

MERLICH, B.V.; DATSENKO, N.M.

Lithological control of sulfur sedimentation in the Rozdol  
deposit. Vest. L'vov. un. Ser. geol. no.2:9-16 '61. (MIRA 19:1)

MERLICH, B.V.; D.A.T. and, U.S.

Nature of the condensed and isolated one of cry, 100% crystalline  
sulfur in the Bozhov deposit. Min.spor. 18 no.2:186-194 '64.  
(MIRA 18:5)

1. Gosudarstvennyi universitet imeni Ivana Franko, Lvov.

MERLICH, B.V.; SPITKOVSKAYA, S.M.

Characteristics of the Upper Neogene igneous activity of deep  
faults in Transcarpathia. Geol.sbor. [Lvov] no.9:55-68 '65.  
(MIRA 18:12)

ROVENSKIY, I.I.; MERLIN, A.V.

Modulizing the products of the direct production of iron. Obog.rud.  
7 no.1:34-36 '62. (MIRA 15:3)

1. Mekhanobrchermet.  
(Sintering) (Powder metal processes)

GRIGOR'YEV, N.N., inzh.; DROZHILOV, L.A., inzh.; MERLIN, A.V., inzh.

Sinter cooling in basin coolers. Stal' 23 no.5:385-388 My  
'63. (MIRA 16:5)

(Sintering)

MERLIN A. Ye.

Defects in refractories of magnesite, silica, and grog.  
A. R. MERLIN. *Trudy Nauchnoisskikh i Inzhenernykh Ma-  
terialov*, 1940, 15-18; *Khim. Refrat. Zhur*, 1940, No. 8,  
p. 93; *Chem. Abs.*, 36, 6704-05 (1942).—Defects observed  
in the performance of magnesite brick, magnesite powder,  
silica brick, etc., in steel-melting furnaces are described.

BCS MERLIN, A. Ye.

*Manufacturing Process  
Subs, Kilm, King*

44. Making the tunnel tube for the firing of rockets automatic. — A. E. MERLIN and  
R. K. DUCON (Ogarev, 16, 9, 1951). A system for automatic regulation of temp. in  
the firing zone is based on inter-connection of the thermocouple, dampers and gas  
inlet valve. The electrical circuit is shown, but the paper is not very informative.  
(18 figs.)

MERLIN, A.Ye.

Automatic safety devices for gas-fired furnaces. Gaz. prom.  
no.9:36-41 S '58. (MIRA 11:10)  
(Furnaces--Safety appliances) (Automatic control)



MERLIN, A.Ye.

Complete automatization of boiler installations. Gaz.prom.  
4 no.1:17-26 Ja '59. (MIRA 12:1)  
(Boilers) (Automatic control)

L 47357-56 EMT(1)

ACC NR: AP6030577

SOURCE CODE: UR/0413/66/000/016/0054/0055

INVENTOR: Ivanchuk, B. N.; Lipman, R. A.; Merlin, L. M.; Ruvinov, B. Ya.

ORG: none

TITLE: Controlled-frequency pulse generator.<sup>25</sup> Class 21, No. 184934

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 54-55

TOPIC TAGS: pulse generator, transistor

ABSTRACT: An Author Certificate has been issued describing a controlled-frequency pulse generator (see Fig. 1) containing an integrating RC-circuit and a slave blocking-generator in the transistor. To increase the frequency stability of output pulses, a stabilatron tube is inserted in the main transistor, connected in parallel with a charge capacitance. To increase the capacity of output pulses, a source of supplemental emf is connected to the collector transistor. Orig. art. has: 1 figure. [Translation]

[NT]

Card 1/2

UDC: 621.373.424:621.382.3

L 47357-66  
ACC NR: AP6030572

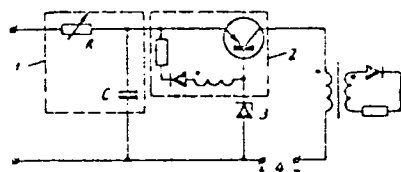


Fig. 1. Controlled-frequency pulse generator.

1—RC-circuit; 2—slave blocking generator in the transistor; 3—stabilatron tube; 4—source of supplemental emf.

SUB CODE: 10/ SUBM DATE: 02Mar65/

Card 2/2 mt

KUCHEROV, P.M.; BYKOV, L.T.; KARPUZIDI, K.S.; MERLIN, V.M.; KUNITSA, N.K.;  
KAL'YANOVA, M.L.; PARSHIN, M.I.

Experience with the prevention of tularemia during an extensive epizootic outbreak in rodents. Zhur. mikrobiol. epid. i immun. 29 no.8:3-7 Aug '58.  
(MIRA 11:10)

1. Iz Ural'skoy protivochumnyy stantsii i Rostovskogo protivochumnogo instituta.

(TULAREMIA, prevention and control,  
during extensive epizootic outbreak in rodents (Rus))

ACC NO: AP6034010 (N) SOURCE CODE: UR/0213/66/006/005/0877/0881

AUTHOR: Burnashov, V. Kh.; Dzhus, V. Ye.; Kunets, T. A.; Labeysh, V. G.;  
Mayyer, A. V.; Merlin, V. M.

ORG: none

TITLE: Visual observations of the thermocline in the sea

SOURCE: Okeanologiya, v. 6, no. 5, 1966, 877-881

TOPIC TAGS: thermocline, ~~underwater~~ <sup>Ocean current</sup> photography, underwater photography

ABSTRACT: The article analyzes the possibility of studying the nature of the thermocline using direct observations and with the aid of underwater photography. The flow is fixed by the path of dye-stuff which is formed by a releasing a weight colored with fluorescein. This method, successfully applied during a number of cruises in 1964—1965, helped the authors discover the effect of "wedging out" of the rate of flow in the thermocline, i.e., the change in the position of the dye-stuff in the flow has shown that the rate of flow decreased near the thermocline, reaching a minimum in the thermocline, and then gradually increased below the thermocline. Flow directions above and below the thermocline coincide (visual observations show a discrepancy of not more than 20°). The dyeing of waters in the flow and photographic observations of its

Card 1/2

ACC NR: AP6034010

change in space present a more accurate picture of the distribution of the rate of flow compared to other methods. Such accuracy is especially necessary in studies of hydrophysical processes taking place in the thermocline and at its boundary. Orig. art. has: 3 figures.

