

S/123/62/000/006/015/018  
A004/A101

AUTHORS: Gulyayev, G. I., Sitkovskiy, I. S., Khabarov, N. D., Baykova, T. P.,  
Bratenkova, Ye. V.

TITLE: The practice of pressing converted tubes from the steel grades  
EI846 (EI846), EI847 (EI847), EI702 (EI702), X1221 (Kh12F1),  
SN2 (SN2) and OK189T (OKh189T)

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 6, 1962, 25-26,  
abstract 6V119 (V sb. "Proiz-vo trub". no. 4, Khar'kov Metallurg-  
izdat, 1961, 5-8)

TEXT: Tests were carried out to press converted tubes from the difficult  
to pierce steel grades EI847 and Kh12F1 and EI846, EI702 and SN2 which cannot be  
pierced on machines with oblique-positioned rolls. For a comparison, the OKh18N  
9T grade steel was used which is well-introduced in tube production. Pressing  
was carried out on a 600-ton vertical hydraulic press. The blanks in the form  
of turned and drilled sleeves of 83 mm outer diameter and 24 mm wall thickness  
were heated in a horizontal induction furnace with electromechanical pusher up  
to the following temperatures: EI846 - 1,200°C, EI847 - 1,220 - 1,230°C, EI702 -

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The practice of pressing converted tubes ...

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1,150°C, Kh12F1 - 1,160 - 1,170°C, SN 2 - 1,220 - 1,250°C, OKh18N9T - 1,170 - 1,190°C. The heated blanks were wrapped in a 0.27 mm thick glass fabric while the inner surface of the blanks was sprayed with glass powder. The dies, spikes and container bushes were lubricated with a graphite-mineral oil mixture. The pressed tubes of 39.0 - 41.5 x 3.75 - 40 x 1,000 - 1,700 mm size showed a satisfactory quality: The transverse nonuniformity in wall thickness amounted to 0.19 - 0.56 mm, which does not exceed 6.0 - 7.5% of the wall thickness. The pressure gauge readings were recorded, characterizing the pressing stresses which for the different steel grades amounted to 180 - 450 tons. The die service life made of 3X2F8 (3Kh2V8) grade steel was not satisfactory in pressing tubes of the steel grades EI846, EI847, Kh12F1 and EI702. Already after the first pressing, scratches and adhering metal particles showed on the die working surface, while after two subsequent pressings the die had to be cleaned, since considerable lines and scratches would have appeared on the tubes if they had been used furthermore. The life of the spikes from 3Kh2V8 steel was satisfactory. 14 tubes were pressed with one spike. There are 3 figures.

V. Pavlyuchenko

[Abstracter's note: Complete translation]

Card 2/2

L 41313-65 EWT(m)/EWP(t)/EWP(k)/EWP(b) Pf-4 JD S/0286/65/000/004/0016/0016  
ACCESSION NR: AP5007361

AUTHOR: Sitkovskiy, I. S.; Furs, B. A.; Kovalevskiy, N. G.; Arkhangel'skiy, A. M.;  
Zgura, A. A.; Polishchuk, V. P.; Zazimko, V. A.; Medvinskij, M. D.

TITLE: An installation for heating pipes on cold rolling-reeling tube mills. *22*  
Class 7, No. 168242 *16* *B*

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 16

TOPIC TAGS: rolling mill, heater, cold rolling, tube mill

ABSTRACT: This Author's Certificate introduces an installation for heating pipes on cold rolling-reeling tube mills. Two tubular electric resistance furnaces are built into the spindle in the movable working stand of the mill to increase the ductility of the metal at the center of deformation during rolling. The input furnace has a jacket for a liquid or gaseous coolant.

ASSOCIATION: none

SUBMITTED: 04Apr62

ENCL: 01

SUB CODE: IE

Card 1/3 i

SITKOVSKIY, M.B. [Sytkovs'kiy, M.B.], kand.med.nauk

Atresia of the anus and rectum with fistulas into the sexual system in girls. Ped., akush. i gin. 23 no.3:45-47 '61. (MIRA 15:4)

1. Klinika detskoy khirurgii (zav. - prof. A.R.Shurinok [Shurynok, A.R.]) na baze goródskey detskoy spetsializirovannoy bol'nitsy (glavnyy vrach - T.P. Novikova [Novykova, T.P.]).

(ANUS—ABNORMITIES AND DEFORMITIES)  
(FISTULA, ANAL) (GENERATIVE ORGANS, FEMALE)

SITKOV'S'KIY, M.B. [Sytkovs'kyi, M.B.]; RADCHENKO, V.O.

Diagnosis and therapy of acute paraproctitis in children.  
Ped., akush. i gin. 25 no.1:20-21 '63. (MIRA 16:5)

1. Kafedra khirurgii dityachogo viku (zav.-prof. A.R.Shurinok)  
Kiivs'kogo medichnogo institutu (rektor - dotsent V.D.Bratus').  
(PROCTOLOGY) (CHILDREN DISEASES)

511-10-17 AD  
SITKOVSKIY, N.B., kandidat meditsinskikh nauk, (Kiyev)

Case of bilateral osteochondropathy of the tarsal first cunei-  
form bone. Ortop.travn. i protez. no.3:61 My-Je '55.(MLRA 8:10)

(ANKLE, diseases,  
osteochondropathy of cuneiform bone, bilateral)  
(OSTEOCHONDRITIS,  
cuneiform bone of ankle, bilateral)

SITKOVSKIY, N.B., podpolkovnik meditsinskoy sluzhby, kandidat meditsinskikh  
~~nauk~~

Diagnosis of abscesses of the omental bursa. Voen.-med.zhur. no.7:  
85-86 J1 '56. (MLRA 9:11)  
(BURSA OMENTALIS--ABSCESS)

SITKOVSKIY, N.B.

Wounds of the pericardium and heart. Nov.khir.arkh. no.1:70 Ja-F '58  
(MIRA 11:11)

1. Khirurgicheskoye otdeleniye Shevchenskoy rayonnoy bol'nitsy Kiyeva.

(HEART--WOUNDS AND INJURIES)



SITKOVSKIY, N.B., kand.med.nauk

Surgical symptoms masking true myocardial infarct. Vrach.delo  
no.11:1157-1159 N '59 (MIRA 12:1)

1. Khirurgicheskoye otdeleniye (zav. - Ya.T. Polonchuk) Kiyevskoy  
gorodskoy klinicheskoy bol'nitsy Shevchenkovskogo rayona.  
(HEART--INFARCTION)

SITKOVSKIY, N.B., kand.med.nauk (Kiyev)

Abscesses of the bursa omentalis. Vrach.delo no.7:123-125 J1  
'60. (MIRA 13:7)

1. Khirurgicheskoye otdeleniye (zaveduyushchiy - Ya.F. Polon-  
chuk) Gorodskoy klinicheskoy bol'nitsy Shevchenkovskogo rayona.  
(BURSA OMENTALIS--DISEASES)

SITKOVSKIY, N.B., kand.med.nauk

Atresia of the anus and the rectum with fistulas into the urinary system. Vrach. delo no.2:104-107 F '61. (MIFA 14:3)

1. Klinika khirurgii detskogo vozrasta (zav. - prof.A.R.Shurinok)  
Kiyevskogo meditsinskogo instituta na baze Gorodskoy detskoy  
spetsializirovannoy bol'nitsy.

