YANKELEVICH, I.L.

An active member of the scientific technological society.
Mashinostroitel' no.2:35 F '60. (MIRA 13:5)

1. Uchenyy sekretar' Soveta Nauchno-tekhnicheskogo obshchestva Mashproma zavoda "Rostsel'mash."
(Molding (Founding)--Technological innovations)

SIMONOV, Ye.K., inzh.; MINEYEV, B.V., inzh.; RYSEV, G.S., inzh.; YANKELEVICH, M.D., inzh.

The 1 PDN-2 loading and transporting machine. Shakht. stroi. 8 no.2:19-20 F '64. (MIRA 17:3)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut gornogo i obogatitel'nogo oborudovaniya, Sverdlovsk.

LATSKIY, V.I.; YANKELEVICH, M.D.; RYSEV, G.S.

Review of the book by K.S. Gurkov, IA.B. Kal'nitskii, A.D. Kostylev, P.A. Mikhirev, I.M. Press, G.V. Rodionov, A.V. Sobol', and V.V. Soroko, "Loading machinery for loose and lump materials." Gor. zhur. no.8:78 Ag '64. (MIRA 17:10)

1. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut gornogo i obogatitel'nogo mashinostroyeniya, Sverdlovsk.

SHEYKO, Sergey Sergeyevich; YANKELEVICH, Mikhail Nikolayevich; ANAN'YEV, A.I., retsenzent; ZOLOTUKHIN, P.Ye., retsenzent; ILINICH, B.K., red.; TRUSOV, N.S., tekhn. red.

[Accounting and calculation of production costs in a clothing factory]Uchet i kal'kulirovanie sebestoimosti produktsii shveinoi fabriki. Leningrad, Gosmestpromizdat, 1962. 195 p. (MIRA 16:4)

(Clothing industry—Accounting)
(Costs, Industrial)

YANKELEVICH, Mikhail Nikolayevich; SELIVANOV, V.A., retsenzent; MITEL'MAN, B.Ye., retsenzent; SHCHEDRIN, B.Ye., red.; SLUTSKER, M.Z., red.izd-va; GRECHISHCHEVA, V.I., tekhn. red.

[Analysis of the administrative operation of a lumbering enterprise] Analiz khoziaistvennoi deiatel'nosti lesozagotovitel'nogo predpriiatiia. Moskva, Goslesbumizdat, 1963. 262 p. (MIRA 17:3)

Yankelevich, M.Ye.

LEVIN, Ya.F., dotsent; ROZENGAUZ, D.Ye., dotsent; YANKELEVICH, M.Ye., dotsent.

On the paper by T.M. Klepikova-Troitskaia "On radiotherapy of laryngeal cancer with a preliminary ligation of afferent vessels" Vest. rent i rad. no.6:74-75 N-D '55. (MIRA 9:4)

1. Iz Ukrainskogo rentgeno-radiologicheskogo i onkologicheskogo instituta (dir. Dotsent Ye.A. Bazlov)

(LARYNX, neoplasms
ther., radiother., with preliminary ligation of afferent blood vessels)
(RADIOTHERAPY, in various dis.
cancer of larynx, preliminary ligation of afferent blood vessels)

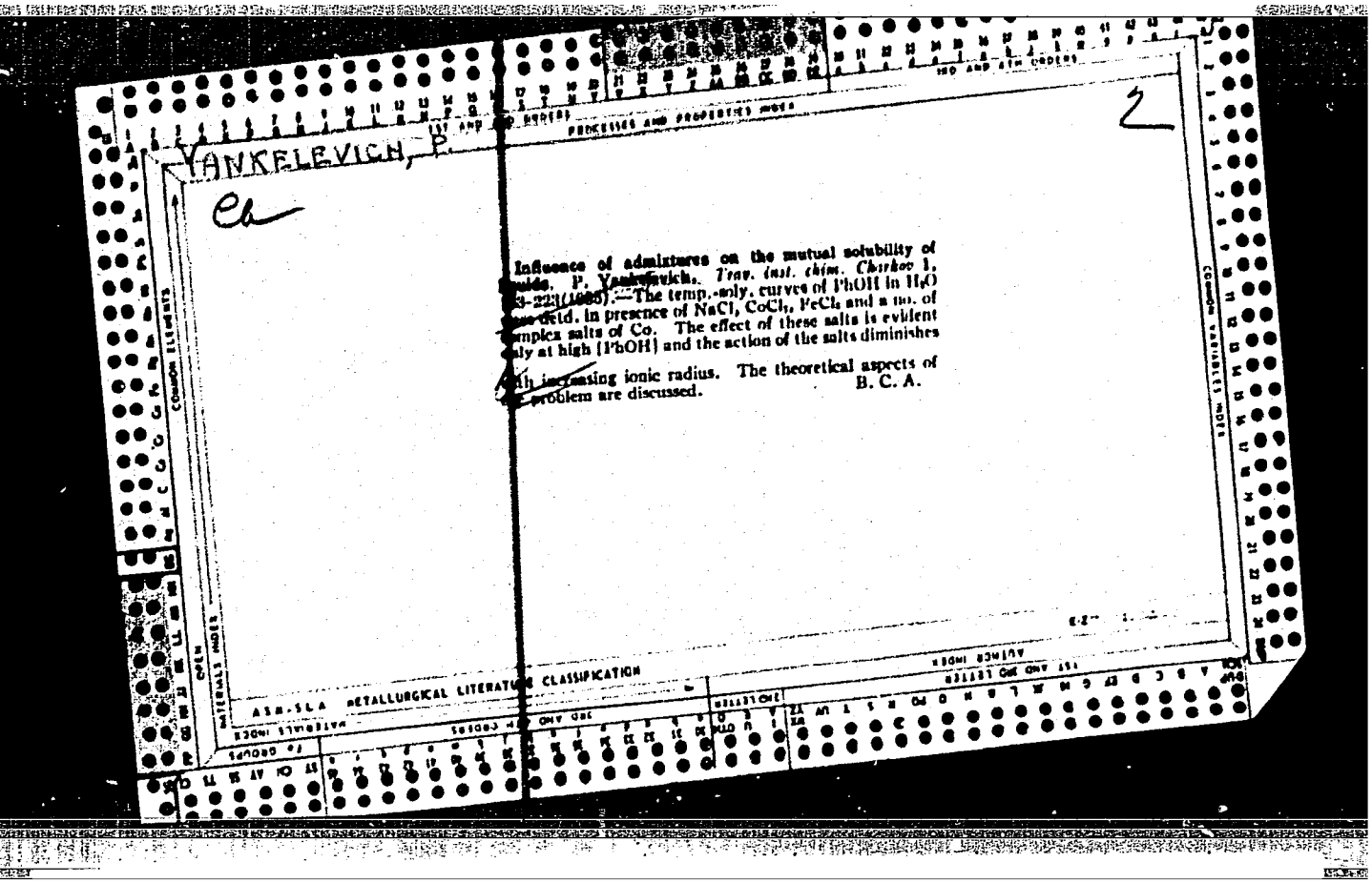
YANKELEVICH, M.Ye.

LEVIN, Ya.F., dotsent; ROZENGAUZ, D.Ye., dotsent; YANKELEVICH, M.Ye., dotsent

Effectiveness of roentgenotherapy and of teleradium therapy of laryngeal cancer following section of supplying vessels. Vest. oto-rin. 17 no.2:51-55 Mr-Ap '55. (MLRA 8:7)

1. Iz Ukrainskogo rentgeno-radiologicheskogo i onkologicheskogo instituta i kliniki bolezney ukha, gorla i nosa (zav. prof. A.M. Natanzon) Khar'kovskogo meditsinskogo instituta.

(LARYNX, neoplasms,
ther., x-ray & radium after arterial section)
(RADIOTHERAPY, in various diseases,
cancer of larynx, after arterial section)
(RADIUM, therapeutic use,
cancer of larynx, after arterial section)



APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962110004-7"

YANKELEVICH, P.I.

