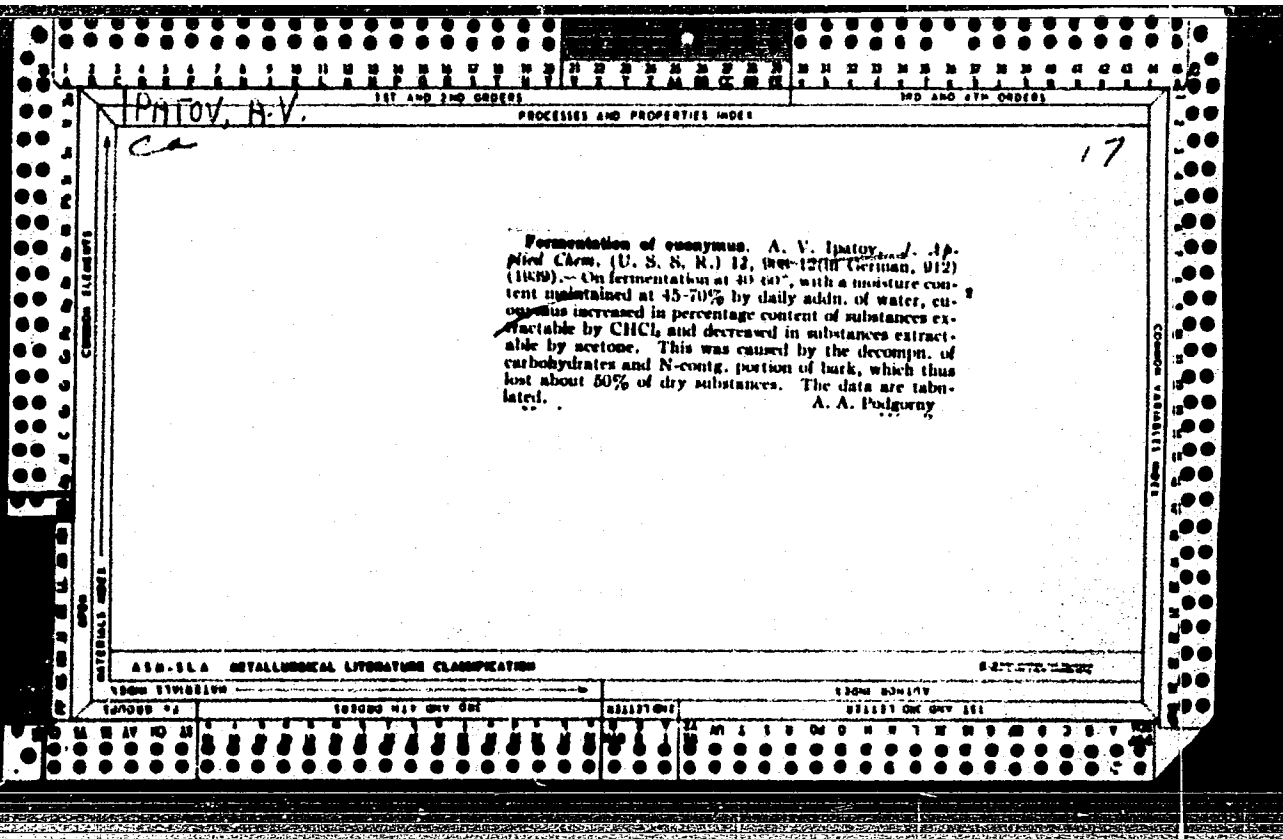
ASSOCIATION: none

SUBMITTED: 06Jun64

SUB CODE: DP   NO REF SOV: 002   ENCL: 00

OTHER: 000

Card 2/2

IPATOV, A.V.

7

Methods for the determination of hydrolyzed and non-hydrolyzed protein. A. V. Ipatov. *Voprosy Pitaniya* 5, No. 2, 19A-K (1936). Chem. Zentr. 1938, I, 3444. Determination of the hydrolyzed protein is recommended for ascertaining the freshness of meat, animal skins, fruit, grain, etc. This can be done by drtg. the difference between the total of the protein N according to Barnstein or from the N of the N according to Soerensen or of the N in the of the N according to Soerensen or of the N in the of the N according to Soerensen or of the N in the rate from a sample treated with HCl Act.

W. A. Munn

METALLURGICAL LITERATURE CLASSIFICATION

PHTOV, A. V.

1ST AND 2ND ORDERS — PROCESSES AND PROPERTIES INDEX — 3RD AND 4TH ORDERS

17

Fermentation of euonymus. A. V. Ipatov, *J. Applied Chem.* (U.S.S.R.) 12, 909–12 (in German, 912) (1939).— On fermentation at 40-60°, with a moisture content maintained at 45-70% by daily addn. of water, euonymus increased in percentage content of substances extractable by CHCl₃ and decreased in substances extractable by acetone. This was caused by the decompn. of carbohydrates and N-contg. portion of bark, which thus lost about 60% of dry substances. The data are tabulated.   A. A. Podgorny

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

IPATOV, A.V.

Ca

29

Autolysis of fresh and preserved hides during storage A. V. Ipatov. *Kozhevenno-Obuvnaya Prom. S. S. S. R.* **18**, No. 12, 5-7 (1939).—The albumin N pptd. by the Harnstein method may be considered as characterizing the nonhydrolyzed albumin present in the hide. This value decreases as the hide decomps. Hide decompn. is also characterized by increase of ammonia and amino N.
A. A. Roehtlingk

IPATOV. N.V.

10

PROCESSES AND PROPERTIES INDEX

Isopropyl and isobutyl esters of acrylic acid. A. V. Ipatov. *J. Gen. Chem.* (U. S. S. R.) 10, 806–8(1940).— The iso-Pr ester (I) and iso-Bu ester (II) of acrylic acid (III) have been prepd. because of possible industrial interest. A mixt. contg. 20 g. BrCH₂CHBrCO₂H (IV) and 12 g. iso-PrOH and iso-BuOH, resp., is satd. with HCl while cooling. After keeping the mixt. for 2 days, there are obtained the iso-Pr ester (V) of IV, b₀ 115°, b. 210–14°, d₄° 1.5513, n_D° 1.4843, and the iso-Bu ester (VI) of IV, b₀₋₇ 130–5°, b. 230–2°, d₄° 1.5519, n_D° 1.4749, resp. I, b. 108–12°, d₄° 0.9035, n_D° 1.3826, and II, b. 130–4°, d₄° 0.8498, n_D° 1.3874, are obtained from 10 g. V and VI, resp., on treatment with 5 g. Zn and 5 g. alc. I and II are obtained also from HOCH₂CH₂CN on warming with the appropriate alc. and concd. H₂SO₄. The yields are low with both methods.   Gertrude Berend

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

IPATOV, A. V.

