

BURKHAN, S.P.; NOSEK, M.V.; DEMCHENKO, Ye.S.

Bismuth cementation by the amalgams of various metals.
Zhur. prikl. khim. 37 no.9:1930-1936 S 164.

(MIRA 17:10)

SOV/94-58-12-8/19

AUTHORS: Garniyer , N.N., Kalitin , V.G., and Demchenko, Z.A.

TITLE: A Combined Process of Wire Drawing and Annealing on
Wire Drawing Machines (Sovmeshcheniye protsessa
volocheniya i otzhiga na volochil'nykh mashinakh)

PERIODICAL: Promyshlennaya Energetika, 1958, Nr 12, pp 19-20 (USSR)

ABSTRACT: Copper wire is usually annealed in coils in an oven but this has numerous disadvantages. This brief note describes an annealing device that is fitted to the wire drawing machine so that the wire is annealed as it is drawn. The wire is heated by passage of alternating current at a voltage of 36 V, contact being made by two rollers, the lower of which is in a water bath in which the cooling takes place. During the time that it is being heated the wire passes through a tube which it leaves below water level, the atmosphere of steam in the tube keeps away air so that the copper is bright. Wire produced on this machine is of uniform quality and there is a considerable economy of electric power. This

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SOV/94-58-12-8/19

A Combined Process of Wire Drawing and Annealing on Wire Drawing
Machines

suggestion was awarded a second prize in an All-Union
Power Economy Competition. There is 1 figure.

Card 2/2

DEMCHENKO, Z.D.; MOLCHADSKIY, M.T.

Efficient system of sodium-ammonium zeolite softening of
water. Sakh.prom. 33 no.3:22-24 Mr '59. (MIRA 12:4)

1. Odesskiy rafinadnyy zavod.
(Water--Purification)

MURYGIN, V.Ye., assistant; DEMCHENKO, Z.I., inzh.

Methods for the processing of warm perolen interlining. Nauch.
trudy MTILP no.28:140-142 '63. (NIRA 17:11)

1. Kafedra tekhnologii shveynogo proizvodstva Moskovskogo
tekhnologicheskogo instituta legkoy promyshlennosti.

- D. V. V. V., Engineer

Mr., ZIS (-1945-)

"Building-up of Tools (by Welding)," Stanki I
Instrument, 16, No. 9, 1945

BR-52059019

L 15941-66 EWP(m)/T/EWP(t)/EWP(b) IJP(c) JD

ACC NR: AT6002270

(A)

SOURCE CODE: UR/2564/65/006/000/0350/0354

45
R+1

AUTHOR: Davydov, A.A.; Demenkov, N.M.; Lishina, L.V.; Maslov, V.N.

ORG: none

TITLE: Study of the crystallization of a germanium melt between flat plates.
(Paper presented at the Third Conference on Crystal Growing held in Moscow from 18 to 25 November, 1963.)

SOURCE: AN SSSR. Institut kristallografi. Rost kristallov, v. 6, 1965, 350-354

TOPIC TAGS: crystallization, germanium, silicon alloy, germanium alloy, germanium single crystal

ABSTRACT: The aim of the study was to determine the factors affecting the formation of germanium single crystals, the perfection of their structure, and the crystallographic orientation during crystallization of drops of melt between flat crystallization plates made of various materials. When quartz and then graphite plates were used, the instant of crystallization of supercooled drops of the germanium melt could be observed by the glow emitted as a result of the latent heat of crystallization. The yield of single crystals was affected by the following factors: plate material, furnace atmosphere, temperature
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ACC NR: AT6002270

conditions of melting, and degree of alloying of the melt. All the polycrystalline samples obtained are divided into three groups: polysynthetic twins, polycrystals with many nuclei, and a combination of these two, i. e., a mixed type of polycrystals. The crystallographic orientation was determined by x-ray and microoptical methods, and the dislocation density was measured. Crystallization between flat plates was also used to prepare a germanium-silicon alloy containing 5 at. % Si, which was shown to be homogeneous. This is explained by crystallization conditions involving a high linear rate, which minimizes the segregation of silicon. Orig. art. has: 6 figures.

SUB CODE: 20 / SUBM DATE: none / OTH REF: 003

FW
Card 2/2

LITVINOVA, V.B.; LITVINOV, A.B.; DEMCHENKOV, P.A.; NEPENIN, Yu.N.

Production of a high-grade refined pulp by the sulfite-sulfate
process. Bum. prom. 33 no.12:4-8 D '58. (MIRA 11:12)

L.Lesotekhnicheskaya akademiya imeni S.M. Kirova.
(Woodpulp)

DEMCHENKOV, P. A., Candidate Tech Sci (diss) -- "Sulfite cooking with by-pass and repeated use of spent alkalis". Leningrad, 1959. 9 pp (Min Higher Educ USSR, Leningrad Order of Lenin Forestry Engineering Acad im S. M.Kirov), 150 copies (KL, No 25, 1959, 133)

NEPENIN, Yu.N.; DEMCHENKOV, P.A.

Chemical changes in the liquor and the waste pulp in the preparation of sulfite pulp. Zhur. prikl. khim. 34 no.5:1143-1146
My '61. (MIRA 16:8)

1. Lesotekhnicheskaya akademiya imeni S.M. Kirova.
(Sulfite liquor) (Woodpulp)

NEPENIN, Yu.N.; DEMCHENKOV, P.A.

Production of cellulose with sulfite acid containing as bases a
mixture of sodium bisulfite and sulfate. Zhur.prikl.khim. 34 no.7:
1597-1601 JI '61. (MIRA 14:7)

1. Lesotekhnicheskaya akademiya imeni S.M.Kirova.
(Woodpulp) (Sodium sulfite) (Sodium sulfate)

IVANOV, S.N.; DEMCHENKOV, P.A.

Modified types of starch used in paper production. Bum. prom. 36
no.7:9-12 J1 '61. (MIRA 14:9)

1. Leningradskaya ordena Lenina lesotekhnicheskaya akademiya im.
S.M.Kirova.

(Paper industry) (Starch)

NEPENIN, Yu. N.; DEMCHENKOV, P. A.; PAZHKHINA, G. A.