137-58-5-10234

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 192 (USSR)

AUTHORS: Beskrovnyy, A.K., Aronov, V.M., Yankelevich, P.I.

TITLE: Eliminating the Causes of Blistering in Hot-dip Galvanizing (Ustraneniye prichin vozniknoveniya puzyrey pri goryachem otsinkovanii)

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Vol 13, pp 69-72

ABSTRACT: An investigation is conducted into various methods of electrochemical etching of hot-dip articles to eliminate blistering, the cause of which is related to the high internal pressure of the hydrogen formed on etching, and diffusing into the depth of the metal. A 20% H_2SO_4 solution at 45°C and 2 hours holding time were conditions of the investigation. It was established that blisters do not form on anodic etching and A-C etching. The absence of blisters in the latter case is related to the fact that when A-C passes through the electrodes, an accumulation of atomic H sufficient to cause diffusion of the H in the metal cannot build up. It is established that A-C etching is the best. When the objects are in contact with Cu and Pt, the amount of H liberated on them diminishes. However, even a small amount of H

Card 1/2

137-58-5-10234

Eliminating the Causes of Blistering in Hot-dip Galvanizing

liberated in this case suffices for blister formation (owing to the difference effect). The methods may be arranged in series in terms of diminishing etching speed: cathodic etching, A-C etching, anodic and chemical etching.

L.A.

1. Galvanizing--Failure 2. Metals--Coatings 3. Electric currents--Applications
4. Zinc coatings--Electrochemistry 5. Electrochemistry--Applications

Card 2/2

VINAROV, I.V.; YANKELEVICH, R.G.

Production of pure vanadium pentoxide from technical vanadium pentoxide by the chlorination method. Ukr.khim.zhur. 30 no.5: 524-527 '64. (MIRA 18:4)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR, Laboratorii v Odesse.

VINAROV, I.V.; YANKELEVICH, R.G.

Production of pure vanadium pentoxide from by-products of the alumina industry. Ukr. khim. zhur. 29 no.10:1015-1020 '63. (MIRA 17:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR, laboratorii v Odesse.

ACC NR: AP7003212 SOURCE CODE: UR/0056/66/051/006/1703/1711

AUTHOR: Kaganov, M. I.; Yankelevich, R. P.

ORG: Physicotechnical Institute, Academy of Sciences, Ukrainian SSR (Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR)

TITLE: Contributions to the theory of antiferromagnetic resonance in metals

SOURCE: Zh eksper i teor fiz, v. 51, no. 6, 1966, 1703-1711

TOPIC TAGS: antiferromagnetism, ferromagnetic resonance, electric conductivity, plasma wave, spin wave

ABSTRACT: The authors explain the role played by plasma effects in antiferromagnetic resonance. The analysis is restricted to uniaxial antiferromagnets with positive anisotropy constant. The role of spatial dispersion in the variation of the surface impedance is first determined near the antiferromagnetic resonance frequencies. This is followed by consideration of the influence of the magnetic field on the electric conductivity, under the assumption that the resonance frequencies lie in the range where helicon waves exist. It is shown how the nature of the ground state is reflected in the properties of the electromagnetic waves, and that in the case of a comparatively weak magnetic field, undamped waves can be propagated in an antiferromagnetic metal. One of these is the supplementary wave due to spatial dispersion. The frequency dependence of the surface impedance exhibits singularities, which are explained. Couple spin-helicon waves are shown to propagate in an antiferromagnetic

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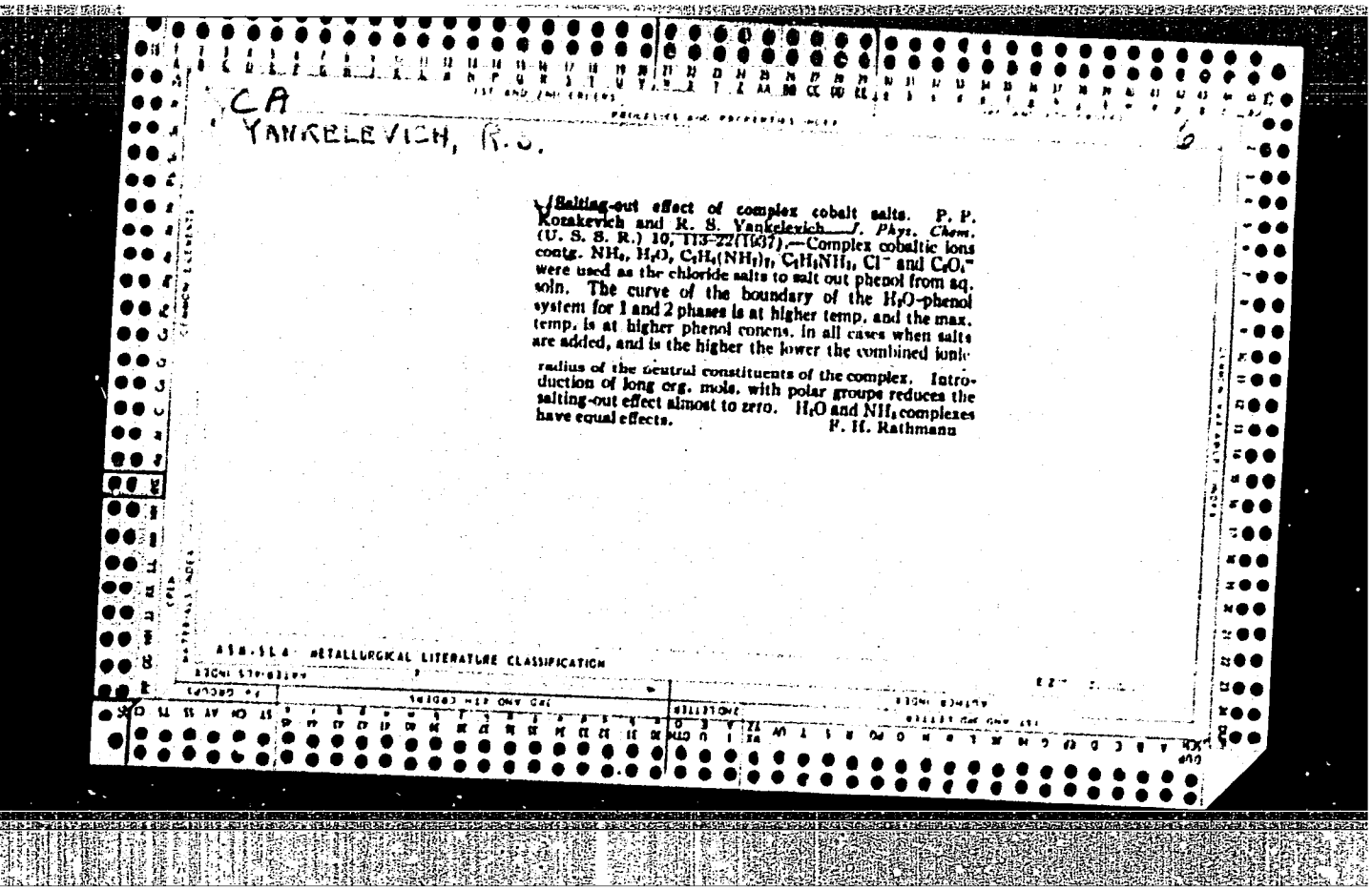
ACC NR: AP7003212

metal, and appropriate expressions are obtained for the polarization of the waves and for the reflection coefficient. The authors thank A. Ya. Blank for useful discussions. Orig. art. has: 5 figures and 22 formulas.

SUB CODE: 20/ SUBM DATE: 31Mar66/ ORIG REF: 011/ OTH REF: 001

Card 2/2



CA

YANKELEVICH, R.S.