ca

10

The product of the reaction of allylacetone with dry ammonium cyanide. A. V. Ipatov. J. Gen. Chem. (U. S. S. R.) 11, 603-7 (1941).—I. set out to apply Strecker's synthesis of amino acids (Ann. 75, 28(1850)) (by reaction of aldehydes or ketones with NH_4CN) to unsatd. ketones, specifically to allylacetone (I). NH_4CN (8 g.) was mixed with 30.5 g. EtOH, cooled with ice water, and treated with 15 g. I with stirring; after standing for 20 hrs. at room temp. the mixt. was treated with 263 g. EtOH and 313 g. HCl (d.1.19) and let stand overnight, followed by 6 hrs. refluxing. The cooled mixt. was filtered and the filtrate evapd. to dryness in vacuo, the residue extd. with a 4:1 mixt. of EtOH and Et_2O, the ext. evapd. in vacuo and the extn. repeated 5 times. The final residue was taken up in H_2O, boiled with freshly hydrated PbO, filtered, freed of Pb by H_2S, heated to expel the H_2S, decolorized by charcoal and concd. to a small vol. The cryst. mass so obtained was treated with hot EtOH and the exts. evapd. to a sirup which crystd. The product was repeatedly crystd. by alternate soln. in H_2O, evapn. and treatment with EtOH. The material was then dissolved in H_2O and boiled with $CuCO_3$, freed of Cu by H_2S, boiled with decolorizing C, evapd. and recrystd. from H_2O-BtOH, m. 231-5° (decompn.), sol. in H_2O, sparingly sol. in EtOH, insol. in Et_2O. A water soln. of the product decolorizes Br and $KMnO_4$ and gives the Abderhalden reaction. Derivs. of the product prepd. were: Cu salt, m. 210-5°, blue plates; chloroplatinate, yellow needles; picrate, golden needles, m. 175-7° (decompn.); benamide, m. 125-7° (from H_2O). The analytical data and chem. properties of the product show it to be methylallylaminopropionic acid.

O. M. Kowalapoff

Ipatov, A. V.

Ca.

10

Esters of α,β-dibromopropionic acid. A. V. Ipatov (Biochem. Lab. Agr. Academy Timiryazeva, Moscow). *J. Gen. Chem.* (U.S.S.R.) 15, 187-8(1945)(English summary).—The following esters of α,β-dibromopropionic acid were prepd. in 60-5% yields by treating mixts. of the acid with the appropriate alc. and HCl with ice-cooling, followed by standing at room temp., sepn., and washing with water (b_{p}, b., d_4^{20}, n_D^{20} given): Me 129-30°, 203-5°, 1.0333, 1.5127; Et 137-8°, 214-16°, 1.7906, 1.5007; Pr 149-50°, 221-4°, 1.6799, 1.4950; iso-Pr 143-6°, 210-14°, 1.6459, 1.4903; Bu 163-4°, 236-0°, 1.6107, 1.4890; iso-Bu 155-6°, 230-2°, 1.5783, 1.4882; iso-Am 165-0°, 240-4°, 1.5149, 1.4871; allyl 148-50°, 218-21°, 1.7412, 1.5126.   G. M. Kosolapoff

IPATOV, A. V.

10

Cyclopentyl and cyclohexyl acrylates. A. V. Ipatov (Agri. Acad. Timiryazeva). *J. Gen. Chem.* (U.S.S.R.) 15, 639–40(1945)(English summary).—Cyclopentanol and cyclohexanol were esterified by $BrCH_2CHBrCO_2H$ in Et_2O with cooling and satn. of the mixt. with HCl (yields, etc., not stated); cyclopentyl α,β-dibromopropionate, b₁ 178–80°, b₁₀ 236–0°, d₁⁰ 1.5305, n₁⁰ 1.5049; cyclohexyl α,β-dibromopropionate, b₁₀ 191–4°, b₁₅ 243–5°, d₁⁰ 1.5012, n₁⁰ 1.5055. The esters were treated with Zn and dil. H_2SO_4 with heating on a steam bath and distd. after drying to yield the corresponding *acrylic esters*; cyclopentyl, b₁₀ 164–70°, d₁⁰ 1.0230, n₁⁰ 1.4603; cyclohexyl, b₁₀ 183–4°, d₁⁰ 1.0275, n₁⁰ 1.4673. G. M. Kosolapoff

Deceased -1945

IPATOV, A.Ya.

New data on the Carboniferous stratigraphy of the Kalba Range.
Izv. AN Kazakh. SSR. Ser. geol. no.2:35-44 '61.   (MIRA 14:7)
     (Kalba Range--Geology, Stratigraphic)

DAVIDENKO, V.V.; IPATOV, A.Ya.; KISELEV, A.K.

Silurian and Devonian stratigraphy of the Char structural-facies zone.
Izv. AN Kazakh. SSR. Ser. geol. nauk no.5:23-31 '63.   (MIRA 17:1)

1. Institut geologicheskikh nauk AN KazSSR, Alma-Ata. i Yuzhno-Kazakh-
stanskoye geologicheskoye upravleniye Ministerstva geologii i okhrany
nedr KazSSR, Alma-Ata.

SHAVRIN, S.V.; ZAKHAROV, I.N.; IPATOV, B.V.

Outflow of slag through the regenerator into a counterflow.
Izv. vys. ucheb. zav.; chern met. 5 no.9:54-65 '62.   (MIRA 15:10)

1. Institut metallurgii Ural'skogo filiala AN SSSR.
    (Blast furnaces—Design and construction) (Heat—Transmission)

SHAVRIN, S.V. (Sverdlovsk); ZAKHAROV, I.N. (Sverdlovsk); IPATOV, B.V. (Sverdlovsk)

Kinetic regularities of the reduction of slag by gas. Izv. AN SSSR Met. i gor. delo no.3:22-31 My-Je '64   (MIRA 17:7)

SHAVRIN, S.V.; ZAKHAROV, I.N.; IPATOV, B.V.

Slag outflow through coke spouts. Izv. vys. ucheb. zav.; chern. met. 7 no.1:33-37 '64. (MIRA 17:2)

1. Institut metallurgii Ural'skogo filiala AN SSSR.

SHAVRIN, S.V. (Sverdlovsk); ZAKHAROV, I.N. (Sverdlovsk); IPATOV, B.V. (Sverdlovsk)

Regularities of the reduction of iron slag on graphite attachments. Izv. AN SSSR. Met. i gor. delo no.4:29-39 Jl-Ag '64.   (MIRA 17:9)

IPATOV, D.S.; BARANOV, G.I.

Rare phenomenon in Tiksi Bay. Priroda 50 no.4:114 Ap '61.

(MIRA 14:4)

1. Arkticheskaya nauchno-issledovatel'skaya observatoriya, bukhta Tiksi.

(Tiksi Bay--Hydrology)

IPATOV, D.S.

Results of calculating the heat conductivity of sea ice. Probl.
Arkt. 1 Antarkt. no.9:79-82 '61.   (MIRA 15:1)
        (Tiksi Bay—Sea ice—Thermal properties)

IPATOV, E.V.

Estimating the reliability of underground excavators. Trudy
Inst. gor. dela AN Kazakh. SSR 17:65-67 '65.   (MIRA 18:9)

BEL'KEVICH, V.I.; ALEKSEYEV, Ye.G.; IPATOV, G.M.