Production of highly refined pulp by means of the sulfite-sulfate cooking process. Trudy VNIIB no.47:38-49 '61.
(MIRA 16:1)

(Woodpulp)

DEMCHENKOV, V.

Unnecessary expenditures. Fin. SSSR 23 no.8:57-58 Ag '62.
(MIRA 15:8)
(Leningrad Province--Public institutions--Finance)

DEMCHEV, I.

AID P - 2208

Subject : USSR/Aerodynamics
Card 1/1 Pub. 135 - 9/18
Authors : Kazachuk, N., Eng. Col. and Demchev, I., Lt. Col.
Title : The use of the photo machine gun in air gunnery training
Periodical : Vest. vozd. flota, 6, 48-50, Je 1955
Abstract : The authors discuss the organization of air gunnery training and give some examples of training in units. Names are mentioned.
Institution : None
Submitted : No date

L 46275-66 EWT(d)/FSS-2/EWT(m)/EWP(h)

ACC NR: AP6009318

SOURCE CODE: UR/0256/65/000/009/0037/0041

AUTHOR: Demchev, I. R. (Colonel); Zakrevskiy, P. P. (Colonel)

ORG: None

57
B

TITLE: Effect of time factor on interception of air targets

SOURCE: Vestnik protivovozdushnoy oborony, no. 9, 1965, 37-41

TOPIC TAGS: air defense tactic, air to air attack, interceptor aircraft, jet fighter aircraft, supersonic aircraft

ABSTRACT: The art of operating fighter aircraft in an air defense system is discussed from the standpoint of using supersonic fighter airplanes for interception of targets also flying at supersonic speed. The effect of high speed and a short time on the development of a defensive operation is considered and the tactical maneuvering in defending a target area is outlined. The line of interception is defined and its location with respect to the target area and the airfield is graphically illustrated. Then, the distance from the airfield to the interception line is formulated by taking into account the approach of the flying target, the time needed for defensive operation and the speeds of the fighter and of the flying target. The importance of time factors for the success of interception under present conditions is stressed. Some practical examples are presented and compared with the conditions that existed at the end of the Second World War. It is stressed that under present conditions, a high standard of proficiency and an efficient coordination of actions must be demonstrated by all members of antiaircraft defense groups.

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ACC NR: AP6009318

The pilots and other members involved in accomplishment of the interception mission must be well trained in coordinating elements assigned to each individual operating function. In this connection, a notion of optimal combat interception time is introduced and its determination is discussed for attacking conditions shown in a diagram. The time to be determined covers the identification of the flying target, the correction of initial direction error, aiming at the target and the firing of rocket missiles. The visual and radar identification procedure is explained and an estimated average time of 15 to 20 seconds is mentioned. A formula for calculating the time needed for correction of direction error is derived by using the ratio between the azimuth angle and the fighter angular velocity. It is estimated that the time needed for aiming at the target does not exceed 10 to 15 seconds. The time needed for firing depends upon the number and types of missiles to be fired. The selection of a proper firing range is briefly discussed. Orig. art. has: 2 diagrams and 2 photos.

SUB CODE: 01, 15/ SUBM DATE: None

Card 2/2 mt

DEMCHEV, V.

Fluorescent lighting. Un.tekh. 4 no.4:75-78 Ap '60.

(MIRA 13:9)

(Fluorescent lighting)

DEMCHEV, V.I., inzh.; MARKIZOVA, G.B., inzh.

Present state of home lighting abroad. Svetotekhnika 4 no. 7:29-
32 J1 '58. (MIRA 11:7)

(Electric lighting)

DEMCHEV, Vladimir Ivanovich; TSAR'KOV, Vladimir Mikhaylovich;
ASHKENAZI, G.I., red.; LARIONOV, G.Ye., tekhn. red.

[Floodlighting systems] Prozhektornoe osveshchenie. Moskva, Gosenergoizdat, 1962. 60 p. (Biblioteka elektromontera, no.61) (MIRA 15:7)
(Electric lighting)

AYZENBERG, Yu.B.; GOREACHEV, N.V.; GOREV, Z.M.; DEMCHEV, V.I.;
YEFIMKINA, V.F.; IVANOVA, N.S.; KOMISSAROV, V.D.; MARKIZOVA, G.B.;
MESHKOV, V.V.; OSTROVSKIY, M.A.; RATNER, Ye.S.; SHEFTEL', Ye.B.;
YUROV, S.G.

Nikolai Nikolaevich Ermolinski; obituary. Svetotekhnika 8
no.12:28 D '62. (MIRA 16:1)
(Ermolinski, Nikolai Nikolaevich, 1894-1962)

AYZENBERG, Yu.B., inzh.; GUNCHEV, A.V., inzh.; DEMCHEV, V.I., inzh.;
SVENTITSKIY, I.I., kand. tekhn. nauk

New irradiation apparatus and units for agriculture. Mekh. i
elek. sots. sel'khoz. 21 no.1:36-38 '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy svetotekhnicheskiy
institut (for Ayzenberg, Gunchev, Demchev). 2. Vsesoyuznyy
nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo
khozyaystva (for Sventitskiy).

(Infrared rays--Physiological effect)

(Ultraviolet rays--Physiological effect)

DEMCHEV, V.I., inzh.; YERSHOVA, N.I., inzh.

Lighting of farm buildings. Mekh. i elek. sots. sel'khoz.
21 no.5:62-63 '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy svetotekhnicheskii
institut.