Salting-out effect of complex cobalt salts. P. P. Korakevich and R. S. Yankelevich. *J. Phys. Chem.* (U. S. S. R.) 10, 113–22(1937).—Complex cobaltic ions contg. NH_3, H_2O, $C_2H_4(NH_2)_2$, $C_5H_5NH_2$, Cl^- and $C_2O_4^{=}$ were used as the chloride salts to salt out phenol from aq. soln. The curve of the boundary of the H_2O-phenol system for 1 and 2 phases is at higher temp. and the max. temp. is at higher phenol concns. In all cases when salts are added, and is the higher the lower the combined ionic radius of the central constituents of the complex. Introduction of long org. mols. with polar groups reduces the salting-out effect almost to zero. H_2O and NH_3 complexes have equal effects.

F. H. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

YANKELEVICH, R.S.

VOLYNSKIY, S.M., kandidat meditsinskikh nauk; KISELEVA, M.M., kandidat meditsinskikh nauk; YANKELEVICH, R.S.; ULITSKAYA, E.M.

Chronic inflammatory processes of the oral cavity and the functional condition of the liver. Stomatologiia no.6:6-11 '53. (MLRA 7:1)

1. Iz kafedry vnutrennikh bolezney (zaveduyushchiy - professor P.F.Frolov) i terapevticheskoy stomatologii (zaveduyushchiy - dotsent Ya.L.Fridman) Khar'kovskogo meditsinskogo stomatologicheskogo instituta (direktor P.V.Vlasenko).

(Mouth--Deseases) (Liver)

ALEKSEYEV, B.I., kand.tekhn.nauk; YANKELEVICH, V.M., inzh.

Automatic device for counting shakings and switching off molding machines. Mekh.i avtom.proiz. 14 no.6:37-39 Je '60.
(MIRA 13:7)

(Molding machines)
(Electronic digital computers)

ALEKSEYEV, B.I., kand.tekhn.nauk; IZYUMSKIY, F.P., inzh.; YANKELEVICH, V.M., inzh.

Automatic regulator of the density of mold ramming. Mashinostroenie no.4:49-52 Jl-Ag '63. (MIRA 17:2)

1. Ukrainskiy institut metallov.

ALEKSEYEV, B.I.; YANKELEVICH, V.M.

Automatic controller of ramming density by jolting. Lit. proizv. no.4:11-13 Ap '62. (MIRA 15:4)
(Molding (Founding)) (Automatic control)

MASLENNIKOV, N.D., kand.tekhn.nauk; MYSHONKOV, N.I., kand.tekhn.nauk; ALEKSEYEV, B.I., kand.tekhn.nauk; SHUMOV, Ye.N., inzh.; MASLOV, A.A., inzh.; YANKELEVICH, V.M., inzh.; IZYUMSKIY, F.P., inzh.

Investigating gas saturation of cast iron smelted in a cupola furnace. Mashinostroenie no.6:33-36 N-D '62. (MIRA 16:2)
(Cast iron--Defects)

TKACHENKO, Pavel Grigor'yevich; TIMCHENKO, Boris Sevast'yanovich; VYAZ'MIN, Gennadiy Ivanovich; YANKELEVICH, V.M., otv. red.; KAMINSKIY, L.N., red. izd-va; ANDREYEV, S.P., tekhn. red.

[Organization and planning of the operation and maintenance of automatic measurement and control equipment] Organizatsiia i planirovanie rabot sluzhby KIP i avtomatiki; spravochnoe i prakticheskoe rukovodstvo. Moskva, Metallurgizdat, 1963. 247 p. (MIRA 16:6)
(Measuring instruments--Maintenance and repair)
(Automatic control--Handbooks, manuals, etc.)

GIL'DEV, G.F.; LEVIN, S.L.; YANKELEVICH, Ya.A.

Utilizing the sulfur absorptive capacity of tap cinder in the oxygen-blown converter process of steel production. Izv. vys. ucheb. zav.; chern. met. 8 no.2:65-67 '65.
(MIRA 18:2)

1. Dnepropetrovskiy metallurgicheskiy institut.

YANKELEVICH, Ye.I. (Moskva, K-45, Rozhdestvenskiy bul'var, d.15, kv.31)

Place of exercise therapy in a compound treatment before and after operations on the heart and vessels. Grud. khir. 6 no.5:66-69 S-O '64. (MIRA 18:4)

1. Otdeleniya lechebnoy fizicheskoy kul'tury i fizioterapii Instituta serdechno-sosudistoy khirurgii (dir. - prof. S.A. Kolesnikov, nauchnyy rukovoditel' - akademik A.N.Bakulev) AMN SSSR, Moskva.

YANKELEVICH, Ya.Kh.

Exocrine function of the pancreas in experimental dysenterial intoxication and the mechanism of its disorders. Biul.eksp.biol.i med. 47 no.8:43-48 Ag '59. (MIRA 12:11)

1. Iz kafedry normal'noy fiziologii (zav. - chlen-korrespondent AN USSR prof. A.M. Vorob'yev [deceased] i kafedry infektsionnykh bolezney (zav. - dotsent B.N. Kotlyarenko) L'vovskogo meditsinskogo instituta. Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Parinym.
(SHIGELLA)
(TOXINS AND ANTITOXINS)
(PANCREATIC JUICE)

CHERNOV, V.I., dotsent; OSNOS, M.L., dotsent; MELAMUD, M.Ya.; YANKELEVICH, Ya.Kh.

Dispanseries in the control of cardiovascular diseases in the city of Lvov. Nauch.trudy L'vov.obl.terap.ob-va no.1:10-15 '61. (MIRA 16:5)

1. L'vovskiy gorodskoy otdel zdravookhraneniya (zav. otdelom - Ya.I. Skibel').
(LVOV--HOSPITALS--OUTPATIENT SERVICES)
(LVOV--CARDIOVASCULAR SYSTEM--DISEASES)

POPELYUK, P.F., dotsent; TURETSKAYA, R.S., assistent; YANKELEVICH, Ya.Kh., ordinator

Clinical analysis of atypical forms of acute myocardial infarction; clinical data for a ten year period. Nauch.trudy L'vov.obl.terap. ob-va no.1:217-224 '61. (MIRA 16:5)
(HEART—INFARCTION)

MONASTYRSKIY, R.Ya (L'vov); OSNOS, M.L., dotsent (L'vov); MELAMUD, M.Ya. (L'vov); YANKELEVICH, Ya.Kh. (L'vov); SIROMAKHA, G.M. (L'vov) KOPEL'MAN, Ye.Sh. (L'vov); KRASNOVA, S.H. (L'vov); BANAKH, R.D. (L'vov)

Organization of rheumatic fever control. Klin. med. 40 no.11: 89-93 N'62 (MIRA 16:12)

1. Iz L'vovskogo oblastnogo otdela zdravookhraneniya (zav. - R.Ya. Manastyrskiy).

S/148/60/000/010/004/018
A161/A030

AUTHORS: Druzhinin, V.P.; Iodko, E.A.; Kitayev, A.T.; Krupman, L.I.; Tarapay, M.A.; Chevela, L.A.; Yankelevich, Ya.P.