Method of destruction of erythrocytes for the purpose of auto-
matic counting of the formed elements of the blood. Nov. med.
tekh. no.2:25-30 '62.   (MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.

KUPCHINOV, Ivan Iosifovich, kand. tekhn. nauk, dots.; IPATOV, I.I.,
    red.; VASIL'YEVA, V.I., red. izd-va; SUNGUROV, V.S., tekhn.
    red.

[Compensation of triangulation and traverse networks; method of
conditional equations with nonmeasurable unknowns] Uravnoveshiva-
nie setei trianguliatsii i poligonometrii; metod uslovnykh urav-
nenii s neizmeriaemymi neizvestnymi. Moskva, Geodezizdat, 1962.
194 p.   (MIRA 15:7)
                    (Geodesy)

LITVINOV, B.A., doktor tekhn. nauk; IPATOV, I.I., kand. tekhn. nauk

Adjusting bearing angles in a traverse-triangulation network.
Izv. vys. ucheb. zav.; geod. i aerof. no.2:3-14 '64.
(MIRA 17:9)

L 34378-66   EWT(m)/EWP(j)   IJP(c)   RM

ACC NR: AP6021998   SOURCE CODE: UR/0120/66/000/003/0066/0069

AUTHOR: Ipatkin, I. S.; Bulatov, B. P.; Antonov, Ye. A.

ORG: Earth Physics Institute, AN SSSR (Institut fiziki zemli AN SSSR)

TITLE: Soft x-ray detector for the 1—12 Å range

SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 66-69

TOPIC TAGS: x ray detection, x ray filter, x ray measurement

ABSTRACT: A soft x-ray detector is described which was designed to register
radiation in the 1—12 Å range. The design, shown in Fig. 1, comprises the detector
proper and an attached x-ray source for calibration. Detection is made by means of
an FEU-15 or -16 photomultiplier using a plastic scintillator. The detector is
housed in a light-tight casing, except for the input window, which is covered with
a thin layer of vaseline. Detected output is taken off an emitter follower for re-
cording, etc. The detector is calibrated differentially by bombarding the scin-
tillator from the controlled x-ray source through a series of beryllium foil filters
(8) of various thicknesses. Characteristic curves for the detector are given.

Card 1/2   UDC: 621.387
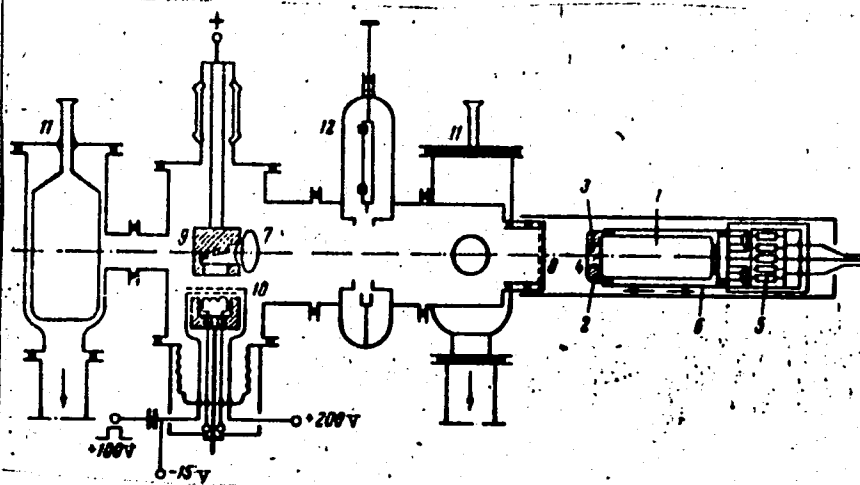
L 34378-66

ACC NR: AP6021998

Fig. 1. Soft x-ray detector

1 – Detector window;
2 – ebonite collar;
3 – 30 mm-diameter plastic scintillator; 4 – 9-μ Be foil; 5 – voltage divider; 6 – detector housing; 7, 8 – windows with 9-μ Be foil; 9 – anode; 10 – adjustable cathode; 11 – nitrogen traps; 12 – gate.

Operation can be in a pulsed or continuous mode, and the energy range registered is from 1 to 20 kev. X-ray flux recorded over a given spectral interval is estimated accurate within 15—20%. Orig. art. has: 5 figures and 1 formula.   [SH]

SUB CODE: 17, 18/ SUBM DATE: 05Apr65/ ORIG REF: 004/ OTH REF: 002/ ATD PRESS:
                                                                            5034
Card   2/2

GOVERT, Aleksandr Aleksandrovich; IPATOV, I.V., red.; VORONIN, K.P.,
tekhn. red.

[Water treatment for steam engines] Vodopodgotovka dlia loko-
mobilei. Moskva, Gos.energ. izd-vo, 1960. 188 p.
                                                (MIRA 14:5)
   (Steam engines)   (Feed-water purification)

SOLOGUB, Nikolay Avramovich, inzh.; IL'IN, Boris Nikolayevich, kand.
    tekhn. nauk, dotsent; IPATOV, Konstantin Aleksandrovich, inzh.;
    MOYSIK, M.R., kand. tekhn. nauk, retsenzent; TIRANSKAYA, S.M.,
    kand. tekhn. nauk, retsenzent; KHMELEVSKIY, S.A., kand. tekhn.
    nauk, retsenzent; PREYS, G.A., kand. tekhn. nauk, dots., red.;
    FURER, P.Ya., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Laboratory research on the technology of metals] Laborator-
nye raboty po tekhnologii metallov. Moskva, Mashgiz, 1961. 294 p.
    (Metallurgical research)   (Metalwork--Testing) (MIRA 15:2)

IPATOV, L.

Vacuum-tube electric meter. Radio no.1:31 Ja '60.
(MIRA 13:5)
(Electric meters)

IPATOV, L. G.   Cand. Physicomath. Sci.

Dissertation: "Investigation of the Interaction of Magnetized Bodies." Moscow
Order of Lenin State U. imeni M.V. Lomonosov, 23 Apr. 1947

SO: Vechernyaya Moskva, Apr. 1947 (Project #17836)

S/057/60/030/05/09/014
B012/B056

AUTHOR: Ipatov, L. G.

γ^1

TITLE: The Propagation of an Electromagnetic Wave in a Ferro-
            magnetic $\gamma\backslash$

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 5,
            pp. 522 - 528

TEXT: Under reference to the papers by W. Cauer (Ref. 1), R. Becker
(Ref. 2), and V. K. Arkad'yev (Ref. 3) the propagation of an electro-
magnetic wave in a badly conductive small ferromagnetic plate is
investigated. It is shown that the propagation of the wave depends on
the aftereffects, the eddy currents\\ the hysteresis, and the wave ampli-
tude. Consideration of these factors and the use of the new method for
the purpose of solving differential equation (3) offers the possibility
of obtaining more general relations characterizing the process of wave
propagation. The solutions obtained are here transformed for the case of
a metallic ferromagnetic. The theoretical conclusions drawn in the
present paper are compared with the formulas obtained by other authors.