L 56019-65

ACCESSION NR: AP5018357

UR/0311/64/000/007/0020/0025

AUTHOR: Demchev, V. I. (Engineer); Ganchev, A. V. (Engineer)

5
B

TITLE: Ultraviolet and infrared radiation devices for use in agriculture

SOURCE: Svetotekhnika, no. 7, 1964, 20-25

TOPIC TAGS: agricultural engineering, IR lamp, UV equipment, agriculture

ABSTRACT: The article describes in detail the agricultural application of 5 ultraviolet and 3 infrared lamps developed by the All-Union Scientific-Research Institute for Light Technology and the All-Union Scientific-Research Institute for the Electrification of Agriculture. However, the widespread use of such lamps is not possible because of a very limited production of the actual UV and IR radiation-producing elements. Orig. art. has 5 figures, 4 graphs, and 2 tables.

ASSOCIATION: Vsesoyuznyy svetotekhnicheskiy institut (All-Union Institute for Light Technology)

SUBMITTED: 00

ENCL: 00

SUB CODE: OP, G)

NO REF SOV: 000

OTHER: 000

JPRS

Card 1/1 CAC

VORREITH, M.; FUCHSOVA, M.; DEMCIK, K.; FUSEK, I.

Spinal cord tumors and tumors causing spinal cord compression.
Cesk. neurol. 27 no.6:372-378 N '64.

1. Patologickoanatomické oddelení UNV v Praze, (vedoucí doc.
dr. M. Vorreith CSc.) Neurochirurgická klinika fakulty všeobecného
lékařství Karlovy University v Praze (prednosta prof. dr. Z. Kunc,
I.rSc.).

DEMCHIN, N. N.

USSR/Scientific Organization

Card 1/1 Pub. 124 - 21/30

Authors : Dadykin, V. P.; Gilyarov, M. S.; Demachin, N. N.; and Solodovnikov, V. G.

Title : At the institutions of the Acad. of Sc., USSR

Periodical : Vest. AN SSSR 25/7, 105-114, Jul 1955

Abstract : General reports are presented by various institutions of the Acad. of Sc., USSR describing their activities for a certain period of time. The report by the A. A. Baykov Institute of Metallurgy explained the technical and economical advantages of adopting the vacuum casting method in metallurgy especially in ferrous metallurgy. It is pointed out that the adoption of the vacuum casting method for the manufacture of transformer and Bessemer steel will increase the quality of the products.

Institution :

Submitted :

L 37163-66 EWT(m)/ENP(w)/T/ENP(t)/MTI: LJP(b) JD/GD

ACC NR: AT6016427

(A)

SOURCE CODE: UR/0000/65/000/000/0184/0187

AUTHORS: Gur'yev, I. I.; Dzyubenko, H. I.; Denchinskaya, N. A.

38
37
41

ORG: none

TITLE: Investigation of the influence of the degree of recrystallization on the structure and properties of the alloys MA2-1 and MA8

SOURCE: AN SSSR. Institut metallurgii, Metallovedeniye legkikh splavov (Metallography of light alloys). Moscow, Izd-vo Nauka, 1965, 184-187

TOPIC TAGS: solid mechanical property, magnesium alloy/ MA2-1 magnesium alloy, MA8 magnesium alloy

ABSTRACT: The temperature intervals for the recrystallization of the alloys MA2-1 and MA8 as a function of the nature of their mechanical treatment (i.e., compression and rolling and the properties of the recrystallized alloys) were investigated. The experimental results are presented in graphs and tables (see Fig. 1). A direct relationship exists between the grain size of the alloys and their mechanical properties. It is suggested that the mechanical properties of the alloys may be controlled, within certain limits, by adjusting the alloy grain size. B. I. Ovechkin participated in the experimental work.

Card 1/2

L 37163-66

ACC NR: AT6016427

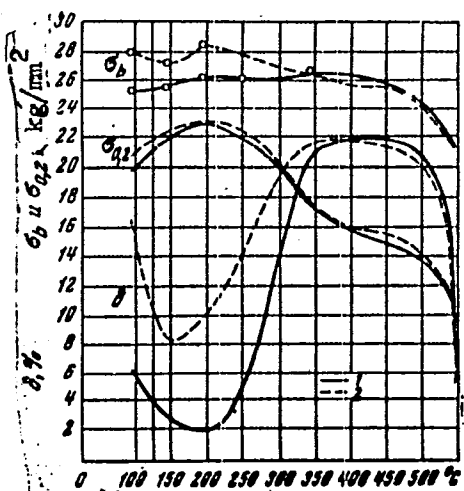


Fig. 1. Mechanical properties of sheets manufactured from alloy MA8 (cold deformation 30%, sheet thickness 1.4 mm) as a function of the annealing temperature. Specimens: 1 - longitudinal; 2 - transverse.

Orig. art. has: 1 table and 5 figures.

SUB CODE: 11/ SUBM DATE: 16Sep65

Card 2/2 af

ZELIKMAN, I.F., professor; ~~DEMCHINSKIY, F.A.~~, inzhener; ZHIGALOV, S.F.,
professor, retsenzent; P'YANKOV, G.A., inzhener, redaktor; MASLOVA,
Ye.F., redaktor; DUBOVKINA, N.A., tekhnicheskiy redaktor

[Lump sugar production] Proizvodstvo pressovannogo sakhara-rafinada.
Moskva, Pishchepromizdat, 1954. 298 p. (MLRA 8:7)
(Sugar industry)

DEMCHINSKIY, F.A.

Ways of improving sugar refining methods. Sakh.prom. 28 no.2:16-18
'54. (MLRA 7:4)

1. Glavsakhar.

(Sugar industry)

DEMCHINSKIY, F.A.

DEMCHINSKIY, F.A.

"Control of losses in sugar refining." N.I.Parfenov. Reviewed by
F.A.Demchinski. Sakh.prom. 28 no.5:46 '54. (MIRA 7:9)

1. Glavsakhar.
(Sugar industry) (Parfenov, N.I.)

DIMCHINSKIY, F.A.

What has been demonstrated by verifying the construction plans
for refined sugar factories. Sakh.prom. 29 no.4:12-15 '55.
(MLRA 8:9)

1. Glavnoye upravleniye sakharnoy promyshlennosti
(Sugar industry)

DEMCHINSKI, F.A.

GANKE, A.A.