TITLE: Investigation of the Thermal Behaviour of Intermediate Ladles

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, 1960, No. 10, pp. 58 - 66

TEXT: The investigation had been carried out to determine the heat losses from metal in intermediate ladles. Small ladles at the New-Tula Metallurgical Plant and large at the imeni Dzerzhinskiy Plant were studied. The small ladles were heated with blast furnace gas burning in an oxygen jet, and the large with coke gas; chromelalumel and platinumrhodium-platinum thermocouples were inserted into the ladle linings as shown in Fig. 1 and 2; the metal temperature in ladles was measured with platinumrhodium-platinum and tungsten-molybdenum immersion thermocouples; indicating and recording galvanometers and an -09 (EPP-09) writing potentiometer were used. The duration of teeming was 20 - 26 min at the New Tula Plant (NTMZ) and 80 - 120 min at the imeni Dzerzhinskiy Plant. A graph gives the measurement results in a large ladle (Fig. 3) - there is practically no

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Investigation of the Thermal Behaviour of Intermediate Ladles

heat gradient inside the intermediate ladle, apparantly due to a feed of fresh hot metal from the main ladle. The lining temperature on the surface quickly reached the metal temperature; it dropped nearly 180°C during 5 min after the gas heating was stopped before teeming. E.A. Iodko and L.I. Krupman calculated the heating of lining to determine the effect of separate factors. The "working" layer of lining was stated to be 20 -30 mm in small ladles, and 60 - 80 mm in large, which is less or equal to the usual fireclay lining depth and shows that additional heat insulation of the ladle casings is superfluous. The calculation is included in the article. The formula (13) determines the effect of the heat conductivity of the ladle lining on the drop in metal temperature in the ladle and shows that the relation is in direct proportion. The heat loss by radiation had not been considered. It was concluded that the heat conductivity in fireclay brick layers nearest to the contact surface with metal drops in the teeming process and the first metal portions in the intermediate ladle are cooled by the lining surface, whilst the heat gradient inside the lining has practically no influence. It is therefore proper to heat the lining at a high temperature on the surface ignoring high temperature gradients in the lining below the surface, and not to stop heating the ladle before the start of teeming. Cooling of the first metal

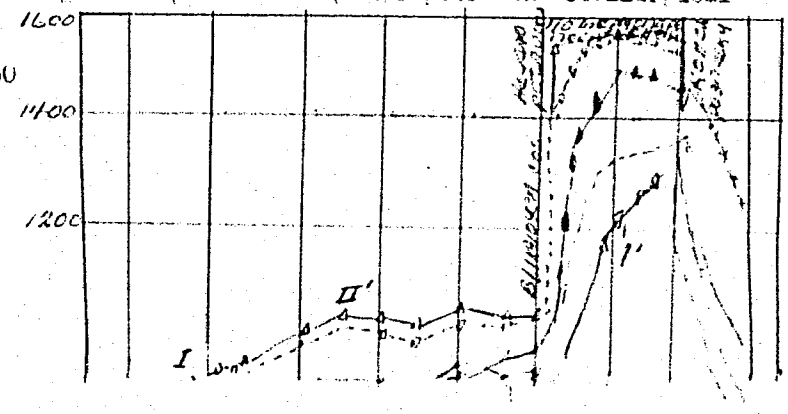
S/148/60/000/010/008/018
A161/A030

Investigation of Thermal Behaviour of Intermediate Ladles

portions can be decreased by faster filling. Brick with low heat conductivity on the surface must be used. The following participated in the investigation: Ye.I. Isayev, Yu.N. Yakovlev; V.M. Klinna; S.P. Yefimov; G.L. Doronin; S.L. Sologub; N.A. Rokhlin; F.I. Krasinskiy. V.I. Lepitskiy was in charge. There are 6 figures, 2 tables and 4 Soviet references.

ASSOCIATION: Novo-Tul'skiy metallurgicheskiy zavod (New Tula Metallurgic Plant), Zavod imeni Dzerzhinskogo (imeni Dzerzhinskiy Plant), and Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk Metallurgical Institute)

SUBMITTED: April 21, 1960



Card 3/3

LEVIN, S.L.; YANKELEVICH, Ya.P.; SOLOGUB, S.L.; DUBINA, Yu.G.

Preparation of chemically capped steel. Izv. vys. ucheb. zav.; chern. met. 7 no.8:44-49 '64. (MIRA 17:9)

1. Dnepropetrovskiy metallurgicheskiy institut.

NIKOLAYEV, A.P., otv. red.; SHKOL'NIK, B.I., kand. med. nauk, red.; BAKSHEYEV, N.S., prof., red.; VINOGRADOVA, S.P., prof., red.; GRISHCHENKO, I.I., prof., red.; KORNILOVA, A.I., kand. med. nauk, red.; KONSTANTINOV, V.A., prof., red.; MEDYANIK, R.V., red.; PAP, A.G., kand. med. nauk, red.; PETERBURGSKIY, F.Ye., prof., red.; SAVITSKIY, V.N., prof., red.; STEPANKOVSKAYA, G.S., kand. med. nauk, red.; TIMOSHENKO, L.V., dots., red.; YANKELEVICH, Ye.Ya., prof., red.

[Transactions of the Third Congress of Obstetricians and Gynecologists of the Ukrainian S.S.R.] Trudy III s"ezda akusherov-ginekologov Ukrainskoi SSR. Kiev, Gosmedizdat, 1962. 370 p. (MIRA 17:5)

1. S"yezd akusherov-ginekologov Ukrainskoy SSR. 3d, Kharkov, 1961. 2. Deystvitel'nyy chlen AMN SSSR (for Nikolayev).

YANKELEVICH, Ya.Yu. [IAnkelievich, IA.IU.]

Use of peridural anesthesia in a rural district hospital. Ped., akush. i gin. 20 no.1:56-59 '58. (MIRA 13:1)

1. Rayonnyy akusher-ginekolog, Brovarskaya rayonnaya bol'nitsa Kiyevskoy oblasti.

(ANESTHESIA)

28 (1), 25 (6), 9 (6)
S/119/60/000/02/010/015
B014/B014

AUTHOR: Yankelevich, Ye. A., Engineer

TITLE: Some Drawbacks of Control- and Measuring Instruments

PERIODICAL: Priborostroyeniye, 1960, Nr 2, p 21 (USSR)

ABSTRACT: The following drawbacks of instruments are enumerated: 1) In thermoelectric power plants, lamps of 220 v and 25 w are used for the circuits of light - sound signaling. Switches designed for 50 ma and 110 v are frequently used for such systems. A frequently used pressure gauge is designed only for 10 ma as a maximum. There is an unlimited number of examples which illustrate the difficulties to be mastered in fitting the contact elements into the signaling circuit. 2) The greater part of instruments is designed for a voltage of 220 v, and those instruments which are to be fed with a voltage of 127 v are difficult to fit into large circuits. 3) The author first notes that measuring instruments developed by various factories are frequently graduated counterclockwise, which fact may lead to errors in the operation of large switchboards. Furthermore, several firms use for light signals different colors for the same purpose.

Card 1/2

Some Drawbacks of Control- and Measuring Instruments

S/119/60/000/02/010/015
E014/E014

The author mentions several factories in Moscow, Kirovokansk, and L'vov. It is requested to eliminate such drawbacks in the future.

Card 2/2

YANKELEVICH, Ye.I., kandidat meditsinskikh nauk

Result of prevention and therapy of faulty posture and spinal deformations in school children. Pediatriia no.1:45-49 Ja-F '55. (MLRA 8:5)

(POSTURE,
defects, prev. & ther. in school child.)
(SPINE, abnormalities,
prev. & ther. in school child.)

FLEROVSKIY, Yevgeniy Alekseyevich; YANKELEVICH, Yelena Isayevna, kand. med. nauk; VAYNTSVAYG, G.Ye., red.; YEVDOKIMOVA, Z.N., tekhn. red.

[Therapeutic gymnastics in gastro-intestinal diseases; advice to patients] Lechebnaia gimnastika pri zheludochno-kishechnykh zabolevaniiakh; sovety bol'nomu. Moskva, Gos. izd-vo med. lit-ry, 1956. 32 p. (MIRA 11:9)

(EXERCISE THERAPY)

YANKELEVICH, Ye.I., FLEROVSKIY, Ye.A. CHERNYAKHOVSKIY, A.L.; BREYMINA, R.M., red.

