PETRICHENKO, Aleksey Maksimovich, dotsent, kandidat tekhnicheskikh nauk; LEVCHENKO, P.K., inzhener, retsenzent; SOROKA, M.S., redaktor; RUDENSKIY, Ya.V., tekhnicheskiy redaktor

[Thin-walled chill castings] Tonkostennye kokil'nye otlivki. Kiev, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1957. 159 p. (MIRA 10:8)
(Die casting)

DOBRYNINA, L.D.; PETRICHENKO, A.M.; TUNIK, A.A.

Investigating certain properties of high-strength cast iron with spheroidal graphite. Izv. vys. ucheb. zav.; chern. met. 8 no.10:129-132 '65. (MIRA 18:9)

1. Khar'kovskiy avtomobil'no-dorozhnyy institut.

PETRICHENKO, A.M.; SOLNTSEV, L.A.; BURAKOV, L.M.; TOROPOV, A.I.

Investigating distributing shafts made of magnesium cast iron. Lit. proizv. no.6:22-23 Je '62. (MIRA 15:6)
(Cast iron—Testing) (Shafting—Testing)

PETRICHENKO, A.M.

Semipermanent foundry molds for thin-walled castings. Lit. proizv. no.9:45-46 S '61. (MIRA 14:9)

(Molding (Founding))

PHASE I BOOK EXPLOITATION SOV/5579

Petrichenko, Aleksey Maksimovich, and Yelena Alekseyevna Sukhodol'skaya

Sovremennoye liteynoye proizvodstvo Kitaya (Modern Founding in China) Moscow, Mashgiz, 1960. 198 p. 1,200 copies printed.

Reviewer: S. N. Mylko, Candidate of Technical Sciences, Docent; Ed.: M. S. Soroka; Chief Ed. (Southern Dept. Mashgiz): V. K. Serdyuk, Engineer.

PURPOSE: This book is intended for technical personnel and outstanding foundry workers.

COVERAGE: A concise review is given of the beginnings of founding in China, its present state, and characteristic features. Particular attention is devoted to a study of new foundries and to a consideration of ancient manufacturing processes which are still in use today. Peculiar casting techniques and the original equipment of some foundries in the People's Republic of China are examined. Also discussed are the organization of shops, the training of foundry personnel, and the publication of literature on founding and the

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results of research work. The authors thank Docent B. A. Moskov, Head of the Department of Foundry Manufacture of KhPI, and Docent S. N. Mylko, Chief Specialist of GNTK of the UkrSSR, for their comments. There are 28 references, all Soviet.

TABLE OF CONTENTS:

PETRICHENKO, Aleksey Maksimovich; SUKHODOL'SKAYA, Yelena Alekseyevna; MYLKO, S.N., dotsent, kand.tekhn.nauk, retsenzent; SOROKA, M.S., red.;

[Foundry practice in modern China] Sovremennoe liteinoe proizvodstvo Kitaia. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1960. 198 p. (MIRA 14:1)

1. Glavnyy spetsialist Gosudarstvennogo nauchno-tekhnicheskogo komiteta USSR (for Mylko).
(China--Founding)

PETRICHENKO, A.M., dots., kand.tekhn.nauk

An iron casting in ancient China. Izv.vys.ucheb.zav.; chern.met. no.11: 41-44 N '58. (MIRA 12:1)

1. Khar'kovskiy avtomobil'no-dorozhnyy institut. Rekomendovano kafedroy tekhnologii metallov.

(China--Iron founding)

PETRICHENKO, A.M., kand.tekhn.nauk; SUKHODOL'SKAYA, Ye.A., kand.tekhn.nauk

Peculiarities of cast iron metallurgy in China. Metallurg 4 no.1:37-39 Ja '59. (MIRA 12:1)
(China--Cast iron--Metallurgy)

SOV/130-59-1-18/21

AUTHORS: ~~Petrichenko A.M. and~~ Sukhodol'skaya Ye.A., Candidates of Technical Sciences

TITLE: Peculiarities of Chinese Pig-Iron Production Practice (Ob osobennostyakh kitayskoy metallurgii chuguna)

PERIODICAL: Metallurg, 1959, Nr 1, pp 37-39 (USSR)

ABSTRACT: The authors give some of the results obtained on modern blast-furnaces in China (eg values of the coefficient of utilization of useful volume as low as 0.493 and 0.488 on some occasions) which produce most of the pig iron and then go on to describe some ancient processes which are now also being used. These include the production of blooms in crucibles (Figs 1 and 3) in a furnace (Fig 2) followed by their carburization and melting in a special furnace (Fig 7). An analysis of this type of iron gave 3.8% C, 0.69% Si, 0.04% Mn, 0.19% P and 0.23% S. Another way of melting the blooms are small (3-4m^3) blast furnaces: these can operate with a coefficient value of 0.6 - 0.65 and can give a usable cast iron (4.0% C, 0.77% Si, 0.13% Mn, 0.20% P and 0.01% S).

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SOV/130-59-1-18/21

Peculiarities of Chinese Pig-Iron Production Practice

Dwarf blast-furnaces (10-250 m^3) are widely used for the smelting of scattered ore deposits and their hearths and shifts last for 1 - 1.5 and 10 years respectively. The authors give information on the scale of small-furnace construction and the planning and financing of this work.

There are 8 figures.

Card 2/2

PETRICHENKO, A. M.

"On the Experience of the Chinese Democratic Republic with Semipermanent Molds for Thin-Wall Castings."

report presented at Scientific-Technical Session on Progressive Technology of Casting Molds, organized by the NTOMAShPROM of the Kharkov Oblast', in Khar'kov, 14-16 Nov 1957.

Liteynoye Proizvodstvo, 1958, No. 4, pp. 28-30

Khar'kov Avia-Road Inst.

PETRICHENKO, A.M.; SUKHODOL'SKAYA, Ye.A.

Molding materials in the Chinese People's Republic. Lit. proizv. no.1:25-27 Ja '58. (MIRA 11:2)

(China--Sand, Foundry)

PETRICHENKO, A.M.