(ANUS...DISEASES)  
(FISTULA)

(RECTUM...DISEASES)  
(URINARY ORGANS...DISEASES)

SITKOVSKIY, N.B.; GROPYANOV, Ye.A.

Two observations of pathology in Meckel's diverticulum in children.  
Nov. khir.arkh. no.4:80 '62. (MIRA 15:5)

1. Stavishchenskaya rayonnaya bol'nitsa Kiyevskoy oblasti.  
(ILEUM--DISEASES)

SITKOVSKIY, N.B., kand.med.nauk (Kiyev, per. Mechnikova, d.4, kv.7); FEL'DMAN,  
Kh.I., kand.med.nauk

Cysts of the mesentery of the small intestine in children. Vest.  
khir. no.8:92-94 '61. (MIRA 15:3)

1. Iz kliniki detskoy khirurgii (zav. - prof. A.R. Shurinok)  
Kiyevskogo meditsinskogo instituta na baze gorodskoy detskoy  
spetsializirovannoy bol'nitsy (gl. vrach - T.P. Novikova).  
(MESENTERY--TUMORS)

GROPYANOV, Ye.A.; SITKOVSKIY, N.B.

Perforation of peptic ulcer in association with hemorrhage.  
Vrach. delo no.8:124-125 Ag '61. (MIRA 15:3)

1. Khirurgicheskoye otdeleniye Stavishchanskoy rayonnoy  
bol'nitsy Kiyevskoy oblasti.

(STOMACH--ULCERS)

(HEMORRHAGE)

SITKOVSKIY, N.B., kand.med.nauk

Two-stage abdominal and perineal plastic surgery in atersia of the  
anus with vaginal fistula in a child. Vest.khir. 87 no.11:117-  
119 N '61. (MIRA 15:11)

1. Iz kliniki detskoy khirurgii (zav. - prof. A.R. Shurinok)  
Kiyevskogo meditsinskogo instituta na baze gorodskoy detskoy  
spetsializirovannoy bol'nitsy (gl. vrach - T.I. Novikova).  
(ANUS—ABNORMITIES AND DEFORMITIES) (FISTULA)

SITKOVSKIY, N. B., kand. med. nauk

Congenital stenosis of the anus and rectum in children. *Pediatria*  
no.4:84-85 '62. (MIRA 15:4)

1. Iz kliniki khirurgii detskogo vozrasta (zav. - prof. A. R. Shurinok) Kiyevskogo meditsinskogo instituta (dir. - dotsent V. D. Bratus') na baze Gorodskoy detskoy spetsializirovannoy bol'nitsy (glavnyy vrach T. P. Novikova)

(RECTUM--ABNORMITIES AND DEFORMITIES)  
(ANUS--ABNORMITIES AND DEFORMITIES)



SKRIPNICHENKO, D.F., prof., red.; SHURINOK, A.R., prof., red.;  
GABAY, A.V., prof., red.; DMITRIYEV, M.L., prof., red.;  
KHRISTICH, A.D., prof., red.; ZAYCHENKO, I.L., prof., red.;  
SITKOVSKIY, N.B., kand. med. nauk, red.; FARKHOMENKO, V.N.,  
red.

[Problems in pediatric surgery; transactions] Problemy khirurgii detskogo vozrasta; trudy. Kiev, Gosmedizdat USSR, 1963. 257 p. (MIRA 17:5)

1. Ukrainskaya nauchno-prakticheskaya konferentsiya khirurgov detskogo vozrasta. 1st.

SITKOVSKIY, N.B., kand.med.nauk

Congenital fistula between the rectum and the vaginal ves-  
tibule in case of a normal anus. Akush. i gin. no.2:137-138'63.  
(MIRA 16:10)

(FISTULA, RECTOVAGINAL)

STIKOVSKIY, M.B. [Sytkovskiy, M.B.], kand.med.nauk;

Congenital fistula between the rectum and vestibule of the  
vagina in case of a normal anus. Ped., akush. i gin. 25  
no.2:55-57'63. (MIRA 16:9)

1. Klinika khirurgii dityachnogo viku (zav. - prof. A.R.  
Shurinok [Shyrynok, A.R.]) na bazi mis'koi spetsializovanoi  
dityachoi likarni (glavniy likar T.P.Novikova [Novykova, T.P.])  
(FISTULA, RECTOVAGINAL)

SITKOVSKIY, N.B., kand. med. nauk (1950), inzh. L. L. Krikova, A, kv.7)

Atresia of the anus and rectum with fistula in the perineal area. Vest. khir. 90 no.5:111-115 1952 (MIRA 17:5)

1. Iz khirurgicheskoy kliniki detskogo vozrasta (zav. - prof. A.R. Shurinok) Kiyevskogo meditsinskogo instituta (rektor - dotsent V.P. Bratus') na baze gosudarstvennoy detskoj spetsializirovannoy bol'nitsy (glavnyy vrach - T.S. Novikova).

PAVLISHIN, V.A. (Korsun'-Shevchenkovskiy, Cherkasskoy oblasti, ul. Shevchenko, d.52); SITKOVSKIY, N.B. (Korsun'-Shevchenkovskiy, Cherkasskoy oblasti, ul. Shevchenko, d.52)

Abdominal syndrome in myocardial infarction. Vest. khir. 92 no.1:  
93-94 Ja '64. (MIRA 17:11)

1. Iz khirurgicheskogo otdeleniya Korsun'Shevchenkovskoy bal'nitsy  
(glavnyy vrach - V.A. Pavlishin) Cherkasskoy oblasti.

SITKOVSKIY, N.I.

D-411 Bulldozer. Stroi. i dor. mashinostr. 2 no.11:26-27 N '57.  
(Bulldozers) (MIRA 11:1)

SITKOVSKIY, P.A.; SHIDAREV, I.M., red.; BALLOD, A.I., tekhn. red.

[Organization and performance of hydraulic engineering operations for land improvement purposes] Organizatsia i proizvodstvo gidromeliorativnykh rabot. Moskva, Gos. izd-vo sel'-khoz. lit-ry, 1950. 279 p. (MIRA 15:4)  
(Hydraulic engineering)

SITKOVSKIY, P.A.