[Callisthenics for mental workers] Gigienicheskaia gimnastika dlia rabotnikov umstvennogo truda. Moskva, 1956. 60 p. illus. (MIRA 11:11)

1. Moscow. TSentralnyy institut sanitarnogo prosveshcheniya. (CALLISTHENICS)

YANKELEVICH, Yelena Isayevna; DVORTSEVAYA, Z.V., redaktor; SHALYGINA, G.A., tekhnicheskiy redaktor

[Gymnastics for infants] Gimnastika dlia detei grudnogo vozrasta. Moskva, Gos. izd-vo "Fizkul'tura i sport," 1956. 68 p. (MIRA 9:9)
(INFANTS--CARE AND HYGIENE)
(PHYSICAL EDUCATION FOR CHILDREN)

YANKELEVICH, Ye.I., kandidat meditsinskikh nauk (Moskva); FLEROVSKIY, Ye.A., metodist (Moskva)

Exercise therapy in pulmonary emphysema. Med. sestra 15 no.11:3-7 N '56. (MLRA 9:12)

(EXERCISE THERAPY) (EMPHYSEMA, PULMONARY)

YANKELEVICH, Ye.I.

Physical culture methods for children with rheumatic diseases. Vop. kur.fizioter. i lech.fiz.kul't. 21 no.1:55-59 Ja-Mr '56. (MLRA 9:9)

1. Iz Detskoy gorodskoy klinicheskoy bol'nitsy V-.1 (glavnyy vrach - zasluzhennyy vrach RSFSR, laureat Stalinskoy premii Ye.V.Prokhorovich)
(PHYSICAL EDUCATION FOR CHILDREN)
(RHEUMATIC FEVER)

YANKELEVICH, Yelena Isayevna, kandidat meditsinskikh nauk; GORINEVSKAYA, V.V., redaktor; ZAKHAROVA, A.I., tekhnicheskiy redaktor

[Posture and flatfoot; prevention and correction of posture defects, spinal deformations, and flatfoot in school children] Osanka i ploskostopie; profilaktika i korrektsiia narushenii osanki, deformatsii pozvonochnika i ploskostopiia u detei shkol'nogo vozrasta. Moskva, Gos. izd-vo med. lit-ry, 1956. 105 p. (MLRA 10:4)
(SPINE--ABNORMITIES AND DEFORMITIES)
(FOOT--ABNORMITIES AND DEFORMITIES)

YANKELEVICH, Ye.I., kandidat meditsinskikh nauk.

Flatfoot in children. Zdorov'e 3 no.4:26-27 Ap '57 (MLRA 10:5)

(FOOT--ABNORMITIES AND DEFORMITIES)

YANKELEVICH, Ye.I.

YANKELEVICH, Ye.I., kand.med.nauk; FIMKOVSKIY, Ye.A.; CHERNYAVSKIY, A.L.; BREYNIN, R.M., red.

[Medical gymnastics for treating hypertension] Lechebnaya gimnastika pri gipertonicheskoy bolezni. Moskva, 1957. 63 p. (MIRA 11:1)

1. Moscow. Institut sanitarnogo prosveshcheniya.
(EXERCISE THERAPY) (HYPERTENSION)

YANKELEVICH, Ye.I.

YANKELEVICH, Ye.I., kand.med.nauk; FLEROVSKIY, Ye.A. (Moskva)

Therapeutic exercise after appendectomy. Med.sestra 16 no.9:8-14 S '57. (MIRA 11:1)

(EXERCISE THERAPY)
(APPENDIX (ANATOMY)--SURGERY)

YANKELEVICH, Ye.I.

YANKELEVICH, Ye.I.

Using physical therapy in early recovery from poliomyelitis. Vop. kur., fizioter. i lech.fiz.kul't. 22 no.3:36-40 My-Je '57. (MIRA 11:1)

1. Iz Moskovskoy detskoy gorodskoy klinicheskoy bol'nitsy No.1 (glavnyy vrach - zasluzhennyy vrach RSFSR Ye.V.Prokhorovich).
(PHYSICAL THERAPY) (POLIOMYELITIS)

YANKELEVICH, YE. I.

30(4) PHASE I BOOK EXPLOITATION SOV/2799

Moscow. Publichnaya biblioteka. Nauchno-metodicheskiy kabinet vedeniya

Nauchno-tekhnicheskiye znaniya-v massy; sbornik materialov v pomoshch' massovym bibliotekam (Scientific and Technical Knowledge for Everyone; Collection of Materials for the Aid of Public Libraries) Moscow, 1958. 196 p. Errata slip inserted. 15,000 copies printed.

Compilers: G. S. Multanovskaya and V. V. Neyman; Ed.: D. Yagodina, Candidate of Pedagogical Sciences; Tech. Ed.: L. M. Kheleznkaya.

PURPOSE: This book is intended for librarians.

COVERAGE: This collection of articles reviews popular scientific and technical literature to aid public library workers in disseminating science information to the reading public. The role and significance of principal industries in the technological development of the USSR are covered. The last two articles describe the experience of individual libraries in promoting popular-science books. The appendix gives a list of bibliographic aids for popular-science literature. No personalities are mentioned.

AVAILABLE: Library of Congress (27911 .M58)

Card 4/4

JG/mah
1-6-60

YANKELEVICH, Ye.I. kand.med.nauk

Callisthenics for the baby. Zdorov'e 4 no.8:22-23 Ag '58 (MIRA 11:7)
(INFANTS--CARE AND HYGIENE)

YANKELEVICH, Ye.I., kand.med.nauk; FLEROVSKIY, Ye.A., prepodavatel' fizicheskogo vospitaniya (Moskva)

Physical education for children in schools. Med.sestra 17 no.3:3-8 Mr '58. (MIRA 11:4)
(PHYSICAL EDUCATION FOR CHILDREN)

BARTEL'S, A.V.; GRANAT, N.Ye.; NOGINA, O.P.; SALGANNIK, G.M. [deceased]; SMIRNOV, G.I.; STEPANOV, L.G.; KHANOVA, T.M., red.; YANKELEVICH, Ye.I., red.; GABERLAND, M.I., tekhn.red.

[Lecture course for pregnant women] Kurs lektsii dlia beremennykh zhenshchin. Pod red. L.G.Stepanova. Izd.3. Moskva, Medgiz, 1959. 231 p. (MIRA 12:8)

1. Nauchno-issledovatel'skiy institut akusherstva i ginekologii Ministerstva zdravookhraneniya RSFSR (for all except Khanova, Yankelevich, Gaberland). 2. Direktor Nauchno-issledovatel'skogo instituta akusherstva i ginekologii Ministerstva zdravookhraneniya RSFSR (for Stepanov).
(PRENATAL CARE)

YANKELEVICH, Ye.I.

AGGEYEV, P.K., prof.; ANDREYEVA-GALANINA, Ye.TS., prof.; BASHENIN, V.A., prof.; BENENSON, M.Ye., doktor med.nauk; VYSHEGORODTSEVA, V.D., prof.; GESSEN, A.I., dotsent; GUTKIN, A.Ya., prof.; ZHDANOV, D.A., prof., laureat Stalinskoy premii; ZNAMENSKIY, V.F., prof.; KLIONSKIY, Ye.Ye., prof.; MONASTYRSKAYA, B.I., prof.; MOSKVIN, I.A., prof.; MUCHNIK, L.S., kand.med.nauk; PETROV-MASLAKOV, M.A., prof.; RUBINOV, I.S., prof.; RYSS, S.M., prof.; SMIRNOV, A.V., prof., zasluzhennyy deyatel' nauki; TIKHOMIROV, P.Ye., prof.; TROITSKAYA, A.D., prof.; UDINTSEV, G.N., prof.; UFLYAND, Yu.M., prof.; FEDOROV, V.K., prof.; KHILOV, K.L., prof., zasluzhennyy deyatel' nauki; VADKOVSKAYA, Yu.V., prof.; MARSHAK, M.S., prof.; PETROV, M.A., kand.med.nauk; POSTNIKOVA, V.M., kand.med.nauk; RAPOPORT, K.A., kand.biolog.nauk; ROZENTUL, M.A., prof.; YANKELEVICH, Ye.I., kand.med.nauk; LYUDKOVSKAYA, N.I., tekhn.red.

