

NEDUZHIY, A.A.; ~~KURILENKO, O.D.~~

Structure forming process in starch glues. Trudy KTIPP no.19:119-122
'58. (Glue) (Starch) (MIRA 12:12)

KURILENKO, O.D.; KABAN, A.P.

Investigating the dielectric properties of aqueous amylose solutions.
Izv.vyn.ucheb.zav.; pishch.tekh. no.1:32-36 '59.

(MIRA 12:6)

1. Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti,
kafedra fizicheskoy i kolloidnoy khimii.
(Amyloses--Electric properties)

KURILENKO, G.D.; YAKOVKINA, Ye.A.

Determining contraction during moistening of starch and use of this data in the study of the hydrophilic nature of starch. Izv. vys.ucheb.zav.; pishch.tekh. no.1:130-134 '59. (MIRA 12:6)

1. Kiyovskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra fizicheskoy i kolloidnoy khimii.
(Starch) (Heat of wetting)

5(

SOV/69-21-2-12/22

AUTHORS: Kurilenko, O.D. and Mikhalyuk, R.V.

TITLE: The Adsorption of Aliphatic Amines on Bentonite from Aqueous Solutions (Adsorbtsiya alifaticheskikh aminov na bentonite iz vodnykh rastvorov)

PERIODICAL: Kolloidnyy zhurnal, 1959, Nr 2, pp 195-199 (USSR)

ABSTRACT: This is the report of an investigation carried out to study the adsorption of the higher aliphatic amines on bentonites in quantities exceeding by several times the exchange capacity of the latter. The investigation established two types of adsorption - irreversible ionic and reversible physical adsorption. It was further ascertained that an amine adsorption on sodium bentonite exceeds by several times the adsorption on calcium bentonite, which partly is explained by the fact that the first disperses in water to a far higher degree than the second. Another possible factor of this phenomenon is the different solidity of the linkage of sodium and calcium ions with the montmorillonite surface, i.e. the exchange of the organic cation with Na^+ is more easily per-

Card 1/2

SOV/69-21-2-12/22

The Adsorption of Aliphatic Amines on Bentonite from Aqueous Solutions

formed than with Ca^{2+} . When measuring the heat caused by wetting the dried amine-bentonite complexes of various amine-clay ratios with water, the authors observed that in this concentration area (80-100 mg-equiv) the hydrophilic properties are reduced to a minimum. The following scientists are mentioned in the article; R. Grim, [W. H.] Slabaugh (Sleybo), and P.A. Rebinder. There are 3 graphs and 15 references, 12 of which are English and 3 Soviet.

ASSOCIATION: Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti (Kiyev Technological Institute of the Food Industry)

SUBMITTED: December 4, 1957

Card 2/2

5 (4)

AUTHORS: Mikhalyuk, R. V., Kurilenko, O. D. SOV/153-2-2-9/31

TITLE: Investigation of Lyophilically Aminated Bentonites
(Issledovaniye liofil'nosti aminirovannykh bentonitov)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya
tekhnologiya, 1959, Vol 2, Nr 2, pp 196 - 199 (USSR)

ABSTRACT: Bentonite can be looked upon as an inorganic high polymer. It disperses itself in water and has ion exchanging properties. As is known, exchange cations have an influence on the hydrophilic nature of bentonite (Refs 2-8). The influence of the organic cations on the molecular nature of the bentonite surface has not been investigated sufficiently (Refs 9-11). The present article deals with the examination of the originally hydrophilic bentonite surface dependent on the nature of the organic exchange cations (amines) and on their concentration. A 2% water dispersion of Askangel' (sodium bentonite, deposit of Tsikhis-Ubana, Gruzinskaya SSR) was prepared for the investigation. The amines were first transferred into HCl salts and dissolved in water. Amination was carried out in the mentioned dispersions. The authors found that the minimum hydrophilic nature of the bentonite surface lies within 100 mg-equ/100 g. This rela-

Card 1/4

Investigation of Lyophilically Aminated Bentonites SOV/153-2-2-9/31

tion therefore served as a fundamental. After the diluted amino salt solutions in water had been added to the dispersion, a quick flocculation occurred. Table 1 gives the figures of the heat of wetting Askangel' with water in which the cation is replaced by various inorganic and organic cations. This shows that these heats were considerably reduced after treating Askangel' with various organic cations. The hydrophilic nature of bentonite is apparently least reduced by the 1-charge cation which is smallest in size and most compact. The tri-isoamyl amine ion reduces the mentioned heat much more. The greatest reduction of the hydrophilic nature of natural bentonite is caused by cations of the salts of quaternarily dispersed ammonium. Thus the branching of carbon chains plays a role, as well as their length. The analysis given in table 1 leads to the conclusion that the cations form a sequence according to the degree of their influence on the hydrophilic nature of the bentonite surface: $Ca > H > Na >$ large organic cations. From this table the fact results that no continuous monolayer seems to develop on the bentonite surface, at least not by the amines used there. The information won in connection with the heat of wetting also proved right by measuring the absorbed amount of water, on the

Card 2/4

Investigation of Lyophilically Aminated Bentonites SOV/153-2-2-9/31

basis of the varied tensions of water steam (Table 2). Figure 1 shows the adsorption therms for bentonite, the cation of which was replaced by organic and inorganic cations. The organic montmorillonite derivatives on the whole, are less hydrophilic than the inorganic ones. Table 3 shows the measuring results of the adsorption of benzene vapor with aminated bentonites. These statements show that the amount of the absorbed benzene increases with an increase of the hydrocarbon radical which is a component of the amine added to bentonite. Figure 2 shows the measuring results of the adsorption isotherms of benzene vapor (at 20°) on specimens of natural Askangel' and Askangel' dispersed by cations of higher amines. This shows that the oleophilic nature of bentonite is increased by the latter substitute. The hysteresis takes place in the whole sphere of the relative pressure. The adsorption of benzene vapor proves the increased oleophilic nature of aminated bentonites. The isotherms shown in figures 1 and 2 change places, so to speak: natural bentonite which swells in water, does not swell in benzene, and aminated bentonite swells in benzene, although it does not swell in water. There are 2 figures, 3 tables, and 15 references, 7 of

Card 3/4

Investigation of Lyophilically Aminated Bentonites SOV/153-2-2-9/31
which are Soviet.