Needed book ("Production of pressed sugar." I.F.Zelikman, F.A.
Demchinski. Reviewed by A.A.Ganke). Sakh.prom. 29 no.7:46-47
-55. (MLRA 9:1)
(Sugar industry) (Zelikman, I.F.) (Demchinski, F.A.)

DEMCHINSKIY, F. A.

Further development of sugar and raffinade production. Sakh. prom.
32 no.8:9-11 Ag '58. (MIRA 11:9)

1.Giprosakhar.
(Sugar manufacture)

DEMCHINSKIY, F.A.

Broadening exchanges of experience between related branches of
the feed industry. Sakh. prom. 33 no.1:45-46 Ja '59.

(MIRA 12:1)

1. Gosplan RSFSR.

(Feed industry)

DENCHINSKIY, F.A.

Brochure on the operating experience of the Korenovskaya Sugar
Refinery. Sakh. prom. 33 no.8:79 Ag '59. (MIRA 12:11)
(Korenovskaya--Sugar industry)

DEMCHINSKIY, Fedor Antonovich, spetsred.; KOROVIN, K.I., red.

[Experience in the designing and construction of sugar
factories in the Krasnodar Territory] Opyt proektirovaniia
i stroitel'stva sakharnykh zavodov v Krasnodarskom krae.
Moskva, 1960. 66 p. (MIRA 13:6)

1. Moscow. Vsesoyuznyy institut nauchnoy i tekhnicheskoy
informatsii.

(Krasnodar Territory--Sugar industry)

DEMCHINSKIY, F.A.

State of the equipment for the manufacture of refined sugar
and prospects for its progress in the next few years. Sakh.
prom. 34 no. 12:5-8 D '60. (MIRA 13:12)

1. Vysshiy Sovet narodnogo khozyaystva.
(Sugar industry--Equipment and supplies)

DEMCHINSKIY, F.A.

Efficiency promotion of the manufacture of refined lump sugar at the
Khutor Mikhailevskii Factory. Sakh. prom. 35 no. 5:28-29 My '61.
(MIRA 14:5)

1. Vserossiyskiy Sovet Narodnogo Khozyaystva.
(Sugar manufacture)

DEMCHINSKIY, F.A.

Construction of the Shali sugar refinery. Sakh.prom. 35 no.7:54-56
Jl '61. (MIRA 14:7)

1. Vserossiyskiy Sovet Narodnogo Khozyaystva.
(Shali—Sugar industry)

DEMCHINSKIY, F.A.

Using the experience of related industries. Sakh.prom. 35 no.7:70-
72 JI '61. (MIRA 14:7)

1. Vserossiyskiy Sovet Narodnogo Khozyaystva.
(Sugar industry—Equipment and supplies)
(Starch industry—Equipment and supplies)

GUSEV, Ye.A.; DEMCHINSKIY, F.A.

Operations of sugar refining factories. Sakh.prom. 36 no.4:11-14
Ap '62. (MIRA 15:5)

1. Moskovskiy sakharo-rafinadnyy zavod imeni Mantulina (for Gusev).
2. Vserossiyskiy sovet narodnogo khozyaystva (for Demchinskiy).
(Sugar manufacture)

ZELIKMAN, Isaak Fedorovich; DEMCHINSKIY, Fedor Antonovich; P'YANKOV,
A.G., retsenzents; GUSEV, Ye.A., retsenzents; FUKS, V.K., red.;
ZARSHCHIKOVA, L.N., tekhn. red.

[Manufacture of lump sugar] Proizvodstvo pressovannogo sakhara-
rafinada. 2., perer. i dop. izd. Moskva, Pishchepromizdat,
1962. 367 p. (MIRA 15:12)

(Sugar manufacture)

VOSTOKOV, A.I.; DEKCHINSKIY, F.A.; YEPISHIN, A.S.; KATS, V.M.;
KLEYMAN, B.M.; LEPESHKIN, I.P.; LIBKIND, L.I. [deceased];
MEL'NIK, M.K.; POPOV, N.G.; STUDENETSKIY, V.A.;
FRIDMAN, S.Ye.; SHAPIRO, A.I.; SILIN, P.M., prof.,
retsenzent; VINOGRADOV, N.V., prof., retsenzent;
PRITYKINA, L.A., red.

[Manual for a sugar worker] Spravochnik sakharnika. Mo-
skva, Pishchepromizdat. Pt.1. 1963. 699 p.
(MIRA 17:5)

DIEMCHINSKIY, N.A.

Excesses in planning and construction. Sakh.prom.30 no.2:37-40
F '56. (MIRA 9:7)

1.Glavsakhar.
(Sugar industry) (Building)

DEMCHINSKIY, N.A.

Collection of works on the exchange of advanced technical
experience. Sakh.prom.30 no.5:79-84. '56. (MIRA 9:9)
(Bibliography--Sugar industry)

~~DEMCHINSKIY, M.~~

Speed up the construction of sugar refineries. Sakh.prom. 31 no.7:1-3
J1 '57. (MLRA 10:8)

1.Gosplan RSFSR.
(Sugar industry)

~~SECRET~~

Exchange of progressive technical experience in construction.

Sakh.prom. 31 no.7:74 J1 '57.

(MLRA 10:8)

(Building)

DEMCHINSKIY, N.A.

All-Ukrainian Conference of Sugar Industry Workers. Sakh.prom.
34 no.7:78-79 J1 '60. (MIRA 13:7)
(Ukraine--Sugar industry--Congresses)

DEMCHINSKIY, N.A.

Results of the socialist competition of sugar factories in
the R.S.F.S.R. Sakh. prom. 34 no. 12:3-4 D'60. (MIRA 13:12)
(Russia--Sugar industry)

KOVALENOK, A.K.; DEMCHINSKIY, N.A.; SELYATITSKIY, V.A.

Certain problems in the re-equipment of the sugar industry of the
R.S.F.S.R. Sakh. prom. 35 no.2:6-10 F '61. (MIRA 14:3)

1. Yserossiyskiy Sovet Narodnogo Khozyaystva.
(Sugar industry—Equipment and supplies)

DEMCHINSKIY, N.A.