✓ Book—759. Sitkovskii, P. A., edited by, Dictionary for irrigation and drainage engineers [Slovar-spravochnik gidrotekhnika-melloratora], Moscow, Selkhozgiz, 1955, 500 pp. \$5.00.

This technical encyclopedia is intended for engineers and aids in various fields of hydraulic engineering. Over 6000 terms are explained in short articles compiled by 92 authors and 8 editors.  
S. Kolupaila, USA

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SITKOVSKIY, P.A.; KOMAROV, G.V.; BRUSENTSEV, V.F.; KREMENETSKIY, N.N.;  
MAMAYEV, M.G., kand.tekhn.nauk; SMIRNOV, A.V., kand.tekhn.nauk;  
AFANAS'YEV, I.V.; VOLOD'KO, I.F., kand.tekhn.nauk; BEGLYAROV, S.A.;  
KONDRAT'YEV, V.V.; KARLINSKAYA, M.I.; NIKOLAYEV, M.I., kand.tekhn.  
nauk; DOROKHOV, S.M.; PISHCHUROV, P.V.; KLIMENTOVA, A.V.; ROZENBLAT,  
Zh.I.; FANDEYEV, V.V., kand.tekhn.nauk; KULIKOV, P.Ye.; SHIMANOVICH,  
S.V.; DELITSIN, M.V., retsenzent; BRAUDE, I.D., retsenzent; BARYSHEV,  
A.M., retsenzent; GRIGORYANTS, A.S., retsenzent; IGNATIYUK, G.L.,  
retsenzent; KALABUGIN, A.Ya., retsenzent; KREMENETSKIY, N.D.,  
retsenzent; POPOV, K.V., retsenzent; ORLOVA, V.P., red.; LETNEV,  
V.Ya., red.; SOKOLOVA, N.N., tekhn.red.; FEDOTOVA, A.P., tekhn.red.

[Handbook for hydraulic and agricultural engineers] Spravochnik  
gidrotekhnika melioratora. Moskva, Gos.izd-vo sel'khoz.lit-ry.  
1958. 766 p. (MIRA 12:3)  
(Hydraulic engineering) (Agricultural engineering)

11. 11, 7.

The problem of scavenging two-stroke internal-combustion engines of the Koberny system.

P. 117. (MCHANIFA) (Poznan, Poland) No. 1, 1946

SC: Monthly Index of East European Accession (MEEA) IC Vol. 7, No. 5, 1958

S/263/62,000/017/006/011  
1011/1211.

AUTHOR: Sitkowski, Jan

TITLE: The use of a "laminary" flowmeter for the measurement of fuel flow in internal combustion engines

PERIODICAL: Referativnyy zhurnal. Otdel'nyy vypusk, Izmeritel'naya tekhnika, no. 17, 1962, 33, abstract 32.17.218. "Techn. motoryz.", 1961, v. 11, no. 6, 192-192, (in Polish)

TEXT: A flowmeter to be used in laboratory measurements of the flow of a pulsating current of hot mixture has been developed at the Gdan'sk polytechnic institute. Its operating principle is based on the linear dependence (in laminary flow) of the pressure drop in a narrowing structure on the mean flow velocity. A mounting with long narrow ducts serves as the narrowing structure. The ducts axes are parallel to the axis of the tubing. The ducts are made of a brass tape which enables the formation of a cross-section in the form of an isosceles triangle of approximately 1 mm height. The ducts length is 75 mm. The mounting is designed so that at the maximum flow velocity the Re coefficients is not higher than 100. The fuel flow  $Q$  which flows with a velocity of  $V$  m/sec through  $n$  ducts of  $h$  mm height is  $Q = 6h^2nv \times 10^{-5}$  m<sup>3</sup>/min. The relation between the flow velocity and loss in pressure head  $I$  is determined by the formula

$$I = \frac{\Delta p}{l} = C \frac{\zeta \gamma}{gh^2} w.$$

Card 1/2

OSTROWSKI, Jan, dr inż.

Operational properties of a four-stroke carburetor engine fed  
with aqueous fuel emulsions. Przegł. mech. no. 11:910-1016 '68.

1. Department of Combustion Engines, Technical University,  
Gdansk.

PLOCKER, L.; SITKOWSKI, W.

Effect of morphine on radiologic picture and function of the stomach and duodenum. Polski tygod. lek. 8 no.31:1065-1073 3 Aug 1953.

(CJML 25:4)

1. Of the Gastrological Clinic (Head--Prof. L. Plocker, M.D.) of Warsaw Medical Academy and of the Radiological Laboratory (Head--W. Sitkowski, M.D.) of Warsaw Municipal Hospital No.6.

MANTEUFFEL-SZOEGE, Leon; SITKOWSKI, Wacław Jr.

Plastic surgery of the upper part of the stomach with a portion of the large intestine. Polski tygod. lek. 10 no.51:1653-1655 19 Dec 55.

1. Z Oddzialu Chir. Instytutu Gruslicy; ordynator: prof. dr. L. Manteuffel-Szoego. Warszawa, Instytut Gruslicy, ul. Plocak 26.

(INTESTINE, LARGE, transplantation,  
stomach reconstruction (Pol))

(TRANSPANTATION,  
intestine, large, stomach reconstruction (Pol))

SITKOWSKI, W. jun.

Recent theories on treatment of cancer of penis. Postepy  
chir. 3:151-155 1956.

(PENIS, neoplasms  
radiother. & surg. (Pol))  
(RADIOTHERAPY, in various dis.  
cancer of penis (Pol))

POLAND / Human and Animal Morphology, Normal and Pathological. S  
Digestive System.

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35929

Author : ~~Sitkowski, W.~~  
Inst : Not given  
Title : The Mobile Duodenum.

Orig Pub : Polski przegl. radiol., 1956, 20, No. 5, 281-287

Abstract : In 47 studied cases of the mobile duodenum of various kinds, 13 exhibited ulcerated lesions, while 8 revealed diverticula. The combination of the mobile duodenum with its diverticula were not noted up to the present time. --  
E. B. Brunshteyn.

Card 1/1



SITKOWSKI, WACLAW

SITKOWSKI, Wacław.

Duodenal diverticula. Polski tygod. lek. 12 no.27:1032-1037 1 July 57.

1. Z prac. radiologicznej Szpitala Miejskiego nr 6 w Warszawie;  
kierownik W. Sitkowski. Adres: Warszawa; al. Niepodleglosci 88'.  
(DUODENUM, diverticula,  
(Pol))

SITKOWSKI, Wacław (Warszawa, al. Niepodległości 88 m 11)

Ventricular diverticulitis. Polski tygod. lek. 13 no.4:132-134  
27 Jan 58.