SUB CODE: 08/4/SUBM DATE: 23Apr66/ OTH REF: 001

Card 2/2

MERLIN, V.S.; MARTYNOV, D.Ya., otvetstvennyy redaktor; MARKOV, M.V., professor, redaktor; SHAFUGULLIN, A.G., professor, redaktor; ARBUZOV, B.A., professor, redaktor; DYUKOV, I.A., professor, redaktor; NORDEN, A.G., professor, redaktor; PISAREV, V.I., professor, redaktor; TIKHVINSKAYA, Ye. I., professor, redaktor; ABDRAKHAMANOV, M.I., dotsent, redaktor; MOROZOV, D.G., dotsent, redaktor; KHARITONOV, A.P., dotsent, redaktor; KOLOBOV, N.V., redaktor; KOLESNIKOVA, Ye.A., starshiy prepodavatel', redaktor; ROZHDESTVENSKIY, B.P., dotsent, redaktor.

[Peculiarity of conditioned reactions in the structure of a voluntary act] Svoobrazie uslovykh reaktsii v strukture volevogo akta. Kazan', 1953. 123 p. (Kazan. Universitet. Uchenye zapiski, vol.113, no.3)  
(MLRA 10:3)

1. Rektor universiteta (for Martynov); 2. Prorektor po nauchnoy rabote (for Markov); 3. Prorektor po uchebnoy rabote (for Shafugullin).
4. Sekretar' partbyuro universiteta (for Kolobov)  
(CONDITIONED RESPONSE) (WILL)

MERLIN, V. S.

USSR/Medicine - Physiology

FD 238

Card 1/1

Author : Merlin, V. S.

Title : Characteristics of conditioned cutaneous-galvanic reflex in man

Periodical : Fiziol.zhur. 2, 155-161, Mar/Apr 1954

Abstract : Conditioned cutaneous-galvanic reflex, developed by means of electrocutaneous reenforcement, was used to obtain a positive conditioned reflex to visual and acoustic stimuli, conditioned inhibition, and a delayed conditioned reflex. All types of internal inhibition fluctuate and correlation between the force of reaction and the force of stimulus becomes disrupted when electrocutaneous reenforcement alone is used; extrairritants, however, intensify reaction. Unregulated or slightly regulated verbal-kinesthetic irritant takes part in the development of the cutaneous-galvanic reflex, caused only by the electrocutaneous reenforcement: it disrupts both internal and external inhibition and alters "the law of force." Tables. Nine reference, all USSR.

Institution : Kazan' State University

Submitted : June 14, 1952



USSR / Human and Animal Physiology. The Nervous System. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41752.

Author : ~~Merlin, V. S.~~

Inst : Not Given.

Title : The Dynamics of "Transfer" of Conditioned Reflex  
Connections from One Signal to Another.

Orig Pub: Vopr. psikhologii, 1957, No 2, 53-67.

Abstract: A conditioned galvano-cutaneous reflex (CGCR) was established on verbal and motor reinforcements. Two pairs of lamps were used as conditioned signals in the first series, one pair of which (A) was reinforced, the other one (B) not. Corresponding verbal stimuli were applied in stereotypes Aa Bb or ABba. In the second series - a was reinforced instead of A. A full transfer of CGCR from the first signal system (SS) to the other and vice-

Card 1/3

143

USSR / Human and Animal Physiology. The Nervous System. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41752.

Abstract: versa - was noted in 6 experimental subjects; in 2 subjects - on transfer from the first SS to the second; in one subject - only from the second SS to the first. The transfer from one SS to the other occurred more rapidly and was stronger and more constant with the application of the stereotype AaBb, but the differentiation of A from B and a from b under these conditions was more difficult. The transfer was more difficult with the stereotype ABba, but the differentiation was more easily elaborated. CGCR occasionally occurred earlier with secondary stimulation than with the principal one. Alternating of CGCR in response to either

Card 2/3

MERLIN, V.S.

New textbook of psychology ("Psychology"; textbook for pedagogical  
institutes edited by A.A. Smirnov. Reviewed by V.S. Merlin). Vop.  
psikhol. 3 no.4:171-177 J1-Ag '57. (MLRA 10:9)  
(Psychology--Study and teaching) (Smirnov, A.A.)

MERLIN, V.S.

Method employing the galvanic skin response in testing features  
of the common type of nervous activity in man. Vop. psikhol. 4  
no.5:159-162 S-O '58. (MIRA 11:12)

1. Permskiy pedagogicheskiy institut.  
(Reflexes)

1. RILIN, V.S.

Character of the orientation and directly adapting reflexes in involuntary movement and in volitional act. Vop. psikh. 5 no. 1:12-136  
Jl-Ac '58. (MIR. 17:11)

1. Perest'no-meditsinskii institut.  
(Reflexes)

MERLIN, V.S., prof., red.; PSHENICHNOV, V.V., dots., zam. red.;  
SMIRNOV, M.I., dots., red.; PENSKAYA, A.V., kand. pednauk, red.

[Problems in the psychology of personality and the psychology  
of work] Problemy psikhologii lichnosti i psikhologii truda.  
Perm' 1960. 201 p. (MIRA 16:6)

1. Perm'. Gosudarstvennyy pedagogicheskiy institut. 2. Permskiy  
pedagogicheskiy institut (for Merlin).  
(Personality) (Psychology, Applied)

MERLIN, V.S.

Features of the cutaneous-galvanic index of the the conditioned reflex during the presence and absence of the orienting component. Zhur. vys. nerv. deiat. 10 no. 5:669-675 S-O '60. (MIRA 13:12)

1. Permskiy pedagogicheskiy institut..  
(CONDITIONED RESPONSE)

MERLIN, V.S.

What and how should one teach to the future psychology teachers.  
Vop. psikhol. 10 no.6:141-146 N-L '64.