ASSOCIATION: Kiyevskiy tekhnologicheskij institut pishchevoy promyshlennosti;
Kafedra fizicheskoy i kolloidnoy khimii (Kiyev Technological
Institute of the Food Industry; Chair of Physical and Colloid
Chemistry)

SUBMITTED: February 15, 1958

Card 4/4

SOV/153-2-3-10/29

5(4)
AUTHORS: Mikhalyuk, R. V., Kurilenko, O. D.
TITLE: Sedimentation Volumes of Aminated Bentonites in Organic Liquids

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 3, pp 366-368 (USSR)

ABSTRACT: The object of the present paper was to investigate the capability of swelling of aminated montmorillonite in organic liquids. In this case intermicellar swelling was concerned which may be measured by the increase of the total volume. The swelling of montmorillonite which was aminated with dimethyl decyl octadecylammonium chloride in water, ethyl alcohol, isoamyl alcohol, aniline, ethyl acetate, ethyl ether, acetone, benzene, and nitrobenzene was measured (Table 1). The capability of swelling and heat of wetting of the alcohols depend on the length of the chain (Table 2; Figs 1 and 2). With increasing chain length also the oleophilic properties increase. In a further test series montmorillonite aminated with trimethyl octadecylamine (TMO) was used, benzene and alcohol served as solvents (Table 3). Montmorillonite samples with

Card 1/2

Sedimentation Volumes of Aminated Bentonites in SOV/153-2-3-10/29
Organic Liquids

different occupation with TMO were investigated. The maximum of swelling is at an occupation of approximately 100 mg-equivalent/100 g. It was found that in a series of organic liquids, especially in nitrobenzene, thixotropic gels were formed at certain concentrations. There are 2 figures, 3 tables, and 4 references.

ASSOCIATION: Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti - Kafedra fizicheskoy i kolloidnoy khimii (Kiyev Technological Institute of Food Industry - Chair of Physical and Colloidal Chemistry)

SUBMITTED: February 15, 1958

Card 2/2

KURILENKO, O.D.; SUKHOMLIN, R.I.

Dielectric properties of activated carbon suspensions in benzene.
Trudy KTIPP no.21:123-126 '59. (MIRA 14:1)
(Carbon, Activated—Electric properties)

OYCHARENKO, F.D., otv.red.; KURILENKO, O.D., doktor khim.nauk, red.;
NEYMARK, I.Ye., doktor khim.nauk, red.; ROYTER, V.A., red.;
MIKHALYUK, R.V., kand.khim.nauk, red.; MEL'NIK, A.F., red.
izd-va; MATVEYCHUK, A.A., tekhn.red.

[Natural mineral sorbents: proceedings of the conference held
June 9-12, 1958 in Kiev] Prirodnye mineral'nye sorbenty;
trudy soveshchaniya, sostoiavshegosia 9-12 iunia 1958 goda
v g. Kieve.. Kiev, 1960. 370 p. (MIRA 13:7)

1. Soveshchaniye po prirodnyim mineral'nyim sorbentam, Kiev, 1958.
2. Chleny-korrespondenty AN USSR (for Ovcharenko, Royter).
(Sorbents)

KARAN, A.P.; KURILENKO, O.D.

Electric conductivity and dielectric constant of amylopectin solutions. Izv.vys.ucheb.zav.; pishch.tekh. no.1:43-47 '60.
(MIRA 13:6)

1. Kafedra fizicheskoy i kolloidnoy khimii Kiyevskogo tekhnologicheskogo instituta pishchevoy promyshlennosti.
(Amylopectin--Electric properties)

KURILENKO, O.D.; YAKOVKINA, Ye.A.

Equilibrium in the system starch - alcohol-water mixture.
Koll.shur. 22 no.3:282-287 My-Je '60. (MIRA 13:7)

1. Kiyevskiy tekhnologicheskij institut pishchevoy promy-
shlennosti.

(Starch) (Ethyl alcohol) (Heat of wetting)

KURILENKO, O.D.; KABAN, A.P.; NEDUZHIIY, A.A.

Investigation of the rheological properties of paste-yielding starch, amylose, and amylopectin solutions. Izv.vys.ucheb.zav.; pishch.tekh. 1:12-16 '61. (MIRA 14:3)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti, Kafedra fizicheskoy i kolloidnoy khimii.
(Starch) (Amylose) (Amylopectin)

KURILENKO, O.D.; SUKHOMLIN, R.I.

Possibilities for the use of high-frequency conductometric method
in studying saturation. Izv. vys. ucheb. zav.; pishch. tekh.
no.4:142-145 '61. (MIRA 14:8)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti,
kafedra fizicheskoy, kolloidnoy i analiticheskoy khimii.
(Conductometric analysis) (Sugar industry)

GORONOVSKIY, Igor' Trefil'yevich; NAZARENKO, Yuriy Pavlovich; NEKRYACH,
Yevgeniy Fedorovich; KURILENKO, O.D., doktor khim. nauk, prof.,
otv. red.; IMAS, R.L., red.; KADASHEVICH, G.A., tekhn. red.

[Concise handbook of chemistry]Kratkii spravochnik po khimii.
Kiev, Izd-vo Akad. nauk USSR, 1962. 659 p. (MIRA 16:1)
(Chemistry--Handbooks, manuals, etc.)

GOLOVNYK, Yu. D.; KARTASHOV, A. K.; KURILENKO, O. D.

Improving the separation of the solid phase in sugar manufacture suspensions by means of high-molecular flocculents. Izv. vys. ucheb. zav.; pishch. tekhn. no.5:78-83 '62.

(MIRA 15:10)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti i Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti.

(Sugar manufacture) (Flocculation)

KURILENKO, O.D.; OVCHARENKO, F.D.; YAKOVKINA, Ye.A.

Problems in the thermodynamics of wetting. Izv.vys.ucheb.zav.;
khim.i khim.tekh. 5 no.1:87-90 '62. (MIRA 15:4)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti,
kafedra fizicheskoy i kolloidnoy khimii.
(Wetting)

PRILIPKO, L.T.; KURILENKO, O.D.

Technical application of polymer flocculants. Trudy KTIPP no.25:
27-31 '62. (MIRA 16:5)

(Polymers)

(Flocculation)

PHILIPKO, L.T.; KURILENKO, O.D.

