KRAYUSHKIN, V.O.

Orographic conditions in the accumulation of oil in the Novo-Bitkovskiy antieline. Geol. zhur. 21 no.6:106-111 '61. (MIRA 15:2)

1. Institut geologii poleznykh iskopayemykh AN USSR.
(Carpathian Mountains--Petroleum geology)

Country : USSR
Category: Cultivated Plants. Fodders.

M

Abs Jour: RZhBiol., No 11, 1958, No 48988

Author : Krayushkin, V.P.
Inst : Kazan Inst. of Agriculture
Title : On the Problems of the Cultivation of Corn for Green Feed and Ensilage on Fallow.

Orig Pub: Tr. Kazansk. fil. AN SSSR. Ser. biol. n., 1956 (1957), vyp. 4, 133-136

Abstract: In 1955, field experiments were conducted by Kazan' Institute of Agriculture under the conditions of turf-podzolic soils of the northern part of Tartar ASSR. The seeds of the tall-stem variety Grushevidnaya Odesskaya 10 and short-stem variety Kazanskaya 7 were sown under the following conditions: 1) control

Card : 1/3

M-86

M

Country : USSR
Category: Cultivated Plants. Fodders.

Abs Jour: RZhBiol., No 11, 1958, No 48988

(without fertilizers); 2) organic-mineral mixture (humus 4 t, Pc 2.5 c, lime 4 c); 3) manure 30 t; 4) manure 15 t, Naa 1 c, Pc 2.5 c and Kx 1 c. The increase in the yield by sowing large seeds compared with medium-sized ones reached 12 cwt/ha (22%) and in comparison with sowing small seeds the increase was 40 cwt/ha (40.6%). The increase in the yield of green mass of tall-stem corn, depending on the kind of fertilizers, comprised 9.6 cwt (14.4%) on organic-mineral mixture; with 30 t of manure - 12.1 cwt (18%); with 15 t of manure + Pk - 27 cwt/ha (40%). In the case of the short-stem variety, the increase was 19.2, 25.6, and

Card : 2/3

Country : USSR
Category: Cultivated Plants. Fodders.

Abs Jour: RZhBiol., No 11, 1958, No 48988

29.6 cwt/ha respectively. -- T.I. Karelin

Card : 3/3

KRAYUSHKIN, V.P., kand. sel'khoz. nauk; KOROL'CHUK, V.M., red.; SAGITOVA, S.G., tekhn. red.

[Green fallows and their economic significance in the Tatar A.S.S.R.] Zaniatye pary i ekonomicheskoe ikh znachenie v Tatarskoi ASSR. Kazan', Tatarskoe knizhnoe izd-vo, 1960. 56 p. (MIRA 14:9)
(Tatar A.S.S.R.—Fallowing)

Krayushkina, L.S.

AUTHOR: Krayushkina, L. S. 20-3-52/52

TITLE: Histophysiological Description of the Organs of the Digestive System in the Larvae of Acipenser Stellatus Pallas at Various Stages of Their Development (Gistofiziologicheskaya kharakteristika organov pishchevaritel'noy sistemy lichinok sevryugi (Acipenser stellatus Pallas) na razlichnykh etapakh razvitiya).

PERIODICAL: Doklady AN SSSR, 1957, Vol. 117, Nr 3, pp. 542-544 (USSR)

ABSTRACT: The author identifies three stages of nutrition of the larvae: a) yolk-nutrition, b) mixed nutrition, c) active nutrition. The duration of each stage depends mainly on the temperature. During these different stages the kind of food and the structure of the epithelium of the digestive tract changes. At the postembrionic stage the cells of the aesophagus epithelium contain in their plasm small lumps of yolk. Gradually the content of yolk dimishes. The absorption of the yolk takes place by way of the phagozytes activity of the epithelium of the yolk-sac, of the situation of the pyloric portion of the stomach and of the mid'-intestine. The phagozytes'function of the entire epithelium of the yolk-sac ceases on the 8th day. The ciliated and the

Card 1/3

mucilaginous cells are developed on the 9th day. It has been proved (Ref. 2), that the development of the "hem" epithelium takes place in the coudal-cranial direction. During the absorption of mixed food, from the 8th to the loth day, the larva passes over from the endogenous yolk-nutrition to the exogenous plankton- and bentos-nutrition. Within the digestive system the elements receive their definitive structure. The elements typical for yolk-nutrition are decompore. During the transition period the epithelium of the mouth-cavity and of the aesophagus receives the main characteristics of the definitive structure. Starting with the 8th day the beginnings of an intestine-digestion by means of secretions of the digestive glands can be observed in the yolk-sac. After the phagozytes'function has ceased the cell-divisions are clearly recognizable. On the 9th day the nutrition reaches the stomach just under formation, in which there are still some yolklumps to be found. On the 11th day the larvae pass over completely to exogenous nutrition. The yolk in the cavity of the stomach and the pyloric part

Histophysiological Description of the Organs of the Digestive System in the Larvae of Acipenser Stellatus Pallas at Various Stages of Their Development

has entirely been used up. At this stage the epithelium does not undergo any further essential changes. Further more the development and the growth of the already marked sections of the digestive tract follows. The peculiar development of the digestive system in connection with the type of nutrition are characteristic signs for the biologically differentiated stages of the postembryonic development of the acipenser stellatus pallas. The knowledge of these is the important background for the pisciculture.
There are 8 references, all of which are Slavic.

ASSOCIATION: Leningrad State University im. A. A. Zhdanov
(im. A. A. Zhdanova Leningradskiy gosudarstvennyy universitet)

PRESENTED: July 8, 1957, by Ye. N. Pavlovskiy, Academician

SUBMITTED: June 29, 1957

AVAILABLE: Library of Congress

Card 3/3

KRAYUSHKINA, L.S. (Chusovitina)

Functional state of the chondriome of the chloride-secreting cells of the gills in sturgeons in the early stages of ontogeny. Arkh. anat. gist. i embr. 48 no.4:45-48 Ap '65.

(MIRA 18:6)

1. Kafedra ikhtiologii i gidrobiologii (zav. - prof. N.L. Gerbil'skiy) Leningradskogo gosudarstvennogo ordena Lenina universiteta imeni Zhdanova.