Results of the socialist competition of the sugar factories of the
R.S.F.S.R. for October 1960. Sakh. prom. 35 no.2:10-11 F '61.
(MIRA 14:3)

(Suagr industry—Competitions)

DEMCHINSKIY, N.A.

Results of the socialist competition of the sugar factories of the
R.S.F.S.R. for November and December 1960. Sakh.prom. 35 no.3:9
Mr '61. (MIRA 14:3)

(Sugar industry—Competitions)

DEMCHINSKIY, N.A.; IGNATENKO, N.I.

Alekseevka Sugar Factory. Sakh. prom. 37 no.4:14-17 Ap '63.
(MIRA 16:7)

(Alekseevka—Sugar factories)

DEMCHINSKIY, V.

Let's raise the training of personnel to the level of present-day objectives. Prom,koop. 13 no.10:4-5 0 '59.

(MIRA 13:2)

1. Nachal'nik upravleniya uchebnykh zavedeniy Rospromsoveta.
(Technical education)

DEMCHINSKIY, V.

Industrial workers should study. Prom.koop. 14 no.6:29
Je '60. (MIRA 13:7)

1. Nachal'nik upravleniya uchebnykh zavedeniy Rospromsoveta.
(Evening and continuation schools)

DEMCHINSKIY, V.

Study and work. *Mest.prom.i khud.promys. 2 no.10:11-12*
0 '61, (MIRA 14:11)

1. Zamestitel' nachal'nika upravleniya kadrov i uchebnykh
zavedeniy Gosmestproma RSFSR.
(Professional education)

DEMCHUK, A.

New equipment for hydraulic mining. Mast. ugl. 6 no.12:14-16
D '57. (MIRA 11:1)

1. Glavnyy inzhener Vsesoyuznogo nauchno-issledovatel'skogo i
proyektno-konstruktorskogo instituta dobychi uglya godravlicheskim
sposobom.

(Coal mining machinery)
(Hydraulic mining)

I. 04189-67 EWT(m)/EWP(w)/T/EWP(+)/ETI LJP(c) JD
ACC NR: AT6026545 (A) SOURCE CODE: UR/2776/66/000/046/0020/0029

AUTHOR: Sinel'nikov, M. I.; Babakov, A. A.; Barziy, V. K.; Demchishin, A. V.;
Laskaronskiy, E. N.; Lyublin, Ye. B.; Fel'dgandler, E. G.; Cherkashina, N. P.; Chern
yavskaya, S. G.

ORG: Central Scientific Research Institute of Ferrous Metallurgy, Moscow (Tsentral'
nyy nauchno-issledovatel'skiy institut chernoy metallurgii)

TITLE: A study of the plasticity of 1Kh21N5T (EI811) steel at high temperatures

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.
Sbornik trudov, no. 46, 1966. Spetsial'nyye stali i splavy (Special steels and
alloys), 20-29

TOPIC TAGS: stainless steel, heat treatment, ~~hot ductility~~ ^{plasticity}, metallographic examina-
tion, austenite, ferrite, temperature dependence / 1Kh21N5T steel, EI811 steel

ABSTRACT: Ten heats of EI811 steel containing 4.8-5.3% Ni and 0.25-0.53% Ti were pre-
pared in order to study the effect of temperature and ingot cementation time on phase
composition. The dependence between phase ratios and metal plasticity at high tem-
peratures was also studied. Samples were water quenched after heating at 1000, 1100,
1200, 1250 and 1300°C for 1, 2, 5 and 10 hr. Hot torsion tests were conducted at a
twist rate of 60 rpm at 900, 1000, 1100, 1200, 1250 and 1300°C after a 20 min soak.

Card 1/2

DEMCHISHIN, Ye.I.

Special features of the drying of very damp electrical machines.
Prom. energ. 18 no.10:33-34 0 '63. (MIRA 16:10)

DEMCHUK, A. I.

GNUTENKO, M.P.; PAPKOVA, L.A.; NADEZHKO, Z.A.; DEMCHUK, A.I.; YEGOROVA, S.I.

The pigment-producing *Schizosaccharomyces acidodevoratus* and measures for controlling them [with summary in English]. *Mikrobiologiya*, 26 no.2:353-359 My-Je '57. (MIRA 10:10)

1. Saratovskiy gosudarstvennyy universitet.

(FUNGI,

Schizosaccharomyces acidodevoratus, pigment-forming strains, control (Rus))

FEDOROV, P.D.; STABNIKOV, V.N.; GLYBIN, I.P.; BELYAVSKIY, V.V.; BOYCHENKO,
N.G.; BUZYKIN, N.A.; GOLOVIN, P.V.; DEMCHUK, A.P.; ZHURA, K.D.;
KORCHINSKIY, A.I.; KURILENKO, O.D.; KLIMKO, N.G.; LITVAK, I.M.;
MAL'TSEV, P.M.; NIKOLAYCHUK, I.M.; NAUMOV, A.L.; POPOV, V.D.; RED'KO,
F.A.; SKOBLO, D.I.; KHRISTENKO, M.M.; TSYGANKOV, P.S.; SHLIPCHENKO,
Z.S.; SHVETSOV, P.D.

Gleb Mikhailovich Znamenski; obituary. Sakh. prom. 31 no.12:68
D '57. (MIRA 11:1)

(Znamenski, Gleb Mikhailovich, 1901-1957)

DEMCHUK, A. P.

Effect of some oxidizing substances on the potato disease of
bread. Izv.vys.ucheb.zav.; pishch.tekh. no.6:61-65 '59.
(MIRA 13:5)

1. Kiyevskiy tekhnologicheskoy institut pishchevoy promyshlennosti.
Kafedra khlebopekarnogo proizvodstva.
(Bread--Bacteriology)

DEMCHUK, G.S.; DEMCHUK, A.P.

Determination of the physicochemical temperature depression of
molasses waste. Trudy KTIPP no.22:40-42 '60. (MIRA 14:3)
(Molasses)

DEMCHUK, A.P.