Chill molding in China. Lit. proizv. no.2:30-32 F '58. (MIRA 11:3)
(China founding)

PETRICHENKO, A M

Call Nr: TS 233.P49

AUTHOR: Petrichenko, Aleksey Maksimovich, Docent, Candidate of Technical Sciences

TITLE: Thin-Walled Permanent-Mold Castings (Tonkostennyye kokil'-nyye otlivki)

PUB. DATA: Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo mashinostroitel'noy literatury, Kiyev - Moscow, 1957, 159 pp., 5,000 copies

ORIG. AGENCY: None

EDITOR: Soroka, M.S.; Chief Editor of the Ukrainian Branch of MASHGIZ,:Zalogin, N.S.; Reviewer; Levchenko, P.K.; Technical Editor: Rudenskiy, Ya.V.

PURPOSE: This book was written for the engineering and technical personnel of foundries and foundry planning organizations. It can serve also as a textbook for advanced courses in foundry practice.

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Call Nr: TS 233.P49

Thin-Walled Permanent-Mold Castings (Cont.)

COVERAGE: The author describes the technical aspects of the processes by which thin-walled iron parts are cast in permanent molds. He discusses the positive and negative features of various types of permanent molds employed in the manufacture of thin-walled cast parts, recommending certain types of molds, mechanical devices and equipment, and indicating by what means the number of rejects can be reduced. This book represents a Soviet contribution. There are 45 references, 44 of which are Russian, 1 English.

TABLE OF CONTENTS:

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Call Nr: TS 233.P49

Thin-Walled Permanent-Mold Castings (Cont.)

II. Special Features of the Process of the Metal-mold Casting of Thin-walled Parts

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Thin-Walled Permanent-Mold Castings (Cont.)

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Thin-Walled Permanent-Mold Castings (Cont.)

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Thin-Walled Permanent-Mold Castings (Cont.)

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Thin-Walled Permanent-Mold Castings (Cont.)

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Call Nr: TS 233.P49

Thin-Walled Permanent-Mold Castings (Cont.)

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Thin-Walled Permanent-Mold Castings (Cont.)

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Thin-Walled Permanent-Mold Castings (Cont.)

Card 10/12

Call Nr: TS 233.P49

Thin-Walled Permanent-Mold Castings (Cont.)

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Thin-Walled Permanent-Mold Castings (Cont.) Call Nr: TS 233.P49

AVAILABLE: Library of Congress

Card 12/12

PETRICHENKO, N.I.

3 4E2C

18 18

Graphitization of cast iron. A. M. Petrishchev. Trudy Khersk. Avtomobil. Dorozh. Inst. 1955, No. 18, 129-34; Referat. Zhur., Met. 1956, No. [illegible]. A critical analysis of the theories of the formation of spheroidal graphite in cast iron modified by Mg is presented. The formation is decid. by the [illegible] alloy alloides of Mg [illegible] carbides and facilitates graphitization in the solid state. Carbides are formed according to 2SiC + Mg = MgC$_2$ + 2Si and 2C + Mg = MgC$_2$. For Mg to form spheroidal graphite, it must [illegible] sulfurization and [illegible] formation of Mg [illegible]

PETRICHENKO, A.M.

Theoretical basis for determining the optimum thickness of chill walls. Izv. vys. ucheb. zav.; chern. met. 7 no.8:161-166 '64. (MIRA 17:9)

1. Khar'kovskiy avtomobil'no-dorozhnyy institut.

S/133/62/000/005/004/008
A054/A127

AUTHORS: Itskovich, G.M., Engineer, Zubarev, A.G., Engineer, Gankin, V.B., Engineer, Petrichenko, D.P., Engineer, and Genkin, V.Ya., Engineer

TITLE: The smelting of rimming steel in 80-ton electric furnaces with continuous pouring

PERIODICAL: Stal', no. 5, 1962, 420 - 425

TEXT: The industrial-scale electric smelting of rimming steel is carried out in furnaces with a rated capacity of 80 tons and an actual capacity of 90 - - 95 tons, (transformer capacity: 25,000 kW, electrode-diameter: 555 mm, depth of the bath: 1000 mm). Tests have shown that one of the most important conditions of this process is the oxidation of the metal before tapping which determines its uniform rimming in the ingot mold. The oxygen quantity involved in the process depends mainly on the carbon content of the metal and the ferric oxide content of the slag. This, in turn, is conditioned by the quantity of ore added to the charge and the basicity of the slag. For slags with a basicity of 3.0 - 5.0 and at metal temperatures of 1635 - 1645°C, the average value of FeO_{total} was 24.1%; [Abstracter's note: subscript total is the translation of the Russian subscript

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общий - (obshchiy)], at temperatures above 1660°C: 18.2%. To obtain the required oxidation during rimming of the metal three methods were used: a) adding ore, b) with oxygen and ore, c) with oxygen alone. Generally method b) is applied, ensuring quick heating of the bath, a higher oxidation rate of carbon (0.25 - 1.0% C per hour) and a ferric oxide content of the slag of 20.3%. The optimum metal temperature at the beginning of oxygen blowing was found by tests to be 1,570 - 1,580°C. The optimum degree of metal oxidation ensuring a uniform rimming in the mold, can be obtained when the slag contains 15 - 23% FeO_{total} before reduction. Oxidation and rimming can be promoted by adding 50 - 200 g/ton aluminum in the ladle, depending on the carbon content and oxidation of the slag. Desulfuration of the metal takes place most intensively (before slag tapping) at a slag basicity of 2.5 - 3.0. In this case it will be 0.011% of the smelt (average value). When electro-smelting of rimming steel is combined with continuous pouring, the charge must be composed so that the carbon content of the smelting metal is 0.10 - 0.20% higher than prescribed for the given grade. The charge usually consists of 80 tons iron-steel scrap, 5 tons scrap and waste from the converting shops and 5 tons pig iron; the first batch (55 - 65% of the charge) is molten in 1 - 1.5 hours, then 1.5 - 2.5% ore is added to obtain a 13 - 20% FeO_{total} content of the slag, then lime or limestone (4 - 5% or 7 - 8% respective-

ly) is added to get a slag basicity of 2.5 - 3.0. Pig iron stabilizes the carbon content during smelting and improves desulfuration at the beginning of rimming. Oxygen (98.5 - 99.2% pure) is blown through the bath twice, for 8 - 15 minutes, at a pressure of 10 - 13 atm. The average oxygen consumption per smelt is 3 - 8 m^3/ton. The temperature upon the first oxygen blowing should be over 1560°C, before the second blowing over 1580°C, to prevent over-oxidation of the metal. The composition of steel grades produced by the method is: (in %)