[illegible], [illegible]

[illegible]317. Kra[illegible]shkina, M. A. Mobilizatsya vnutrennikh rezervov proiz[illegible]stva--- glavn[illegible] v rabote fabrichnogo komiteta. Rasskaz...pred. Fabkoma sh[illegible]proizvodstvennoy fabriki im. M. I. Kalinina (M.), 1954. 1 L; vlozh. v (4) sIII. 25 sm. (Mosk. gor. sovet prof. soyuzov. Polozhitel'ny opyt profsoyuznoy raboty --- uroven' [illegible]organizatsiy Moskvy). [illegible] ekz. [illegible] --- (55-[illegible]) 331.[illegible]: 658 (47.31)

S[illegible]: Knizhnaya Letopis', Vol. 1, 19[illegible]5

KALASHNIKOVA, M.I.; KRAYUSHKINA, N.S.

Crown grafting. Agrobiologiia no.4:614-615 Jl-Ag '64. (MIRA 17:12)

1. Leningradskiy sel'skokhozyaystvennyy institut.

[illegible], A. G.

Steel - Electrometallurgy

Measurement of losses in intact sheet of electric steel.

Elektrichestvo, no. 1, 1952
Inzh.

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

KRAIZ, A.G.

Teplovye Ispytaniya Transformatorov

Elektrichestvo No. 3, 1952.
Inzh.

SO: Monthly List of Russian Accessions, Library of Congress, June 1952, Uncl.

1. KRAYZ, A. G., Eng.

2. USSR (600)

4. Electric Transformers

7. Cores from cold rolled steel for power transformers. Elektrichestvo No. 10, 1952.

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

1. KRAYZ, A. G., Eng.

2. USSR (600)

4. Electric Discharges

7. Coordinating the location of electric discharges with the degree of impulsive stability of transformers. Elektrichestvo No. 10, 1952

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

1. KRAYZ, A. G., ENG.

2. USSR (600)

4. Electric Currents

7. Obtaining high direct current voltage with charges of mercury drops. Elektrichestvo no. 11, 1952.

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

1. [illegible], ... G. Eng

2. USSR (600)

4. Electric Transformers

7. Cooling transformers by steam. Elektrichestvo no. 12, 1952.

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

KUZIN, A. E., Eng.

Electric Transformers

Calculating mechanical stress in transformers, Elektrichestvo No. 1, 1953.

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

KRAYZ, A.G., inzhener.

Nomogram for calculating the magnetic load of gears of electric machines. [Abstract from E.u.M. no.15/16:348, '52. H.Mayer]. Elektrichestvo no.5: 92-93 and 3 of cover, My '53. (MLRA 6:6)

(Electric machinery)

KRAYZ, A.G., inzhener.

Transformers of 380 kv capacity. Elektrichestvo no.6:83-84 Je '53.
(MLRA 6:7)
(Electric transformers)

KRAYZ, A.G., inzhener.

Precise calculation of the short circuit voltage of transformers. Elektrichestvo no.8:87-88 Ag '53. (MLRA 6:8)
(Electric transformers)

KRAYZ, A.G., inzhener.

Gas-filled, high-voltage transformers. Elektrichestvo no.1:85-86 Ja '54. (MLRA 7:2)
(Electric transformers)

KRAYZ, A.G.

AID P - 657

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 26/34

Author : Krayz, A. G., Eng.

Title : Arc-quenching ability of sulfur hexafluoride (SF_6 - "Elegaz"). (Review of Foreign Periodicals)

Periodical : Elektrichestvo, 9, 90-91, S 1954

Abstract : The author summarizes three US articles. 4 diagrams, 4 references (1952-1954).

Institution : None

Submitted : No date

KRAYZ, A. G.

AID P - 953

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 22/25

Author : Krayz, A. G., Eng.

Title : Tests of dry-type transformers (Review of Foreign Periodicals)

Periodical : Elektrichestvo, 10, 90-91, O 1954

Abstract : The author presents a review of three articles published in AIEE Transactions, v. 72, Part III, pp. 267, 843 and 917. One diagram, 3 American references (1953).

Institution : Not given

Submitted : No date

KRAYZ, A.G.

RABINOVICH, Emmanuil Abramovich; SURGUCHEV, Vladimir Dmitriyevich; KRAYZ, A.G., redaktor; SKVORTSOV, I.M., tekhnicheskiy redaktor

[Collection of problems in general electric engineering] Sbornik zadach po obshchei elektrotekhnike. Moskva, Gos.energ.izd-vo, 1955. 176 p. (MLRA 9:1)

(Electric engineering--Problems, exercises, etc.)

PETROV, Georgiy Nikolayevich; KRAYZ, A.G., redaktor; SKVORTSOV, I.M., tekhnicheskiy redaktor

[Electric machines; in three parts] Elektricheskie mashiny; v trekh chastiakh. Izd. 2-oe, perer. Moskva, Gos. energ. izd-vo Pt.1. [Introduction. Transformers] Vvedenie, Transformatory. 1956. 224 p. (Electric transformers) (MLRA 9:8)

BERKOVSKIY, A.M., inzhener; KRAYZ, A.G., inzhener.

Maximum capacities in future power supply development in the German Federal Republic. Elektrichestvo no.7:87-92 Jl '56.
(MLRA 9:10)

(Germany, West--Electric power) (Germany, West--Power engineering)

KRAYZ, A. G.

PA - 3117

AUTHOR: 1.) Engineer BERKOVSKIY, A.M.
2.) Candidate of technical science GALONEN, YU. M.
3.) Engineer KRAYZ, A. G.

TITLE: 1.) The Operation of Turbogenerators with Hydrogen Cooling. (Rezhimy ekspluatatsii turbogeneratorov s vodorodnym okhlazhdeniyem. Russian).
2.) Municipal Rail Electrotransport Undertakings Abroad. (Gorodskoy rel'sovyy elektrotransport za rubezhom. Russian)
3.) Gasfilled Transformers. (Gazonapolnennyye transformatory. Russian).

PERIODICAL: Elektrichestvo, 1957, Nr 5, pp 83 - 90 (U.S.S.R.)
Received: 6 / 1957 Reviewed: 7 / 1957

ABSTRACT: 1.) A general survey and a special description of the research done by General Electric of the U.S.A. and Al'st of France (with 5 illustrations, 1 table).

2.) The present condition of subways and streetcars according to foreign models of the last four years and the new types of high speed railways in the U.S.A. and London (with 2 illustrations and 5 tables).

3.) A general survey and description of the transformer produced by General Electric, which has 2000 KVA on 69 KVA with 140 % transformation in 8 hours. From G. Camilli, General Electric

Card 1/2

PA - 3117

1.) The Operation of Turbogenerators with Hydrogen Cooling.
2.) Municipal Rail Electrotransport Undertakings Abroad.
3.) Gasfilled Transformers.