Evaluating the methods for diagnosing the bread rope. Izv. vys.
ucheb. zav.; pishch. tekhn. no.5:149-155 '61. (MIRA 15:1)

1. Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti.
Kafedra khlebopekarnogo proizvodstva.
(Bread--Microbiology)

DEMCHUK, A. P.

Disinfectants against the stimulators of the mesentericus
bacteria in bread. Izv. vys. ucheb. zav.; pishch. tekhn. no.5:
73-77 '62. (MIRA 15:10)

1. Kiyevskiy tekhnologicheskii institut pishchevoy promysh-
lennosti, kafedra khlebopekarnogo proizvodstva.

(Bread—Microbiology) (Ultraviolet rays)

L 06249-67

ACC NR: AT6021501

(A)

SOURCE CODE: UR/0000/65/000/000/0065/0073

AUTHOR: Demchuk, A.P. (Engineer)

ORG: none

8
B+1

TITLE: Effect of some technological factors on bread ropiness

SOURCE: Ukraine. Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya. Pishchevaya promyshlennost' (The food industry), no. 1, Kiev, Izd-vo Tekhnika, 1965, 65-73

TOPIC TAGS: food technology, fermentation, bacteria, ~~yeast~~, ~~microorganisms~~, ~~antimicrobials~~, ~~food contamination~~ FOOD CHEMISTRY

ABSTRACT: The effect of moisture, acidity, fermentation time, baking thoroughness, and storage temperature on bread ropiness was investigated. The experimental results show that 1) high acidity is the greatest factor in the prevention of bread ropiness, 2) the development of ropy symptoms decreases also with a decrease in bread moisture, with greater thoroughness in baking, and longer fermentation time, 3) bread stored at 16 C does not develop ropiness, and 4) the development of ropy symptoms in bread stored at 25 C can be arrested for 24-30 hrs longer than in bread stored at 37 C. Orig. art. has: 6 figures and 4 tables.

SUB CODE: 06/ SUBM DATE: 18Mar65/ ORIG REF: 003/ OTH REF: 003

Card 1/1 *egh*

Demchuk, G.S.

Determination of physical depression of sugar solutions.
G. S. Demchuk. *Trudy Kiev. Tekhnol. Inst. Pishchevol
Prom.* 1953, No. 13, 13-22; *Referat. Zhur., Khim.* 1954,
No. 47451.—Empirical formulas were derived and nomo-
grams constructed by using perfected means for detg. the
b.p. of sugar solns. M. Hosh

DEMCHUK, G.S.

Brochure on sugar manufacture. Sakh.prom. 34 no.2:78-79
F '60. (MIRA 13:5)

(Sugar manufacture)

DEMCHUK, G.S.; DEMCHUK, A.P.

Determination of the physicochemical temperature depression of
molasses waste. Trudy KTIPP no.22:40-42 '60. (MIRA 14:3)
(Molasses)

POPOV, V.D.; KONSTANTINOV, S.M.; DEMCHUK, G.S.

Results of the thermal testing of the evaporation station for
vinsasse. Trudy KTIPP no.25:9-12 '62. (MIRA 16:5)
(Evaporating appliances—Testing)

ZENKOV, Yu.I.; DENCHUK, G.M., elektromekhanik

Unit for connecting ATS-10-40 exchanges to station communication circuits. Avtom., telem. i svyaz' 8 no.11:39-40 H 1961.

(CIRA 17:12)

1. Starshiy inzh. Nizhne-Tagil'skoy distantzii Sverdlovskoy dorogi (for Zenkov).

DEMCHUK, I., general-mayor tankovykh voysk

Prepare candidates in the academy thoroughly. Voen. vest. 41
no.3:58-60 Mr '62. (MIRA 15:4)
(Russia--Army--Officers)

DE Michuk, J. A.

PLUM: Bismuthy polysulfidic acid
307/4136

Blakely, I. *Microscopy of Silicate Minerals* (Chemistry and the
Central Technology of Silicate Minerals) *Mineralogical Magazine*,
I. V. Galloway, 1960. 157 p. (Series: *Mineralogical Magazine* 27, 28)
1,000 copies printed.

Abstracts: R. A. Borchert (Rep. No.) *Academy of Sciences USSR,*
of the Division of Chemistry, Institute of Chemical Sciences of
Soviet Academy of Sciences, Moscow, U.S.S.R. 1960. 157 p. 1.
Butwood.

REMARKS: This book is intended for chemists and technicians interested in the
physicochemical properties and the production of glass.

CONTENTS: The collection contains 20 articles which give data on the synthesis
and physicochemical properties of various vitreous and some experimental
glass compositions. Some of the properties and phase diagrams of glass compositions.

19. "Rinal", I. I., and E. I. Chirgova and L. A. Demchenko. *Properties of the*
Effect of Pressure on and Aging on the Properties of Organic Matter
149

20. "Rinal", I. I., and T. I. Andriyevich and E. I. Chirgova. *Properties of*
the Effect of Additives of Organic Matter on the Properties
155

REMARKS: Library of Congress
21/40/241
9-1-60

ACCESSION NR: AP4028995

S/0126/64/017/003/0375/0378

AUTHOR: Demchuk, I. G.; Kralina, A. A.; Romanov, Ye. P.