Card 1/2

The Propagation of an Electromagnetic Wave in a   S/057/60/030/05/09/014
Ferromagnetic   B012/B056

It is shown on the basis of a few examples that in limiting cases the
theoretical conclusions by Cauer, Becker, and Arkad'yev may be attained.
There are 2 figures and 3 references: 1 Soviet and 2 German.

SUBMITTED: July 8, 1957

✓B

Card 2/2

IPATOV, L.G.

Magnetic characteristics of a ferromagnetic subjected to oscilla-
tory mode of operation. Zhur. tekhn. fiz. 30 no.6:685-689 Je '60.
(MIRA 13:8)

1. Voronezhskiy gosudarstvennyy meditsinskiy institut.
(Ferromagnetism)

IPATOV, M.I., inzhener, uchenyy sekretar'.

Discussion on the problems concerning the unified system of
planned periodic repairs. Vest. mash. 33 no.12:95-96 D '53.
(MLRA 6:12)
1. Komitet remonta i modernizatsii oborudovaniya Moskovskogo
nauchnogo inzhenerno-tekhnicheskogo obshchestva mashinostroiteley.
(Machine-shop practice--Repairing)

IPATOV, M. I.

"Technical Economic Questions on the Reconditioning of Worn Shafts Operating on Sliding Friction Bearings." Cand Tech Sci, Moscow Order of Labor Red Banner Higher Technical School imeni Bauman, Min Higher Education USSR, Moscow, 1955. (KL, No 13, Mar 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

Prevention of scale formation in sulfite-alcohol liquor evaporators. B. M. Zaltscv, E. A. Adamovich, A. T. Chuunaclurcy, A. P. Kostarev, and M. I. Ivatov. Gidrolis. i Lesokhim. Prom. 8, No. 4, 13-14(1955). The formation of scale in evaporators condensing the substrate from the sulfite-alc. process has been efficiently prevented by mixing $CaSO_4.2H_2O$ with the liquor going to evaporators in connection with a new design of the lower part of evaporators. Smooth round shape form hinders accumulation of sludge at the bottom of evaporators. This improvement has cut the necessity of chem. cleaning, in which a 0.3% AcOH soln. for stainless-steel equipment and 0.3% HCl for parts made of Cu has been used, to a min.
T. Jurecie

SOV-117-58-9-17/22

AUTHOR: Ipatov, M.I., Candidate of Technical Sciences

TITLE: Selection of an Efficient Repair Method of Worn Out Parts
               (O vybore ratsional'nogo metoda vosstanovleniya iznoshennykh
               detaley)

PERIODICAL: Mashinostroitel', 1958, Nr 9, pp 39-42 (USSR)

ABSTRACT: There are only a few existing studies dealing with the problem
               of selecting efficient methods for the repair of parts, such
               as those performed by Ch.I. Zgirskiy, Candidate of Technical
               Sciences, and A.A. Mutalibov of the Moscow Avtodorozhniy in-
               stitut (Institute of Automobile Roads) under the supervision
               of Professor V.V. Yefremov. In the present article, the
               author discusses physical and mechanical properties of repaired
               parts and the repair cost in order to reveal most efficient
               repair conditions. Optimum operation technology and variants
               of technological processes are given for 4 different repair

Card 1/2

Selection of an Efficient Repair Method of Worn Out Parts   SOV-117-58-9-17/22

        methods: metallization, chrome-plating, acieration, building
        up by welding.
        There are 5 tables and 1 graph.

        1. Machines--Maintenance

Card 2/2

25(0)

SOV/117-59-4-30/36

AUTHOR: Ipatov, M.I., Candidate of Technical Sciences.

TITLE: Novelties in the Techniques of Mounting Industry Equipment.

PERIODICAL: Mashinostroitel', 1959, Nr 4, pp43-44 (USSR)

ABSTRACT: The article describes shock-absorbing supports for machines like stamping presses, causing inaccuracies in the operation of other machines, and noise, used in West European countries and the USA. There are 3 photographs, 1 diagram and 4 German, 3 English and 1 Dutch references.

Card 1/1

GLAGOLEVA, L.A., kand. tekhn. nauk, dots.; PROSKURYAKOV, A.V., kand.
tekhn. nauk, dots.; IPATOV, M.I., kand. tekhn. nauk, dots.;
RAZUMOV, I.M., prof., doktor ekon. nauk; PURTOV, S.G., inzh.,
starshiy prepodavatel'; MURAV'YEV, M.S., kand. tekhn. naik,
dots.; GRACHEVA, K.A., kand. tekhn. nauk, dots.; KOMAROV, F.V.,
inzh., retsenzent; TOBIAS, D.A., kand. tekhn. nauk, red.;
SALYANSKIY, A.A., red. izd-va; EL'KIND, V.D., tekhn. red.

[Problems for the course in the organization and planning of
machinery plants]Sbornik zadach po kursu organizatsii i plani-
rovaniia mashinostroitel'nykh predpriiatii. Pod red. I.M.Razu-
mova, L.A.Glagolevoi. Moskva, Mashgiz, 1962. 261 p.
                                              (MIRA 15:12)
          (Machinery industry)

IPATOV, M.I.; TOBIAS, D.A., kand. tekhn.nauk, retsenzent;
        KONSTANTINOV, B.P., inzh., red.; PETUKHOVA, G.N., red.
        izd-va; MEL'NICHENKO, F.P., tekhn. red.

[Technical and economic evaluation of motor-vehicle elements
in designing; motortrucks] Tekhniko-ekonomicheskaia otsenka
konstruktsii avtomobilei pri proektirovanii; gruzovye avto-
mobili. Moskva, Mashgiz, 1963. 186 p.   (MIRA 16:9)
            (Motortrucks--Design and construction)

IPATOV, M.I., kand. tekhn. nauk, dotsent

Using unit cost calculation of designed transportation machines
in evaluating their economic efficiency. Izv. vys. ucheb. zav.;
mashinostr. no.11:114-121 '63.

(MIRA 17:10)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.

IPATOV, M-M.

1. LEONT'EV, L. N.; IPATOV, M. M.

2. USSR (600)

4. Tannu Ola Mountains--Granite

7. Age of certain caledonian granites from the eastern Tannu Ola Mts.
    (Tuva), Dokl. AN SSSR, 88, No. 1, 1953.

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

S/148/63/000/003/007/007
E193/E183

AUTHOR: Ipatov, N.

TITLE: Some comments on the current views on laminar
            cracking during fracture of constructional steels

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya
            metallurgiya, no.3, 1963, 159-162

TEXT: One of the least studied defects of constructional
steels is the formation of laminar (longitudinal) cracks in
rolled rods tested to fracture in static or impact bending.
I. Golikov and P. Karyazin (Stal' no.7, 1939, 44) who were first
to observe and study this effect, arrived at the conclusion that
this type of fault is observed in some alloy steels only, and
attributed it to structural nonhomogeneity of the steel. They
claimed that dendritic liquation brings about localized
segregation, the resultant concentration gradients being
responsible for the presence in the finished product of alternate
layers with different mechanical properties (particularly
plasticity). Owing to this difference, intensified by heat
treatment, the adjacent layers may deform in a different manner
Card 1/2

Some comments on the current views... S/148/63/000/003/007/007
E193/E183

when subjected to static or impact bending, this leading to destruction of the bond between these layers and formation of longitudinal, laminar cracks. The present author criticizes this theory, shows that it has not been sufficiently substantiated by experiment, and quotes experimental data which are in direct contradiction to the views first expressed by Golikov and Karyazin and reiterated later by some other Soviet workers. There is 1 figure.