[Book on health] Kniga o zdorov'e. Moskva, Gos.izd-vo med.lit-ry, Medgiz, 1959. 446 p. (MIRA 12:12)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Zhanov, Udintsev). 2. Leningradskiy sanitarno-gigiyenicheskiy meditsinskiy institut (for all, except Vadkovskaya, Marshak, Petrov, Postnikova, Rapoport, Rozentul, Yankelevich, Lyudkovskaya).
(HYGIENE)

YANKELEVICH, Yelena Isayevna

[From three to seven; callisthenics for preschool children] Ot trekh do semi; gimnastika dlia detei doshkol'nogo vozrasta. Moskva, Fizkul'tura i sport, 1960. 71 p. illus. (MIRA 14:8)
(PHYSICAL EDUCATION FOR CHILDREN)

YANKELEVICH, Ye.I., kand.med.nauk

Exercise therapy in hypertension. Med.sestra 19 no.5:15-18 My '60. (MIRA 13:9)

1. Iz TSentral'nogo nauchno-issledovatel'skogo instituta sanitarnogo prosveshcheniya Ministerstva zdravookhraneniya SSSR, Moskva.
(EXERCISE THERAPY) (HYPERTENSION)

YANKELEVICH, Ye.I., kand.med.nauk

Exercise therapy in heart defects. Med. sestra no.5:57-59 My '61. (MIRA 14:6)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sanitarnogo prosveshcheniya Ministerstva zdravookhraneniya SSSR, Moskva.
(EXERCISE THERAPY) (HEART—ABNORMITIES AND DEFORMITIES)

YANKELEVICH, Ye.I., kand. med. nauk; VREYNINA, R.M., red.

[Medical gymnastics in hypertension]Lechebnaia gimnastika pri gipertonicheskoi bolezni. Moskva, In-t sanitarnogo prosv., 1962. 48 p. (MIRA 15:7)
(EXPERCISE THERAPY) (HYPERTENSION)

YANKELEVICH, Ya.I., kand.med.nauk (Moskva)

Physical education of schoolchildren in the junior grades.
Med. sestra 22. no.4:55-56 Ap '63. (MIRA 16:7)
(PHYSICAL EDUCATION AND TRAINING)

YANKELEVICH, Ye.A.

Cable with cores of thermoelectrode materials. Priborostroenie no.12:30-31 D '63. (MIRA 17:5)

DRUZHININ, V.P.; IODKO, E.A.; KITAYEV, A.T.; KRUPMAN, L.I.; TARAPAY, M.A.; CHEVELA, L.A.; YANKELEVICH, Ye.P.

Investigating thermal processes in intermediate ladles.
Izv. vys. ucheb. zav.; chern. met. no.10:58-66 '60.(MIRA 13:11)

1. Novo-Tul'skiy metallurgicheskiy zavod, zavod im.Dzerzhinskogo i Dnepropetrovskiy metallurgicheskiy institut.
(Blast furnaces--Equipment and supplies)
(Heat--Transmission)

YANKELEVICH, Ye.Ya., doktor med.nauk, prof.

Peridural anesthesia in gynecology. Ped., akush. i gin. 19 no.3: 46-52 '57. (MIRA 13:1)

1. Kiyevskaya klinicheskaya bol'nitsa Ministerstva okhrany zdorov'ya USSR dlya vodnikov (glavnyy vrach - G.Ye. Rombul't).
(ANESTHESIA)

ACC NR: AR6027135 SOURCE CODE: UR/0272/66/000/004/0164/0165

AUTHOR: Yankelevich, Yu. B.

TITLE: A scintillation spectrometer for studying energy and angular distributions of X ray emission behind various absorbers

SOURCE: Ref. zh. Metrologiya i izmeritel'naya tekhnika, Abs. 4.32.1205

REF SOURCE: Izv. Tomskogo politekhn. in-ta, v. 138, 1965, 49-52

TOPIC TAGS: scintillation spectrometer, X ray emission, X ray measurement

ABSTRACT: A scintillation γ-spectrometer consisting of an NaI(Tl) crystal, an FEU-24 photoamplifier, a preamplifier and an AI-100 amplitude analyzer is described. Resolution of the spectrometer with respect to energy was 8.5% for 660-keV γ-quanta and improved up to 7% for 1.25-MeV γ-quanta. The spectrometer was used to measure emission spectra at the output of an industrial X-ray device of the RUP-200 type and energy spectra of the X-ray emission behind various absorbers (steel, aluminum, plastics, etc.) at various angles $\theta(0° \leq \theta \leq 180°)$. A preliminary analysis of the results obtained has confirmed the possibility of radiography of materials by means of the Compton and coherently diffused at various angles X-ray emission. [Translation of abstract]

SUB CODE: 20

Card 1/1 UDC: 539.174:539.1.074.3

YANKELEVICH, Yu.S., inzh.

Control and automatic protection circuits of 110/35/6 kv. substations. Energetik. 13 no.2:18-19 F '65.
(MIRA 18:6)

YANKELEVICH, Yu.S.

Relay protection system with deshunting of the disconnecting electromagnets. Energetik 12 no.12:13-15 D '64.
(MIRA 18:2)

YANKELOVICH, M. TS.

Organization of control of ambulant antibacterial treatment in tuberculosis. Prob.tub. no.1: 80-81 '63. (MIRA 16:5)

1. Iz Vilyanskogo rayonnogo protivotuberkuleznogo dispansera, Latviyskaya SSR.
(TUBERCULOSIS)

GERMAN-PROZOROVA, Lyutsiya Pavlovna; YANKEL'SON, I.S.; KREYTSER, V.L., prof., doktor tekhn.nauk, red.; GOS, M.E., kand.tekhn.nauk, red.; LEPESHINSKAYA, Ye.V., red.; KRYUCHKOVA, V.N., tekhn.red.

[English-Russian television dictionary] Anglo-russkii slovar' po televideniiu. Pod obshchei red. V.L.Kreitsera pri red.uchastii M.E.Gosa. Moskva, Glavnaia red.inostr.nauchno-tekhn.slovarei Fizmatgiza, 1960. 427 p. (MIRA 14:3)
(Television--Dictionaries)
(English language--Dictionaries--Russian language)

LUR'YE, O.B. Prinimali uchastiye: SHEROV-IGANT'YEV, G.P.; GAMBURG, R.A.; ENTINA, Ye.I.; YANKEL'SON, I.S., red.; ZABOLOTSKIY, N.G., red.; SVESHNIKOV, A.A., tekhn. red.

[Video frequency amplifiers] Usiliteli videochastoty. Izd.2., perer. i dop. Moskva, Izd-vo "Sovetskoe radio," 1961. 675 p. (MIRA 15:2)

(Amplifiers (Electronics))

YANKEVICH, A.E., inzh. (Leningrad)

Prefabricated metal scaffolding for repairing and inspecting a screen-type superheater of the TP-80 boiler. Energetik 13 no.11:17-18 N '65. (MIRA 18:11)

YANKEVICH, B., mekhanik-nastavnik

New vessels and new worries. Rech. transp. 24 no.4:57 '65.
(MIRA 18:5)

1. Yeniseyskoye parokhodstvo.

YANKEVICH, Ch. [Jankiewicz, Cz.]

Stationary gracitation field in conformal space. Acta physica Pol. 24 no.1:13-22 Jl '63.

1. Instytut Fizyki Teoretycznej, Uniwersytet, Wroclaw, ul. Cybulskiego 36.

YANKEVICH, Ch., [Jankiewicz, Cz.]

The Newtonian equations of motion and the harmonicity conditions in the theory of gravitation. Zhur. eksp. i teor. fiz. 44 no.2:649-656 F '63. (MIRA 16:7)

1. Institut teoreticheskoy fiziki Vrotslavskogo universiteta.

YANKEVICH, F. M.