TITLE: Growth of filamentary crystals of indium in the alloy indium-magnesium

SOURCE: Fizika metallov i metallovedeniye, vol. 17, no. 3, 1964, 375-378

TOPIC TAGS: indium, magnesium, magnesium-based alloy, indium containing alloy, filamentary crystal, crystal growth, indium oxide

ABSTRACT: In their work, the authors discovered a spontaneous growth of indium filamentary crystals in an indium-magnesium alloy. The assumption is made that these crystals do not grow out of indium oxide, but directly from the indium itself. An extremely unique growth process of indium filament crystals in indium-magnesium alloy is described. The speed of growth and the phase composition of the obtained crystals are determined. The following conclusions are drawn from the described experimental data and the absence of filamentary crystal growth in a vacuum: 1) the growth of the small crystals from the solid phase on the free surface is characterized by the cultivation of material by a diffusion method; 2) the intense growth of filamentary crystals in the case of crack formations is caused by the stresses of the arising and expanding crack. The increase of material occurs from the base of

Card 1/2

ACCESSION NR: AP4028995

the filament. The greatest creep effect should be observed for wires with small cross section stressed along the axis. Orig. art. has: 3 figures

ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of the Physics of Metals, AN SSSR)

SUBMITTED: 30Jly63

DATE ACQ: 27Apr64

ENCL: 00

SUB CODE: PH

NO REF SOV: 001

OTHER: 003

Card 2/2

PHASE I BOOK EXPLOITATION 1089

Popilov, L.Ya., Demchuk, I.S., Bogorad, I.Ya., Bogorad, L.Ya.,
Kaznachev, B.Ya., Belyayev, G.S., Askinazi, B.M., Zaytseva, L.P.,
Dyatchenko, A.P.

Elektrotekhnologiya (Electrical Methods of Processing Materials)
[Leningrad] Sudpromgiz, 1952. 377 p. 5,000 copies printed.

Resp. Ed.: Slonimskiy, V.I.; Ed.: Lachininskaya, O.V.; Tech. Ed.:
Frumkin, P.S.

PURPOSE: This book is intended as a practical guide for engineering
and technical personnel of industrial establishments and for workers in
design and planning organizations and scientific-research institu-
tes. It may also be useful to students of vuzes and tekhnikums.

COVERAGE: The book explains the technology of processing and finish-
ing metals and materials by electrical methods. No personalities
are mentioned. There are 46 references, all Soviet.

Card 1/8

Electrical Methods (Cont.) 1089

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Card 8/8

JP/sfm
2-5-59

KOVRYZHKIN, V.F., inzhener; DEMCHUK, I.S., inzhener.

Deposition of nonferrous metals and alloys on steel by means of
high-frequency currents. Sudstroenie 22 no.1:16-19 Ja '56.
(Electroplating) (Metal cladding) (MIRA 9:7)

DEMCHUK, I.S., inventor.

Bending pipes and rolled shapes by using induction heating.
Sudostroenie 22 no.4:26-29 Ap '56. (MLRA 9:9)
(Bending machines) (Induction heating)

~~DEMCHUK~~ I.S., inzhener; ABRANOVICH, V.R., inzhener.

Welding suction heads to copper tubes with use of induction heating. Sudostroenie 23 no.7:45-47 J1 '57. (MLRA 10:8)
(Marine pipe fitting) (Tube--Welding) (Induction heating)

SOV/137-59-3-6886

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 281 (USSR)

AUTHOR: Demchuk, I. S.

TITLE: Expanding the Fields of Application of HF Induction Heating (Rasshi-
reniye oblastey primeneniya induktsionnogo nagreva TVCh)

PERIODICAL: V sb.: Elektr. i ul'trazvuk. metody obrabotki materialov.
Leningrad, Lenizdat, 1958, pp 135-149

ABSTRACT: The employment of induction heating (H) in operations of bending of pipes (P) in a stand eliminates the drawbacks which were inherent in the methods employed earlier, combines two operations (H and bending) into one, and increases the productivity of the pipe-bending operations. The employment of induction H in bending of rolled shapes (deck-beam, angle, channel, etc.) eliminates the necessity for repeated H in flame furnaces, avoids the difficulties of achieving uniform heating, prevents distortion of shape, and reduces the amount of time and labor consumed in the process. The employment of HF induction H for hard-surfacing of steel and cast-iron rings, strips, flanges, rollers, and other components with nonferrous metals and alloys results in improved quality, reduced consumption of labor and

Card 1/2

Expanding the Fields of Application of HF Induction Heating

SOV/137-59-3-6886

material, mechanization of operations, and more sanitary working conditions.

Ye. T.

Card 2/2

DEMC'NIK, I.S., inzh.

Electric heater used for thermal treatment of welded pipe joints.
Sudostroenie 24 no.3:60-62 Mr '58. (MIRA 11:4)
(Pipe, Steel) (Electrical heating)

PHASE I BOOK EXPLOITATION

SOV/5843

Demchuk, Ivan Semenovich

Ul'trazvukovaya intensifikatsiya tekhnologicheskikh protsessov (Intensification of Manufacturing Processes by Ultrasonics) Moscow, Mashgiz, 1960. 88 p.
(Series: Bibliotekha elektrotekhnologa i ul'trazvukovika, vyp. 7) 12,000 copies printed.

Ed. (Title page): L. Ya. Popilov; Ed. of Publishing House: A. I. Varkovetskaya; Tech. Ed.: O. V. Speranskaya; Managing Ed. for Literature on Machine-Building Technology (Leningrad Department, Mashgiz): Ye. P. Naumov, Engineer.

PURPOSE: This booklet is intended for technical personnel, foremen, and skilled workers.

COVERAGE: The book discusses the intensification of the following production processes by using ultrasonic vibrations: cleaning, degreasing, electrolytic coating, brazing, welding, heat treating, primary crystallization of metals and alloys, polymorphic transformation, and age hardening. Practical applications and the characteristics of equipment are presented. No personalities are mentioned. There are 35 references: 31 Soviet, 2 English, 1 French, and 1 German.

Card 2/5

RADCHENKO, Leonid Andrianovich; DEMCHUK, I.S., inzh., red.; FOMICHEV,
A.G., red. izd-va; GVIRTS, V.L., tekhn. red.

[Ultrasonic techniques in the manufacture of electronic devices;
a survey] Ul'trazvukovye metody v tekhnologii proizvodstva
elektronnykh priborov; obzor. Leningrad, 1961. 69 p.
(MIRA 15:3)

(Electronic apparatus and appliances)
(Ultrasonic waves--Industrial applications)

S/137/62/000/003/080/191
A006/A101

AUTHOR: Demchuk, I.S.