ASSOCIATION: Dnepropetrovskiy filial Ukrainskogo zaochnogo poli-
        tekhnicheskogo instituta
        (Dnepropetrovsk Branch of the Ukrainian Polytechnic
        Institute for Correspondence Studies)

SUBMITTED: January 25, 1961

Card 2/2

IPATOV, N.K., kand. tekhn. nauk; KRIVOUSOV, V.A., kand. tekhn. nauk

Pressure distribution along the height of a cylindrical foundry
sprue. Lit. proizv. no.1:40-41 Ja '66.

(MIRA 19:1)

IPATOV, N. K.   PA 197773

USSR/Metals - Foundry, Processes   Aug 51

"On the Theory of Gas Injection Through a Conical Sprue," N. K. Ipatov, V. A. Krivousov, Engineers, Chelyabinsk Metallurgical Plant

"Litey Proiz" No 8, pp 16-19

In the process of pouring, considerable vacuum may be created in sprue, causing injection of air and gases through fissures or pores in the walls of sprue. Analytical soln of this problem is unsatisfactory; hydraulic loss due to friction

USSR/Metals -- Foundry, Processes (Contd)   Aug 51

never was accounted for and law for pressure distribution along height of sprue was not established. Attempts hydraulic analysis, 1st excluding pressure loss of molten metal and then taking this loss into account.

197773

IPATOV, N. K.

USSR/Metals - Cast Irons, Structure   Nov 51

"Effect of Admixtures on Formation of Ferrite in
Cast Iron," N. K. Ipatov, Cand Tech Sci,
Chelyabinsk Metallurgical Plant

"Litey Proizvod" No 11, pp 20,21

Using statistical method, investigates effect
of common alloying elements in gray iron -- C,
Si and Mn -- on sepn of ferrite in cast struc-
ture. Established that correlation formula
2 Mn - Si $\geqslant$ 1 determines most favorable Si-Mn
combination at which entirely pearlitic matrix
of cast iron is obtainable.

190T82

IPATOV, N. K.

PA 233T70

USSR/Metallurgy - Cast Iron, Properties   Aug 52

"Effect of Chemical Composition on the Hardness of Cast Iron," N. K. Ipatov

"Litey Proizvod" No 8, p 28

Studies influence of sep elements in perlitic cast iron on hardness of piston-ring castings. Hardness decreases noticeably with increase in content of C whose effect on hardness is highest. Mn has reverse effect. Si almost does not change hardness, which decreases with increase in concn of P and S due to tendency of these elements to segregation and forma- tion of brittle chem compds.

233T70

1. IPATOV, M. K.

2. USSR (600)

4. Steel - Analysis

7. Sulfur waste in low-carbon Bessemer steel. Sel'khozmashina, No. 12, 1952

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

IPATOV, N.K.

Chemical Abst.
Vol. 48 No. 5
Mar. 10, 1954
Metallurgy and Metallography

Dynamic strength of cemented low-carbon and medium-carbon steels.   N. K. Ipatov (Tractor Plant, Chelyabinsk, U.S.S.R.). *Avtomobil. i Traktor. Prom.* 1953, No. 9, 28-30.—Steels contg. 0.10-0.45% C were cemented to a depth of 0.6-2.4 mm. and then subjected to dynamic and impact strength tests. Generally, cementation lowered the strength of low-C steels. Medium-C steels hardened throughout were stronger following cementation than low-C steels.   M. Hosch

IPATOV, N. K.

Influence of impurities on shrinkage of cast iron. N. K. Ipatov. *Liteinoe Proizvodstvo* 1953, No. 9, 28-9.—A statistical study of 196 heats of gray pearlitic cast iron with C 2.4–3.5, Mn 0.6–1.7, Si 1.5–2.7, P 0.15–0.55, S 0.05–0.15, and Cr 0.08–0.32% with shrinkage porosity as the criterion showed that C and P (in combination with the effect of all other elements) define the tendency of Fe towards shrinkage, and other elements have no influence.   J. D. Gat

IPATOV, N.K., kandidat tekhnicheskikh nauk.

Refining heat treatment process for castings from surface-draft Bessemer
steel. Sel'khozmashina no.10:20-24 O '53.   (MLRA 6:11)
(Steel castings)

IPATOV, N. K.

USSR/Miscellaneous

Card 1/1   : Pub. 61 - 13/23

Authors   : Ipatov, N. K.