1. Z Prac. radiolog. Szpit. Miejskiego Nr 6 w Warszawie; kier. W.  
Stikowski.

(GASTROINTESTINAL SYSTEM, diverticula  
(Pol))

SITKOWSKI, Wacław (Warszawa, Al. Niepodległości 88 m. 11.)

A short common bile duct. Polski tygod. lek. 13 no.6:215-218 10 Feb 58.

1. Z Pracowni Radiologicznej Szpitala Miejskiego nr 6 w Warszawie:  
kierownik: W. Stikowski.

(BILE DUCT, COMMON, abnorm.

brachycholedochus, case reports (Pol.))

SITKOWSKI, Wacław; TURSKI, Czesław; MICHALOWSKI, Jacek

Attempted characterization of anatomical changes in the mitral valve. *Polski tygod.lek.* 15 no.30:1140-1142 25 J1 '60.

1. Z Oddziału Chirurgicznego Instytutu Gruzlicy w Warszawie;  
ordynator: prof. dr med. L.Manteuffel; dyrektor Instytutu  
Gruzlicy: prof. dr med. W.Jaroszewicz  
(MITRAL STENOSIS pathol)

TURSKI, Czeslaw; SITKOWSKI, Wacław, Jr.; MICHALOWSKI, Jacek

Bronchopleural fistula as a complication of pulmonary resection:  
its causes and prevention. Gruzlica 28 no.8:661-664 Ag '60.

1. Z Oddziału Chirurgicznego Instytutu Gruzlicy Kierownik:  
prof. dr med. L. Manteuffel i z Sanatorium Przeciwgruzliczego w  
Rudce Dyrektor: dr med. Z. Ślaskowski  
(BRONCHIAL FISTULA etiol.)  
(PNEUMONECTOMY compl.)

SITKOWSKI, Waclaw; TURSki, Czeslaw; MICHALOWSKI, Jacek

Instrumental commissurotomy in mitral stenosis. Polski przegl.  
chir. 32 no.12:1183-1186 '60.

1. Z Oddzialu Chirurgicznego Instytutu Gruzlidy Ordynator: prof.  
dr L. Manteuffel Dyrektor Inst. Gruzlidy: prof. dr W. Jaroszewicz.

(MITRAL STENOSIS surg)

KOSZAROWSKI, Tadeusz; SITKOWSKI, Wacław

Remote results and effectiveness of surgical therapy in pulmonary cancer. Polski tygod. lek. 16 no.49:1892-1895 4 D '61.

1. Z Oddziału Chirurgicznego Instytutu Gruzlicy w Warszawie;  
kierownik: prof. dr med. L. Manteuffel i z Oddziału Chirurgicznego  
Instytutu Onkologii; kierownik: prof. dr med. T.Koszarowski;  
dyrektor Instytutu Onkologii: prof. dr med. J. Laskowski.  
(LUNG NEOPLASMS surg) (PNEUMONECTOMY)

SITKOWSKI, Wacław

Effect of morphine on the stomach and duodenum according to 1200 studies. Polski przegl. radiol. 25 no.1:71-80 '61.

1. Z pracowni radiologicznej Szpitala Miejskiego w Warszawie Kierownik W. Sitkowski.

(MORPHINE pharmacol) (STOMACH pharmacol)  
(DUODENUM pharmacol)



SITKOWSKI, Wacław

Radiological picture of cancer of the stomach. Polski przegl. chir.  
33 no. 7/9:685-694 '61. (STOMACH NEOPLASMS radiog)

SITKOWSKI, Wacław, Jr.; JUSTYNA, Mieczysław; MICHALOWSKI, Jacek; WASNIEWSKA,  
Maria; WARDA, Barbara; GRUNDMAN, Jerzy; NOWICKI, Jan; MANTEUFFEL-  
SZOEGE, Leon

Experience with heart surgery with the use of extracorporeal circula-  
tion. Polski przegl. chir. 33 no. 7/9:1044-1047 '61.

1. Z Oddziału Chirurgicznego Instytutu Gruźlicy w Warszawie Kierownik:  
prof. dr L. Manteuffel-Szoegel  
(HEART MECHANICAL)

MANTEUFFEL-SZOEGE, Leon; NOWICKI, Jan; MICHALOWSKI, Jacek; GRUNDMAN, Jerzy;  
TURSKI, Czeslaw; PACOCHA, Wieslaw; SITKOWSKI, Wacław; SZAGINSKI,  
Walerian

Observations on hemodynamics in moderate and deep hypothermia.  
Polski przegl. chir. 33 no.11:1273-1283 '61.

1. Z Oddziału Chirurgicznego Instytutu Gruzlicy w Warszawie Kierownik:  
prof. dr L.Manteuffel.  
(BLOOD PRESSURE) (HYPOTHERMIA INDUCED)

SITKOWSKI, Wacław; PLOCKER, Leon; SZYMANOWSKI, Jan

Successful x-ray treatment in ulcerative colitis. Pol. tyg. lek. 17  
no.52:2040-2043 25 D '62.

1. Z Pracowni Radiologicznej Szpitala Miejskiego Nr 6, kierownik: dr  
med. I. Pronaszko, konsultant; W. Sitkowski; z Kliniki Gastrologicznej,  
kierownik: prof. dr med. L. Plocker i z II Kliniki Chirurgicznej  
Studium Doskonalenia Lekarzy: kierownik: prof. dr med. J. Dryjski.  
(COLITIS, ULCERATIVE)

CHWALIBOG, Barbara; POTWOROWSKA, Maria; ARASZKIEWICZ, Wlodzimierz;  
SITKOWSKI, Wacław

Pulmonary resection in the treatment of tuberculosis. Gruzlica  
30 no.3:225-238 '62.

1. Z Oddziału IX Instytutu Gruzlicy Dyrektor: prof. dr med.  
W. Jaroszewicz.  
(PNEUMONECTOMY statist)

TURSKI, Czeslaw; SITKOWSKI, Wacław, Jr.; MICHALOWSKI, Jacek

Longitudinal section of the sternum and vascular cannulation technique  
in open heart surgery. Polski przeegl. chir. 34 no.3:227-233 '62.

1. Z Oddzialu Chirurgicznego Instytutu Gruzlicy Kierownik: prof.  
dr. L. Mantauffel.  
(HEART SURGERY) (STERNUM surg)

POLAND

SIMONOWSKI, Y., FLOKNER, H. and SLYMANOWSKI, J., Radiological Laboratory, City Hospital No 5 (Z Miejskiej Radiologicznej Szpitala Miejskiego Nr 5); The Gastrological Clinic (Z Kliniki Gastrologicznej); The Second Surgical Clinic, Department of Training of Physicians (Z II Kliniki Chirurgicznej Szpitala Dozuchowczanskiego Lekarscy) (Warsaw).

"Successful X-ray Treatment in Ulcerative Colitis. Report of Three Cases."