Review, 1956, Nr 3 - 4, p 41 (with 3 illustrations and 1 table).

ASSOCIATION: Not given
PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress

Card 2/2

AUTHOR KRAYZ, A.G. Ing.

TITLE High-Voltage Autotransformers. 105-6-11/26
(Vysokovol'tnyye avtotransformatory - Russian)

PERIODICAL Elektrichestvo, 1957, Nr 6, pp 39 - 44 (U.S.S.R.)

ABSTRACT Some characteristics of the operating conditions as well as of the construction are given. First the basic operating conditions are explained and equations are deduced by means of which the possible loads of the primary as well as of the tertiary part can be determined if the corresponding power coefficients are known. The present voltage control under load by means of switching-on an additional aggregate to the common zero-line leads, in the case of some operating conditions, to over-excitation of the autotransformer, and in the case of some others it leads to under-excitation. These disadvantages are shown to be removed on the occasion of a control by means of switching-on an additional aggregate to the line of the part of windings which is connected in series or common for both of them, or by connecting it with the part of windings which is between the common part and the one connected in series. The difference of reaction between transformers and automo-autotransformers in the case of impulse supper voltage is dependent on the existing direct electric connection between the windings connected in series and those common for both of them. The endings of the two mentioned windings are shown to have to be fused by respective valve-dischargers in order to avoid the breakdown of autotransformers. This has to be done independent of the fact as to whether the autotransformer is connected with

Card 1/2

High-Voltage Autotransformers. 105-6-11/26

the line or not. The reason is given for the necessity of earth in the zero-line, and a short survey is given of the construction of the auto-transformer. The characteristic item is the kind of extractions: outside connections of the windings with one another as well as with the inlets. (9 illustrations and 3 tables).

ASSOCIATION Moscow Transformer Plants. Kuybyshev.
PRESENTED BY
SUBMITTED 17.1.1957
AVAILABLE Library of Congress
Card 2/2

KRAYZ, A.G., inzh.; SAPOZHNIKOV, A.V., kand. tekhn. nauk.

Present-day trends in transformer design. Elektrichestvo no.2:1-8 F '58. (MIRA 11:2)

1. Moskovskiy transformatornyy zavod imeni Kuybysheva.
(Electric transformers)

KRAYZ, A G.

PHASE I BOOK EXPLOITATION SOV/3722

Burman, Petr Georgiyevich, and Aleksandr Grigor'yevich Krayz

Proizvodstvo magnitoprovodov transformatorov (Production of Transformer Magnetic Circuits) Moscow, Gosenergoizdat, 1959. 150 p. (Series: Transformatory, vyp. 3) Errata slip inserted. 10,500 copies printed.

General Eds. of Series: B.B. Gel'perin, and P.P. Skvortsov; Ed.: V.I. Timokhina; Tech. Ed.: K.P. Voronin.

PURPOSE: This book is intended for workers and technical personnel engaged in the production, repair, and operation of transformers. It may also be used by students of tekhnikums and schools of higher education to familiarize themselves with the production of transformers.

COVERAGE: The book describes the arrangements and structures of magnetic circuits of low, medium, and high capacity transformers. Basic materials used in transformer production are examined. The technology of production of transformer magnetic circuits is de-

Card 1/6

scribed according to separate production processes: insulating electrical sheet steel; machining electrical steel; and assembling magnetic circuits of single-and three-phase high-power and super-high-power transformers. A description of the core-plate production line method at the Moscow Transformer Plant im. V.V. Kuybyshev and of progressive fitting in the magnetic circuit shop is given. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Foreword 3

Ch. I. Structure of the Magnetic Circuit
1. Purpose of the magnetic circuit 7
2. Structure of the active part of the magnetic circuit 7
3. Types of magnetic circuits 8
4. Shape of the transverse cross-section of cores and yokes 13
5. Heating and cooling of magnetic circuits 27
6. Pressing the cores 29
7. Pressing the yokes 32
36

SAPOZHNIKOV, Aleksandr Vladimirovich; KRAYZ, A.G., red.; MATVEYEV, G.I., tekhn.red.; LARIONOV, G.Ye., tekhn.red.

[Transformer design] Konstruirovanie transformatorov. Izd.2., perer. Moskva, Gos.energ.izd-vo, 1959. 360 p. (MIRA 12:4)
(Electric transformers)

KRAYZ, A.G., inzh.

Meeting on the manufacture of electric transformers. Elektrichestvo no.7:89-93 Jl '60. (MIRA 13:8)
(Electric transformers--Congresses)

KRAYZ, A.G.

Manufacture of transformers in Western Europe and the United States.
Biul.tekh.-ekon.inform. no.10:88-92 '60. (MIRA 13:10)
(Europe, Western--Electric transformers)
(United States--Electric transformers)

ANSHIN, Vladimir Shayevich; KRAYZ, Aleksandr Grigor'yevich; GEL'PERIN, B.B., red.; SKVORTSOV, P.P., red.; TIMOKHINA, V.I., red.; VORONIN, K.P., tekhn.red.

[Assembly of large transformers] Sborka moshchnykh transformatorov. Moskva, Gos.energ.izd-vo, 1961. 463 p. (Transformatory, no.6). (MIRA 14:4)

1. Moskovskiy elektrozavod imeni V.V.Kuybysheva (for Anshin, Krayz).

(Electric transformers)

KRAYZ, A.G., inzh.

Concerning the operating conditions of step-up autotransformers. Elek. sta. 32 no.1:60-63 Ja '61. (MIRA 16:7)

(Electric transformers)

KRAYZ, A.G., inzh.; LEYTES, L.V., inzh; SPUV, G.S., inzh.

Study of multiframe magnetic circuits of power transformers. Vest. elektroprom. 32 no.3:5-9 Mr '61. (MIRA 15:6)
(Electric transformers) (Magnetic circuits)

KRAYZ, A.G., inzh.

Problems of voltage regulation in autotransformers. Elektrichestvo no.7:41-48 Jl '61. (MIRA 14:9)

1. Moskovskiy elektrozavod imeni Kuybysheva.
(Electric transformers)

KRAYZ, A.G., inzh.

The 220 Kv. electric transformers with voltage regulation under operating conditions. Vest. elektroprom. 32 no.10:55-59 O '61. (MIRA 14:9)

(Electric transformers)

MOROZOV, Dmitriy Nikolayevich; KRAYZ, A.G., red.; NIKOLAYEVA, M.I., red.; LARIONOV, G.Ye., tekhn. red.