Title   : Sulfur loss in low-Bessemer steel

Periodical   : Lit. proizv. 4, page 26, July 1954

Abstract   : Experiments were conducted to determine the actual changes in the con-
               tent of poisonous admixtures during scavenging in Bessemer converters.
               It was found that the S content was lower and the P content was higher
               in Bessemer steel smelts than in blown cast-iron which contains only
               0.13% S and 0.127% P. The possibility of desulfurization in an acid
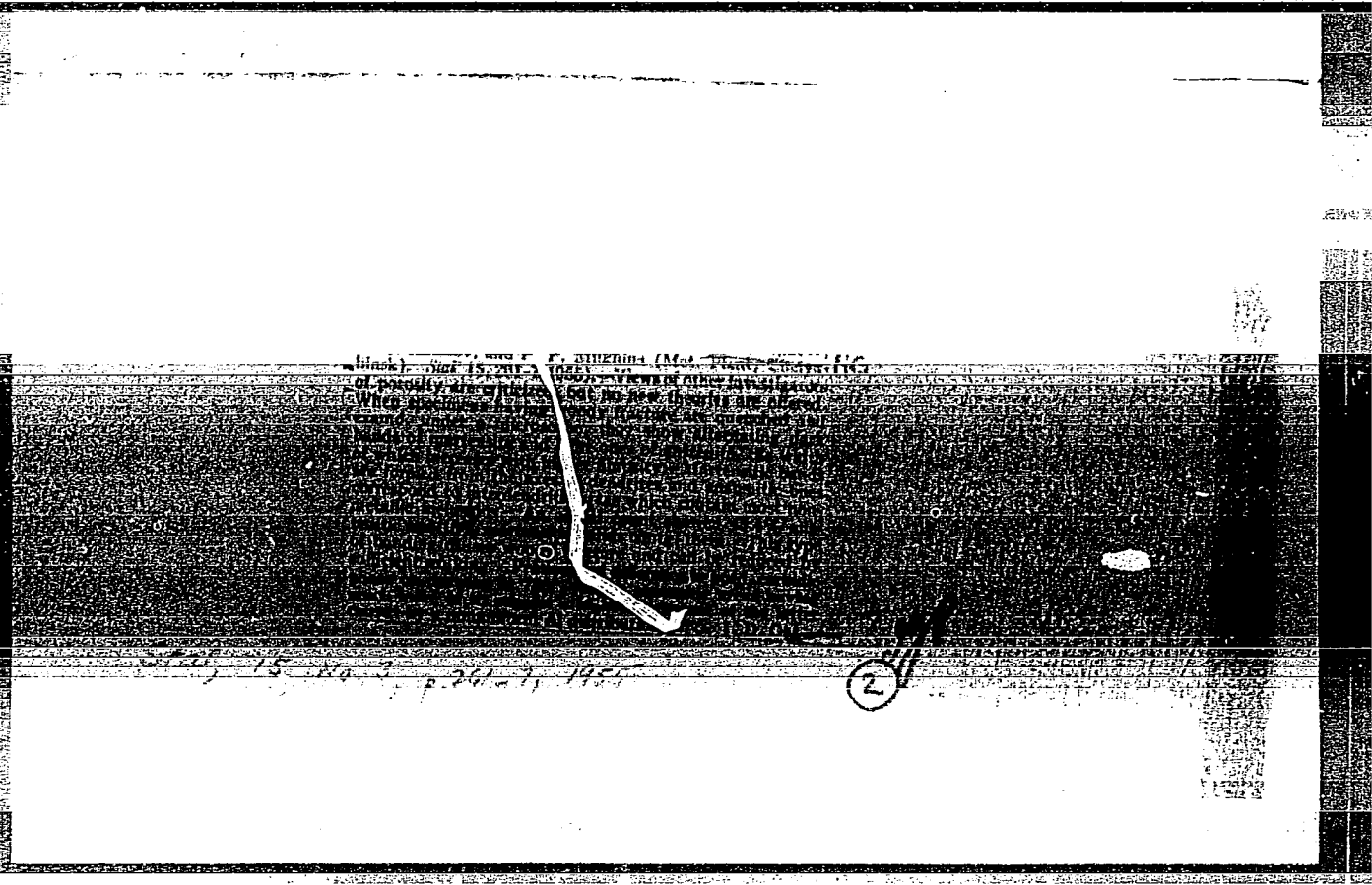   converter is explained. Graphs.

Institution : ...

Submitted   : ...

IPATOV, N.K., kandidat tekhnicheskikh nauk.

All-Union State Standard 801-41 for bearing steel needs changing.
Standartizatsiia no.5:53-56 S-O '54.   (MIRA 8:2)

1. Nachal'nik laboratorii Chelyabinskogo metallurgicheskogo
zavoda.
          (Steel--Specifications)

IPATOV, N.K., kandidat tekhnicheskikh nauk

The effect of spotty liquation and woody fracture on the mechanical
properties of steel. Stal' 15 no.6:549-552 Je '55.   (MIRA 8:8)

1. Chelyabinskiy metallurgicheskiy zaved. (Steel--Testing)

I Prat, N. K.

Influence of the Composition of Bearing Steels on the Carbide Network. N. K. Ipatov, L. Ya. Aizenshtok, and L. D. Kosovskii. (Stal', 1955, (8), 739-742). [In Russian]. The aim of the work described was to find the effect of various elements on the quantity of carbides formed in bearing steels and on the ease with which the carbide network can be made finer

Comparative Reliability of Methods of Evaluating the
Alpha-Phase in Stainless Steel

IPATOV, N.K., kandidat tekhnicheskikh nauk; MERENISHCHEVA, I.I., inzhener.

Effect of cooling during annealing on the corrosion cracking of brass.
TSvet.met. 28 no.1:65-68 Ja-F '55.   (MIRA 10:10)
(Brass)

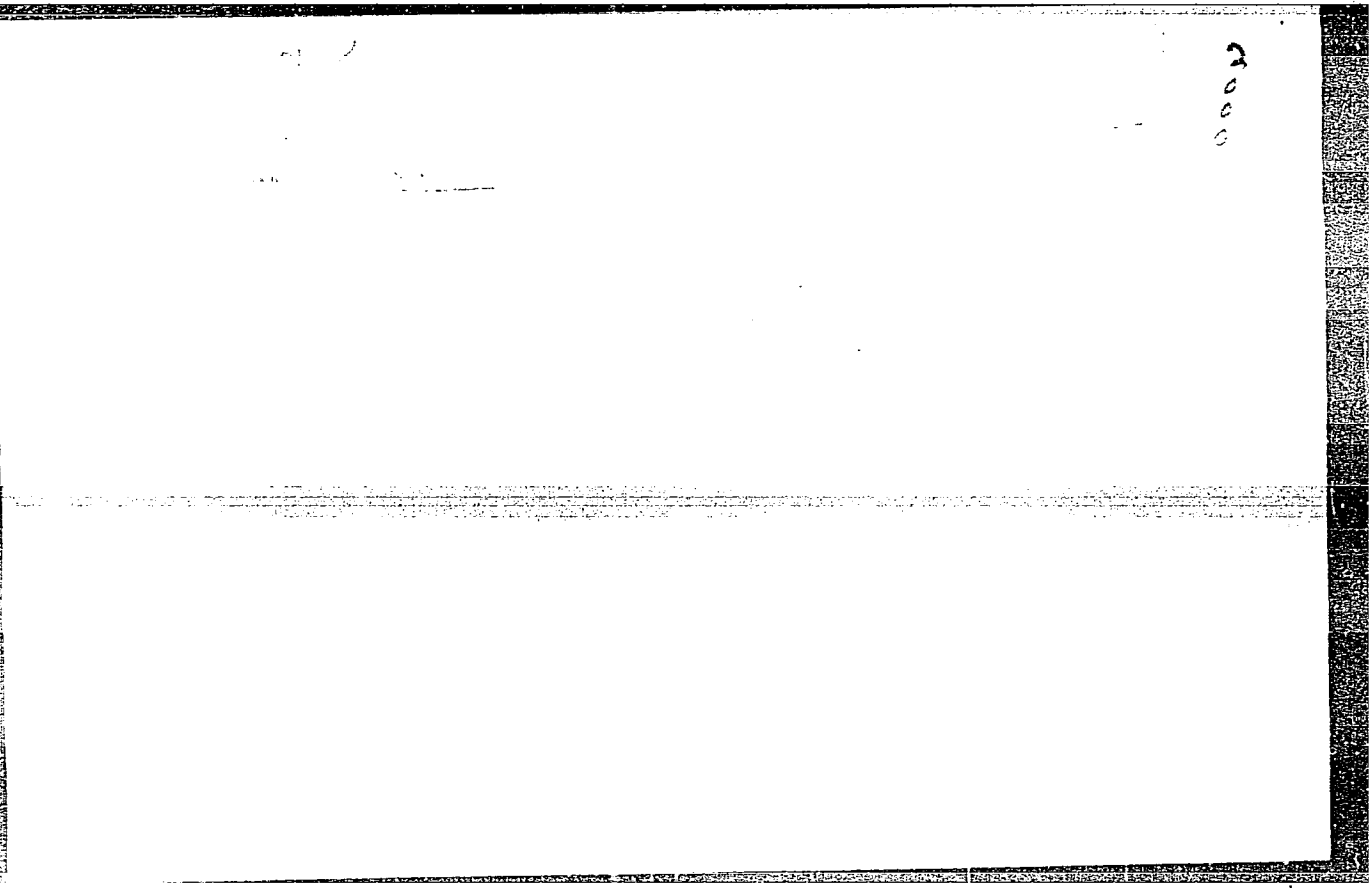IPATOV, N.K., kandidat tekhnicheskikh nauk; FATEYEV, V.A., kandidat tekhnicheskikh nauk.