	C	Mn	S	P
Ст.3кп (St.3kp)	0.17	0.40	0.040	0.022
Ст.2кп (St.2kp)	0.11	0.40	0.034	0.012
Ст.1кп (St.1kp)	0.09	0.35	0.035	0.011

Continuous pouring is carried out with double-channel, vertical type equipment, for casting 150 x 620, 150 x 780 and 170 x 1040 mm ingots. Close attention was paid to the ladle-spout lining. The best results were obtained by using for the ladle and intermittent ladle casings with a high aluminum oxide content, which last longer and ensure a controlled flow of a quantity of 90 tons of molten steel. The pouring rates are: for 150 x 620 mm ingots 0.8 - 0.9 m/min, for 150 x 780 mm ingots 0.7 - 0.8 m/min and for 170 x 1040 mm ingots 0.5 - 0.6 m/min. Pouring 90 tons of metal through two channels requires 65 - 70 minutes. The rate of

pouring is limited by the shortness of the secondary cooling sector (6.5m), where the metal solidifies. The rimming of the steel in the mold, in case of medium--carbon grades, can be promoted by adding aluminum, in the case of medium-carbon grades by blowing oxygen into the metal stream after the intermittent ladle. The macrostructure of continuously poured, electro-smelted steels was studied with 110 templates taken from 67 heats. Due to the low iron content and inadequate addition of aluminum in the ladle, the metal with a carbon content above 0.13% rims weakly in the mold and much too thin a skin forms. In this case, blowing oxygen will intensify rimming and a normal skin, 10 - 25 mm thick, will be obtained. Other defects often encountered in this kind of ingots are blisters in the skin, 0.5 - 3.0 mm in diameter, at a depth of 1 - 5 mm below the surface, and also beads and lateral and longitudinal cracks. Lateral cracks can be prevented by closely controlling the metal oxidation and improving the mold-coating. Longitudinal cracks are less frequent, mainly owing to the delayed shrinkage of the thinned sectors of the solidifying skin in the mold. Rimming steel ingots are hot-rolled on the 1200-mm mill, with universal roughing, two-high stand and reversing-finishing four-high stand, with coils heated in the furnace. To promote the sintering of gas-blisters, the reductions are increased (170 x 1040 mm slabs are reduced with 9 passes instead of 11, 150 x 620 mm slabs with 5 passes instead of 7).

The smelting of .....

S/133/62/000/005/004/008
A054/A127

The slab-heating temperature was raised from 1260 - 1270 to 1280 - 1310°C. Sheets, 13 - 14 mm and 2 - 3 mm thick are rolled from these slabs. At the "Zaporozhstal'" Plant the rate of consumption of the metal charge was 1.262 ton/ton of flawless product in 1960; for the new process this parameter was 1.127 - 1.135 ton/ton of flawless product. Smelting time was reduced to 4 ½ hours; the electric power required is 500 - 550 kW-h/ton of flawless steel. The application of minimum 80-ton capacity electric furnaces and continuous pouring is advisable where cheap open-hearth scrap and electric power are available. This increases production by 8 - 12% with a minimum capital outlay. There are 3 figures. The reference to the English-language publication reads as follows: Reinartz, L., Barnes, H., Iron and Steel Engineer, no. 1, 1954.

Card 5/5

PETRICHENKO, G.I., inzh.

Unit for slaking lime. Mekh.stroi. 19 no.7:26 Jl '62. (MIRA 15:7)

(Lime)

PETRICHENKO, I.

Use of a sprayer in the APK disinfection chamber. Zdrav. Turk 4 no.4:43 Jl-Ag '60. (MIRA 13:9)
(DISINFECTION AND DISINFECTANTS—EQUIPMENT AND SUPPLIES)

PETRICHENKO, I.A.

Some results of studying the nongeostrophic conditions of the atmospheric processes. Trudy TSIP no.144:104-109 '65. (MIRA 18:11)

PETRICHENKO, I.A., kand.fiz.-matem.nauk

Calculating trajectories of air particles. Meteor. i gidrol. no.10: 22-27 O '64. (MIRA 17:10)

1. TSentral'nyy institut prognozov.

L 9984-65 EWT(1)/FCC ASD(a)-5/ESD(dp)/AFETR GW
ACCESSION NR: AP4047452 S/0050/64/000/010/0022/0027

AUTHOR: Petrichenko, I. A. (Candidate of physico-mathematical sciences)

TITLE: On the calculation of trajectories of air masses

SOURCE: Meteorologiya i gidrologiya, no. 10, 1964, 22-27

TOPIC TAGS: weather forecasting, electronic computer, storm, air mass, isobaric potential

ABSTRACT: The author discusses the calculation and plotting of air mass movements over a 24-hour period. The methodology proposed results in the production of three isobar maps showing air mass movements in 12-hour intervals. Electronic computers were used to handle the voluminous computations, and a rectangular coordinate system was used to obtain expressions for the tracking algorithm. In the system discussed, 24-hour air-mass trajectory prediction is accomplished through the simultaneous execution of three interdependent programs: 1) a program of objective analysis of the geopotential field on the 850 and 700 millibar surfaces, 2) a program of 12- and 24-hour predictions of the geopotential field on the 850 and 700 millibar surfaces, and 3) a spontaneous immediate program for computing predicted trajectories. A table is presented comparing diagnostic and predicted trajectories

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ACCESSION NR: AP4047452

computed by hand and machine methods. The comparison was extended further in the form of a trajectory trace by hand and by machine for an actual air mass movement with isobar plots for the corresponding period. The author cited the ease and accuracy of the computer solution method. Orig. art. has: 3 figures, 1 table, and 6 equations.