(MIRA 18:2)

1. Permskiy pedagogicheskiy institut.



SOV/129-58-12-2/12

AUTHORS: Borzdyka, A.M., Doctor of Technical Sciences and  
Merlina, A.V., Engineer

TITLE: Heat-resistant Properties of Complex Alloyed Ferrite  
(Teploustoychivyye svoystva slozhnolegirovannogo ferrita)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 12,  
pp 10 - 16 (USSR)

ABSTRACT: The properties of alloyed ferrite have been studied so far almost exclusively at room temperature and almost no data are available on the influence of individual alloying elements on the strength and plasticity of the alloyed ferrite at elevated temperatures. A paper on this subject was published by Austin, John and Lindsay (Ref 5). The influence of some elements (Mo, W, Cr, Mn, Si, Co, Ni) on the creep resistance of ferrite at 425 °C is graphed in Figure 1. Somewhat more information is available on the influence of various hardening elements on the high-temperature resistance of steels containing 11-14% Cr (Refs 6 - 8). Since the published results relate to alloys containing about 0.1% C, they do not reflect the relations pertaining to alloyed ferrite in the pure state. The authors of this paper considered it advisable to investigate the heat-resistance properties

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SOV/129-58-12-2/12

# Heat-resistant Properties of Complex Alloyed Ferrite

of complex alloyed ferrite. The results are described which were obtained on two steels which are most characteristic as regards the ferrite structure and contain Cr, W, Mo and Nb; the composition of these steels was as follows:

|        | C      | Si    | Mn    | Cr    | W     | Mo    | Nb      |
|--------|--------|-------|-------|-------|-------|-------|---------|
| KhZMV  | 0.020% | 0.08% | 0.42% | 2.80% | 0.32% | 0.38% | -       |
| KhZMVB | 0.015  | 0.30  | 0.41  | 2.71  | 0.40  | 0.45  | 0.39% . |

Both steels were smelted in a laboratory induction furnace of 30 kg capacity and forged into a square rod of 18 mm. The microstructure was investigated after heating to 750 - 1 200 °C with steps of 50 °C and various cooling speeds. Some of the obtained microphotos are reproduced in Figure 2. In Figure 3, the hardness is graphed for the investigated steels as a function of the heating temperature; in Figure 4, the change in the hardness is graphed as a function of the tempering temperature for a hardness after hardening of 255 H<sub>p</sub>. The results of the phase

analysis, entered in Table 2, indicate that the steel KhZMV contains, after hardening and tempering at 600 °C, negligible quantities of hardening elements (0.07% W and

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SOV/129-58--2-2/12

# Heat-resistant Properties of Complex Alloyed Ferrite

0.05% Mo) and these quantities are distributed approximately equally between the carbide and the inter-metallide phases. The steel K<sub>1</sub>ZMVB consists of a solid solution, an inter-metallide and a carbonitride phase. The major part of Nb (55%) goes into the intermetallide compound, 20% in the carbonitride phase and only 25% into the solid solution. The Fe and Cr are in the solid solution, the W and Mo are predominantly in the solid solution (87.3%W and 88.9%Mo). Tensile tests were carried out on specimens with an active length of 50 mm and diameter of 10 mm; thereby, the material was hardened from 1 150 -- 1 200 °C and tempered at 600 °C. It can be seen from Table 3 that the steels had a good combination of high strength and ductility; additional alloying with 0.4% Nb does not alter substantially the mechanical properties at room temperature but it reduces appreciably the impact strength at that temperature. The results of long-duration strength tests at 500 °C (up to 6 000 hours) are graphed in Figure 5. The results of creep tests at 500 °C are graphed in Figure 6. In Figure 7, the impact strength and the hardness are graphed for steels; tested at 200 °C, as a function of the

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SOV/129-58-12-2/12

# Heat-resistant Properties of Complex Alloyed Ferrite

duration of holding the specimens at 500 °C prior to the tests. The following conclusions are arrived at: the investigated complex alloyed ferritic steel possesses favourable mechanical properties at room temperature as well as at temperatures of 500 - 550 °C; as regards their high-temperature properties at 500 °C, the investigated steels are as good as certain high-temperature steels of the pearlitic class; introduction of 0.4% Nb into Cr-Mo-W steels brings about a further increase in the creep resistance and long-duration strength and this is attributed to the presence of Nb in the hardening phase; an unfavourable feature of Nb-containing ferritic steel is its slow impact strength at normal temperature and also its reduced ductility under conditions of long-duration tensile stresses at elevated temperatures, which is apparently due to the presence of Nb intermetallides.

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SOV/129-58-12-2/12  
Heat-resistant Properties of Complex Alloyed Ferrite

There are 7 figures and 5 tables and 10 references,  
9 of which are Soviet and 1 English.

ASSOCIATION:   TsNIICbM

Card 5/5

S/123/60/000/020/001/019  
A005/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1960, No 20, p. 17,  
# 109543

AUTHORS: Borzdyka, A. M., Merlina, A. V.

TITLE: An Investigation of the Thermal Brittleness of Chromium Steels

PERIODICAL: V sb.: Metallovedeniye : term. obrabotka. ("Stal'", 1958, Prilozh.).  
Moscow, 1959, pp. 136-146

TEXT: Twenty experimental melts of steels with 3, 5, and 12% Cr were investigated, which were alloyed additionally by various elements. It turned out that steels with 3 and 5% Cr are ready to thermal brittleness after extended heating at 500-560°C. Alloying steels with 3% chromium, Zr, Ti, and V, as well as steels with 3.5 and 12% Cr, W, and Cb does not eliminate their disposition to thermal brittleness. The complex alloying of chromium steels by Mo and W, as well as by Mo, W, and Cb makes them unsusceptible to thermal brittleness within the investigated temperature range, and increases simultaneously the resistance to heat. There are 14 references.

B. A. M.

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

Card 1/1

DOV/133-59-2-20/20

AUTHORS: Merlina, A.V. and Borzdyka, A.M.

TITLE: The Structural Stability and Properties of Heat Resistant Chromium Steels (Stabil'nost' struktury i svoystv teploustoychivyykh khromistykh staley)

PERIODICAL: Stal', 1959, Nr 2, pp 160-165 (USSR)

ABSTRACT: The influence of a prolonged action of high temperature and stresses (or of temperature alone) on the microstructure and the distribution of alloying elements between solid solutions and carbide phases as well as on the mechanical properties (including creep) of chromium steels was investigated. Steels containing 3, 5-6 and 12% of chromium and additionally alloyed with molybdenum, tungsten, vanadium and niobium (table 1) were studied. The investigated steels with 3% of chromium can be used for tubes operating at high pressures and temperatures up to 500°C (in particular cases in the atmosphere of hydrogen) and steels with higher chromium content may operate in strongly corrosive media. The results of analysis of the carbide phase of steels with 3% of chromium determined after hardening and annealing and after creep tests are shown in table 2, the microstructure and creep curves in.