TITLE: Mechanized continuous bending and quenching of shaped rolled metal with induction heating

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 9, abstract 3D49 (V sb. "Prom. primeneniye tokov vysokoy chastoty v elektrotermii", Moscow-Leningrad, Mashgiz, 1961, 26 - 33)

TEXT: The author describes the design of a mill for the bending and quenching of shaped rolled metal with the use of induction heating, and the technological process of bending and quenching the strips. The strength properties of shaped rolled metal, quenched with the aid of induction heating, at all tempering temperatures, are higher than those of rolled metal quenched by the old technology. Induction quenching ensured the production of 100% fibrous structure of the thickened portion of a strip-bulbed section. The microstructure on the surface is sorbite, oriented along medium-acicular martensite; nearer to the core, there is sorbite, oriented along fine-acicular, and in some cases, structureless martensite. The mechanical properties are uniform along the whole length

Card 1/2

Mechanical continuous bending and
of the rolled metal.

S/137/62/000/003/080/191
A006/A101

[Abstracter's note: Complete translation]

N. Yudina

Card 2/2

DEMCHUK, Ivan Semenovich; BOGACHEV, I.F., inzh., retsenzent;
DONSKOY, A.V., nauchnyy red.; YEROMITSKAYA, Ye.Ye., red.;
CHISTYAKOVA, R.K., tekhn. red.

[Induction heating of metals in shipbuilding] Induksion-
nyy nagrev metallov v sudostroenii. Leningrad, Sudpromgiz,
1963. 129 p. (MIRA 16:6)
(Shipfitting) (Induction heating)

L 00684-66 EWP(k)/EWA(c)/EWT(1)/EWT(m)/EWP(b)/EWP(t) IJP(c) JD/HW

ACCESSION NR: AP5012579

UR/0181/65/007/005/1561/1562

AUTHOR: Demchuk, K. M.; ^{44.56}Tsidil'kovskiy, I. M.; ^{44.55}Rodionov, K. P. ^{44.55}TITLE: Transport phenomena in doped indium antimonide at high pressures

SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1561-1562

TOPIC TAGS: indium antimonide, electric conductivity, Hall constant, thermo emf, Nernst effect, pressure effect, electron mobility, optic scattering, acoustic scattering

ABSTRACT: The authors investigated the electric conductivity, the Hall effect, the thermal emf, and the transverse Nernst-Ettingshausen effect in n-InSb single crystals with $n = 2.4 \times 10^{18} \text{ cm}^{-3}$ under pressures up to 25,000 kg/cm² at 290K. The measurements were made in a Butuzov type multiplier (V. P. Butuzov et. al., Tr. Inst. kristallogr. AN SSSR v. 11, 233, 1955). The Hall constant remains practically unchanged during the entire range of temperatures, the thermal emf decreases from 80 to 70 $\mu\text{V}/\text{deg}$, the mobility (the product of the Hall effect by the electric conductivity) decreases by a factor of 2.7, and the Nernst-Ettingshausen effect decreases by a factor of 4. The observed positive sign of the Nernst-Ettingshausen effect offers evidence that the optical scattering is not the decisive mechanism,

Card 1/2

L 00684-66

ACCESSION NR: AP5012579

and that acoustic scattering is predominant. The measured quantities were also calculated theoretically, using the formulas of G. I. Guseva and I. M. Tsidil'kovskiy (FTT v. 4, 2490, 1962) under certain assumptions, and the agreement between theory and experiment was satisfactory at high pressure (within 25%) but poor at atmospheric pressure. The discrepancy is attributed to improper approximation of the dispersion. Orig. art. has: 1 figure.

ASSOCIATION: Institut fiziki metallov SO AN SSSR, Sverdlovsk (Institute of Metal Physics, SO AN SSSR)

SUBMITTED: 14Dec64

ENCL: 00

SUB CODE: 88

NR REF SOV: 003

OTHER: 003

Card 2/2

L 5327-66 EWT(1)/EWT(2)/EPF(c)/T/EWP(t)/EWP(b)/EWA(c) IJP(e)
JD/JG/GG

ACCESSION NR: AP5021108

UR/0056/65/049/002/0452/0455

AUTHORS: Sokolova, G. K.; Demchuk, K. M.; Rodionov, K. P.;
Samokhvalov, A. A.

TITLE: Influence of uniform compression on the Curie temperature of
the ferromagnetic compound EuO

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49,
no. 2, 1965, 452-455

TOPIC TAGS: second order phase transition, europium compound, Curie
point, ferromagnetism, crystal lattice structure

ABSTRACT: To investigate the effect of various factors on the ex-
change interaction in solids, and especially the dependence of the
exchange interaction on the lattice parameters, the authors inves-
tigated the dependence of the Curie temperature of the compound EuO
under uniform compression at pressures up to 12,000 atm. The method
used to determine the ferromagnetic Curie temperature of the europium
oxide was that of L. N. Tul'chinskiy (Zavodskaya laboratoriya no. 2,

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ACCESSION NR: AP5021108

232, 1960), in which the sample is placed in one of two sections of a differential measuring coil and the Curie temperature is determined from the sharp discontinuity in the induced emf when the sample is cooled. The sample together with its measuring and magnetizing coils was placed in a high-pressure chamber, with quasihydrostatic high pressure applied at liquid nitrogen-temperature by the method of Ye. S. Itskevich (PTE no. 4, 148, 1963). The method of determining the Curie point from the measurements is described. The results show that in the range of pressures up to 12,000 atm the Curie temperature of EuO increases linearly with the pressure, at a rate of $(4 \pm 1) \times 10^{-4}$ deg/atm. No permanent change in the Curie temperature was observed after the removal of the high pressure. The influence of the elastic stress on the ferromagnetic transition temperature is explained by means of the thermodynamic theory of second-order phase transitions. The dependence of the Curie temperature of EuO on changes in the lattice parameters are estimated from data on the compressibility of the paramagnetic phase of EuO at room temperature. The authors thank V. G. Bamburov and A. A. Ivakin for synthesizing

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44,53

44,55

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