ASSOCIATION: Tsentralnyy institut prognozov (Central Forecasting Institute)

SUBMITTED: 20Jun63 ENCL: 00

SUB CODE: ES NO REF SOV: 002 OTHER: 000

Card 2/2

USPENSKIY, B.D., doktor fiz.-mat. nauk, prof.; BELOUSOV, S.L., kand. fiz.-mat. nauk; PYATYGINA, K.V.; YUDIN, M.I.; MERTSALOV, A.N., kand. fiz.-mat. nauk; DAVYDOVA, O.A.; KUPYANSKAYA, A.P.; PETRICHENKO, I.A.; MORSKOY, G.I.; TOMASHEVICH, L.V.; SAMOYLOV, A.I.; ORLOVA, Ye.I.; DZHORDZHIO, V.A.; PETRENKO, N.V.; DUBOVYY, A.S.; ROMOV, A.I.; PETROSYANTS, M.A.; GLAZOVAYA, O.P.; BATYAYEVA, T.F.; BEL'SKAYA, N.N.; CHISTYAKOV, A.D.; GANDIN, L.S.; BURTSEV, A.I.; MERTSALOV, A.N.; BAGROVYY, N.A.; BELOV, P.N.; ZVEREV, A.S., retsenzent; SIDENKO, G.V., red.; red.; DUBENTSOV, V.R., kand. fiz.-mat. nauk, nauchn. red.; SAGATOVSKIY, N.V., red.; BUGAYEV, V.A., doktor geogr. nauk, prof., red.; ROGOVSKAYA, Ye.G., red.

[Manual on short-range weather forecasts] Rukovodstvo po kratkosrochnym prognozam pogody. Leningrad, Gidrometeoizdat. Pt.1. Izd.2., perer. i dop. 1964. 519 p. (MIRA 18:1)

1. Moscow. TSentral'nyy institut prognozov.

PETRICHENKO, I.A.; KARTASHOVA, M.V.

Taking into account observational data for several atmospheric levels in an objective analysis of charts of baric topography. Trudy TSIP no.111:39-43 '61. (MIRA 14:9)
(Weather forecasting)

PETRICHENKO, I.A.

Using data on the geopotential and wind velocity at several levels in an objective analysis of baric topographic maps. Trudy TSIP no.102:20-26 '62. (MIRA 15:9)
(Meteorology--Charts, diagrams, etc.)

PETRIMENKO, I.[illegible]; [illegible], G.[illegible].

Improved variant of an M[illegible] M[illegible]. [illegible] 388 [illegible].

1. Dnepropetrovskiy metallurgicheskiy [illegible].

RUDMAN, L (Kiyev); PETRICHENKO, N. (Kiyev)

A cart for the transportation of vending machines. Sov. torg. 35 no.2:53 F '61. (MIRA 14:3)

(Conveying machinery)

PETRICHENKO, N.F.

Study of the Late Paleolithic Zamost'ye I site. Trudy Kom.chetv.per. no.26:153-157 '61. (MIRA 15:3)
(Cheremosh Valley--Stone implements)

PETRICHENKO, N. V.

EXCERPTA MEDICA Sec 6 Vol 13/9 Internal Med Sept 59

5124. BIOELECTRICAL ACTIVITY OF THE BRAIN IN PATIENTS WITH BRUCELLOSIS (Russian text) - Petrichtenko N. V. - ZH. NEVROPAT. I PSIKHIAT. 1958, 58/11 (1371-1376) Graphs 3

In brucellosis, the organic lesions of the CNS cause disturbances of the electrical activity of the brain of diffuse or focal nature. A study of 25 cases has shown that the earliest and most distinct changes originate from the baso-frontal curve of the cerebral biocircuits. The EEG alterations are the consequence of disturbances of the cerebral blood flow, which is of an angiospastic nature, as demonstrated with the aid of the nitroglycerin test. (L, 6, 8)

SLIVKO, Ye.P.; PETRICHENKO, O.I.

Inclusions in the sylvins of the cis-Carpathian region. Min. sbor. no.17:236-238 '63. (MIRA 17:11)

1. Institut geologii i geokhimii goryuchikh iskopayemykh, AN UkrSSR, L'vov.

SHRAMKO, B.A.; PETRICHENKO, O.M. [Petrychenko, O.M.]; SOLNTSEV, L.O.; FOMIN, L.D.

Investigating old-Russian iron articles in the ancient settlement of Donetskoye. Nar.z ist.tekh. no.7:74-87 '61. (MIRA15:2)

(Kharkov Province—Excavations(Archaeology))

PETRICHENKO, N.P.

Economic effectiveness of creating underground gas storage pools in the Donets Economic Region. Neft. i gaz.prom. no.1:63-66 Ja-Mr '65. (MIRA 18:8)

PETRICHENKO, N.P.; NEPARIDZE, E.Kh.

Possibility of the underground storage of gas in the Dnieper and Black Sea economic regions. Gaz.prom. 10 no.5:41-43 '65. (MIRA 18:6)

PETRICHENKO, O.I.; SLIVKO, Ye.P.

Accessory alkali elements in the minerals of salt de ca.ta. Min.sbor. 18 no.3:287-296 '64. (MIRA 18:8)

1. Institut geologii i geokhimii goryuchikh iskopayemykh AN UkrSSR, L'vov.

PETRICHENKO, P.N.

Assembly of pump manifolds on flange couplings. Neftianik 6 no.5: 9-10 My '61. (MIRA 14:5)

1. Starshiy inzhener normativno-issledovatel'skoy stantsii ob"yedineniya Turkmenneft'.

(Oil well pumps)

L 07349-67

ACC NR: AP6012164 (A) SOURCE CODE: UR/0413/66/000/007/0088/0088

57

AUTHORS: Lozhkin, A. N.; Petrichenko, R. M.

ORG: none

TITLE: An assembly for utilizing the exhaust heat of an internal combustion engine. Class 46, No. 180433

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 88

TOPIC TAGS: heat transfer in rarefied gas, aerodynamic heat transfer, heat exchanger, heat energy conversion, heat effect

ABSTRACT: This Author Certificate presents an assembly for utilizing the exhaust heat of an internal combustion engine. The assembly contains a steam generator placed in the stream of exhaust gases and in the water cooling circuit of the engine, and an ejector absorbing the gases from the engine through the steam generator by using the steam produced in the generator. To increase the power and improve the economic efficiency of the engine, a heat pump is placed in the stream of the exhaust gases between the steam generator and the ejector. It converts the heat energy of the gas into pressure energy for increasing the compression behind the ejector and for lowering the pressure in the exhaust pipe of the engine. To decrease the size of