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SOV/133-59-2-20/26

# The Structural Stability and Properties of Heat Resistant Chromium Steels

figures 1 and 2 respectively. Similar data on the carbide phase for steels containing 5-6% chromium are given in table 3 and for steels with 12% chromium in table 4. The dependence of hardness  $H_v$  and impact strength on the duration of heating of steels Kh5VF at 500°C and Kh5MVF and Kh5MVBF at 560°C are shown in figures 3 and 4 respectively. It is concluded that: 1) the retention of heat resistant properties of the chromium steels investigated, under service conditions depends on their structural stability, directly related with the thermal stability of the carbide phase and on the toughness of the solid solution. The presence of thermally stable finely dispersed and uniformly distributed vanadium carbide (in steel Kh3MVF) particularly together with niobium carbide (steel Kh3MVFB) effectively increases the stability of structure and properties; 2) a lower structural stability and insufficient heat resistance of steels with 5% chromium can be explained by the predominance in the carbide phase of chromium carbide of

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SOV/133-59-2-20/26

The Structural Stability and Properties of Heat Resistant Chromium Steels

a type  $(Cr, Fe, W, Mo)_7C_3$ , the thermal stability of which is insufficient, particularly at  $500^{\circ}C$ ; 3) in steels containing 12% of chromium the main component of the carbide phase is chromium carbide of a type  $(Cr, Fe, W, Mo)_{23}C_6$  the thermal stability of which is higher than that of carbide of the type  $Cr_7C_3$ . In this group of steels the highest stability of structure and properties has Kh12MV5F steel, the niobium content of which is completely transferred to the carbide phase with a corresponding decrease in chromium carbide. In this way a decrease in the content of chromium, tungsten and molybdenum in the solid solution of the steel is prevented. There are 4 figures, 4 tables and 5 references of which 4 are Soviet and 1 English.

ASSOCIATION: TsNIIGhM

Card 3/3

SOV/129-59-5-10/17

AUTHORS: Cand.Tech.Sci. Z.N. Petropavlovskaya; Dr.Tech.Sci  
A.M. Borzdyka; Engineer A.V. Merlina

TITLE: Relaxation Stability of High Chromium Steel  
(Relaksatsionnaya stoykost' vysokokhromistoy stali)

PERIODICAL: Metallovedeniye i Termicheskaya Obrabotka Metallov.  
1959, Nr 5, pp 45-50 + 1 plate (USSR)

ABSTRACT: The results are described of investigations of the process of relaxation of high chromium semi-ferritic steels (0.10 - 0.15% C; 10 - 12% Cr; 0.3 - 0.6% Mo) as a function of their degree of alloying and their phase state. The work hardening was effected by alloying of the base alloy with vanadium, tungsten, molybdenum, niobium and nickel. To detect as fully as possible the influence of these elements on the relaxation stability, the experimental melts were sub-divided into four groups, see Table 1. The metal was produced in a 50 kg capacity induction furnace with a basic lining from a charge consisting of chemical iron and pure ferro-alloys. The relaxation tests lasted 1500 to 4000 hours and these were carried out at 550 to 565 °C with an initial specific load of 25 to 30 kg/mm<sup>2</sup>. The relaxation stability was

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SOV/129-59-5-10/17

Relaxation Stability of High Chromium Steel

judged from the residual stress after 4000 hours. For most heats this magnitude was determined experimentally. The influence of individual alloying elements on the relaxation stability can be judged from the graphs (Figs 1-4). Table 2 gives the phase composition of the steel from the melts investigated in the experiments. The following conclusions are arrived at: 1) Additional alloying of steel, containing 0.15% C, 12% Cr, and 0.5% Mo, with vanadium (up to 0.4%), tungsten (up to 0.8%) and niobium (up to 0.8%), introduced separately or together, brings about an increase of the relaxation stability of the base alloy. From the point of view of increasing the resistance to relaxation the most effective measure is to add simultaneously all the three elements. 2) The relaxation stability of the investigated steels depends to a great extent on the quantitative ratio of the structural components (sorbite and ferrite) and also on the degree of hardening and the stability of ferrite. In order to obtain a high relaxation stability, alloying of high chromium steel should ensure a high strength of the ferrite and the highest stability of the ferrite and

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SOV/129-59-5-10/17

Relaxation Stability of High Chromium Steel

carbide phases. 3) For "fastening" components (fittings) which are required to have satisfactory relaxation properties at 565 °C, steels of the following two compositions are recommended: (1) 0.2% C; 12% Cr; 0.8% Mo; 0.3% V; 0.8% Nb; and (2) 0.2% C; 12% Cr; 0.5% Mo; 0.4% V; 0.5% W and 0.5% Nb.

Card 3/3 There are 4 figures, 2 tables and 6 references, 4 of which are Soviet and 2 English.

ASSOCIATIONS: TsNIITMASH and TsNIICHM

MERLINA, A.V.; BORZDYKA, A.M.

Structure stability and heat-resistant properties of chromium  
steels. Stal' 12 . no.2:160-165 F '59. (MIRA 12:2)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy  
metallurgii.

(Chromium steel--Thermal properties) (Metallography)

18 1150

29469

S/137/61/000/008/034/27

A060/A101

AUTHORS: Pridantsev, M. V., Merlina, A. V.

TITLE: Effect of barium and calcium upon the "tenacity" of nichromes

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 8, 1961, 22, Abstract 61.17  
("Sb. tr. Tsent. n.-i. in-t' termoy metallurgii", 1961, no. 11,  
349 - 357)

TEXT. It was established that Ba and Ca have a positive effect upon the mechanical characteristics and heat-resistance of nichromes. The characteristics of "tenacity", resistivity, temperature coefficient of electric resistance, and the mechanical characteristics were studied on wire specimens of the alloys X15H60 and X20H80 (Kh15N60 and Kh20N80) with admixtures of Ba 0.6 - 1.8, and Ca 0.2 - 0.6%. The admixtures of Ba raise the "tenacity" by a factor of 2 - 2.5 and those of Ca - by a factor of 4 - 6. The effect of Ba and Ca is related to their action as reducers raising the purity of the alloy, particularly at the grain boundaries.