[Additional losses in construction elements of transformers due to stray fields] Dobavochnye poteri v elementakh konstruktsii transformatora ot polei rasseianiia. Pod red. A.G. Kraiza. Moskva, Gosenergoizdat, 1962. 103 p. (Energetika za rubezhom, no.8) (MIRA 15:7)

(Electric transformers)

KRAYZ, Aleksandr Grigor'yevich

Power diagrams of autotransformers. Izv.vys.ucheb.zav.; elektromekh. 5 no.1:15-19 '62. (MIRA 15:2)

1. Zamestitel' glavnogo konstruktora Moskovskogo elektrozavoda imeni Kuybysheva.

(Electric transformers)

KRAYZ, A.G., inzh.

High-voltage autotransformer with free regulation under load. Vest. elektroprom. 33 no.7:8-13 Jl '62. (MIRA 15:11)
(Electric transformers)
(Electric power distribution--Equipment and supplies)

ALEKSENKO, Gennadiy Vasil'yevich; ASHRYATOV, Ali Kemalevich; FRID, Yefim Solomonovich; KRAYZ, A.G., red.; BORUNOV, N.I., tekhn. red.

[Testing of high-voltage power transformers and autotranformers] Ispytaniia vysokovol'tnykh i moshchnykh transformatorov i avtotransformatorov. Moskva, Gosenergoizdat. Pt.2. 1962. 831 p. (Transformatory, no.9)
(MIRA 16:6)
(Electric transformers--Testing)

AKOPYAN, A.A.; BIRYUKOV, V.G.; BUTKEVICH, G.V.; KOZHUKHOV, V.K.; KRAYZ, A.G.; NAYASHKOV, I.S.; SIROTINSKIY, L.I.; SAPOZHNIKOV, A.V.; SYROMYATNIKOV, I.A.; RABINOVICH, S.I.

A.V. Panov; on his 60th birthday. Elektrichestvo no.5:92 My '63. (MIRA 16:7)

(Panov, Aleksei Vasil'evich, 1903-)

KRAYZ, A.G.

New transformers and reactors manufactured at the Moscow Electric Equipment Plant. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. 16 no.4:42-46 '63. (MIRA 16:8)
(Electric transformers) (Electric reactors)

ALEKSENKO, G.V.; SYROMYATNIKOV, I.A.; NEKRASOV, A.M.; KRIKUNCHIK, A.B.; RABINOVICH, S.I.; CHUSOV, P.P.; CHERTIN, A.M.; BULGAKOV, N.I.; BRITCHUK, V.V.; MAN'KIN, E.A.; PANOV, A.V.; SAPOZHNIKOV, A.V.; SAGALOV, M.I.; VOYEVODIN, I.D.; ANTONOV, I.A.; KALINICHENKO, I.S.; KRAYZ, A.G.

L.M. Shnitser; on his 75th birthday. Elektrichestvo no.11:87-88 N '63. (MIRA 16:11)

KHUDYAKOV, Zinoviy Ivanovich; KRAYZ, A.G., nauchn. red.;
KOHRINSKAYA, M.V., red.

[Transformer repair electrician] Elektroslesar' po remontu transformatorov. Moskva, Vysshaia shkola, 1964. 270 p. (MIRA 17:5)

KRAYZ, A.O., kand. tekhn. nauk

Three-phase power transformers with split windings. Elektrichestvo no.7:31-37 Jl '65. (MIRA 18:7)

1. Moskovskiy elektrozavod imeni Kuybysheva.

ALEKSEYENKO, G.V.; BORISENKO, N.I.; VOYEVODIN, I.D.; DROZDOV, N.G.; KRAYZ, A.G.; MAN'KIN, E.A.; MAYORETS, A.I.; NEKRASOV, A.M.; NAYASHKOV, I.S.; PAVLENKO, A.S.; ROKOTYAN, S.S.; SOBOLEV, A.A.; SYROMYATNIKOV, I.A.; SAPOZHNIKOV, A.V.; SARKISOV, M.A.; CHERNICHKIN, D.S.; CHERTIN, A.M.

Samuil Isaakovich Rabinovich, 1905; on his 60th birthday. Elektrichestvo no.6:90 Je '65. (MIRA 18:7)

BIRYUKOV, V.G.; BRITCHUK, V.V.; KOZHUKHOV, V.K.; KRAYZ, A.G.; NAYASHKOV, I.S.; NAZAREVSKIY, N.I.; PANOV, A.V.; PETROV, G.N.; RABINOVICH, S.I.; SAPOZHNIKOV, A.V.

Emmanuil Abramovich Man'kin, 1905- ; on his 60th birthday. Elektrichestvo no.11:86-87 N '65. (MIRA 18:11)

L 22432-66

ACC NR: AP6013618 SOURCE CODE: UR/0105/65/000/011/0086/0087

AUTHOR: Biryukov, V. G.; Britchuk, V. V.; Kozhukhov, V. K.; Krayz, A. G.; Nayashkov, I. S.; Mazarevskiy, N. I.; Panov, A. V.; Petrov, G. N.; Rabinovich, S. I.; Sapozhnikov, A. V.

ORG: none

36
35
B

TITLE: E. A. Man'kin, on his 60th birthday

SOURCE: Elektrichestvo, no. 11, 1965, 86-87

TOPIC TAGS: electric engineering personnel, synchrotron

ABSTRACT: Emmanuil Abramovich MAN'KIN, who after 35 years of scientific-engineering work ranks as one of the senior workers in the transformer-building field, was 60 years old on 28 May 1965. After graduating in 1927 from the electrical machine building institute in Moscow he became an engineer of the Moscow transformer factory (presently Moskovskiy elektrozavod; Moscow Electric Factory). He constructed and headed until 1934 the transformer testing station. During the 1935-1942 period he was head of the bureau for the design of special transformers, and during these years carried out numerous theoretical investigations concerning electromagnetic transformer calculations. His methods for the calculation of transformer leakage earned

Card 1/2

UDC: 621.314.21

L 22432-66

ACC NR: AP6013618

him the degree of candidate of engineering sciences. Between 1942 and 1947 he was deputy head of the engineering department of the factory, and since 1947, while heading the Bureau of Electromagnetic Design of the Spetsial'nyy konstruktorskiy byuro (Special Construction Bureau) he has been one of the main designers of the world's first 280 MeV synchrotron. From 1955 to 1958 E. A. MAN'KIN headed the group of designers working on the 400 kV transformer equipment of the Volgograd-Donbass power line. Since 1960 he has been head of the transformer laboratory of the Vsesoyuznyy elektrotekhnicheskiy institut (All-Union Electrotechnical Institute) im. Lenin. In the same year he obtained the degree of Doctor of Engineering Sciences for his works "Electromagnetic design of transformers, reactors, and charged particle accelerators." In the course of his engineering and research activity he published more than 30 papers. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09, 20 / SUBM DATE: none