Mechanism of the reaction of polyelectrolytes with suspensions.
Trudy KTIPP no.25:31-36 '62. (MIRA 16'5)
(Polyelectrolytes) (Suspensions(Chemistry)) (Flocculation)

KOSTENYUK, N.N.; KURILENKO, O.D.

Investigating the kinetics of saccharose hydrolysis in the presence of cation exchangers in H-form. Izv.vys.ucheb.zav.; pishch. tekhn. nauki 3:46-49 '63. (MIRA 16:8)

1. Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti, kafedra fizicheskoy i kolloidnoy khimii.
(Hydrolysis) (Ion exchange resins) (Sucrose)

KOVALENKO, S.L.; KURILENKO, O.D.

Modern concepts concerning pectin substances. Izv.vys.ucheb.zav.;
pishch.tekh. no.5:28-32 '63. (MIRA 16:12)

1. Kiyevskiy tekhnologicheskoy institut pishchevoy promyshlennosti,
kafedra fizicheskoy, kolloidnoy i analiticheskoy khimii.

KURILENKO, O.D.; PRILIPKO, L.T.; MIKHALYUK, R.V.

Interaction of polyacrylamide with bentonite suspensions. *Izv.vys.-ucheb.zav.;khim. i khim.tekh.* 6 no.2:248-251 '63. (MIRA 16:9)

1. Kiyevskiy tekhnologicheskoy institut pishchevoy promyshlennosti, kafedra fizicheskoy, kolloidnoy i analiticheskoy khimii.
(Acrylamide) (Bentonite)

KOVALEVSKAYA, Ye.I.; KURILENKO, O.D.

Structural and mechanical properties of starch glues. *Izv.vys.*
ucheb.zav.; pishch.tekh. no.1:40-42 '64. (MIRA 17:4)

1. Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti,
kafedra fizicheskoy i kolloidnoy khimii.

CHISTYAKOVA, Ye. A.; KURILENKO, O. D.

Determining the isoelectrical point of egg albumin by high-frequency titration. *Izv. vys. ucheb. zav.; pishch. tekhn. no. 2:* 153-155 '64. (MIRA 17:5)

1. Kiyevskiy tekhnologicheskij institut pishchevoy promyshlennosti, kafedra fizicheskoy i kolloidnoy khimii.

ACCESSION NR: AP4022107

S/0073/64/030/003/0244/0247

AUTHOR: Parkhomenko, V. V.; Kurilenko, O. D.

TITLE: Water content in ionites by the present indicator method.

SOURCE: Ukrainskiy khimicheskij zhurnal, v. 30, no. 3, 244-247

TOPIC TAGS: ion exchange resin, cationite KU-2, cationite KU-1, cationite KV-4-P2, water content, water determination, adsorbed water, cross linked resin

ABSTRACT: The water adsorption of various ionites was investigated in order to evaluate its effect on the properties of the ionites. The amount of "bound" water was determined by an indicator method (A. V. Dumanskiy. Liofil'nost'dispersny*kh system. Izd-vo AN USSR, 1960) based on the concept that water adsorbed (X_1) on a hydrophilic material loses its solvent action:

$$X_1 = \frac{aP}{100} + B \frac{b_2 - b_1}{b_2}; \quad X = \frac{100 X_1}{P(100-a)}$$

where a is the moisture content of the cationite (%), P = cationite weight in gm.
B = amount of indicator solution in gm., b_1 = initial indicator concentration, %,
Card 1/5

ACCESSION NR: AP4022107

b_2 - equilibrium indicator concentration, %, and X = number of grams of bound water in which the indicator does not dissolve, per one gram of dry material. Determinations were made of the amount of bound water on cationites KU-1, Kb-4-P2 and KU-2 in the H, Na, Ca and Fe forms (figs. 1,2) and on KU-2 having different degrees of cross-linking (different divinylbenzene content). The amount of water adsorbed on a given ionite depends on the nature of the exchange ion, with the effect decreasing in the following series, H, Na, Ca, Fe. The effect is more pronounced on a strongly acid cationite (KU-2) than on the weak acid cationites. Increasing the cross-linkage of the cationite KU-2 reduces its water adsorption to a slight extent. Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: Kiyevskiy tekhnologicheskii institut pishchevoy promy*shlennosti (Kiev Technological Institute of the Food Industry).

SUBMITTED: 15 May 63

DATE ACQ: 09 Apr 64

ENCL: 03

SUB CODE: CH, MA

NO REF SOV: 004

OTHER: 004

Card 2/5

ENCLOSURE: 01

ACCESSION NR: AP4022107

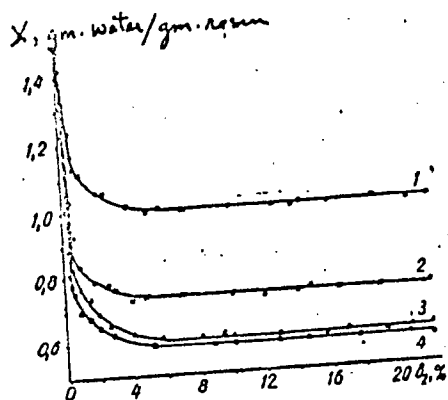


Fig. 1
Relationship between the amount of water, bound on cationite KU-2 in different form, and the equilibrium concentration of indicator (sucrose):
1--H-form; 2--Na-form; 3--Ca-form, 4--Fe-form

Card 3/5

ENCLOSURE: 02

ACCESSION NR: AP4022107

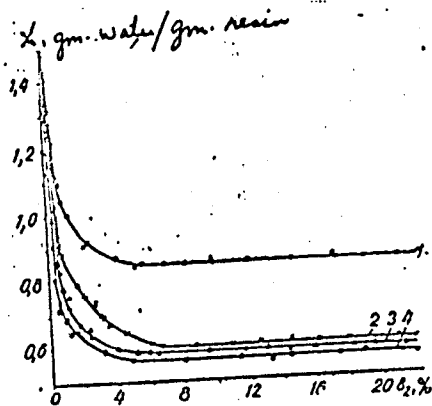


Fig. 2
 Relationship between the amount of water bound on cationite KU-2 in different form, and the equilibrium concentration of indicator (glucose):
 1--H-form; 2--Na-form; 3--Ca-form; 4--Fe-form

Card 4/5

ENCLOSURE: 03

ACCESSION NR: AP4022107

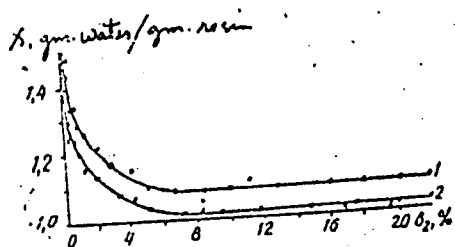


Fig. 3
 Relationship between the amount of water bound on cationite KU-2 in the H-form with different degrees of cross-linking, and the equilibrium concentration of indicator (sucrose):
 1--KU-2 with 4% DVB, 2--KU-2 with 20% DVB

Card 5/5

PARKHOMENKO, V.V.; KURILENKO, O.D.