Card 1/2 UDC: 621.43.068.1

L 07349-67

ACC NR: AP6012164

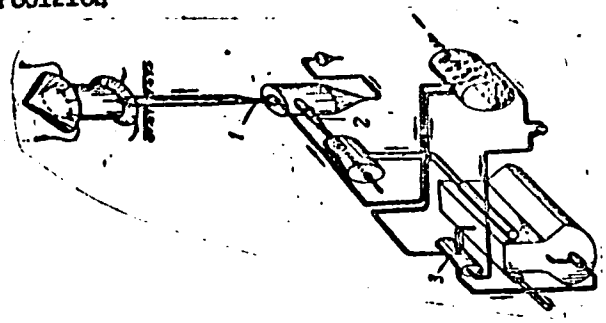


Fig. 1. 1 - ejector; 2 - heat pump; 3 - separator

the assembly, the steam generator may be made in the form of a separator with a throttle. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 28Dec64

Card 2/2 afs

ACC NR: AP7002599 (A, N) SOURCE CODE: UR/0413/66/000/023/0107/0108

INVENTORS: Lozhkin, A. N.; Petrichenko, R. M.

ORG: none

TITLE: An assembly for supercharging a diesel engine. Class 46, No. 189248

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 107-108

TOPIC TAGS: diesel engine, supercharged engine, supercharger, turbine

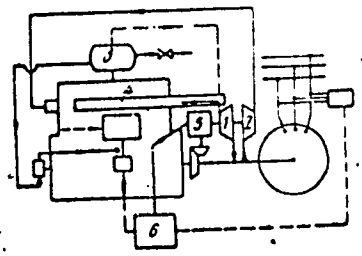
ABSTRACT: This Author Certificate presents an assembly for supercharging a diesel engine. The assembly contains a turbine keyed to the exhaust collector for driving an air compressor which feeds air to the engine cylinders (see Fig. 1). To increase the operating economy, a vapor separator is installed in the engine cooling system converted to provide an open high-temperature cooling. This separator feeds the vapor to the exhaust collector so as to produce a vapor-gas mixture feeding the turbine. A reducer may be placed between the turbine and the engine. This reducer has a variable transmission ratio and changes the turbine rpm according to the load on the engine. The assembly may be provided with a regulator for optimal operation. This regulator changes the transmission ratio of the reducer according to the fuel and power consumption.

UDC: 621.43.052

Card 1/2

ACC NR: AP7002599

Fig. 1. 1 - turbine; 2 - compressor; 3 - vapor separator; 4 - exhaust collector; 5 - reducer; 6 - optimal operation regulator



Orig. art. has: 1 figure.

SUB CODE: 21/ SUBM DATE: 09Sep65

Card 2/2

KHEYFETS, L.; PETRICHENKO, S.; GOGIN, N.; SVISTUNOV, A. (Chelyabinsk)

Readers letters. Pozh.delo 5 no.11:31-32 N '59. (MIRA 13:4)

1. Nachal'nik Otdela gosudarstvennogo pozharnogo nadzora Upravleniya pozharnoy okhrany Saratovskogo oblispolkoma (for Kheyfets). 2. Starshiy rayonnyy pozharnyy inspektor, selo Mlinovo, Rovenskaya oblast' (for Petrichenko). 3. Nachal'nik Leningradskoy pozharno-tekhnicheskoy vystavki (for Gogin).
(Fire prevention) (Fire extinction)

KOMYSHNIK, L., inzh.; PETRICHENKO, V., inzh.

Modernization of grain drying and cleaning towers at grain receiving stations of Kustanay Province. Muk-elev. prom. 27 no.1:10-11 Ja '61. (MIRA 14:1)

1. Kustanayskoye upravleniye khleboproduktov.
(Kustanay Province--Grain elevators)

PETRICHENKO, V.F.

Cell of RVD-6/3-type high-voltage explosion-proof distributing units. Biul. tekh.-ekon. inform. no.3:7-8 '58. (MIRA 11:6)
(Electric controllers)

PETRICHENKO, V.F.

Translation from Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 3, p. 92 (USSR) 112-3-5691

AUTHOR: Petrichenko, V. F.

TITLE: A Double Switch for Portions of Windings of Maximum Relays (Sdvoyennyy pereklyuchatel' chisla vitkov obmotok maksimal'nykh rele)

PERIODICAL: Sbornik rats. predlozh. m-va elektrotekhn. prom-sti SSSR, 1956 Nr 6 (64), p. 24

ABSTRACT: Bibliographic entry.

ASSOCIATION: Ministry of Electrical Industry of the USSR (M-vo elektrotekhn. prom-sti SSSR)

Card 1/1

PHASE I BOOK EXPLOITATION SOV/4932

Petrichenko, Valentin Kuz'mich

Ustroystvo i ekspluatatsiya tekstolitovykh podshipnikov prokatnykh stanov (Arrangement and Operation of Textolite Rolling-Mill Bearings) Khar'kov, Metallurgizdat, 1960. 167 p. Errata slip inserted. 2,600 copies printed.

Resp. Ed.: A. V. Pavlenko; Eds. of Publishing House: Ye. K. Sinyavskaya and S. S. Liberman; Tech. Ed.: S. P. Andreyev.

PURPOSE: This book is intended for workers in rolling shops, machinists and designers in ferrous metallurgy, and for technical personnel dealing with the use of plastics in mechanical equipment of other branches of the national economy.

COVERAGE: The author discusses the following: the arrangement of rolling-mill bearings with textolite and laminated-wood plastic liners; modern constructions of bearing mountings; working conditions of roll bearings and instructions for their operation; materials for the fabrication of textolite liners, and the basic properties, manufacturing

Card 1/5

methods and use of these lines. Particular attention is given to problems of wear and to the question of increasing the wear resistance of liners and roll necks. Initial data and design methods for textolite liners are briefly discussed. VNIIOChERMET (formerly Orgchermet) and the plants "Azovstal'" imeni Andreyev, and "Karbolit" carried out investigations and experimentation which are said to have led to the introduction of a new (in the USSR) type of textolite where "bel'ting" cloth is used, and to the production of molded textolite liners made with the "bel'ting" cloth and "remen'" [leather-band] cloth. These products have been used since 1950 in almost all types of rolling mills in the USSR. No personalities are mentioned. There are 6 references, all Soviet.