Warsaw, Poliski tygodnik lekarski, Vol 17, No 52, 24 Dec 62, pp 2040-2049

Abstract: / authors' English summary modified / In the 4 severe cases of ulcerative colitis the irradiation of the abdomen was started after all the therapeutic possibilities had failed. One of the patients (a female, No 2) was after left-side hemicolectomy; however, persistent diarrhea with large amount of blood-stained mucous-purulent excreta was observed. The X-ray treatment was successful in all three cases. A series of 12 irradiations to be performed twice a week (25r measured in air on the whole abdominal cavity at a distance of 50cm, the filter 0.5 in and 1.0 Al, the voltage 150 kV) constituted the suggested treatment. Six weeks after the series is finished 4-6 additional sessions should be performed at weekly intervals. The chest, spleen and in men the testicles were protected. The article contains four photographs and one reference.

1/1

TURSKI, C.; SITKOWSKI, W.; jr.; MICHALOWSKI, J.

Recurrence of mitral stenosis. Kardiol. pol. 6 no.2:77-79 '63.

1. Z Oddziału Chirurgicznego Instytutu Gruźlicy w Warszawie  
Kierownik: prof. dr L. Manteuffel.  
(MITRAL STENOSIS) (HEART SURGERY)



SITKOWSKI, Waclaw, jr.

Results of the treatment of pulmonary tuberculosis in a  
sanatorium in Stanleyville (Congo). Gruzlica 31 no.5:397-403  
'63.

(TUBERCULOSIS, PULMONARY) (STATISTICS)  
(ANTITUBERCULAR AGENTS)

TURSKI, Czeslaw; SITKOWSKI, Wacław, jr.; MICHALOWSKI, Jacek

Air spaces following pneumonectomy. Their causes and preventive methods. Gruzlica 31 no.12:1223-1230 D'63.

1. Z Oddziału Chirurgicznego Instytutu Gruzlicy (kierownik: prof.dr med. L.Manteuffel) i z Sanatorium Przeciwgruzliczego w Rudce (dyrektor: dr med. S.Sładkowski.)

\*

CHODKOWSKA, Stefania; SITKOWSKI, Wacław; PAWLICKA, Lilia

Bronchial cancer and aspergilloma in bronchiectasis. Gruzlica  
31 no.12:1243-1246 D'63.

1. Z Zakładu Patologii (kierownik: prof.dr med. S.Chodkowska)  
i z Kliniki Chirurgii (kierownik: prof.dr med. L.Manteuffel)  
oraz z Zakładu Radiologii (kierownik: prof.dr med. K.Ossowska)  
Instytutu Gruzlicy.

\*

SERAFIN, Roman; TURSKI, Czeslaw; SITKOWSKI, Wacław; CHWALIBOG,  
Barbara; POTWOROWSKA, Maria

Post-resection broncho-pleural fistula. Gruzlica 30 no.8:  
717-723 '62.

1. Z Oddziału Chirurgicznego Instytutu Gruzlicy w Warszawie  
Kierownik: prof. dr med. L. Manteuffel Z Oddziału IX Insty-  
tutu Gruzlicy w Warszawie Kierownik: doc. dr med. J. Madey  
i z Sanatorium Przeciwwgruzliczego w Rudce Dyrektor: dr med.  
Z. Sładkowski.

(PNEUMONECTOMY) (POSTOPERATIVE COMPLICATIONS)  
(BRONCHIAL FISTULA) (PLEURA) (FISTULA)  
(TUBERCULOSIS, PULMONARY)

SITKOWSKI, Wacław

Radiological picture of ulcerative colitis. Pol. przegl. radiol.  
28 no.4:361-368 J1-Ag '64.

1. Z Pracowni Radiologicznej Szpitala Miejskiego 6 w Warszawie  
(Kierownik: dr med. I. Pronaszko, Konsultant: W. Sitkowski) i  
z Kliniki Gastrologicznej (Kierownik: prof. dr. L. Plocker).

SIKOWSKI, Waclaw; DRESZER, Stefan

Spontaneous biliary-intestinal fistulae and pneumatization of  
the bile tract. Pol. tyg. lek. 20 no.25:927-929 21 Je '65.

1. Z Zakladu Radiologii Szpitala Miejskiego Nr. 6 w Warszawie  
(Kierownik: dr. med. I. Pronaszko).

SITKOWSKI, Waclaw

Removal of foreign body from the interventricular septum.  
Pol. przegl. chir. 37 no.3:268-269 Mr '65.

1. S Kliniki Chirurgicznej Instytutu Gruźlicy w Warszawie  
(Kierownik: prof. dr. L. Manteuffel).

SITLIVYY  
~~SYTLIVYYI~~, I.D., inzh.

Movable sugar beet loader and piler. Mskh.stil'.hoap. 10  
no.7:23-24 J1 '59. (MIRA 12:12)  
(Sugar beets) (Loading and unloading)



SITLIVYY I.  
ZBLENCHUK, Ye.; SITLIVYY, I. D.

Means of minor mechanization used in transportation of farm  
produce. Avt.transp. 35 no.9:6-7 S '57. (MIRA 10:10)

1. Ministerstvo avtomobil'nogo transporta i shosseynykh dorog USSR.  
(Farm produce--Transportation)

ZELENCHUK, Ye.V. [Zelenchuk, I.E.V.], inzh.; ~~SITLIVIIY~~, I.D. [Sytlyvyi, I.D.],  
inzh.

Truck for cattle transportation. Mekh. sil'. nos. 9 no.4:25-26  
Ap '58. (MIRA 11:5)  
(Motortrucks) (Cattle--Transportation)

ZELECHUK, Ye.; SITLQVYY, I. D.

Increase the efficiency of motortrucks used for sugar-beet  
transportation. Avt. transp. 36 no.9:16-17 S '58. (MIRA 11:10)

1. Ministerstvo avtomobil'nogo transporta i shosseynykh dorog USSR.  
(Sugar beets--Transportation)

SITLIVYY, I.D. [Sytlyvyi, I.D.], inzh.

Device for loading and unloading sugar beets. Mekh. sil'. hosp. 11  
no.9:18-20 S '60. (MIRA 13:9)  
(Loading and unloading) (Sugar beets - Transportation)

SITLIVYY, I.

Ukrainian automotive transportation unite mechanize the loading and unloading of agricultural products. Avt.transp. 41 no.4:17-19 (MIRA 16:5)  
Ap '63.

1. Zamestitel' nachal'nika Upravleniya garazhno-tekhnicheskoy sluzhby Ministerstva avtomobil'nogo transporta i shosseynykh dorog UkrSSR.

(Ukraine--Farm produce--Transportation)

SITN&I, Oto

Laboratory pyrolysis reactor. Kopa a unite 6 no.2:52-53 F '64.