Water content of ion exchangers from the data of the indicator
method. Ukr. khim. zhur. 30 no.3:244-247 '64. (MIRA 17:10)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy
promyshlennosti.

DUMANSKIY, A.V.; AVRAMCHUK, L.P.; KURILENKO, O.D.; NEKRYACH, Ye.F.

Heat of reactions between a sulfonated styrene cationite and
water. Dokl. AN SSSR 159 no.5:1120-1122 D '64 (MIRA 1801)

1. Institut obshchey i neorganicheskoy khimii AN SSSR. 2. Chlen
korrespondent AN SSSR (for Dumanskiy).

GORONOVSKIY, Igor' Trefil'yevich [Horonova'kyl, I.T.];
NAZARENKO, Yuriy Pavlovich; NEKRYACH, Yevgeni
Fedorovich; KURILENKO, O.D. [Kurylenko, O.D.], prof.,
doktor khim. nauk, red.

[Handbook of chemistry] Kratkii spravochnik po khimii.
3. ispr. i dop. izd. Kiev, Naukova dumka, 1965. 835 p.
(MIRA 18:7)

KOVALENKO, S.L.; KURILENKO, O.D.

Viscosity of pectin solutions. Ukr.khim.zhur. 31 no.2:175-179
'65. (MIRA 18:4)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti.

PARKHOMENKO, V.V.; KURILENKO, O.D.

Sorption processes on cation exchangers from alcohol-aqueous solutions. Ukr. khim. zhur. 31 no.4:372-375 '65. (MIRA 18:5)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti.

PRILIPKO, L.T.; KURILENKO, O.D.

Effect of polyelectrolytes on the stability of aqueous suspensions
of bentonites. Ukr. khim. zhur. 31 no.4:376-378 '65. (MIRA 18:5)

1. Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti.

KABAN, A.P., inzh.; KOVALEVSKAYA, Ye.I., inzh.; KURILENKO, O.D.,
doktor khim. nauk

Electron microscope analysis of starch fractions in the
presence of polyelectrolytes. Pishch. prom. no.2:26-31
'65. (MIRA 18:11)

1. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlen-
nosti.

PARZHOMENKO, V.V., Inst. of Mathematics, USSR Academy of Sciences, 1984

Studying the equilibrium of the system of the first and second
order nonlinear differential equations. (M.I.A. 1811)

1. Klyayevskiy tekhnikeskoye uchilishche, (M.I.A. 1811)

NEKRYACH, Ye.F.; KURILENKO, O.D.; DUMANSKIY, A.V.

Thermodynamics of icolite hydration. Dokl. AN SSSR 165 no.3:611-
614 N '65. (MIRA 18:11)

1. Institut obshchey i neorganicheskoy khimii AN SSSR.
2. Chlen-korrespondent AN SSSR (for Dumanskiy).

KOVALEVSKAYA, Ye.I. [Kovalevs'ka, YE.I.]; KABAN, A.P. [Kaban, O.P.];
KURILENKO, O.D. [Kurylenko, O.D.]

Electron microscope studies of carboxymethylcellulose. Dop.
AN URSR no.11:1490-1493 '65. (MIRA 18:12)

1. Kiyevskiy tekhnologicheskij institut pishchevoy promyshlen-
nosti.

KOVALENKO, S.L.; KURILENKO, O.D.

Electroconductivity of pectin solutions in water. Ukr.khim.zhur.
31 no.5:457-461 '65. (MIRA 18:12)

1. Kiyevskiy tekhnologicheskij institut pishchevoy promyshlennosti.
Submitted Jan. 23, 1964.

MARCHEVSKAYA, Yu.M.; KURILENKO, O.D.

Determination of the contraction and heats of wetting of ion
exchangers. Ukr. khim. zhur. 31 no.10:1074-1078 '65.

(MIRA 19:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR. Submitted
May 18, 1964.

KURILENKO, C.D.; MARCHEVSKAYA, Yu.M.

Kinetics of swelling of ion exchangers in water. Ukr. khim.
zhur. 31 no. 11:1157-1161 '65 (MIRA 19:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

MARCHENSKAYA, Yu.M.; KURILENKO, O.D.; KLOCHKOV, V.P.; SHPIGUN, A.A.

X-ray diffraction examination of ion exchangers. Ukr. khim. zhur.
31 no. 11:1161-1164 '65 (MIRA 19:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

ACC NR: AP7010716

SOURCE CODE: UR/0020/66.171/006/1373/1375

AUTHOR: Nekryach, Ye. F.; Gorokhovatskaya, N. V.; Avramchuk, L. P.;
Kurilenko, O. D.; Dumanskiy, A. V. (Corresponding Member AN SSSR)

ORG: Institute of General and Inorganic Chemistry, Academy of Sciences
Ukrainian SSR (Institut obshchey i neorganicheskoy khimii AN UkrSSR)

TITLE: Nature of exchange ions and the hydration energy of ionites

SOURCE: AN SSSR. Doklady, v. 171, no. 6, 1966, 1373-1375

TOPIC TAGS: ion exchange, heat of hydration, ionite

SUB COR : 07

ABSTRACT: The authors state that while studying the heats of hydration of some hydrophilic polymers, they used ionites as a convenient model object for investigation. When wetting with water dry and moistened samples of K^+ , Na^+ , Ca^{2+} and Fe^{3+} forms of the sulfo-styrene cationite KU-2 with a nominal divinylbenzene content of 4 and 20%, the heats increased in all cases in the order $K^+ < Na^+ < Ca^{2+} < Fe^{3+}$. This gave rise to the thought that there is a certain relationship between the energy of hydration and the charge of the counter ions. To check this supposition, the authors undertook to investigate the heats of wetting with water at 20° sulfo-