V. Kishenevskiy

[Abstracter's note: Complete translation]

Card 1/1

9.2100 (1001, 1153, 1159)  
18.1150

29470  
S/137/61/000/008/035/037  
A060/A101

AUTHOR: Merlina, A. V.

TITLE: Effect of silicon and manganese upon the properties of resistor alloys grades ~~X15H60~~ and X20H80 (Kh15N60 and Kh20N80)

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 8, 1961, 22, abstract 81179 ("Sb. tr. Tsentr. n.-i. in-t chernoy metallurgii", 1960, no. 17, 358-365)

TEXT: A study was made of the influence of Si (up to 1.2%) and Mn (up to 1.5%) upon the basic operating characteristics of high-temperature resistance alloys grades Kh15N60 and Kh20N80. Measurements were carried out of the electric resistivity and its temperature coefficient in the temperatures range 20 - 1,100°C, the yield strength and  $\delta$  at room temperature, and also the "tenacity" of the alloys was estimated from the time of their exploitation up to the burn-through moment at 1,100 and 1,175°C for Kh15N60 and Kh20N80 respectively. The investigation was carried out on wire specimens 0.6 mm diameter. It was established that alloying with Si improves the mechanical characteristics and raises the resistance of both alloys, but the "tenacity" is increased only for Kh15N60. X

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29470

S/137/61/000/008/035/037

A060/A101

Effect of silicon and manganese ...

The admixture of Mn within the limits of the grade composition lowers the  $\sigma_b$  and  $\delta$  of Kh15N60, whereas the  $\sigma_b$  of Kh20N80 is raised and its  $\delta$  drops. The electrical resistance of both alloys increases as the Mn concentration is raised. The effect of Mn upon the "tenacity" was not investigated.

A. Danilin

[Abstracter's note: Complete translation]

Card 2/2



18 1150

L/A171  
S/137/61/000/018/036/037  
A060/A101

AUTHOR: Pridantsev, M. V., Merlina, A. V.

TITLE: Nichrome-aluminum alloys for electric resistors

PERIODICAL: Referativnyi zhurnal. Metallurgiya, no. 8, 1961, 22, abstract 8.1.90  
("Sb. tr. Tsent. n.-i. in-t Chernoy metallurgii", 1960, no. 17  
365-385)

NOTE: The possibility was studied of producing cheaper nichromes by replacing Ni with aluminum. An investigation of the mechanical characteristics, strength, resistance, microstructure, electrical resistance, temperature coefficient of electrical resistance of the alloys has shown that the introduction of 2% Al into alloys X15H60 and X15H40 (Kh15Ni60 and Kh15Ni40) is analogous to the increase of Ni content of these alloys by 20%. The alloy X15H60-2 (Kh15Ni60-2) is an equivalent replacement for nichrome X20H80 (Kh20Ni80) as a heating element for furnaces with operating temperature 1,175°C.

V. K. Kerevskiy

[Abstracter's note. Complete translation.]

Card 1/1

36816  
S/137/62/000/004/116/201  
A052/A101

1P.1150

AUTHORS: Borzdyka, A. M., Petropavlovskaya, Z. N., Merlina, A. V.

TITLE: Relaxation-resistant chromium steel for fasteners of steam turbines

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 53 - 54, abstract  
4I316 (V sb. "Issled. novykh zharoprochn. splavov dlya energetiki".  
Moscow, Mashgiz, 1961, 141 - 150)

TEXT: As a fastening material for steam turbines with the temperature of steam of 565 and 580°C, 20X12MB5Φ (20Kh12MVEF) Cr-steel can be used. This steel is recommended for fastening steam turbine and boiler elements made of 3M802 (EI802), 15X11Л (15Kh11Л) and other type steels. 20Kh12MVEF steel after oil hardening at 1,150°C and tempering at 680 - 700°C has a sufficiently high relaxation resistance and a long-time strength at 550 - 580°C and shows no sensitivity to notches. The residual stress value after 10,000-hour testing of ring samples of this steel at 565°C corresponds to the technical conditions for fastening materials and is equal to 10 kg/mm<sup>2</sup> at  $\sigma_0 = 30$  kg/mm<sup>2</sup> and at 580°C it amounts to 9.5 kg/mm<sup>2</sup>.

T. Rumyantseva

[Abstracter's note: Complete translation]

Card 1/1

/8.1130

39629  
S/129/62/000/007/004/008  
E193/E383

AUTHORS: Petropavlovskaya, Z.N., Candidate of Technical Sciences, Borzdyka, A.N., Doctor of Technical Sciences and Merlina, A.V., Engineer

TITLE: Properties of steel Kh12VMBFR (54.993) (Kh12VMBFR(EI993)) with a high relaxation stability

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, no. 7, 1962, 34 - 37

TEXT: The steel Kh12VMBFR (composition, %: 0.17 C, 0.34 Mn, 0.22 Si, 12.6 Cr, 0.40 Mo, 0.70 W, 0.25 V, 0.5 Nb, 0.10 Ni) has been developed as a relaxation-resistant material for service at temperatures up to 600 °C and the object of the present investigation was to study the effect of several factors on its mechanical properties. The experiments were carried out on samples of laboratory and industrial-scale melts, both with and without boron additions. No difficulties were experienced in fabricating this steel (hot forging at 1150 - 850 °C, hot rolling at 1200 - 850 °C). The optimum hardening procedure for both B-bearing and B-free specimens was holding at 1150 °C for Card 1/4

Properties of ....

S/129/62/COC/007/004/003  
E193/E383

30 min and oil-quenching. The tempering temperature was chosen from data on the effect of tempering temperature on hardness of the steels studied, after which the effect of various heat treatments, entailing tempering at 650 - 720 °C with or without subsequent ageing for 3 000 hours at 600 °C, on the mechanical properties of these steels at 20 and 565 °C was determined. Stress relaxation was studied at 550 - 600 °C on ring specimens under an initial stress of 30 or 35 kg/mm<sup>2</sup>; the suitability of various specimens for high-temperature service was assessed from results of these experiments extrapolated to t = 10 000 hours, which represents the time between major overhauls of boiler and steam-conduit plants. Finally, the stress-to-rupture of the steel at 565 and 600 °C was determined on both smooth and notched test pieces. Several conclusions were reached. X

1) Steel Kh12VMBFR has a high relaxation stability and creep resistance at 550 - 580 °C. After 10 000 hours the initial stress of 30 kg decreases to 10 - 12 kg/mm<sup>2</sup> at 565 °C and to 9 - 10 kg/mm<sup>2</sup> at 580 °C, the stress-to-rupture in 10 000 hrs

Card 2/4

Properties of ....