YANKEVICH, FEODOR MIKHAYLOVICH

"On Nonstationary Heat-Exchange Processed During the Cooling of Lined Steam Boilers." Dr Tech Sci, Lithuanian Agricultural Academy, Kaunas, 1954. (KL, No.8, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

YANKEVICH, F. M., Candidate Tech Sci (diss) -- "A method of determining thermal losses of steam boilers with masonry covering during operational interruptions". Leningrad, 1959. 11 pp (Min Higher Educ USSR, Leningrad Polytech Inst im M. I. Kalinin), 150 copies (KL, No 24, 1959, 144)

DZHAVROVA, I.K.; ANTONKIN, E.; BRYNZOVA, Z.; DEMICHEVA, N.; ZERENKOVA, L.; TARASOVA, V.; YANKEVICH, G.

Comparative evaluation of various media for determining the toxigenic properties of diphtheria bacilli in vitro. Lab. delo 6 no.4:48 Jl-Ag '60. (MIRA 13:12)

1. Kafedra mikrobiologii Smolenskogo meditsinskogo instituta.
(BACTERIOLOGY--CULTURES AND CULTURE MEDIA) (DIPHTHERIA)

YELIN, I.; YANKEVICH, I.

Metallized coatings and their use for ship repairs; Inform.sbor. TSNIIMF no.26:36-65 '58. (MIRA 13:4)

1. Iz opyta Kanonerskogo sudoremontnogo zavoda.
(Metal spraying)
(Ships--Maintenance and repair)

YANKEVICH, I.F., inzh.

Improving the organization of ship repairs. Sudostroenie 23 no.8:55-56 Ag '57. (MIRA 10:11)
(Ships--Maintenance and repair)

YANKEVICH, I.F., inzh.

Reconditioning worn shafts by electrometallization. Sudostroenie 24 no.2:49-50 F '58. (MIRA 11:3)
(Shafting--Maintenance and repair) (Electroplating)

GRIGOV, V.A.; YANKEVICH, I.I.

Some technological properties of molding powder. Trudy MIKHM 27:81-83 '64. (MIRA 18:8)

GEYNRIKHS, Georgiy Karlovich; YANKEVICH, I.P., kand. tekhn. nauk, retsenzent; ARKHAROV, A.M., kand. tekhn.nauk, retsenzent; VASIL'YEV, L.G., nauchn. red.; NIKITINA, R.D., red.; KRYAKOVA, D.M., tekhn. red.

[Ship and coastal oxygen plants] Sudovye i beregovye kislorodnye ustanovki. Leningrad, Sudpromgiz, 1963. 341 p. (MIRA 16:12)

(Oxygen) (Gases--Seperation)

DREYZIN, R.S.; YANKEVICH, O.D.

Serological investigation of strains of adenoviruses isolated in Moscow during 1956-57. Vop. virus 4 no.1:53-55 Ja-F '59. (MIRA 12:4)

1. Otdel grippa i ostrykh katarov Instituta virusologii imeni D. I. Ivanovskogo AMN SSSR, Moskva.
(ADENOVIRUS,
Russian serotypes (Rus))

CHUMAKOV, M.P.; VOROSHILOVA, M.K.; VASIL'YEVA, K.A.; BAKINA, M.N.; DROZDOV, S.G.; PODSEDLOVSKIY, T.S.; KOSTINA, K.A.; SHIRMAN, G.A.; YANKEVICH, O.D.; USPENSKIY, Yu.S.; ASHMARINA, Ye.Ye.

Preliminary report on massive peroral immunization of the population against poliomyelitis with live virus vaccine from attenuated Sabin strains. Vop.virus. 4 no.5:520-533 S-O '59. (MIRA 13:2)

1. Institut po izucheniyu poliomiyelita AMN SSSR, Moskva.
(POLIOMYELITIS, immunol.)

YANKEVICS, O.D.

CSUMAKOV, M.P.; VOROSILOVA, N.K.; VASZILJEVA, K.A.; IAKINA, M.N.; ASMARINE, E.E.; DOBROVA, I.N.; DROZDOV, SZ.G.; JANKEVICS, O.D.; PODSZEDLOVSZKIJ, T.SZ.; SZOKOLOVA, I.SZ.; SIRMAN, G.A.; BOJKO, V.M.

Oral mass immunization of the population of the Soviet Union against poliomyelitis with live vaccine prepared from attenuated Sabin strains. Orv.hetil. 101 no.4:109-117 Ja '60.

1. Orvostudomanyi Akademia, oliomyelitis Kutato Intezet, Moszkva.
(POLIOMYELITIS immunol.)

DREYZIN, R.S., YANKEVICH, O.D., ZOLOTARSKAYA, E.E.

"Adenvirus infection."

Report submitted to the Intl. Congress for Microbiology
Montreal , Canada 19-25 Aug 1962

DREYZIN, R.S.; BELETSKIY, V.D.; YANKEVICH, O.D.

"New"respiratory viruses. Vop. virus. 8 no.3:259-263 My-Je'63.
(MIRA 16:10)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.
(RESPIRATORY ORGANS — MICROBIOLOGY)

ZHDANOV, V.M.; DREYZIN, R.S.; MEKLER, L.B.; YANKEVICH, O.D.; NAUMOVA, V.I.

Study of the properties of adenoviruses and their agglutinins by fractionation using chromatography on DEAE cellulose.
Vop. virus no.6:688-692 N-D '63. (MIRA 17:6)

1. Institut virusologii imeni D.I. Ivanovskogo, AMN SSSR, Moskva.

DREYZIN, R.S.; ZOLOTARSKAYA, E.Ye.; YANKEVICH, O.D.; MELLER, L.; MEVZOS, L.M.

Various possibilities of using the hemagglutination and hemagglutination inhibition reactions with adenoviruses. Vop. virus. 10 no.1:111-117 Ja-F '65. (MIRA 18:5)

1. Institut virusologii imeni Ivanovskogo AMN SSSR, Moskva.

DREYZIN, R.S.; YANKEVICH, O.D.; KIKVADZE, T.I.

Outbreak of diseases caused by respiratory syncytial virus.
Vop. virus. 10 no. 6:708-716 N-D '65 (MIRA 19:1)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR, Moskva.
Submitted March 25, 1965.

SOROKIN, A.F., prof.doktor tekhn.nauk; YANKEVICH, P.K., inzh.

Studying the circulation and heat exchange in evaporators with a separated boiling zone. Izv.vys.ucheb.zav.;energ. no.8:64-72 Ag '58. (MIRA 11:11)

1. Ivanovskiy energeticheskiy institut imeni V.I. Lenina.
(Evaporation) (Heat--Transmission)

SOV/143-58-9-8/18

AUTHOR: Sorokin, A.F., Doctor of Technical Sciences, Professor; Yankevich, P.K., Engineer

TITLE: The Heat Conductivity of Electrolytic Alkalis (Teploprovodnost' elektroliticheskikh shchelokov)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - Energetika, 1958, Nr 9, pp 56-60 (USSR)

ABSTRACT: Solutions are investigated that correspond to specific stages in technological production. Weak electrolytes (100-120 g/l NaOH, 175-200 g/l NaCL and low content of Na_2SO_4) after electrolysis: Average electrolytes, after the first stage of their concentration: Strong electrolytes, after evaporation is completed. The paper describes the test equipment for determining the heat conductivity factor of these solutions. The method is identical to that for hard bodies. The equipment must be designed to guard against convection currents, which may completely distort the results. Consequently the thickness of the fluid layer is reduced to a minimum

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The Heat Conductivity of Electrolytic Alkalis

and temperature jumps in the fluid layer decrease. The idea of this method is that by passing a stream of heat in turn through a layer of test fluid and a layer of standard fluid, a temperature jumps are set up inversely proportional to the heat conductivity factor. The authors used the comparative surface layer method of A.F.Kapustinskiy and I.I.Ruzavin. The advantages of this method are: 1) There is no danger of a convection current. 2) Measurements for determining the stream of heat that passes through the test layer are avoided. 3) All measurements are reduced to precise determination of the temperature differences between the plates. The paper then describes the equipment and the test results. The experiments were carried out with three combinations of caustic soda solutions at temperatures of 40 - 90°C using distilled water as the standard fluid. The three solutions studied corresponded approximately to the three of weak, average and strong electrolytic alkalis NaOH, NaCL and Y20. The heat conductivity of the test solutions

The Heat Conductivity of Electrolytic Alkalis

increases with a rise in temperature and follows the change in the heat-conductivity of the water. With an increase in NaOH concentration, the solution's conductivity rises. It is less than the heat conductivity of water at low concentrations and greater than it at large ones. This is explained by the varied influence of the constituent components on the heat-conductivity of the solution. There are 1 table, 1 diagram, 1 graph and 3 Soviet references.