I. Slovnaft, n.p., Vyskumny ustav pre ropu a uhlovedikove plyny,  
Bratislava.

L 16792-63 EWP(k)/EWP(q)/BDS AFFTC/ASD Pf-4 JD/HW

ACCESSION NR: AP3001781

Z/0047/63/000/006/0438/0442

AUTHOR: Sitniansky, R. (Engineer); Hronec, J. (Engineer)

61  
60

TITLE: New method of forming metals 4

SOURCE: Technicka praca, <sup>15</sup>no. 6, 1963, 438-442

TOPIC TAGS: new rotary forming machine , Holub rotary hot-forming automatic, Holub

ABSTRACT: The highest production of formed metal parts can be obtained by the "Holub" hot transverse rolling method described in figures 1, 2, and 3 of Enclosure 1. This new method, covered by Czechoslovak Patent No 100161 requires much less machining of finished parts and is highly suitable for automation. The forming surfaces are wedge-shaped and the workpiece has a diameter equivalent to the maximum diameter of the finished part. Various cross-sectional and transverse shapes can be obtained. The angle of forming can range from 5 and 30 degrees. To avoid flaws in the workpiece, the operating temperature, and speed and roller diameters have to be controlled. Parts up to 30 mm in diameter are produced with a tolerance of plus-or-minus 0.1 mm; those up to 50 mm.

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L 16792-63

ACCESSION NR: AP3001781

with a tolerance of plu-or-minus 1 mm. The use of the Holub automatic cuts materials input by 33 percent.

The following tables show savings resulting from the use of the Holub hot-rolling forming automatics:

(1) Old Methodology

Machine tools	23 hp
Production space	330 sq meters
Production workers	18 per shift
Auxiliary workers	4 per shift
Manufacturing time per single piece	6.94 minutes

(2) New Methodology

Metalworking machine	6 hp
Production space	75 sq meters
Production workers	4 per shift
Manufacturing time per single piece	1.29 minutes

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L 16792-63

ACCESSION NR: AP3001781

Holub automatics come in three versions: No 1 for diameters from 5 to 20 mm,  
No 2 for diameter of 20 to 50 mm, and No 3 for diameters from 50 to 100 mm.  
The original article has nine figures.

ASSOCIATION: N.P. Tatra (National Enterprise Tatra), Bratislava

SUBMITTED: 00

DATE ACQ: 17Jun63

ENCL: 02

SUB CODE: MD, ML

NO REF SOV: 000

OTHER: 000

Card 3/7

SITNICHENKO, A.I.

U S S R .

Deoxidation of Steel with Magnesium Alloy. N. N. In'zhakov, A. I. Sitnichenko, and A. I. Rozhnov. (*Itchenoe Proizvodstvo, 1954, 151, 28-30.*) [In Russian]. Heats of steels (0.22-0.33% C, 0.51-0.78% Mn, 0.29-0.43% Si, 0.028-0.058% P, and 0.044-0.053% S) produced in an acid electric furnace were treated with a copper-magnesium alloy (11.5% Mg) after deoxidation with silicon, manganese, and aluminium. One part of the alloy was added to every 100 parts of steel, and, after the end of the violent reaction, specimens were cast and subjected to static and impact tests at room temperature and at 0° C., -20° C., and -40° C. Results compared with those obtained for steels not heated with the alloy showed increases in static strength, and very pronounced decreases in cold brittleness. Decreases in the sulphur were also attributed to the action of the alloy.—S. K.

SOBOLEV, A.V., inzhener; ~~STPNIKHENKO, A.I., inzhener.~~

Increasing the heat resistance of mold boxes and carburizing boxes.  
Strel. i der.mashinestr. no.7:29-30 J1 '56. (MIRA 9:10)  
(Founding) (Cementation (Metallurgy))

SITNICHENKO, A I

7

PHASE I BOOK EXPLOITATION

801/5976

Shklennik, Ya. I., A. V. Baranov, V. M. Ivanov, S. A. Kazanov, B. S. Kurchan,  
N. N. Lyashchenko, R. A. Marulidi, G. K. Militain, V. A. Ozerov, A. I.  
Sitnichenko, M. Ya. Tolis, and M. L. Khonkin

Lit'ye po vyplavlyayemykh modelyam (Investment Casting) [Leningrad] Mashgiz  
[1961] 455 p. (Series: Inzhenernyye monografii po lit'ynomu proizvodstvu)  
Errata slip inserted. 8000 copies printed.

Eds. (Title page): Ya. I. Shklennik and V. A. Ozerova; Reviewers: N. D. Titov,  
Candidate of Technical Sciences, and A. I. Klausen, Engineer; Ed.: Yu. L. Markis,  
Engineer; Tech. Eds.: A. Ya. Tikhonov, Z. I. Chornova and V. D. El'kind; Man-  
aging Ed. for Literature on Hot-Working of Metals: S. Ya. Golovin, Engineer.

PURPOSE: This book is intended for engineering and technical personnel in the  
metalworking industry and for scientific research workers. It may also be used  
by students specializing in foundry work.

COVERAGE: The book reviews the most important problems in investment casting.  
Among the topics considered are the following: mechanical properties of castings;

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Investment Casting

SOV/5976

the manufacture of castings; precision surface quality; materials and methods of making patterns and molds; the melting of metals and alloys; pouring, cleaning, heat treatment, and inspection of castings; economic aspects in the production of castings; organization of production; and modern concepts relating to processes taking place in the manufacture of investment castings. No personalities are mentioned. There are 180 references, mostly Soviet.

TABLE OF CONTENTS:

Introduction	5
Ch. I. Designing Cast Parts	12
Properties of castings	13
Dimensional precision	13
Surface quality	16
Mechanical properties of cast metal	19
Design elements of castings	21

Card 2/25

RASKATOV, V.M., inzh.; KOKHTEV, A.A.; LELYANOV, V.A.; BESSONOVA,  
N.F.; VEIS, D.A.; KARABANOVA, L.T.; SILANT'YEV, M.G.;  
SITNICHENKO, A.I. [deceased]; CHYENKOV, V.S.; YARKOV, A.M.,  
inzh., retsenzent; GARANKINA, S.P., red.izd-va; TIKHANOV,  
A.Ya., tekhn. red.

[Brief handbook on materials used in the machinery industry]  
Kratkii spravochnik po mashinostroitel'nyim materialam. Pod  
obshchey red. V.M.Raskatova. Moskva, Moskgiz, 1963. 440 p.  
(MIRA 16:7)

(Materials)

SITNICHENKO, I.F., gornyy inzhener.

Experience in lengthening the life of wire nettings on GUP-1  
vibrating screens. Ugol' 31 no.2:36-37 P '55. (MLRA 9:5)

1. Tsentral'naya obogatitel'naya fabrika "Nesvetay" kombinata  
Rostovugol'.  
(Coal preparation--Equipment and supplies)

SITNICHENKO, I.P., gornyy inzhener.