S/129/62/000/007/004/008  
E193/E383

at 565 °C amounting to 26 - 28 kg/mm<sup>2</sup>.

2) The best combination of mechanical properties both at room and elevated temperatures is achieved after a heat-treatment which entails oil-quenching from 1 150 °C and 3 hours tempering at 680 - 700 °C; typical values obtained after this treatment are given below:

|                      | Yield <sub>2</sub> pt.,<br>kg/mm | UTS, <sub>2</sub><br>kg/mm | Elong-<br>ation, %<br>At 20 °C | Reduction<br>in area, % | Impact strength,<br>kg/mm |
|----------------------|----------------------------------|----------------------------|--------------------------------|-------------------------|---------------------------|
| Annealing<br>1150 °C |                                  |                            |                                |                         |                           |
| Tempering<br>650 °C  | 79                               | 95                         | 14.0                           | 52.0                    | 6.0                       |
|                      |                                  |                            | At 565 °C                      |                         |                           |
| Annealing<br>1150 °C |                                  |                            |                                |                         |                           |
| Tempering<br>650 °C  | 55                               | 59                         | 16.0                           | 65.0                    | 14 .                      |

Card 3/4

Properties of ....

S/129/62/000/007/004/008  
E195/E383

3) The mechanical properties of steel Kh12VMBFR are not affected by addition of B. Prolonged (3 000 hours) ageing at 600 °C brings about a slight decrease in the strength of this steel which, however, is still above the specification limit ( $\sigma_{0.2} \geq 40 \text{ kg/mm}^2$ ).

4) Steel Kh12VMBFR can be recommended as material suitable for bolts and pins used to join or secure various parts of steam turbines and boilers made of ferritic and martensitic steels, provided that the thermal-expansion coefficients of these steels are similar. There are 4 figures and 3 tables.

ASSOCIATIONS: TsNIITMASH  
TzNIICHM

Card 4/4

L 20800-65 ENT(m)/EPF(n)-2/1/EWP(t)/EWP(b) Pu-4 ASD(f)-3/ASD(m)-3/RAEM(o)/  
IJP(c) JD/JG  
ACCESSION NR: AR4047536 S/0277/64/000/008/0013/0013

SOURCE: Ref. zh. Mashinost. mat., konstr. i raschet detal. mash.  
Otd. vykp., Abs. 8.48.81

AUTHOR: Borzdy\*ka, A. M.; Petropavlovskaya, Z. P.; Merlina, A. V. <sup>B</sup>

TITLE: The effect of alloying elements on the relaxation stability  
of high chromium steels <sup>18</sup>

CITED SOURCE: Sb. Legirovaniye staley. Kiyev, Gostekhizdat USSR,  
1963, 142-150

TOPIC TAGS: relaxation stability, relaxation, alloying, chromium  
steel, ferritic steel, vanadium, tungsten, niobium, molybdenum,  
phase composition <sup>27 27 27 27</sup>

TRANSLATION: The relaxation stability of high chromium steels of the  
semiferritic type (0.10-0.15% C, 10-12% Cr, 0.3-0.6% Mo) was studied  
as a function of their degree of alloying with V and W and of the  
phase composition. The samples were quenched in oil and subjected to  
a high annealing. Relaxation tests were carried out on 30mm annular  
samples at 550-565° for a period of 4000 hrs. Steel with 12% Cr and  
Card 1/2

L 20800-65

ACCESSION NR: AR4047536

0.5% Mo, taken as a standard, has low relaxation stability. The optimum relaxation stability is observed in semiferritic steel with 12% Cr, 0.5% Mo and 0.4% V, with an additional alloying with W within the limits of 0.3-0.5%; in this case, the C content should not exceed 0.15-0.20%. Introduction of Nb shows effective action on relaxation stability: relaxation stability increases twofold on the introduction of Nb up to 0.7% (with 0.15%C). However, the effectiveness of Nb action in raising the relaxation stability of high chromium steels depends to a great degree on the content of other alloying elements. Thus, an increase in the Mo content to 1.3% (from 0.7%) in steel with 12% Cr, 0.4% V, and 0.7% Nb leads to a decrease in relaxation stability.

SUB CODE: MM

ENCL: 00

and 2/2



L 11008-65 EWT(m)/EWA(d)/EWP(t)/EWP(b) ASD(m)-3/ASD(f)-2 JD  
 ACCESSION NR: AR4045893 S/0137/64/000/007/I065/I065

SOURCE: Ref. zh. Metallurgiya, Abs. 71407

AUTHOR: Borzdyzka, A. M.; Petropavlovskaya, Z. P.; Merlina, A. V.

TITLE: The effect of alloying elements on the relaxation stability of high chromium steels

CITED SOURCE: Sb. Legirovaniye staley. Kiyev, Gostekhnizdat USSR, 1963, 142-150

TOPIC TAGS: alloying, relaxation, high chromium steel, chromium steel, Cr, V, W, C, Mo, Nb, Nb carbide, ferritic steel, steel

TRANSLATION: The relaxation stability of high chromium steels of the semiferrite type (0.10-0.15% C, 10-12% Cr, 0.3-0.6% Mo) was studied as a function of their degree of alloying and phase state. The samples were quenched in oil and subjected to a high tempering. Relaxation tests were carried out on ring shaped Odling samples at 550-565°. The duration of the tests was 4,000 hours. Steel with 12% Cr and 0.5% Mo, taken as a base, has a low relaxation resistance.