Card 2/2 BLG

L 22594-66 EWT(d)/EWP(k)/EWP(l)

ACC NR: AP6012999 SOURCE CODE: UR/0105/65/000/006/0090/0090

AUTHOR: Alekseyenko, G. V.; Borisenko, N. I.; Voyevodin, I. D.; Drozdov, N. G.; Krayz, A. G.; Man'kin, E. A.; Mayorets, A. I.; Nekrasov, A. M.; Nayashkov, I. S.; Pavlenko, A. S.; Rokotyan, S. S.; Sobolev, A. A.; Syromyatnikov, I. A.; Sapozhnikov, A. V.; Sarkisov, M. A.; Chernichkin, D. S.; Chertin, A. M.

ORG: none

TITLE: S. I. Rabinovich (on the occasion of his 60th birthday)

SOURCE: Elektrichestvo, no. 6, 1965, 90

TOPIC TAGS: electric engineering personnel, electric transformer, hydroelectric power plant

ABSTRACT: The chief specialist of transformer building of the Gosplan (State Planning Commission) USSR, Samuil Isaakovich Rabinovich was born in 1905 in the town of Borisoglebsk of the Voronezh Oblast'. From his student years at the Gosudarstvennyy elektromashinostroitel'nyy institut (State Machine-Building Institute) he already showed interest for power transformers. In the early thirties he designed the first types of domestic Soviet 110 and 220 kV transformers; in 1939 he became the chief designer of the Moskovskiy transformatornyy zavod (Moscow Transformer factory). In 1946, he conducted the design and construction of lightning-resistant transformers; during 1949-1954,

Card 1/2 UDC: 621.314(092)

L 22594-66

ACC NR: AP6012999

he headed the design of the 400 kV transformer equipment for the Volzhskaya hydroelectric power station - Moscow power line; his subsequent work on the 500 kV equipment earned him the Lenin prize. From 1960, he has been working at the Gosplan USSR. He is also a member of the editorial board of the journal Elektrichestvo (Electricity). Orig. art. has: 1 figure. [JPRS].

SUB CODE: 10, 09 / SUBM DATE: none

Card 2/2 Gal

ALEKSENKO, Gennadiy Vasil'yevich, Ashryatov Ali; SOLOMONOVICH, Frid Yefim; GEL'FERIN, B.B., red.; SKVORTSOV, P.P., red.; KRAYZ, A.I., red.; BORUNOV, N.I., tekhn. red.

[Testing of high-voltage power transformers and autotransformers] Ispytaniia vysokovol'tnykh i moshchnykh transformatorov i avtotransformatorov. Moskva, Gosenergoizdat. Pt.1. 1962. 671 p. (Transformatory, no.8) (MIRA 16:10)

(Electric transformers--Testing)

KRAYZ, B. L.

KRAYZ, B. L.: "Continuous voltage regulation in transformers by DC magnetization." Min Higher Education USSR. Moscow Order of Lenin Power Engineering Inst. imeni V. M. Molotov. Chair of Electrical Machines. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Science.)

Knizhnaya Letopis'
No 32, 1956. Moscow.

KRAYZ, B.L.

110-3-1/22

AUTHORS: Petrov, G.N., Doctor of Technical Sciences, Professor, Ckyn', S.S., Candidate of Technical Sciences and Krayz, B.L., Engineer.

TITLE: Smooth Contactless Voltage Regulation of Transformers Under Load (Plavnoye beskontaktnoye regulirovaniye napryazheniya transformatora pod nagruzkoy)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, Vol.29, No.3, pp.1-8 (USSR)

ABSTRACT: Until now, smooth voltage regulation by means of transformers has not been satisfactorily achieved and published, theoretical work is incomplete. The authors, therefore, developed a more accurate theory for one such type of transformer, a schematic circuit diagram of which is given in Fig.1. The transformer has two cores, magnetically independent; both may receive auxiliary d.c. magnetisation from windings with different numbers of turns. The two parts of the d.c. magnetising winding are so connected that the total a.c. e.m.f. acting on the windings is zero. The primary and secondary windings on the two cores are in series and have different transformation ratios. Hence, if the primary voltage is maintained constant and the auxiliary magnetisation is varied, the output voltage is altered. The article examines the analytical relationships

Card1/4

that govern this process of voltage regulation. The main equations of the regulated transformer are first derived. A vector diagram is then constructed in Fig. 2 and discussed. When the secondary power-factor is other than unity, the vector diagram is constructed by first finding the relative orientation of the vectors of primary voltage and current. This may be done graphically and gives the vector diagram seen in Fig.3. The degree of regulation at no-load and the transformation ratios of the two transformers are related in Fig.4, and the relationship between the secondary voltage and auxiliary magnetisation is given for two cases in Fig.5. These equations and vector diagrams permit of an analysis of the working process of the transformer which is sufficiently accurate for practical purposes and explain the influence of the main parameters of the transformer on the limits of regulation.

Tests were made on a model regulated transformer to verify the main theoretical relationships established in the article. The two cores were represented by two identical core-type transformers having transformation ratios 1.6 and 3.2. The transformer voltage was regulated by d.c. magnetisation of the core;

the power required was less than 1% of the power transformed. The tests under no-load conditions, the results of which are given in Fig.6, demonstrated the good regulation of the transformer. Regulation of the secondary voltage by d.c. auxiliary magnetisation can cause a great increase in the auxiliary magnetising current. To change the secondary voltage by 47%, the no-load current was increased by a factor of 4. Non-magnetic gaps in the magnetic circuits of the transformers are sometimes advisable to prevent the increase in magnetising current from saturating the cores. The external characteristic, the relationship between the secondary voltage and current at unity power-factor is plotted in Fig.7. Tests were made with and without auxiliary magnetisation. The load tests confirmed that if the transformer parameters are suitably chosen its external characteristic is reasonably flat and the limits of secondary voltage regulation are much the same both with and without load with unity power-factor on the secondary.