~~SECRET~~  
Mechanizing the leveling of coal loaded in open railroad cars. (MLRA 9:8)  
Ugol' 31 no.5:32 My '56.

1. Tsentral'naya obogatitel'naya fabrika "Nesvetay" kombinata  
Rostovugol'.  
(Coal-handling machinery)



SITNICHENKO, M. G. and SERTSENOVA, K. N.

"Some Problems in Processing Pictures of Mountainous Regions on Stereometers".  
Sb. statey po geodezii. No. 7, pp 3-15, 1954.

Applicability of topographic stereometers was established in processing photographs of mountainous regions. The required accuracy of element orientation may be attained. (RZhAstr, No. 1, 1956)

SO: Sum No 884, 9 Apr 1956

BURMISTROVA, Z.V.; SITNICHENKO, M.G.

Stereotopographic surveying on scales 1:10,000 and 1:25,000 with  
dilated leveling net. Geod. I kart. no.11:23-32 N '63. (MIRA 17:1)

SITNICKI, H.

How to facilitate the receipt of lumber. p. 362.

PRZEMYSŁ DRZEWNY. (Centralne Zarządy Przemysł: Drzewnego, Meblarskiego, i Lesnego i Stowarzyszenie Inżynierów i Techników Lesnictwa i Drzewnictwa) Warszawa, Poland. No. 5, May 1959.

Monthly List of East European accession (EEAI), LC. Vol. 8, No. 9, September, 1959. Uncl.

KOWARZYKOW, Hugon; KOWARZYKOWA, Zofia; KUBISZ, Tadeusz; SITNIEWSKI, Stefan;  
GIERON-ZASADZIENIOWA, Malgorzata; LIPOWSKA, Ligia

Reconstruction of the axonocardiogram in Einthoven's triangle.  
Polski tygod. lek. 16 no.26:981-984 26 Je '61.

1. Katedra Patologii Ogolnej i Doswiadczalnej A.M. i Osrodek Kardiolo-  
giczny przy P.S.K. Nr 1 we Wroclawiu.

(VECTORCARDIOGRAPHY)

KOWARZYKOW, Hugon; KOWARZYKOWA, Zofia; KUBISZ, Tadeusz; SITNIEWSKI, Stefan;  
GIERON-ZASADZIENIOWA, Malgorzata

Reconstruction of unipolar limb axonocardiograms and electrocardiograms. Polski tygod. lek. 16 no.32:1221-1224 7 Ag '61.

1. Katedra Patologii Ogolnej i Doswiadczalnej A.M. i Osrodek Kardiologiczny przy P.S.K. nr 1 w Wroclawiu.

(ELECTROCARDIOGRAPHY) (VECTORCARDIOGRAPHY)

SITNIK

see SYTNIK

SYTHIK, A.A., Sand Tech Sci--(diss) " Study of the process of  
carbonation of <sup>a</sup>sodium solution in the manufacture of puri-  
fied bicarbonate." Mos, 1958. 8 pp (Min of Higher Education  
USSR. Pos Order of Lenin <sup>3</sup>Chem.-Technological Inst in D.I. Men-  
delayev), 120 copies (M, 25-58, 115)

-118-

AUTHORS: Sytnik, A. A., Shokin, I. N., Krasheninnikov, S. A.  
153-58-1-16/29

TITLE: Investigation of the Process of Carbonization of the Soda Solution in the Production of Purified Bicarbonate (Issledovaniye protsessa karbonizatsii sodovogo rastvora v proizvodstve ochishchennogo bikarbonata). Communication 1: Kinetics of Crystallization of Sodium-Bicarbonate in the Course of the Carbonization of Soda Solution (Soobshcheniye 1. Kinetika kristallizatsii bikarbonata natriya v protsesse karbonizatsii sodovogo rastvora)

PERIODICAL: Izvestiy vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 1, pp. 100-107 (USSR)

ABSTRACT: The crystallization of the salts from solutions can only begin and take place in the case of supersaturation of the latter with respect to the respective salt. The extent of initial supersaturation does not only cause the beginning of the crystallization-process, but it also determines its further course. With high values of supersaturation, but low degrees of agitation of the solution, the born crystal begins to grow so rapidly that a zone of concentration which

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Investigation of the Process of Carbonization of the Soda Solution in the Production of Purified Bicarbonate. 153.-58-1-16/29  
Communication 1: Kinetics of Crystallization of Sodium-Bicarbonate in the Course of the Carbonization of Soda Solution

is lower than in the main mass of the liquid, is formed almost instantly around it. Under these conditions, the further growth of each crystal is determined by the diffusion-ratio of the dissolved substance toward the crystalline surface. It is assumed (references 1,2) that the process of crystallization is in this case within the range of diffusion and that its velocity is proportional to the 1st degree of saturation. With intense agitating of the solution the diffusion-ratio becomes so high that actually no weakening of the solution on the crystalline surface takes place. The velocity of crystallization is determined in this case by the slowest process taking place on the crystalline surface and depends on the degree of supersaturation which exceeds 1. This range is called the kinetic one (ref. 2). A survey on the works of the kinetics of crystallization is given (references 2 to 5,7). Works of this kind on the velocity of crystallization of sodium-bicarbonate from soda solutions are lacking, however, 2 processes take place simultaneously in the crystallizing

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Investigation of the Process of Carbonization of the Soda 153.58-1-16/29  
Solution in the Production of Purified Bicarbonate.  
Communication 1: Kinetics of Crystallization of Sodium-Bicarbonate  
in the Course of the Carbonization of Soda Solution

column with the industrial production of purified bicarbonate:  
a) Absorption of  $\text{CO}_2$  and b) Crystallization of sodium  
bicarbonate. The process b) must obviously influence the  
kinetics of carbonization in a certain way and viceversa.  
In the first communication the influence of supersaturation,  
of the temperature and of the agitation on the velocity  
of crystallization of sodium bicarbonate from the soda  
solution in the process of carbonization is investigated.  
A device developed for this purpose is given in figure 1.  
The test-method is described. Figure 2 shows the dependence  
of the precipitated quantity of bicarbonate on the period  
of carbonization of the solution and that for 2 numbers of  
revolutions of the stirrer (340 and 2000 revolutions per  
minute) at  $20^\circ$ . It was proved that the velocity of  
crystallization of sodium bicarbonate in the range of  
diffusion, depends on the supersaturation of 1st degree,  
whereas it is proportional to the 2nd degree of super-  
saturation within the kinetic range. A different dependence

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Investigation of the Process of Carbonization of the Soda 153.-58-1-16/29  
Solution in the Production of Purified Bicarbonate.  
Communication 1: Kinetics of Crystallization of Sodium-Bicarbonate  
in the Course of the Carbonization of Soda Solution

of the velocity of crystallization on the temperature within the range of diffusion and kinetics was proved. Within the first range, this velocity decreases according to the increase in temperature with a given supersaturation, whereas it increases in the latter range. A method of calculation of the velocity of crystallization for the two ranges of the process of crystallization was proposed. There are 10 figures and 7 references, 7 of which are Soviet.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut imeni D. I. Mendeleeva. Kafedra tekhnologii svyazannogo azota i shchelochey (Moscow Chemical Technological Institute imeni D. I. Mendeleev, Chair for the Technology of Bound Nitrogen and Alkalies)

SUBMITTED: September 9, 1957

Card 4/4

SOV/155-58-2-16:30

5(2)

AUTHORS:

Mytnik, A. A., Shokin, I. M., Krasneninnikov, S. A.