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L 14008-65

ACCESSION NR: AR4045893

Alloying of steel with vanadium (up to 0.6%) somewhat improves its relaxation stability. Further increase in the content of V up to 1% leads to a decrease in relaxation stability; for this reason, the alloying of high chromium steels with vanadium should be limited to 0.3-0.6%. The introduction of W (up to 1%) into steel with 12% Cr, 0.5% Mo, and 0.45% V somewhat increases the relaxation stability; however, further increase in the W content increases the speed of the relaxation process. With an increase in C content, and at the same time of Mo and C, in steel with 12% Cr and 0.4% V, the nature of the effect of W is retained. Increased content of Mo from 0.3 to 0.7% in steel with 12% Cr and 0.4% V, alloyed with W (up to 1%), increases relaxation stability. An optimum relaxation stability is observed in semiferrite steel with 12% Cr, 0.5% Mo, and 0.4% V, with a supplementary alloying with W within the limits 0.3-0.5%; at the same time, the C content should not exceed 0.15-0.20%. An increase in the content of C from 0.15 up to 0.4% in steel with 12% Cr and 0.5% Mo, alloyed with V, or with W and V, leads to a martensite structure of the steel, which lowers relaxation stability. The introduction of Nb up to 0.7% (with 0.15%C) has an efficient effect on relaxation stability, which increases two fold. However, the efficiency of the

Card 2/3

L 11008-65

ACCESSION NR: AR4045893

action of Nb in raising the relaxation stability of high chromium steels depends to a high degree on the content of the other alloying elements. Thus, an increase in the content of Mo up to 1.3% (with 0.7%) in steel with 12% Cr, 0.4% V, and 0.7% Nb, leads to a decrease in relaxation stability. The increase in relaxation stability of steels with the introduction of Nb is due to the formation of stable Nb carbides, whose presence brings about a high stability of the ferrite.

SUB CODE: MM

ENCL: 00

Card 3/3

SOV/137-58-9-20244

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9 p 303 (USSR)

AUTHOR: Merlina, F.Ye.

TITLE: On a Method for Rational Analysis of Copper and Copper-zinc Ores  
From Urals Pyrite Deposits (O metodike ratsional'nogo analiza  
mednykh i medno-tsinkovykh rud kolchedannykh mestorozh  
deniy Urala)

PERIODICAL: Obogashcheniye rud, 1957, <sup>2</sup>Nr 4, pp 13-19

ABSTRACT: The results of experiments in the study of the solubility of  
chalcopyrite (I) and covellite in KCN solutions of various con-  
centrations and at various durations of treatment are adduced.  
With an increase in the concentration of KCN and duration of  
treatment the amount of chalcopyrite Cu going into solution  
increases. The graphical and analytical methods for a more  
precise determination of the contents of I and covellite, taking  
into account the solubility of I, are cited according to the result  
of rational analysis. The presence of large amounts of pyrite  
has no effect on the solubility of I in KCN. The gray copper  
ores (tennantite and tetrahedrite) are partially extracted by the  
cyanide solution. --Analysis 2. Copper-zinc ores--Analysis 3. Ore solubility

Card 1/1

POLLINGER, B., dr.; MERLING, M., dr.

Hemibulbar hemorrhage in a syphilitic patient. Anatomoclinical  
observations. Neurologia (Bucur) 10 no.2:133-137 Mr-Ap'66.

1. Lucrare efectuata in Clinica de neurologie, Iasi.

MERLINSKAYA, E.M.

The 5231-type semiautomatic machine for rough cutting of bevel  
gears with circle-arc teeth. Biul. tekhn.-ekon. inform. no.10:19-21  
'59. (MIRA 13:3)

(Gear-cutting machines)

PED', L.I.: MERLINSKIY, M.M.

Increase the efficiency of centralized dispatching. Avtom., telem. i svyaz' no.2:23-25 F '57. (MIRA 10:4)

1. Nachal'nik, tekhnicheskogo otdela slushby signalizatsii i svyazi Moskovsko-Ryazanskoy dorogi (for Ped'). 2. Starshiy inzhener tekhnicheskogo otdela Moskovsko-Ryazanskoy dorogi (for Merlinskiy).  
(Railroads--Train dispatching)

KUCHER, V.A., inzh.; MERLINSKIY, M.M., inzh.

Speeded up transportation of local freight on railroads. Zhel. dor.  
transp. 40 no.9:67-69 S '58. (MIRA 11:10)  
(Railroads--Freight)



MERLIS, N. M.

"Irreversible Catalysis and Catalytic Dehydrogenation of Hydrocarbons on Activated Charcoal," Zhur. Prikl. Khim., 22, No. 2, 1949. Gen Sci. Research Inst. of Wood-Pulp Chemistry -c1949-.

MERLIS, N. M.

MERLIS, N. M. - "Investigation of 1-phenylapocamphor and Its Isomers."  
Sub 23 May 52, Moscow Order of Lenin State U imeni M. V. Lomonosov.  
(Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moskva January-December 1952

1712-10015, 10.1.11.

6  
1-481  
1-482

Use of anionic resins for removal of substances which accompany levoglucosan from the products of thermal decomposition of cellulose. M. M. Mertis, O. P. Golova, K. M. Sahladze, and I. I. Nikolayev (N. D. Zelinskii Inst. Org. Chem., Moscow). Izest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk 1957, 880-1.—By passing the thermal decomposition product of cellulose (conditions unstated) over anionic resins AM-1 and BDE-10 all acids and phenols are removed and CO compts. are reduced in concn. by at least 85%. The concn. of levoglucosan in the ulret. rises from 74 to 88%. G. M. Kosolapoff.

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GOLOVA, O.P.; ANDRIYEVSKAYA, Ye.A.; PAKHOMOV, A.M.; MERLIS, N.M.

Transformations of cellulose at high temperatures. Report No.3:  
On formation of levoglucosan from glucose. Izv.AN SSSR.Otd.  
khim.nauk no.3:389-391 Mr '57. (MLRA 10:5)

1.Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk  
SSSR.

(Cellulose) (Levoglucosan)

AUTHORS: Golova, O. P., Merlis, N. M.,  
Volodina, Z. V. 307/62-98-9-18/26

TITLE: The Preparation of 1,6-Anhydroglucofuranose by the Vacuum  
Pyrolysis of Cellulose (Polucheniye 1,6-angidroglyuko-  
furanozy pri termoraspade tsellyulozy v vakuume)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,  
1958, Nr 9, pp 1127 - 1127 (USSR)

ABSTRACT: Continuing their study of the chemical structure of  
the solid distillate prepared by the pyrolysis of  
cellulose in vacuum, the authors found that the separating  
out a neutral material from the distillate by means  
of an anion-exchanger and the isolation of this material  
from a laevo-glucosan by crystallisation gave a syrupy  
product. The investigation of this latter showed that it  
contained 1,6-anhydroglucofuranose and did not contain any  
polymers. There are 3 references, 1 of which is Soviet.