The test data were used to construct vector diagrams both with and without auxiliary magnetisation, as in Fig.8. These diagrams qualitatively confirm the special features of secondary voltage regulation and the correctness of the vector diagram

Smooth Contactless Voltage Regulation (Cont.) 110-3-1/22

given in Fig.2. Some numerical deviation of the experimental vector diagram from the theoretical are due to magnetic losses in the cores and the presence of resistance and inductance in the primary and secondary windings, etc. A special feature of this method of voltage control is the possibility of generating higher harmonics in the voltage curves of both cores with sinusoidal primary voltage. However, if the degree of saturation of the cores is correctly chosen, this effect is small. By way of example, Fig. 9 gives secondary voltage oscillograms with auxiliary magnetisation. It is concluded that conditions will be most favourable to the use of these transformers when the degree of voltage regulation is not greater than 1.5:1. Although the article considers only the simplest regulated transformer, other arrangements, such as autotransformer connections, are possible. An advantage of this method of voltage regulation is its relatively high speed and also the possibility of easily making voltage control automatic. An appendix gives design procedure. There are 9 figures and 1 American, 1 German and 1 Russian reference.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Institute)
SUBMITTED: October 14, 1957
AVAILABLE: Library of Congress
Card 4/4
1. Transformers 2. Voltage-Stablization 3. Mathematical analysis

KRAYZ, I. YA.

GAPANOVICH, N.S.; KRAYZ, I.Ya.; KEVA, L.P.; ROKHLENKO, M.A.

[Materials for the operation and repair of automobiles] Materialy dlia ekspluatatsii i remonta avtomobilei. Kiev, Gos.nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry [Ukr.otd-nie] 1953. 292 p. (MLRA 7:6)
(Automobiles--Repairing) (Automobiles--Apparatus and supplies)

KRAYZ, I.

Leading drivers of the Kiev Motor Bus Park. Avt. transp. 32 no.1: 37 Ja '54. (MLRA 7:8)
(Automobile drivers)

KHAYZ, I., inzhener; ENDEL'MAN, I.

Mobile supply station for compressed gas. Avt.transp. 34 no.4: 14-16 Ap '56. (MLRA 9:8)
(Ukraine--Service stations)

KRAYZ, I., inzhener.

Efficient organization of intercity automotive transportation.
Avt. transp. 34 no.12:5-6 D '56. (MLRA 10:2)

(Transportation, Automotive)

KRAYZEL', S.Ye., inzh.; KIGEL', L.S., inzh.; LAYKOVSKIY, E.E.

Water heating PTVM-20 boiler operating on gas and fuel oil.
Prom.energ. 19 no. 2 28-30 F '64. (MIRA 17:5)

[illegible], L.

[illegible]

Ob [illegible]ichyeskom [illegible] [illegible] Mashinostroitel'nom [illegible], [illegible], [illegible],
19[illegible], No [illegible], STR. [illegible]-1[illegible]
15. [illegible]

SO: LETOPIS NO. 38

KRAYZELBURD, L.P.

KADYROV, I.G;KRAYZELBURD, L.P.

Surgical technic in traumatic hydronephrosis. Sovet. med. no.8:26-28 Aug. 1950. (CLML 20:1)

1. Of the Faculty Surgical Clinic, Bashkir Medical Institute (Director of Clinic -- Honored Worker in Science Bashkir ASSR Prof. I. G. Kadyrov).

KHAYZEL'BURD, L.P.

Facias of muscles of lateral walls and bottom of the pelvis. Khirurgiia, Moskva no. 2:59-64 Feb 1953. (CIML 24:2)

1. Docent. 2. Of the Department of Faculty Surgery (Head -- Prof. I. G. Kadyrov), Bashkir Medical Institute.

KRAYZEL'BUKO, L.P., professor.

Rare form of an anomoly of the bladder. Khirurgiia no.9:72-73 S '53. (MLRA 6:11)

1. Iz kafedry fakul'tetskoy khirurgii Bashkirskogo meditsinskogo instituta. (Bladder)

KRAYZEL'BURD, L.P., professor.

Fascial cover of the bladder. Urologiia no.1:49-53 Ja-Mr '55
(MLRA 8:10)

1. Iz kafedry fakul'tetskoy khirurgii (zav.prof. I.G.Kadyrov) Bashkirskogo meditsinskogo instituta (Ufa)

(BLADDER, anatomy and histology, fasciae)

KRAYZEL'BURD, L.P., prof.

Expediency of draining antevesical abscesses through the ischiorectal fossa. Urologiia 23 no.6:33-35 N-D '58. (MIRA 11:12)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. I.G. Kadyrov) Bashkirskogo meditsinskogo instituta.
(PELVIS, abscess
surg., drainage through ischiorectal fossa (Rus))

KRAYZEL'BURD, L.P., prof.

Ozdilan 's operation in testicular edema. Urologiia 24 no.4:49-50 Jl-Ag '59. (MIRA 12:12)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. I.G. Kadyrov) Bashkirskogo meditsinskogo instituta.
(TESTES diseases)
(EDEMA surgery)

KRAYZEL'BURD, L.P., prof.

New sanatorim for patients with tuberculosis of the organsof the urogenial system. Urologiia 27 no.4:27-[illegible] Jl-Ag '62. (MIRA 15:11)

1. Iz Ural'skogo zonal'nogo upravleniye spetsial'nykh sanatoriyev (nach. I.A. Dayneko) Ministerstva zdravookhraneiya RSFSR.
(GENITOURINARY ORGANS—TUBERCULOSIS)
(TUBERCULOSIS—HOSPITALS AND SANATORIUMS)

KRAYZEL'BURD, L.P., prof. (Ufa)

Concerning M.M.Chausovskaia's article "Excretion of Mycobacterium tuberculosis by the kidneys." Urologiia 28 no. 3:64 '63.
(MIRA 17:2)

KRAYZEL'BURD, P.

Completed cycle. Mast.ugl. 8 no.2:11 F '59.
(MIRA 13:4)
(Donets Basin--Coal mines and mining)

KRAYZEL'BURD, P.

Right way of living. Mast.ugl. 8 no.12:24 D '59.
(MIRA 13:4)

(Donets Basin--Coal miners)

KRAYZEL'MAN, A.M., inzh.

Objectives in planning and constructing pipelines in Siberia.
Stroi. truboprov. 5 no.8:5-6 Ag '60. (MIRA 13:9)
(Siberia--Pipelines)

ZAYTSEV, K.I.; KRAYZEL'MAN, A.M.

The PAU mobile motor-mounted welding unit. Biul.tekh.-ekon. inform. no.1:20-22 '62. (MIRA 15:2)
(Electric welding--Equipment and supplies)

KRAYZEL'MAN, Samuil Maiseyevich; inzhener; TIMOFEYEV, Nikolay Ivanovich; KOGAN, Grigoriy Yefimovich, inzhener; ZAHARIYEVA, K.M., vedushchiy redaktor; POLOSINA, A.S., tekhnicheskiy redaktor

[Assembling and welding main pipe lines] Montazh i svarka magistral'nykh truboprovodov. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1956. 191 p. (MLRA 9:12)
(Pipelines)

KRAYZEL'MAN, S.M., inzhener.