TITLE:

Investigation of the Carbonation Process of the Soda Solution in the Manufacture of Purified Bicarbonate (Issledovaniye protsessa karbonizatsii sodovogo rastvora v proizvodstve ochishchennogo bikarbonata) Communication II. Absorption Kinetics of the Carbonic Acid by Soda Solutions (Soobshcheniye II. Kinetika absorbttsii uglekisloty sodovymi rastvorami)

PERIODICAL:

izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 2, pp 90-95 (USSR)

ABSTRACT:

Although the problem mentioned in the subtitle has already been treated in numerous papers (Refs 1-6), the results of these investigations are so contradictory that no uniform conception can be achieved regarding these kinetics. In the present paper, the action of the concentration of the sodium bicarbonate solution and its degree of carbonation on the absorption rate of carbonic acid under various hydrodynamical conditions were studied. An absorption-equipment of the film-type was used for this purpose, the construction and mode of function of which are described. First of all, it was to be in-

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Investigation of the Carbonation Process of the Soda Solution in the Manufacture of Purified Bicarbonate. Communication II. Absorption Kinetics of the Carbonic Acid by Soda Solutions

investigated whether the equation of the absorption rate:

$$N_a = \beta \cdot K \cdot \Delta P \quad (1),$$

complicated by the chemical reaction, applies for this case ( $N_a$  being the rate of absorption,  $\beta$  - the chemical parameter which shows by which amount the rate varies in the presence of a chemically active component in the solution;  $K$  - coefficient of the absorption rate,  $\Delta P$  - the motive force of the process which is  $P_{CO_2} - P'_{CO_2}$ ,  $P_{CO_2}$  - the partial pressure of  $CO_2$  in the carbonating gas,  $P'_{CO_2}$  for carbonation degrees 100-150% practically equal to zero. The results for 2 different wetting

densities: 0.5 and 1.4 m<sup>3</sup>/m hour, gas velocity 0.54 m/sec, temperature 20° and carbonation degree 106% (Fig 1) have demonstrated that equation (1) applies for the system given. Figures 2 and 3 illustrate the dependence of the  $CO_2$ -absorp-

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SOV/153-58-2-16/30

Investigation of the Carbonation Process of the Soda Solution in the Manufacture of Purified Bicarbonate. Communication II. Absorption Kinetics of the Carbonic Acid by Soda Solutions

tion rate on the concentration of the solution. It can be seen from this that the velocity mentioned exceeds a maximum at a change of concentration of the solution. The authors explain this by an increase of the degree of hydrolysis of the sodium carbonate with the dilution of the solution. If, however, the soda concentration becomes insignificant because of further dilution, the rate of absorption drops and comes close to that of water. In order to investigate this, the pH was measured (Fig 4). According to the results the pH-curve during the dilution is a reproduction of the course of the curves of the absorption rate. Thus, this rate depends on the  $\text{OH}^-$  ion concentration. This was expressed by equation (2). The influence exercised by the carbonation degree of the solution upon the absorption rate was studied by means of an installation previously described (Ref 9). Furthermore the authors apply the term "Degree of transition" instead of "Degree of carbonation" of the solution. Figures 5 and 6 show the dependence of the  $\text{CO}_2$ -absorption rate on the degree of transition for different

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SOV/153-58-2-16/30

Investigation of the Carbonation Process of the Soda Solution in the Manufacture of Purified Bicarbonate. Communication II. Absorption Kinetics of the Carbonic Acid by Soda Solutions

concentrations of the solution and at a low and high degree of turbulence. According to a mathematical treatment of the results it was evaluated that the  $\text{CO}_2$ -absorption rate is proportional to  $C^{-0,4}$  and  $X^{-0,25}$ ,  $C$  being the concentration of the solution and  $X$  the degree of transition. The results of the calculations are seen in figure 7. The dispersion of the points does not exceed 5-7%. That means that for a given number of revolutions of the mixer the absorption rate coefficient is kept constant for all degrees of transition and for all concentrations of the solution. It means further that with increasing number of revolutions of the mixer the coefficient ... increases as well. It was found that within the range of the concentrations investigated the product  $C^{-0,4} \cdot X^{-0,25}$  may be substituted for the chemical parameter in the equation  $N_a = K \cdot \Delta P$ . The difference  $(P_{\text{CO}_2} - P'_{\text{CO}_2})$  is the motive force

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of the  $\text{CO}_2$ -absorption by soda solutions. The student R. O.

SOV/153-58-2-16/30

Investigation of the Carbonation Process of the Soda Solution in the Manufacture of Purified Bicarbonate. Communication II. Absorption Kinetics of the Carbonic Acid by Soda Solutions

Koroleva took part in this study. There are 7 figures and 10 references, 8 of which are Soviet.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskii institut imeni D. I. Mendeleeva (Moscow Institute of Chemical Technology imeni D. I. Mendeleev)  
Kafedra tekhnologii svyazannogo azota i shchelochey (Chair of Technology of Bound Nitrogen and Alkalies)

SUBMITTED: September 9, 1957

Card 5/5



SYTNIK, A.A.; SHOKIN, I.N.; KRASHENINNIKOV, S.A.

Investigating the process of carbonization of soda solution in the manufacture of refined bicarbonate. Part 3: Investigating the equilibrium and nonequilibrium states of the liquid phase. Izv.vys.ucheb.zav; khim. i khim.tekh. 4 no.5:801-804 (1961).

(MIRA 14:11)

1. Moskovskiy khimiko-tekhnologicheskii institut imeni Mendeleeva, kafedra tekhnologii neorganicheskikh veshchestv.  
(Sodium carbonate)

EXCERPTA MEDICA Sec 0 Vol 13/10 Surgery Oct. 59

5665. PREOPERATIVE STERILIZATION OF THE INTESTINE WITH COLI-MYCIN (Russian text) - Sitnik A. P. - KHIRURGIYA 1958, 11 (61-65)  
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