TABLE OF CONTENTS:

SHEKHTER, Semen Yakovlevich; PETRICHENKO, V.K., retsenzent

[Reconditioning equipment by mechanized build-up welding] Vosstanovlenie oborudovaniia mekhanizirovannoi naplavkoi. Moskva, Metallurgiia, 1965. 135 p. (MIRA 18:4)

RODZEVICH, Petr Ivanovich, inzh.; NIKBERG, Il'ya Moiseyevich, inzh.; BARATS, Aleksandr Isaakovich, inzh.; PETRICHENKO, V.K., red.; KARASEV, A.I., tekhn. red.

[Reinforcement of metallurgical equipment parts] Uprochnenie detalei metallurgicheskogo oborudovaniia. Moskva, Metallurgizdat, 1963. 342 p. (MIRA 17:2)

FRUMIN, Isidor Il'ich; PETRICHENKO, V.K., otv.red.; LIBERMAN, S.S., red.izd-va; ANDREYEV, S.P., tekhn.red.

[Automatic electric-arc hard facing and built-up welding] Avtomaticheskaia elektrodugovaia naplavka. Khar'kov, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 421 p. (MIRA 14:3)
(Hard facing) (Electric welding)

PETRICHENKO, V.K.

Cast stone plates are a wear-resistant protective material. Metallurg 2 no.8:14-17 Ag '57. (MLRA 10:9)

1. Institut VNIIOchermet.
(Basalt) (Metallurgical plants--Equipment and supplies)

SOV/137-58-7-15268

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 190 (USSR)

AUTHOR: Petrichenko, V.K.

TITLE: Automatic Hard-surfacing of Machine Parts (Avtomaticheskaya naplavka detaley oborudovaniya iznosoustoychivymi splavami)

PERIODICAL: Tr. Nauchno-tekhn. ob-va chernoy metallurgii. Ukr. resp. pravl., 1956, Vol 3, pp 71-72

ABSTRACT: An account of the experience of various plants in the technique of building up surfaces of rolls for rolling mills by means of bead welding (W) with powdered wire, PP3Kh2V8. The process involved preheating of the rolls to a temperature of approximately 350-400°C, followed by heat treatment (which consisted of heating to a temperature of 350-400° with a subsequent cooling period of 12 to 16 hours). The employment of this method of building up surfaces of machine parts by means of W is recommended for other parts as well (street-car wheels, tractor components, etc.).

A.B.

1. Rolling mills--Maintenance 2. Welding--Applications

Card 1/1

PETRICHENKO, V. K.

Technology

Plastic bearings and gears, Moskva, Mashgiz, 1952.

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

PETRACHENKO, V. K.

PETRICHENKO, V. K.

Technology

Production, processing and use of anti-friction alloys with no tin or low tin content, Moskva, Metallurgizdat, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952 Unclassified.

PETRICHENKO, V. K.

Antifriktsionnyye materialy i podshipniki skol'zheniya (Antifriction materials and sliding bearings).
Spravochnik. Moskva, Mashgiz, 1954.
383 p. illus., diagrs., tables.
Bibliography: p. 377-381.

PETRICHENKO,V.K.

[Plastic bearings and gears; calculation, design, manufacture and use.] Podshipniki i shesterni iz plastmass; raschet, konstruirovanie, izgotovlenie, ekspluatatsiia. Moskva, Mashgiz, 1952 205 p. (MIRA 8:8)

(Bearings (Machinery)) (Plastics) (Gearing)

PETRICHENKO, V.K., inzhener.

Introduction of automatic hard facing of steel rolls. Metallurg no.6: 5-9 Je '56. (MLRA 9:9)

1.Orgchermet.
(Rolls (Iron mills)) (Hard facing)

PETRICHENKO, V. K.
PETRICHENKO, V.K.

USSR/ Miscellaneous - Bibliography

Card : 1/1 Pub. 128 - 32/32

Authors : ...

Title : Book review

Periodical : Vest. mash. 34/7, 99 - 112, July 1954

Abstract : A comprehensive review is presented on technical books and periodicals, of foreign and domestic origin, pertaining to the machine construction industry, industrial economy, production methods, power plants, metallurgy and metal working. The following publications are elaborated: "Operational Disks and Blades of a Steam Turbine", by A. V. Levin; "Bearing and Cog-Wheels from Plastic Masses", by V. K. Petrichenko; and "Designing and Production of Punch Presses", by B. I. Tsessarskiy. References: Forty-six books in Russian; forty-four books in other languages.

Institution : ...

Submitted : ...

SOV/19-58-6-237/685

AUTHOR: Petrichenko, V.K.

TITLE: A Machine for the Automatic Resurfacing by Electric Arc-Welding of Worn Grooves of Rollers (Stanok dlya avtomaticheskoy elektrodugovoy naplavki iznoshennykh poverkhnostey kalibrov prokatnykh valkov)

PERIODICAL: Byulleten' izobreteniy, 1958, Nr 6, p 54/55 (USSR)

ABSTRACT: Class 21h, 30_{17}. Nr 113550 (576328/12939 of 29 March 1956). Submitted to the Ministry of Ferrous Metallurgy of USSR. A machine for the resurfacing by electric arc-welding of worn grooves of rolls and other parts of rolling mill equipment, consisting of a rotable frame

Card 1/2

SOV/19-58-6-237/685

A Machine for the Automatic Resurfacing by Electric Arc-Welding of Worn Grooves of Rollers

with pivots on bearings, support rolls, a drive, and a welding head on a carriage moving on guide rails on the rotating frame; the carriage is provided with a counter-weight keeping it in a vertical position when the frame tilts.

Card 2/2

PETRICHENKO, Valentin Kuz'mich; PALENKO, A.V., otv. red.; SINYAVSKAYA, Ye.K., red.izd-va; LIBERMAN, S.S., red.izd-va; ANDREYEV, S.P., tekhn.red.

[Design and use of textolite bearings for rolling mills] Ustroistvo i ekspluatatsiia tekstolitovykh podshipnikov prokatnykh stanov. Khar'kov, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 167 p. (MIRA 13:9)
(Rolling mills) (Plastic bearings).