Over-all mechanization of the construction of main pipelines. Mekh. trud. rab. 10 no.3:26-29 Mr '56. (MLRA 9:7)
(Pipelines)

KRAYZEL'MAN, S.M., inzhener.

Development of mechanization in the laying of pipelines. Stroi. pred.neft.prom.2 no.10:11-15 O '57. (MIRA 10:10)
(Pipelines)

14(2); 28(1) SOV/95-59-6-2/12

AUTHOR: Krayzel'man, S.M., Engineer

TITLE: Mechanization of Pipe Laying Operations in the new 7-Year Plan

PERIODICAL: Stroitel'stvo truboprovodov, 1959, Nr 6, pp 4 - 7 (USSR)

ABSTRACT: Mechanization and industrialization are called upon to change radically the methods of pipeline construction, which will not only increase in amount but will be marked by installation of pipes of larger diameters and by the employment of new materials (asbestos-cement, reinforced concrete, plastics, etc.) The development of new machines is marked by 2 trends: development of general construction and transportation machinery and development of special machines for particular technological processes of pipeline construction. The article reviews the prospects of mechanization in the different branches: 1) Earth work: - It is proposed to turn out new types of excavators capable of digging trenches 2.5 m deep and 1.5 m wide, moved by 140 - 190 hp tractors; announced are also excavators E-652 and E-653 with a bucket capacity of 0.65 and 0.8 m^3; another new type of rotary excavator will be equipped with a pontoon caterpillar drive for work in marshy land.

Card 1/3 2) Welding: - Electric contact welding is at present considered the

Mechanization of Pipe Laying Operations in the New 7-Year Plan

most effective method and will be developed as far as installations for contact welding of pipes exceeding 529 mm in diameter are concerned. A table indicates the proposed welding methods which will be concentrated upon during the next 7 years. Great importance is being attached to methods of inspecting welding seams. In VNIIST different methods are being examined and developed, such as the magnetographic flaw-detector. It is also proposed to adopt the ultra-sonic method and other devices which convert the energy of gamma rays into Roentgen rays. 3) Insulation and pipe laying:- It is expected that VNIIST and SKB Gazostroymashina should develop the design of a highly productive pipe cleaning machine working at a rate of 1.5 - 2 km per shift. The 7-Year plan provides for the issue of a number of high speed cleaning machines for pipes up to 1,020 mm, also for other different types of insulating machines for various insulation materials. Special machines are being designed for

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Mechanization of Pipe Laying Operations in the New 7-Year Plan

under-water work on barges and folding pontoons. Special trucks MAZ-501, MAZ-502, YAZ-214 and semi-trailers are being developed for transportation of pipes and pipe sections. The author regrets that progress in development work and mechanization of the different processes of pipeline construction is unsatisfactory.
There is one table.

Card 3/3

ZHILINSKIY, Petr Pavlovich; KRAYZEL'MAN, S.M., red.; POLYANSKIY, O.I., vedushchiy red.; TROFIMOV, A.V., tekhn.red.

[Mobile pipe-cleaning machines] Peredvizhnye truboochistnye mashiny. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 82 p. (MIRA 14:3)
(Pipelines--Cleaning)

KOGAN, Grigoriy Yefimovich; UNIGOVSKIY, Mikhail Rakhmilovich; KRAYZEL'MAN, S.M., red.; POLYANSKIY, O.I., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Welding equipment and field installations for the welding of main pipelines] Svarochnye agregaty i polevye ustanovki dlia svarki magistral'nykh truboprovodov. Moskva, Gos. nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 64 p. (MIRA 14:4)
(Pipelines--Welding) (Welding--Equipment and supplies)

KUL'VINSKIY, Lev Vasil'yevich; KRAYZEL'MAN, S.M., red.; SVYATITSKAYA, K.P., vedushchiy red.; POLOSINA, A.S., tekhn. red.

[Pipe insulating machines and bitumen-melting units] Truboizoliatsionnye mashiny i bitumoplavil'nye ustanovki. Moskva, Gos.nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 87 p. (MIRA 14:6)
(Bituminous materials) (Pipe)

ZARENBO, L.K., kand. fiz.-mat. nauk; KARPOV, A.K., inzh.; LEGOSTAYEV, P.Ya., kand. tekhn. nauk; GRODSKIY, Yu.N., kand. tekhn. nauk; KHRENOV, N.S., inzh.; KHODANOVICH, I.Ye., kand. tekhn. nauk; BRISKMAN, A.A., kand. tekhn. nauk; GORODETSKIY, V.I., inzh.; NIKITIN, A.A., inzh.; GILL', B.V., inzh.; KRAYZEL'MAN, S.M., inzh.; DZHAFAROV, M.D., inzh.; LUNEV, A.S., kand. tekhn. nauk; NIKITENKO, Ye.A., inzh.; YERSHOV, I.M., kand. tekhn. nauk; ZAYTSEV, Yu.A., inzh.; MAGAZANIK, Ya.M., inzh.; SHAROVATOV, L.P., inzh.; RABINOVICH, Z.Ya., inzh.; BIBISHEV, A.V., inzh.; ASTAKHOV, V.A., dots.; KOMYAGIN, A.F., kand. tekhn. nauk; ANDERS, V.R., inzh.; SERGOVANTSEV, V.T., kand. tekhn. nauk, dots.; UTKIN, V.V., inzh.; KUZNETSOV, P.L., inzh.; MAMAYEV, M.A., inzh.; SVYATITSKAYA, K.P., ved. red.; FEDOTOVA, I.G., tekhn. red.

[Handbook on the transportation of combustible gases] Spravochnik po transportu goriuchikh gazov. Moskva, Gostoptekhizdat, 1962. 887 p. (MIRA 15:4)
(Gas, Natural--Transportation)

GAL'PERIN, A.I.; KRAYZEL'MAN, S.M.; POKROVSKIY, B.V.

Dynamics of raising and lowering pipelines. Stroi.truboprov. 9 no.11:11-13 N '64. (MIRA 18:2)

GAL'PERIN, Abram Isayevich, kand. tekhn. nauk; KRAYZEL'MAN, S.M., retsenzent; POKROVSKIY, V.V., retsenzent; NOVIKOVA, M.N., ved. red.