Card 1/2

UDC: 536.664 + 541.183.12

0730

2928

ACC NR: AP7010716

styrene cationite samples with the following exchange ions: single-charged Cs⁺, Rb⁺, K⁺, Na⁺, Li⁺; doubly-charged Ba²⁺, Ca²⁺, Mg²⁺; and triply-charged Fe³⁺, Al³⁺. At the same time, water-vapor sorption isotherms were taken for the same samples at 20° on a vacuum sorption apparatus. The authors state that the results justify the assertion that a direct relationship exists between the size of the charge of exchange ions and the hydration energy of ionites as determined from the heats of wetting them with water. Orig. art. has: 1 figure. [JPRS: 40,351]

Card 2/2

KURILENKO, P.P., veterinarnyy vrach.; KIRYUKHIN, R.A., glavnyy veterinarnyy vrach
Chastinskogo rayona, Molotovskoy oblasti.; PRIDAT'KO, I.P., veterinarnyy
fel'dsher.; NEMOLOVSKIY, I.K., veterinarnyy vrach.

Immobilizing swine... Veterinariia 34 no.4:72-74 Ap '57. (MLRA 10:4)

1. Beloglazovskaya rayvetlechebnitsa, Altayskiy kray (for Kurilenko).
2. Kolkhoz imeni Khrushcheva, Selidovskogo rayona, Stalinskoy oblasti
(for Pridat'ko).
3. Kiyevskaya respublikanskaya vetbaklaboratoriya
Ministerstva sel'skogo khozyaystva USSR (for Nemolovskiy)
(Veterinary instruments and apparatus)

BULANKIN, I.N.; PARINA, Ye.V.; KURILENKO, R.P.; MITROFANOVA, V.M.; ZISSER, R.L.;
SHARKOVICH, I.N.

Metabolic changes with age under conditions of excited synthesis
Uch.zap.KHGU 68:5-20 '56. (MIRA 11:11)

1. Kafedra biokhimi Nauchno-issledovatel'-skogo instituta biologii i
biologicheskogo fakul'teta Kar'kovskogo ordena trudovogo krasnogo
znameni Gosudarstvennogo universiteta imeni A.M. Gor'kogo.
(AGE) (METABOLISM)

KURILENKO, S., polkovnik; SHALYAPIN, A., podpolkovnik

Protection from weapons of mass destruction in a defensive position.

Voen. vest. 41 no.7:37-39 J1 '61.

(MIRA 15:1)

(Atomic weapons--Safety measures) (Chemical warfare--Safety measures)

KURILENKO, T. M.

KURILENKO, T. M.- "Problems of Raising Progress in the Work of the Class Director of the Eighth Class." Leningrad State Pedagogical Inst imeni A. I. Gertsen, Leningrad, 1955 (Dissertations for the Degree of Candidate of Pedagogical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

L 6402-66 EWT(m)/EPT(c)/EWP(t)/EWP(z)/EWP(b) LJP(c) JD/HW

ACC NR: AP5025709

SOURCE CODE: UR/0286/65/000/018/0058/0058

INVENTOR: Kurilenko, V. G.; Zholkovskiy, V. V.; Komin, N. Ye.

34
B

TITLE: Magnetically soft, nickel-magnesium-zinc ferrite, Class 21, No. 174733
[Announced by the Plant of the State Committee on Radioelectronics, SSSR (Predpriyatiye gosudarstvennogo komiteta po radioelektronike SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 58

TOPIC TAGS: ferrite, nickel oxide containing ferrite, magnesium oxide containing ferrite, zinc oxide containing ferrite, magnetic soft ferrite, cobalt oxide containing ferrite, copper oxide containing ferrite

ABSTRACT: This Author Certificate introduces a magnetically soft, nickel-magnesium-zinc ferrite containing (mol%) 46-49 iron oxide, 5.5-31.2 nickel oxide, 10-14 magnesium oxide, and 12-22 zinc oxide. To make the ferrite a suitable material for the frequency-controlling core of various generators (i.e., to keep losses at a low level with the increase in magnetic-field intensity in the frequency range of 3-50 Mg), cobalt oxide in the amount of 0.3-3.5 mol% is added. In a variant, 0.5 to 6.0 mol% copper oxide is added to the ferrite as specified in order to increase its initial magnetic permeability.

[ND]

SUB CODE: MM/ SUBM DATE: 01Jul63/ ATD PRESS: 4139

4139

Card 1/1

UDC: 621.318.13

030 1716

I. 08947-67 ELP(m)/EIP(t)/ETI/EWP(k) IJP(c) JD/HM
 ACC NR: AP6031515 SOURCE CODE: UR/0383/66/060/004/0035/0036

AUTHOR: Rudoy, V. S. (Candidate of technical sciences); Chekmarov, I. A. (Candidate of technical sciences); Sukomnik, I. M.; Gepp, S. A.; Serbin, I. V.; Yermolov, I. V.; Chizh, V. A.; Derbasov, V. I.; Kurilenko, V. Kh.; Kirvalidze, N. S.; Pasternak, N. M. 58

ORG: none

TITLE: Improving the plasticity of Kh18N10T tube steel by vacuum-arc melting

SOURCE: Metallurgicheskaya i gornorudnaya promyshlennost', no. 4, 1966, 35-36

TOPIC TAGS: austenitic steel, plasticity, ~~steel plasticity improvement~~, vacuum arc, ~~vacuum arc melting~~, METAL TUBE / KH18N10T STEEL

ABSTRACT: The plasticity of conventionally arc melted and vacuum arc melted Kh18N10T steel was tested by rolling conical specimens in a piercing mill and by torsion tests, both at 1000—1300C. It was found that in piercing, the critical reduction depends primarily upon the α -phase content. Metal with a high α -phase content cannot be easily pierced at a temperature of 1200C or higher regardless of the melting method. The content of impurities and gases is of secondary importance. In torsion tests, plasticity was found to depend mainly upon the metal purity. Inasmuch as vacuum arc melting yields steel of a higher purity, its plasticity is also higher than that of conventionally melted steel. The increase of α -phase con-

UDC: 669.15—194.621.774.35

Card 1/2

L 08947-67

ACC NR: AP6031515

tent up to a certain limit does not substantially affect the plasticity of Kh18N10T steel, but an increase over this limit lowers the steel plasticity. Orig. art. has: 2 figures. [ND]

SUB CODE: //,13 / SUBM DATE: none/ ORIG REF: 002/

CHEKMAREV, A.P., akademik; GRUDEV, A.P., kand. tekhn.nauk; TARAN, Yu.N., kand. tekhn.nauk; ZIL'BERG, Yu.V., inzh.; KURILENKO, V.Kh., inzh.; DERGACH, A.Ya., inzh.; LITINSKIY, D.M., inzh.; NESTEROVA, G.V., inzh. SAMOYLENKO, V.D., inzh.