Introduction of automatic welding built up of steel mill rollers [illegible]

Welding [illegible] were electrode [illegible] spirally wrapped [illegible] not more than [illegible] C. The 4.5-mm outside-diameter tube is filled with powd. mixt. of ferroalloys. The compn. of this electrode (PT3K, 8218 or BI701) is given as C [illegible] Mn 0.45, Si 0.3, Cr 2.8, W 0.75, V 0.3%, Fe remainder. The built up metal compn. is [illegible] V 0.35 [illegible] Mn [illegible] Si 0.5-0.9, Cr 2.7-[illegible] hardness [illegible]

LFH

130 - 6 - 15/27

AUTHOR: Petrichenko, V.K.

TITLE: Conference on the metallization of units of metallurgical equipment. (Soveshchaniye po naplavke detaley metallurgicheskogo oborudovaniya).

PERIODICAL: "Metallurg" (Metallurgist), 1957, No.6, pp.30-32 (USSR).

ABSTRACT: Early in 1957 the Ministry of Ferrous Metallurgy of the USSR organised a conference, jointly with the imeni Ye. O. Paton electric welding institute of the Academy of Sciences of the Ukrainian S.S.R. The proceedings of this conference, which had as its object the familiarization of metallurgical industry workers with metallization techniques useful for metallurgical equipment, are outlined in this paper. The delegates also visited the institute laboratories to inspect new metallization equipment.

Gorelov said that metallization of rolls at the imeni Voroshilov works had increased durability per setting from 8 to 24 hours, with better machinability and economy. Progress in roll metallization and the resulting advantages at the "Krasnyi Oktyabr" works was described by Antonov. Similar information for the Kramatorsk metallurgical works, the Nizhne-Tagil'sk metallurgical combine, the imeni Frunze

Card 1/3

Conference on the metallization of units of metallurgical equipment. (Cont.) 130 - 6 - 15/27

works, the imeni Lenin works and the Sinarsk tube works was given by Morozov, Smirnov, Shevchenko, Vengerovskiy and Brailovskiy, respectively. At the imeni Kuybyshev Tube-Rolling works, according to Borisenko, a special installation made by the imeni O.A.Paton institute is used for roll-metallization in the pilger mill. At the Magnitogorsk metallurgical combine metallization is used for blooming mill shears, blast-furnace big and small bells and other items; this was described by Leshchinsky. The conference made firm recommendations on types of electrodes and fluxes and base temperatures for metallizing various rolls; suggestions were made for induction pre-heating of rolls, for works to make simple metallization equipment items themselves and to use specified equipment types for various uses. A list of metallurgical equipment for which the conference recommend metallization was compiled, and requests for improved metallization equipment and materials were made to the imeni O.A.Paton institute. In view of satisfactory experience at the "Azovstal'" and "Dneprospetsstal'" works the conference recommended further work on metallization under ceramic fluxes.

Card 2/3

ASSOCIATION: VNIIOchermet.

AVAILABLE:

130 - 6 - 15/27

Card 3/3

PETRICHENKO, V.K.

Some problems involved in automatic hard facing of rollers. (MIRA 9:2)
Avtom.svar. 8 no.6:74-84 N-D '55.

1.Orgchermet.
(Hard facing) (Rolling mills)

PETRICHENKO, V. K., NIKBERG, I. M. I NEVEDUYUSHCHIY, A. I.

5570. Petrichenko, V. K., Nikberg, I. M. i Neveduyushchiy, A. I. Spravochnik po zamene podshipnikov kacheniya inostrannykh firm otechestvennymi. Khar'kov, Metallurgizdat. 1954. 144s. s chert. 23 sm. (M-VO chernoy metallurgii SSSR. Orgchermet). 2000 ekz. 7r.15k. V per.----Sost. ukazany na oborote tit. l.----(55-1465)p
621.822(08)

So: Knizhnaya Letopis', Vol. 1. 1955

PETRICHENKO, V.K.; ZOMMER, Ye.F., inzhener, retsenzent; STOROZHEV, A.M., redaktor; POPOVA, S.M., tekhnicheskiy redaktor

[Antifriction materials and sliding bearings; reference manual] Antifriktsionnye materialy i podshipniki skol'zheniia. Spravochnik. Moskva, Gos. nauch.-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1954. 383 p. (MLRA 7:10)

(Friction) (Bearings (Machinery))

ПЕТРИЧЕНКО, В.К.

AUTHOR: Petrichenko, V.K. 130-8-6/20

TITLE: Stone-Cast Plates as a Wear-resisting Protective Material (Kamennyye lityye plity - iznosoustoychivyy zashchitnyy material)

PERIODICAL: Metallurg, 1957, No.8, pp. 14 - 17 (USSR)

ABSTRACT: The author describes the properties and uses of cast basalt plates. They have been used for many years in the USSR for armouring parts of equipment subject to wear. Good results have been obtained at, e.g. the imeni Kirov Metallurgical Works (Metallurgicheskiy Zavod imeni Kirova) and the Noril'skiy Metallurgical Combine (Noril'skiy Metallurgicheskiy Kombinat); the poor results at the "Azovstal'" Works the author attributes to incorrect stone-casting technique. The plates are supplied by the Moscow Stone-casting Works (Moskovskiy Kamneliteynyy Zavod) and the author describes in detail the various types of plate and gives examples of their positioning and methods of securing them. There are 4 figures and 1 table.

ASSOCIATION: VNIIOchermet Institute

AVAILABLE: Library of Congress.

Card 1/1

PETRICHENKO, V.K.

Conference on hard surfacing of metallurgical equipment parts. Metallurg 2 no.6:30-32 Je '57. (MIRA 10:6)

1. VNIIOchermet.
(Hard facing) (Rolls (Iron mills))

PERRICHENKO, V.K.

Podshipniki I Shesterni Iz Plastmass (Plastic Bearings and Cog Wheels) Raschet, Konstruirovaniye Izgotovleniye, Ekspluatatsiya. Moskva, Mashgiz, 1952.
208 P. Illus., Diagrs., Tables.
"Literatura": P. 202-(204)

SO: N/5
741.99
.P4

PETRICHENKO, V.K.

SHEYDIN, I.A., kandidat tekhnicheskikh nauk; AL'SHITS, I.Ya., kandidat tekhnicheskikh nauk.