Review of methods used in calculating steel casting deadheads. Lit. proizv.no.3:27-32 Mr '56.   (MLRA 9:7)
(Steel castings)

Methods for calculating shrinkage heads recently proposed by three authors are critically discussed and the need for a sufficient experimental basis for such calculations is indicated.

IPATOV, N.K., kandidat tekhnicheskikh nauk; FATEYEV, V.A., kandidat tekhniche-
skikh nauk.

Computational determination of deadheads. Lit.proizv.no.7:20-25 Jl '56.
(Founding)   (MLRA 9:9)

Ipatov, N.K.

IPATOV, N.K., kandidat tekhnicheskikh nauk.

Checking steel defects on temper fractures. Stal' 16 no.7: 629-631 Jl '56.   (MLRA 9:9)

(Steel--Defects)

It is recommended that the classification of flaws in steel fractures should be extended to include factors providing additional checks and gifing more quantitative characteristics of metal q uality.

IPATOV, N.K.

Effect of structural weaknesses of steel samples on impact strength.
Zav.lab. 22 no.1:94-97 '56.   (MLRA 9:5)

1. Chelyabinskiy metallurgicheskiy zavod.
                    (Steel--Testing)

Грачёв М.К

the Russian) An increase in microhardness was noted of parallel estimates of recrystallization estimates on annealed and on hardened specimens of the same heats of bearing steel. Higher values are probable with the hardened specimens.

the rate of fall of the liquid metal level during the continuous
process. Photograph, diagrams. 8 ref.

IPATOV, N.K.

Dendritic structure of primary crystallites in steel ingots. Fiz.
met. i metalloved. 11 no. 5:759-765 My '61.   (MIRA 14:5)

1. Dnepropetrovskiy filial Ukrainskogo zaochnogo politekhnicheskogo
instituta.
          (Steel ingots)   (Steel—Metallography)

IPATOV, N. K., kand. tekhn. nauk, dotsent; FATEYEV, V. A., kand. tekhn. nauk, dotsent

Efficiency of risers. Izv. vys. ucheb. sav.; mashinostr. no.7:112-122 '62.   (MIRA 16:1)

1. Chelyabinskiy politekhnicheskiy institut.

(Molding(Founding))

IPATOV, N.K.

Terminology and classification of primary crystallization zones in
castings. Lit.proizv. no.4:45-48 Ap '63.   (MIRA 16:4)
    (Steel ingots—Metallography)   (Crystallization)

IPATOV, N.K.

Existing opinions on lamination in structural steel fractures.
Izv. vys. ucheb. zav.; chern. met. 6 no.3:159-160 '63.
                                                    (MIRA 16:5)

1. Dnepropetrovskiy filial Ukrainskogo zaochnogo politekhnicheskogo
instituta.
                    (Steel, Structural--Defects)

. .h. Metallurgiya, Abs. .....

Author: Ipatov, N. K.

...nation in the fracture of ....

. ...ovaniye s.aley. .....

...amination, steel fracture, steel m..........ure,

. ... steel, ...

TRANSLATION: The article disputes the hypothesis of I. Golikov and
...... .amination in the .... structural

............, ...

...., .amination is .... and .....

L 35594-65

ACCESSION NR: AR5005858

softening annealing at 640°. The microstructure is weakly

Card 2/2

FATEYEV, V.A., kand. tekhn. nauk, dotsent; IPATOV, N.K., kand. tekhn. nauk, dotsent

Analytic determination of the efficiency of risers. Izv. vys. ucheb. zav.; mashinostr. no.11:184-191 '63.

(MIRA 17:10)

1. Chelyabinskiy politekhnicheskiy institut.

IPATOV,P.

The budget commission of the district soviet uncovers hidden
potentialities. Fin.SSSR 16 no.9:79-81 S'55.   (MIRA 8:12)

1. Predsedatel' byudzhetnoy komissii Shcherbakovskogo rayonnogo
soveta Moskvy.

(Moscow--Finance)

Ipato, P

IPATOV, P.

Increase the role of local budgets in economic and cultural constructions.
Fin.SSSR 18 no.11:32-35 N '57.   (MIRA 10:12)

(Budget)

ALLAKHVERDYAN, D., kand. ekon. nauk; IPATOV, P., kand. ekon. nauk; SHER, I.,
doktor ekon. nauk.

"Finance and socialist construction." Reviewed by D. Allakhverdian,
P. Ipatov, I. Sher. Fin. SSSR 19 no.6:83-89 Je '58.   (MIRA 11:6)
(Finance)

IPATOV, P.

Strengthening the institute's tie with production. Fin. SSSR 21
no.12:45-50 D '60.   (MIRA 13:12)

1. Zamestitel' direktora Moskovskogo finansovogo instituta.
          (Moscow--Finance--Study and teaching)
               (Education, Cooperative)

IPATOV, P.; ZHELEZIN, V.

Higher education without a break in your work. Nauka i pered.op.v
sel'skokhoz.7 no.1:36-38 Ja '57.   (MLRA 10:2)

1. Direktor Vsesoyuznogo sel'skokhozyaystvennogo instituta zaoch-
nogo obrazovaniya.
    (Correspondence schools and courses)
    (Agriculture--Study and teaching)

IPATOV, P.

For safe and healthy working conditions. Blok. agit. vod.
transp. no.22:1-7 N '56.   (MLRA 9:12)

(Merchant marine--Safety measures)

IPATOV, P. D.

29782

Kharaktyeristika proizvodityelyey konnykh zavodov russkoy rysistov porody po gyenyealogichyeskim liniyam (1948 G.) Trudy Voronyezhsk. Zoovyetin-ta, T. XI, 1948, S. 31-62

SO: LETOPIS' NO. 40

LYUBIMOV, N.N., prof.; ALLAKHVERDYAN, D.A., dotsent; STAM, V.M., dotsent;
GOL'DENBERG, A.M., dotsent; VINOKUR, R. ., dotsent; AZARKH, M.R.,
dotsent; SHER, I.D., prof.; RIVKIN, B.B., dotsent; ABROSKIN, A.A.,
dotsent; DIMSHITS, I.A., dotsent [deceased]; KON'SHIN, F.V., prof.;
IPATOV, P.F., dotsent; NIKOL'SKIY, P.S., kand.ekon.nauk; ROSHCHINA, L.,
red.; TELEGINA, T., tekhn.red.