ASSOCIATION: Ivanovskiy ~~energeticheskiy institut~~ imeni V.I.Lenina (Ivanovo Power Engineering Institute imeni V.I. Lenin)

SUBMITTED: May 12, 1958

Card 3/3

YANKEVICH, P.K., inzh.

Investigating condensation processes of solutions in apparatus with a submerged heating surface. Sbor.nauch.trud LTI no.8: 114-126 '58. (MIRA 13:4)
(Evaporating appliances)

MIKHAYLOV, V.; YANKEVICH, V.; BAGIN, N.

Radio controlled tractors. NTO 3 no.11:34-38 N '61.
(MIRA 14:10)

1. Direktor predpriyatiya "Kraspromavtomatika" (for Mikhaylov).
(Tractors--Radio control)

YANKEVICH, V. F.

AUTHOR: Yankevich, V.F. (Yankevych, V.F.) 21-5-14/26

TITLE: Effect of an Impulse Flow of High Temperature Gasss on the Surface Layer of Steel (Vliyaniye impul'snogo potoka gazov vysokoy temperatury na poverkhnostnyy sloy stali)

PERIODICAL: Dopovidi Akademii Nauk Ukrains'koi RSR, 1957, Nr 5, pp. 480-484 (USSR)

ABSTRACT: The author carried out experiments with impulse flow of high-temperature gases. In one of the experiments 2.3 g of smokeless powder was placed into a combustion chamber with samples of steel of the "40 Kh"-type. The burning of the powder which lasted 0.02 sec produced a gas pressure of 2,800 to 4,100 atm and a temperature of 2,500°C. The flow of this gas polished the surface of the steel sample under investigation and reduced its micro unevenness from 4.2 microns to 0.3 microns. The impulse flow of high-temperature gases produces also structural changes in metals. An experiment with Armco-iron resulted in the formation of a light surface layer of 80 to 120 microns. Samples of "40X" steel subjected to an impulse flow of gases also showed the formation of white layers of 50 to 60 micron thick. The basic part of this layer has a high microhardness of 750 to 775 kg/sq mm; its structure is austen-

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Effect of an Impulse Flow of High Temperature Gases on the Surface Layer of Steel

ite-martensite. Thus the impulse flow of high-temperature gases hardened the surface steel layer, and the hardness obtained in this way exceeds that produced under conventional conditions. The experiments have shown that it is possible to obtain the hardened layer of various thickness and structure and the surface of a required degree of evenness by means of varying the duration of burning, pressure and temperature of the gases and other conditions of gas flow. The author draws a conclusion that this method of impulse gas blowing can be applied as a technological process of thermo-mechanical treatment of small orifices where other method present difficulties. The article contains 2 photos, 2 graphs and 2 Slavic references.

ASSOCIATION: Institute of Construction Mechanics of the AN Ukrainian SSR (Instytut budivel'noi mekhaniky AN URSR)
PRESENTED: By F.P. Belyankin (Byelyankin), Member of the AN Ukrainian SSR
SUBMITTED: 23 November 1956
AVAILABLE: Library of Congress
Card 2/2

YANKEVICH, V.F.

1

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S/686/61/000/000/006/012
D207/D303

18.7500 1454

AUTHORS: Grozin, B. D., Semirog-Orlik, V. N., Golovinskaya, T.M., Nizhnik, S. B. and Yankevich, V. F.

TITLE: Phase and structural changes in steel under conditions of temperature and pressure shocks

SOURCE: Soveshchaniye po voprosam teorii sukhogo treniya i obrazovaniya chastits iznosa pri sukhom trenii. Riga, 1959, 97-105

TEXT: The authors investigated the crystal structure and composition of "white" layers formed on steel by high pressures and temperatures. For x-ray diffraction work an instrument УРС-50 И (URS-50I) was used; electron-microscopic and spectroscopic techniques were also employed. The authors studied the effects of (1) grinding roller-bearing parts with an abrasive disc rotating at various speeds and subjected to various loads; (2) normal working conditions on transmission gear teeth from a ГАЗ-63 (GAZ-63) automobile, and (3) hot-gas blasts (1200 kg/cm^2 for 0.0025 sec) on steels 45

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Phase and structural ...

and Y10 (U10). In all three cases similar changes occurred: (1) Well above their critical temperatures both austenite and martensite were formed in hypereutectoid steel and martensite only in hypoeutectoid steel; (2) austenite, martensite and ferrite were formed in all steels just above the lower critical temperature; (3) below the critical temperature ferrite was formed, by thermoplastic annealing, in all steels; (4) austenite, martensite and ferrite formed in these processes differed considerably in carbon content and lattice parameters from those obtained by the usual heat treatments. There are 9 figures.

ASSOCIATION: Institut stroitel'noy mekhaniki AN USSR (Institute of Building Mechanics AS UkrSSR)

S/686/61/000/000/007/012
D207/D303

AUTHOR: Yankevich, V. F.

TITLE: On the nature of "white" layers

SOURCE: Soveshchaniye po voprosam teorii sukhogo treniya i obrazovaniya chstits iznosa pri sukhom trenii. Riga, 1959, 107-119

TEXT: The author investigated formation, composition and structure of "white" layers at the surface of steel and cast iron. White layers have been studied by N. N. Davidenkov, B. D. Grozin, L. S. Palatnik, I. M. Lyubarkiy, B. I. Kostetskiy, A. D. Kuritsyna, G. M. Zamoruyev and others. There is as yet no generally accepted view on their formation and structure. The present author used electron-microscopic, spectroscopic and x-ray diffraction techniques to study white layers. In optical work a quartz-glass spectrograph КСА-1 (KSA-1) was used and spectra were excited by a high-frequency spark. For x-ray diffration an instrument УРС-50И (URS-50I), with an ionization counter, was employed. The materials

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On the nature of ...

investigated were: (1) Cast-iron piston rings from a two-stroke diesel engine ДК 30/40 (DK 30/40) after 50 hours operation; (2) АШ-62ИР (ASh-62IR) type aviation-engine piston rings made of steels 38ХМЮА, Х12М (38KhMYuA, Kh12M) and of cast irons ПЛЧ-1, ХТВ (PLCh-1, KhTV), subjected to 30 - 40 hours operation; (3) steel nozzles subjected to blasts of hot gases from combustion of gunpowder; (4) 40Х (40Kh) steel plates subjected to hot-gas blasts produced by burning smokeless gunpowder. The results obtained by the author and by other workers studying friction, mechanical impact, electric-spark erosion, grinding, cutting etc., led to the following conclusions about white layers of steel and iron alloys: (1) These layers should be studied using simultaneously several physical methods in order to obtain the fullest information; (2) they may consist of austenite, martensite, ferrite and other phases, and their actual structure depends very strongly on the physico-chemical conditions, under which they are formed; (3) they are formed mostly under the conditions of rapid heating and cooling at temperatures above the critical; (4) they differ consider-

On the nature of ...

ably in composition, grain structure, lattice constants, etc. from phases formed under less extreme conditions. There are 13 figures.

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(Mechanical wear) (Machinery)