[Construction and assembly machines and mechanisms for building gas and petroleum pipelines] Montazhno-stroitel'nye mashiny i mekhanizmy dlia sooruzheniia magistral'nykh gazonefteprovodov. Moskva, Nedra, 1964. 356 p. (MIRA 17:6)

1. Glavnyy inzhener Upravleniya mekhanizatsii rabot Gosudarstvennogo proizvodstvennogo komiteta po gazovoy promyshlennosti SSSR (for Krayzel'man). 2. Glavnyy konstruktor Spetsial'nogo konstruktorskogo byuro "Gazstroymashina" (for Pokrovskiy).

SOV/137-58-8-17293

Translation from: Referativnyy zhurnal, Metallurgiya, 1958 Nr 8, p 156 (USSR)

AUTHOR: Krayzinger, F.V.

TITLE: Semiautomatic Hard Facing of Main Crane Wheels (Poluavtomaticheskaya navarka kranovykh khodovykh koles)

PERIODICAL: Mashinostroitel' 1957, Nr 10, pp 5-7

ABSTRACT: The author describes a device employed for hard facing (with flux) of the rolling surfaces and flanges of crane wheels. The device utilizes an automatic self-propelled welding unit, UT-1200. The bead weld is deposited on the surface of the wheel in a spiral pattern. The rotary velocity of the wheels is regulated in accordance with their diameters. The device is equipped with metal brushes for removal of the slag crust, a container for collection of flux and slag, and a ventilating arrangement for elimination of gases and vapors. Compared with manual hard-facing procedures employing chalk electrodes, the productivity increased by a factor of 6-8 while, at the same time, the number of operators was reduced by 80 to 85%.

Card 1/1 1. Hoists--Maintenance 2. Metals--Hardening 3. Arc welding--Applications 4. Welding machines--Performance N.T.

KRAYZINGER, F.V.

PHASE I BOOK EXPLOITATION 1045

Ural'skiy zavod tyazhelogo mashinostroyeniya, Sverdlovsk

Modernizatsiya metallorezhushchego oborudovaniya (Modernization of Metal-cutting Equipment) Moscow, Mashgiz, 1958. 117 p. (Series: Its: Sbornik statey, vyp. 8) 8,000 copies printed.

Ed.: Shishkin, Ye.I., Engineer; Tech. Ed.: Dugina, N.A.; Executive Ed. (Ural-Siberian Division, Mashgiz): Somova, T.M., Engineer.

PURPOSE: This book is intended for engineers and technicians working in the field of metal cutting.

COVERAGE: The book was written in connection with the 25th anniversary of the Uralmashzavod (Ural Heavy Machine-building Plant imeni S. Ordzhonikidze), and presents an account of experience in the field of modernization of metal-cutting machine tools. It contains articles dealing with various problems of modernization of lathes and milling machines through design alterations or substitution of individual parts or units. The author states that such modernization will improve utilization and productivity of machine tools.

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Modernization of Metal-cutting Equipment 1045

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Krayzinger, F.B., Reconditioning of Parts by Hard-Facing by Means of Electrovibratory Arc Welding 115

AVAILABLE: Library of Congress

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KRAYZINGER, F.V.

Modernizing small lathes. Sbor.st.UZTM no.8:90-101 '58.
(MIRA 11:12)

(Lathes)

S/112/59/000/014/029/085
A052/A001

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 14, p. 136, # 29547

AUTHOR: Krayzinger, F. V.

TITLE: Building-Up Parts by Electric Vibrating Arc Welding

PERIODICAL: Sb. statey. Ural'skiy z-d tyazh. mashinostr. im. S. Ordzhonikidze, 1958, No. 8, pp. 115-118

TEXT: The experience made with building-up various cylindrical surfaces (Shafts, axes, spindles) by means of vibrating arc welding is reported. Both raw and red hot parts can be built-up. The installation consists of a lathe and a head for vibrating welding. The technique of mounting the head to the cross slide of the lathe is described. Spring steel wire 1.5-2 mm in diameter or wire of 65G, 70, U7, 48 and other grades of steel is used as electrode. The wire is supplied from the electric drill of Ts-38 type. The hardness of the built-up layer is 45-60 R_c. The built-up surface is machined with a polishing wheel. The feed speed of the wire is 16 mm/sec. The rotative speed (rpm) of the built-up part is determined by the formula $n = \frac{s\ 22}{b\ D}$, where b is the thickness of the built-up

Card 1/2

Building-Up Parts by Electric Vibrating Arc Welding

layer in mm, s is the feed speed of the wire in mm/sec, D is the diameter of the part and 22 is an experimentally found coefficient. The operating arc voltage is 20-25 volts, the welding current is 125-250 amp. As a power source the machine of SUG-2b or PS-300 type is used. The vibrator circuit and electric drill work on 36-volt alternating current. Prior to building up the part is cleaned of dirt. The building-up can be made in several layers 1.5-2.5 mm thick.

I. N. G

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

KRayzinger, F.V.

PHASE I BOOK EXPLOITATION SOV/3727

Rasshireniye vozmozhnostey primeneniya plastmass v konstruktsiyakh mashin (Widening the Possibilities for Using Plastics in Machinery Components) Moscow, Mashgiz, 1959. 183 p. 8,000 copies printed.

Reviewers: N.V. Popov, Engineer, and P.Z. Petukhov, Doctor of Technical Sciences; Ed.: N.I. Suslov, Engineer; Tech. Eds.: N.A. Dugina and A.F. Uvarova; Exec. Ed. (Ural-Siberian Division, Mashgiz): T.M. Somova, Engineer.

PURPOSE: The book is intended for engineers and scientists engaged in the study and manufacture of plastics and plastic machine parts.

COVERAGE: The chapters of this book were written by different authors indicated in parentheses after each chapter in the table of contents. The chapter on the use of plastics in non-Soviet countries includes data on the Škoda Works in Czechoslovakia. A number of Soviet manufacturing establishments are mentioned. Equipment using plastic parts is described and evaluated. Considerable attention is paid to nonferrous and chemical enterprises, as well as to the problem of substituting plastics for critical materials in types of equipment subjected to wear or to corrosive, abrasive and chemical influences. Brand designations, properties and uses of a number of Soviet-made plastic materials are given. It is thus a survey of modern Soviet plastic materials grouped according to their specific application in industry. The authors rely heavily upon the experience of Ural plants, especially those specializing in electrical apparatus, automotive equipment, and measuring instruments. No personalities are mentioned. There are 37 references: 31 Soviet, and 5 German.

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