[Finance in the U.S.S.R.; a collection] Finansy SSSR. Avtorskii
kollektiv pod rukovodstvom D.A.Allakhverdiana i N.N.Liubimova.
Moskva, Gosfinizdat, 1958. 391 p.   (MIRA 12:4)

1. Moskovskiy finansovyy institut (for all except Roshchina, Telegina).
                          (Finance)

ALLAKHVERDYAN, D.A., prof.; IPATOV, P.F., dots.; STAM, V.M., dots.;
    ABROSKIN, A.A., dots.; VINOKUR, R.D., dots.; AZARKH, M.R.,
    dots.; SHER, I.D., prof.; KON'SHIN, F.V., prof.; NIKOL'SKIY,
    P.S., dots.; KONDRAT'YEV, A., red.; FILIPPOVA, E., red.;
    LEBEDEV, A., tekhn. red.

[Finances of the U.S.S.R.]Finansy SSSR. Moskva, Gosfinizdat,
1962. 412 p.   (MIRA 16:1)

1. Moskovskiy finansovyy institut (for all except Kondrat'yev,
Filippova, Lebedev).
                        (Finance)

88008

S/170/60/003/012/005/015
B019/B056

II.7200

AUTHOR: Ipatov, P. G.

TITLE: Propagation of a Flame on the Surface of a Liquid

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 12,
               pp. 49-52

TEXT: The propagation of flame on the surface of acetone, ethyl
alcohol, butyl alcohol, benzene and toluene was investigated in the
temperature range of the flash point in a first test series, and below
the flash point of the liquid in a second series. In the course of the
first experimental series, saturated vapors of the liquid to be
investigated were produced by means of a cooler and a pump in two tubes
B and C; tube B contained also liquid besides the vapor, and tube C
contained vapor only. The tubes could be kept upon the same level of
temperature by means of suitable devices, and when attaining saturation
point, the vapors were ignited. Flame propagation was photographed by
means of a movie camera in both tubes. The second series of experiments
was carried out by means of tubes which were closed on one side and were

Card 1/2

88008

Propagation of a Flame on the Surface of a   S/170/60/003/012/005/015
Liquid   B019/B056

fitted with a longitudinal channel. The tubes could again be kept on the
desired temperature level. At one end of tube and channel an incandescent
wire spiral (1500°C) was fitted at a distance of 7 mm. The propagation of
the flame was again photographed. As was observed from the results ob-
tained in the first experimental series, the propagation rates in the two
tubes are practically in agreement. Thus, the surface of the liquid has
practically no influence upon flame propagation. In the second series it
was found that the vapor-air mixture, if no liquid was in the tube, could
not be ignited below the flashpoint, whereas in the presence of liquid,
burning could be attained. This shows that in flame propagation, the
liquid surface plays an important part. The velocity is considerably
lower. There are 3 figures, 1 table, and 3 references: 2 Soviet and 1
Japanese.

ASSOCIATION: Institut aviatsionnogo priborostroyeniya, g. Leningrad
               (Institute of Aeronautical Instrument Construction,
               Leningrad)

SUBMITTED: June 17, 1960

Card 2/2

PROCESSES AND PROPERTIES INDEX

Use of Nessler reagent in ampuls. P. P. Ipatov. *Zhur. Anal. Khim*, 2, 239–41(1947).—While testing water for NH_3, it was observed that the Nessler reagent supplied by special labs. in sealed ampuls gave low results. Parallel detns. with freshly prepd. reagents and reagents in ampuls several years old confirmed the earlier observations. It was further observed that reagents kept in white glass were better than the reagents in green glass. Based on the assumption that some of the hydroxide in the ampuls reacted with the glass, expts. were carried out with ampul-kept reagents to which was added 1–10 drops of 40% KOH soln. Simultaneously, checks were run with fresh reagent. The full effectiveness of the reagent in ampuls was restored in most cases by the addn. of 4 drops of the KOH soln. M. Hosch

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

IPATOV, P. F.

Photographic Chemistry

Effect of amonia and potassium bromide on the dispersion of silver bromide in proto-graphic emulsions. Usp.nauch.fot., No. 1, 1951.

9. Monthly List of Russian Accessions, Library of Congress, __June__ ___195/6__, Uncl.
                                                                                2

Chemical Abstracts
May 25, 1954
General and Physical
Chemistry

3

Relation between the crystal structure of a catalyst and
its activity. P. P. Ipatov. Zhur, Fiz. Khim. 27, 1133-6
(1953); cf. Zelyakov, H. al., C.A. 30, 6283°.—The x-ray
powder diffraction patterns were observed of MoO₃ samples
prepd. by calcination of MoO₃ at 500° (1 hr.), 560° (¹/₂
hr.), 560° (1 hr.), and 660° (1 hr.). The intensities of the
110, 200, 230, 400, and 330 lines, the line intensity ratios in-
dicated by 110/220, 220/330, 200/400, and 100/330, and
the catalytic activity for each sample are tabulated. The
latter increases with the intensity ratio (corresponding to the
degree of disorder of the lattice).   J. W. Lowsberg, Jr.

IPATOV, P. F.

USSR/ Laboratory Equipment. Apparatuses, Their   I
    Theory, Construction and Application.

Abs Jour: Referat. Zhur.-Khimiya, No. 8, 1957, 27365.

Author   : P.F. Ipatov

Title   : Electron-Optical Transformation at Preparation and
            Treatment of Photographic Materials.

Orig Pub: Zh. nauch. i prikl. fotogr. i kinematogr., 1956,
            1, No. 5, 385 - 386.

Abstract: no abstract.

Card 1/1

IPATOV, Pavel Fedorovich; KONDRAT'YEVA, A.I., red.; NOVIKOVA, I.V.,
red.izd-va; GOROKHOVA, S.S., tekhn. red.

[State budget of the U.S.S.R. and its national economic
significance] Gosudarstvennyi biudzhet SSSR i ego narodno-
khoziaistvennoe znachenie. Moskva, Vysshaia shkola, 1964.
42 p.   (MIRA 17:3)

IPATOV, P. M., Engr.   Cand. Tech. Sci.

Dissertation: "Effectiveness of Systems of Underground Mining." Moscow Inst of
Nonferrous Metals and Gold imeni M. I. Kalinin, 26 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

IPATOV, P.M.; LUNEVSKIY, P.D.; SKIBIKOV, Yu.V.; SPIVAKOV, Ya.N.; TARASOV, L.Ya.

[Systems of underground working of deposits of non-ferrous metals and gold] Sistemy podzemnoi razrabotki mestoroshdenii tsvetnykh metallov i zolota. Pod obshchei red. P.M.Ipatova. Moskva, Gos. nauch.-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1947.   (MLRA 7:4)
(Mining engineering)

IPATOV, P.M., gornyy inzhener

Prospects of exploiting the iron ore resources of the Kursk
Magnetic Anomaly. Gor.zhur. no.5:3-7 My '61.   (MIRA 14:6)

1. TSentral'nyy nauchno-issledovatel'skiy ekonomicheskiy institut
Gosplana RSFSR.

(Kursk Magnetic Anomaly—Iron ores)