"Bearings and gears made of plastic materials." V.K.Petrichenko. Reviewed by I.A.Sheidin, I.IA. Al'shits. Vest.mash. 34 no.7:100-102 Jl '54. (MLRA 7:7)
(Petrichenko, V.K.) (Gearing) (Bearings(Machinery)

1. PETRICHENKO, V.K.

2. USSR (600)

4. Technology

7. Ball bearings and gears made of plastic. Moskva, Mashgiz,1952

91 Monthly List of Russian Accessions,Library of Congress,February,1953.Unclassified.

PETRICHENKO, Valentin Kuz'mich; PAVLENKO, A.V., otv.red.; SINYAVSKAYA, Ye.K., red.izd-va; LIBERMAN, S.S., red.izd-va; ANDREYKV, S.P., tekhn.red.

[Construction and utilization of textolite bearings for rolling mills] Ustroistvo i ekspluatatsiia tekstolitovykh podshipnikov prokatnykh stanov. Khar'kov, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 167 p.

(MIRA 13:12)

(Plastic bearings)

FRUMIN, Isidor Il'ich; PETRICHENKO, Valentin Kuz'mich; PODGAYETSKIY, V.V., otvetstvennyy redaktor; ANDREYEV, S.P., tekhnicheskiy redaktor

[Automatic welding in hard facing steel rolled girders; a practical manual] Avtomaticheskaia naplavka stal'nykh prokatnykh valkov; prakticheskoe rukovodstvo. Khar'kov. Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 114 p. (MLRA 9:10)
(Welding) (Girders)

ZABOKRITSKIY, Ye.I.; PETRICHENKO, V.P.; KHAYNATSKIY, V.D.

Improvement of the direct start circuit of a synchronous motor with a directly connected exciter. Energ. i elektrotekh. prom. no.3:8-9 Jl-S '62. (MIRA 18:11)

SKAKUN, I.L., gornyy inzh.; PETRICHENKO, V.S., gornyy inzh.

Analysis of the performance of auxiliary mine hoists in the Krivoy Rog Basin. Gor. zhur. no.9:47-49 S '62. (MIRA 15:9)

1. Trest po proyektirovaniyu zhelezorudnykh predpriyatiy Krivorozhskogo basseyna (for Skakun). 2. Nauchno-issledovatel'skiy gornorudnyy institut (for Petrichenko).
(Krivoy Rog Basin--Mine hoisting)

PETRICHENKO, V.S., gornyy inzh.; SKAKUN, I.L., gornyy inzh.

Using single- and double-cage chippy hoists. Gor. zhur. no.6:49-51 Je '64. (MIRA 17:11)

1. Nauchno-issledovatel'skiy gornorudnyy institut, Krivoy Rog (for Petrichenko). 2. Krivbassproyekt (for Skakun).

PETRICHENKO, V.S., gornyy inzh.

Reorganization of coal mines in England and Scotland. Ugol' Ukr. 6 no.5:45-47 My '62. (MIRA 15:11)
(Great Britain--Coal mines and mining)

DRACH, Ye.M., vetvrach; PETRICHENKO, V.T., veterinarnyy fel'dsher

Important potential for increasing the productivity of stock-breeding. Veterinariia 36 no.11:75-76 N '59 (MIRA 13:3)

1. Karlovskaya myasokontrol'naya stantsiya, Poltavskoy oblasti. (Serum) (Stock and stockbreeding)

(13)

Sofia, Veterinarno Delo, Vol 55, No 10, 1961.

1. "An Important Condition for an Efficient Struggle Against Infertility in Livestock," Prof Metodi PETROV, Rector (rector) of the VVO (Visen veterinarno obrazovatelen institut; Advanced Institute of Veterinary Medicine ?) and Dr Georgi [illegible], Deputy Director (zam.-direktor) of IEPZZSZh (abbreviation not identified); pp 3-5.

2. "Sixty Years of Service for the People," Ivan CHELCHEV (affiliation not given) — (The article briefly covers the activities of the Central Veterinary Institute for Infectious and Parasitic Diseases (Tsentralniyat veterinaren institut za zarazni i parazitni bolesti; TsVIZPB)), pp 6-8.

3. "Ornithosis and Its Zoiseotological and Epidemiological Significance," Ivan JENOV, junior scientific worker (ml. nauchen sotrudnik) at the TsVIZPB (for abbreviation see item 2 above); pp 9-13.

4. "The Struggle Against Ornithosis in the German Democratic Republic," (Based on an article by Prof L. Borel [?] of Leipzig); pp 13.

5. "Listerphoresis in Rabbits," Dimko PETROV (no affiliation given); pp 14-17.

6. "Vetral (Dermonil) Aerosol in Goat," Prof Petur MIRCHEV (affiliation not given); pp 18-20.

7. "The Removal of a Foreign Body From the Stomach of Cattle By Means of Sounding Through the Cardia," Dr Pavel [illegible], Chief Veterinarian (glavni veterinaren lekar), Glavna Veterinarna Bolnitsa [?] (Okr. v. Lovsa) in Pleven; pp 20-23.

8. "On the Technology and Inspection of Sausages," Dr Ivan NIKOLAYEV (affiliation not given); pp 24-27.

— 1/1 —

BULGARIA/Allergy

U-2

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 27608

Author : Petrichev, M., Sotirov, N.
Inst : Not Given
Title : On Anaphylactogenic Properties of Cow's Milk

Orig Pub : Nauchn. tr. Vissh. veterinarnomed. in-t, 1956, 4, 365-374.

Abstract : Guinea pigs, rabbits, dogs and a lamb were sensitized with the centrifuged pasteurized cow's milk. Following injection of a shocking dose, lethal anaphylactic shock occurred only in guinea pigs. After the 1st injection the blood pressure was lowered by 15-20 mm. of Hg, and after injection of a shocking dose, it fell to 45 mm. in rabbits and 14 mm. in dogs but the animals survived. Rabbits survived the administration of a large (up to 110 ml.) shocking dose.

Card : 1/1

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PETRICIC, Ante, dr inz.

Ripening of wrapped cheese. Kem ind 12 no.9:673-677 S '63.

1. Tehnoloski fakultet, Zagreb.

PETRICIC, Ante, dr; BRNICEVIC, Dusica, dipl. inz.

Dependence of the size and uniformity of lactose crystals in condensed milk on the technological process. Kem ind 12 no.5: 332-335 My '64.

1. Institute of Industrial Dairying, Faculty of Technology, University of Zagreb, Zagreb (for Petricic). 2. "Josip Kras" Zagreb (for Brnicevic).