Reducing metal sticking on the rolls during the hot rolling of stainless tubes. Stal' 23 no.7:631-635 J1 '63. (MIRA 16:9)

1. AN UkrSSR (for Chekmarev).
(Pipe mills) (Steel, Stainless)

L 12144-66 EWT(m)/EWA(d)/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) MJW/JD/HW

ACC NR: AP6000595

SOURCE CODE: UR/0133/65/000/012/1108/1110

AUTHOR: Bernshteyn, M. L.; Dregan, N.; Korobochkin, I. Yu.; Vil'yans, G. S.; Kurilenko, V. Kh.; Koval'chuk, T. M.

ORG:

TITLE: Possibilities and prospects for the combined hot and cold working of drilling-rig pipe

SOURCE: Stal', no. 12, 1965, 1108-1110

TOPIC TAGS: pipe, ^{steel,} heat treatment, cold working, work hardening, carbon steel low alloy steel/ D steel, 36G2S steel

ABSTRACT: It is shown that the high-temperature thermomechanical treatment (combined cold and hot working) of pipe manufactured from D and 36G2S steels (0.44% C, 1.10% Mn, 0.32% Si and 0.38% C, 1.65% Mn, 0.58% Si, respectively), as based on water quenching from 840-850°C immediately after rolling, followed by tempering for 1 hr at temperatures of from 100 to 600°C, markedly increases the mechanical properties of the pipe (following low-temperature tempering, $\sigma_B = 220-240 \text{ kg/mm}^2$ at $\delta = 7-8\%$, and following high-temperature tempering $\sigma_B = 95-115 \text{ kg/mm}^2$ at $\delta = 11-14\%$) This effect is still further enhanced when the treatment is followed by tempering at 500°C for 1 hr, high-speed heating to 850°C for 3 min, water quenching, and final low-temperature temper-

Card 1/2

INDC: 621 774 658 562

L 12144-56

ACC NR: AP6000595

ing, which results in the work-hardening of the metal. Experiments with accelerated compressed-air cooling of the pipe immediately after rolling show that this magnifies even further the effect of preceding work hardening as compared with ordinary normalization, as was found by subjecting pipe rolled from D and 36G2S steels to cooling with high-pressure compressed air immediately after rolling, with subsequent tempering at from 400 to 600°C for 1.5 hr. This opens broad vistas for replacing alloy steels with carbon and low-alloy steels. Orig. art. has:5 tables, 1 figure.

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 000

Card

2/2

TITLE: Increasing the productivity of an automatic installation for rolling
Kh18Ni9Ti tubing 4

21
30
B

TRUSS, no. 12, 1964, 1117-1119

steel, total rolling

Card 1/2

The main factor, affecting the internal surface quality of bearings
for a change of rpm, is the degree of stretching

of the bearing (see also the diagram of the bearing)

Example

Fig. 1

L 20601-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k) JD/HW
ACC NR: AP6010136 SOURCE CODE: UR/0133/66/000/003/0248/0250

4
51
47
13

AUTHOR: Rudoy, V. S. (Candidate of technical sciences); Alferova, N. S. (Doctor of technical sciences); Mlinarich, B. A. (Engineer); Bogdanova, T. M. (Engineer); Sadokov, G. M. (Engineer); Mel'nichenko, I. F. (Engineer); Kirvalidze, N. S. (Engineer); Kurilenko, V. Kh. (Engineer); Onishchenko, M. P. (Engineer)

ORG: none

TITLE: Production of tubes from OKh20N5T stainless steel

SOURCE: Stal', no. 3, 1966, 248-250

TOPIC TAGS: stainless steel, low nickel steel, stainless steel tube, tube rolling, hot rolling / Okh20N5T steel, EP299 steel

ABSTRACT: Technological properties of EP299 (OKh20N5T) stainless steel and the conditions for tube rolling this steel have been studied. The steel, annealed at 1050C for 15 min and air cooled, has a tensile strength of 101 kg/mm², a yield strength of 34 kg/mm², an elongation of 40.6%, and a reduction of area of 62.1%. Corresponding figures for test temperature at 350C are 52 kg/mm², 39.0% and 69.7%. The steel is very sensitive to the cooling rate: slow cooling sharply reduces the elongation and impact strength. The plasticity of EP299 steel does not change in the 1100-1250C range, but increases sharply with further increases in temperature and rapidly increasing content of α -phase. Up to 1250C the plasticity of EP299 steel is much

Card 1/2

UDC: 621.744.35

L 20601-66
ACC NR: AP6010136

lower, but at 1275C and over much higher, than that of Kh18N10T and EI-811 steels. The hot working of EP299 steel must be done at temperatures over 1250C. The steel, however, has a tendency to stick to guide bars. With guide bars made from G18 steel (1.4—1.8% C, 16—19% Mn) and piercing done at 1275—1300C, the tendency to stick was greatly reduced. The mechanical properties and surface quality of hot-rolled and heat-treated EP299 tubes were satisfactory, and the tubes were suitable for cold rolling and cold drawing. Orig. art. has: 2 figures. [AZ]

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 003/ ATD PRESS: 4/225

Card

2/21 BK

ZUREBENKO, V. S.: "Methods of repairing defects in the hard substance of the teeth." Min "health" Ukrainian SSR. Kiev Order of Labor Red Banner Medical Inst. (from Academician A. A. Bogomolets. Kiev, 1956.
(Dissertation for Degree of Candidate in Medical Sciences)."

SO: Knishnava letopis', No 23, 195

KURILENKO, V.S (Kiyev)

Inlays for repairing defects of the hard dental tissues. Probl.
stom. 3:85-90 '56 (MLRA 10:5)
(DENTISTRY)

KURILENKO, V.S.

"Inlays and half crowns in dental therapy and prosthesis" by
M.S.Lipets, Reviewed by V.S.Kurlienko. Stomatologiya 35 no.4:
61 JI-Ag '56. (MLRA 10:4)
(DENTISTRY) (LIPETS, M.S.)

ALEKSANDROVA, Yu.M.; KURILENKO, V.S.

Frequency and character of traumatic injury of the teeth. Vrach.
delo no.5:531-533 My '59. (MIRA 12:12)

1. Kafedra ortopedicheskoy stomatologii (zav. - prof. A.I. Betel'-
man) Kiyevskogo meditsinskogo instituta.
(TEETH--MUTILATION)

KURILENKO, V.S.

Use of dental bridges in pyorrhea alveolaris. Probl. stom. 5:92-95
'60. (MIRA 15:2)

1. Kiyevskiy meditsinskiy institut.
(DENTAL PROSTHESIS) (GUMS_DISEASES)

KURILENKO, V.S. (Kiyev); BROVICHEVA, N.I. (Kiyev); GOR, S.G. (Kiyev)

Use of clampless prostheses. Probl.stan. 6:288-290 '62.
(MIRA 16:3)

(DENTAL PROSTHESIS)

KURILENKO, V.S., hand.med.nauk (Elyev); VASILENKO, V.S., hand.med.nauk (Kiyev)

Compensation of defects of the hard tissues of the tooth by fast-setting plastics. Probl. chel.-lits. khir. no.1:237-239 '65.

(MIRA 18:10)

KURILENKO, Vladimir Vasil'yevich; ELIAS, G.M., redaktor; VALUYEV, M.P.,
redaktor; VORONETSKAYA, L.V., tekhnicheskiy redaktor.

[Determining water flow in foundation pits and calculations of
water lowering devices] Opredelenie pritoka vody k kotlovanam i
raschet vodopozizitel'nykh ustanovok. Moskva, Gos. energ. izd-vo,
1954. 192 p. (MLRA 8:2)
(Water, Underground) (Foundations)

KURILENKO, V.V.

Use of injections and evacuations under complicated hydrogeological conditions. Razved. i okh. nedr 28 no.2:39-41 F '62.

(MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki.
(Water, Underground) (Engineering geology)

KHAVKIN, L.M., inzh.; VAL, D.I., inzh.; KURILENKO, Ye.S.

Placeability of lime-sand mixes under vibration in relation to
their specific surface and the type of lime. Sbor. trud.
ROSHIIMS no.17:141-145 '60. (MIRA 14:12)
(Sand-lime products)

KURILENKO, Yo. V., Cand Agr Sci -- (diss) ^{with} "Problems ^{on} of
intermediate sideral crops in Belorussia." Minsk, 1958. 24 pp
(Acad Agr Sci BSSR, Inst of Agriculture), 100 copies (KL, 15-58, 117)

- 66 -

SHERSTNEV, Ye.A.; KURILENOK, G.V.

Effect of boron on the content of free amino acids and on the incorporation of C^{14} -tyrosine into the proteins of the sunflower. Bot. zhur. 49 no.5:699-702 My '64. (MIRA 17:8)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.

SHERSTNEV, Ye.A.; KURILENOK, G.V.

Effect of boron on the incorporation of adnenine- C^{14} into the
ribonucleic acid of sunflower leaves and roots. Dokl. AN SSSR
142 no.5:1201-1202 F '62. (MIRA 15:2)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR. Predstavleno
akademikom A.I.Oparinym.

(Plants, Effect of boron on)
(Nucleic acid metabolism)

ANTSUPOV, P.V.; VUL', M.A.; RYNSKIY, M.A.; KURILETS, I.I.; LEVASHOV, F.I.

New data on the commercial prospecting of the Strutyn' oil
field. Neft. i gaz. prom. no.1:6-9 Ja-Mr '64. (MIRA 18x2)

ANT'SUPOV, P.V.; RYNSKIY, M.A.; VOL', M.A.; KURILETS, I.I.; LEVASHOV, F.I.

Ol'khovka, a new oil field in the Carpathian oil- and gas-bearing province. Neftegaz.gool. i geofiz. no.2:15-19 '64. (MIRA 17:4)

1. Kalushskaya KRB tresta "L'vovneftegazrazvedka".

RUBINOVICH, Lev Davidovich; KURILEV, Ye.S., spets. red.;
NIKOLAYEVA, N.G., red.

[Preparing a refrigeration unit to be put in operation]
Podgotovka kholodil'noi ustanovki k sdache v eksplu-
atatsiju. Moskva, Izd-vo "Pishchevaia promyshlennost',"
1964. 62 p.
(MIRA 17:6)

DANILEVICH, M.G.; ZHAGULO, Ye.M.; KURILEVA, O.M.

Scarlet fever today and leading problems in its control. *Pediatrics*
39 no.4:3-10 J1-Ag '56. (MLRA 9:12)

1. Iz Leningradskogo pediatricheskogo meditsinskogo instituta (dir. -
prof. N.T.Shutova) i kafedry detskikh infektsionnykh bolezney (zav. -
prof. M.G.Danilevich)
(SCARLET FEVER, prev. and control
in Russia)

MINING, N. S. S., company name; NOVELTY ...

Improving rock handling in ... No. 19/20. (1971-1972)

1. S. S. S. No. 19/20 (re to ...)
2. S. S. S. "Vetka-31.1.1.1" (re to ...)

NUPIIN, B.I.

Calculation of composite oscillatory systems. Izv. vya. shk. ob.
zav., radiotekh. 7 no.2:180-185 Mr. 1961. (MIRA 17:8)

VOLKOV, V.M.; GAZHIYENKO, V.A.; KURILIN, B.I.

Device for checking and self-testing of knowledge in
programmed teaching. Izv. vys. ucheb. zav.; radiotekh. 6
no.4:442-443 JI-Ag '63. (MIRA 16:11)

KOROTKIN, B. I.

Analytical calculation of the resonant frequencies of a line segment.
Radiotekhnika 20 no.5:35-38 My 1950.

(MIRA 18:10)

Y. I. Iyustvital'nyy chlen Nauchno-tekhnicheskogo obshchestva radio-
tekhniki i elektrisvyazi imeni Poylova.

VOLKOV, A.A., inzh.; KURILIN, B.S., inzh.

Chemical cleaning of power equipment. Energetik 11 no.6:15-19
Je '63. (MIRA 16:7)

(Feed-water purification)

KURILIN, I. A.

Tumors

Unusual localization of sclerosing granuloma. Vest. oto-rin. 14 No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1957⁸ Uncl.
52

KOLOMIYCHENKO, A.I., professor; KURILIN, I.A., assistant.

Use of hemostatic sponge in otolaryngology. Vest.oto-rin. 16
no.1:19-22 Ja-F '54. (MLRA 7:3)

1. Iz kafedry bolezney ukha, gorla i nosa (zaveduyushchiy -
professor A.I.Kolomiychenko) Kiyevskogo instituta usovershenstvo-
vaniya vrachey. (Otorhinolaryngology) (Hemorrhage)

MOSTOVOY, S.; KURILIN, I. *И.*

~~Professor Aleksei Isidorovich Kolomiichenko; 30 years of medical,~~
Professor Aleksei Isidorovich Kolomiichenko; 30 years of medical,
scientific, pedagogical and social activity. Vest. oto-rin. 16
no.6:78-79 N-D '54. (MLRA 8:1)

1. Po porucheniyu kollektiva kliniki bolezney ukha, gorla i nosa
Kiyevskogo instituta usovershenstvovaniya vrachey
(KOLOMIICHENKO, ALEKSEI ISISOROVICH, 1898-)

KURILIN, I.A., dots.

Use of a polyamide thread as suture material in otolaryngological surgery. Vest.oto-rin. 20 no.1:93 Jan-F '58. (MIRA 11:3)

1. Iz kliniki bolezney ukha, gorla i nosa (zav.-zasluzhennyy deyatel' nauki USSR prof. Ya.A.Shvartsberg) Kiyevskogo meditsinskogo instituta. (SUTURES)

KURILIN, I.A., dots.

Diagnosis of inflammatory processes and neoplasms of the ear, nose, and throat [with summary in English]. Vest.oto.-rin. 20 no.3:65-70
My-Je '58 (MIRA 11:6)

1. Iz kliniki bolezney ukha, gorla i nosa (zav. - zaslyzhennyy deyatel' nauki USSR prof. Ya.A. Shvartsberg) Kiyovskogo meditsinskogo instituta i kafedry patologicheskoy anatomii (zav. - zaslyzhennyy deyatel' nauki prof. M.K. Dal') Kiyevskogo instituta usovershenstvovaniya vrachey.

(EAR,
inflamm. & neoplasms, value of cytodiag. (Rus))

KURILIN, I.A., dotsent; LISOVSKAYA, A.I., kand. meditsinskikh nauk

Some complications in children following treatment with antibiotics.
Zhur. ush., nos. i gorl. bol. 20 no. 3:72-73 My-Je '60.

(MIRA 14:4)

1. Iz kliniki bolezney ukha, gorla i nosa (zav. - zasluzhennyy
deyatel' nauki prof. Ya.A. Shvartsberg) Kiyevskogo otdena
Trudovogo Krasnogo Znameni meditsinskogo instituta imeni akademika
A.A. Bogomol'tsa.

(ANTIBIOTICS) (MONILIASIS)

KURILIN, I. A.

Doc Med Sci - (diss) "Modern methods of diagnostics of scleroma and its surgical treatment using streptomycin." Kiev, 1961. 19 pp; (L'vov State Medical Inst); 200 copies; price not given; (KL, 5-61 sup, 200)

KURILIN, I.A., dotsent; TSIPENYUK, Ya.Ye., fiziotorapovt; KORYSTENSKAYA, G.P.
kand.med.nauk

Epicutaneous anesthesia using A.P. Parfenov's solution by means
of electrophoresis in tonsillectomy. Vrach. delo no. 3:97-99
Mr '61. (MIRA 14:4)

1. Otdeleniye bolezney ukha, gorla i nosa (zav. - dotsent I.A.
Kurilin) Kiyevskoy gorodskoy detakoy spetsializirovannoy
klinicheskoy bol'nitsy.

(LOCAL ANESTHESIA) (ELECTROPHORESIS)

(TONSILS—SURGERY)

KURILIN, I.A., dotsent

V.A.Karavaev; on the 150th anniversary of his birth. Zhur. ush.
nes. i gorl. bol. 21 no.4:88-89 J1-Ag '61. (MIRA 15:1)
(KARAVAEV, VLADIMIR AFANAS'EVICH, 1811-1892)

KOLOMIYCHENKO, A.I., prof., Laureat Laninskoy premii, zasl. deyatel' nauki, red.; LUKOVSKIY, L.A., prof., red.; ZARITSKIY, L.A., prof., zasl. deyatel' nauki, red.; PITENKO, N.F., prof., red.; GLADKOV, A.A., prof., red.; KURILIN, I.A., prof., red.; MOSTOVOY, S.I., doktor med. nauk, red.; BARLYAK, R.A., prof., red.; SHPARENKO, B.A., dots., red.; ROZENGAUZ, D.Ye., dots., red.; KHARSHAK, B.M., dots., red.; CHERNOVA, I.A., kand.med. nauk, red.

[Current problems of clinical and experimental otolaryngology]
Aktual'nye voprosy kliniko-eksperimental'noi otolaringologii.
Kiev, Zdorov'ia, 1964. 350 p. (MIRA 18:2)

1. Nauchno-issledovatel'skiy institut otalaringologii. 2. Otdel profpatologii Nauchno-issledovatel'skogo instituta otolaringologii (for Pitenko).

KURILIN, N.

Most important technical and economic conditions for the
solution of the basic economic tasks of the U.S.S.R. Uch. zap.
Akad. obshchestv. nauk no. 32:3-33 '58. (MIRA 11:5)
(Russia--Economic policy)

SHAMBERG, V.; KURILIN, N.; KAYYE, V.; POTAPOV, Kh.

Publication of economic literature in 1959. Vop.ekon. no.2:
134-141 F '59. (MIRA 12:5)

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Social Sciences and Economics in 1960. Vop. ekon. no.4:149-152
Ap '60.

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(MIRA 14:3)

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tekhn. red.

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industrial construction] Instruktsiia po razrabotke tipovykh
proektov dlia promyshlennogo stroitel'stva (SN 227-62).
Moskva, Gosstroizdat, 1963. 79 p. (MIRA 16:6)

1. Russia (1923- U.S.S.R.) Gosudarstvennyi komitet po delam
stroitel'stva.
(Construction industry)