Card 1/2

The Preparation of 1,6-Anhydroglucofuranose by the  
Vacuum Pyrolysis of Cellulose

SCV/62-50-2-18/20

ASSOCIATION: Institut lesa Akademii nauk SSSR (**Institute of Wood and  
Forestry, AS USSR**)

SUBMITTED: March 11, 1958

Card 2/2

5 (3)  
AUTHORS: Golova, O. P., Merlis, N. M., Volodina, Z. V. SOV/79-29-3-52/61

TITLE: Formation of the 1,6-Anhydroglucofuranose During the Thermal Decomposition of Cellulose in Vacuum (Polucheniye 1,6-angidroglyukofuranozy pri termoraspade tsellyulozy v vakuume)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 997-1000 (USSR)

ABSTRACT: The present paper is the continuation of the investigation of the chemical composition of the solid distillate which is obtained in the case of the thermal dissociation of cellulose in vacuum. This distillate (yield 75%) consists of 70% 1'glucosane and contains carbonyl compounds, acids, their derivatives and phenols. By the application of anionites the products admixed to 1'glucosane could be almost removed (Ref 1). After the following removal of 1'glucosane by recrystallization a syrup-like product was obtained which contained up to 72% substances which had after the hydrolysis a greater reducibility to the anhydride of glucose and a zero rotary power. In the syrup-like product dextrogyrate substances could be assumed beside 1'glucosane, i.e. polymers of 1'glucosane and its isomer, the  $\beta$ -1,6-anhydroglucofuranose. The method of D. Hurd and R. W.

Card 1/2

SOV/79-29-3-52/61  
Formation of the 1,6-Anhydroglucofuranose ~~position~~ During the Thermal Decom-  
position of Cellulose in Vacuum

Ligett which consists in the analytical separation of the mono-, di-, and trisaccharides by distillation in vacuum over their propionates was used in order to detect the presence of polymers (Ref 4). Only the monomerpropionate was found to exist. The 1,6-anhydroglucofuranose was separated in the form of its n-nitrobenzoic ester and characterized by the ultimate analysis, melting point and specific rotary power. It could be identified as the n-nitrobenzoyl derivative of the 1,6-anhydroglucofuranose. The 1,6-anhydroglucofuranose is obtained from cellulose with an approximate yield of 3% (with respect to cellulose). A scheme is suggested as to the formation mechanism of the 1,6-anhydroglucofuranose during the thermal decomposition of cellulose in vacuum. There are 7 references, 1 of which is Soviet.

ASSOCIATION: Institut lesa Akademii nauk SSSR (Forestry Institute of the Academy of Sciences, USSR)

SUBMITTED: January 24, 1958

Card 2/2



KORSHAK, V.V.; GOLOVA, O.P.; SERGEYEV, V.A.; MERLIS, N.M.; SHNEYER, R.Ya.

Polyethers of levoglucosan. Part 1: Polymerization of levoglucosan and its ethers. Vysokom.sped. 3 no.3:477-485 Mr '61.

(MIRA 74:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.  
(Glucopyranose) (Polymerization)

GOLOVA, O.P.; EPSHTEYN, Ya.V.; SERGEYEVA, V.N.; KALNIN'SH, A.I. [Kalnins, A.];  
ODINTSOV, P.N.; MAKSIMENKO, N.S.; PANASYUK, V.G.; Prinimaji  
uchastiye: MERLIS, N.M.; DURININA, L.I.; BISENIYETSE, S.K. [Biseniece, S.];  
GUNDARS, A.Yu.; FEDORCHENKO, R.I.; MINAKOVA, V.I.

New method for the complete chemical processing of plant tissues.  
Gidroliz. i lesokhim. prom. 14 no.7:4-b '61. (MIRA 14:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR (for Golova, Epshteyn, Merlis, Durinina). 2. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latvyskoy SSR (for Sergeyeva, Kalnin'sh, Odintsov, Bisenietse, Gundars). 3. Krasnodarskiy gidroliznyy zavod (for Maksimenko, Fedorchenko, Minakova). 4. Dnepropetrovskiy sel'skokhozyaystvennyy institut (for Panasyuk).

(Plant cells and tissues)  
(Botanical chemistry)

MERLIS, N.M.; VOLODINA, Z.V.; GOLOVA, O.P.

Certain derivatives of  $\beta$ -1,6-anhydroglucopyranoses. Tri-O-ethyl-  
and di-O-methyllevoglucosan. Zhur. ob. khim. 34 no.11:3819-3821  
N '64 (MIRA 18:1)

ABRAMOV, S.A., inzhener; VOROB'YEV, N.M., inzhener; GLAGOLEV, N.M., doktor  
tekhnicheskikh nauk, professor; ~~MEHLIS, P.M.~~, inzhener; MARGULIS,  
P.S., kandidat tekhnicheskikh nauk; RISKIN, I.V., inzhener;  
FUFRIYANSKIY, N.A., doktor tekhnicheskikh nauk, professor

Selecting types of diesels for projected diesel locomotives. Vest.  
TSNII MPS 16 no.2:11-18 Mr '57. (MLRA 10:4)  
(Diesel locomotives)

| 117 AND 1180 SERIES  |  |  |  |  |  |  |  |  |  | 1170 AND 1180 SERIES |  |  |  |  |  |  |  |  |  | 119 AND 1190 SERIES |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|----------------------|--|--|--|--|--|--|--|--|--|---------------------|--|--|--|--|--|--|--|--|--|
| PROCESSING AND PROPERTIES INDEX  |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| <p>CP</p> <p>7</p> <p><b>Bromoferron.</b> D. Popov and V. Merila. <i>Rhino. Farm. Prom.</i> 2, 75-8(1933).--<br/>         Bromoferron is a substitute for tincture of iodine. Its original constituents are: H<sub>2</sub>O,<br/>         EtOH, NaBr, FeCl<sub>3</sub>, Br and NH<sub>4</sub>CNS, but the exact formula is not known. Analysis of<br/>         the material is outlined. L. Nasarevich</p> |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| ASB-51A METALLURGICAL LITERATURE CLASSIFICATION  |  |  |  |  |  |  |  |  |  |                      |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| RECORD STATION   |  |  |  |  |  |  |  |  |  | RECORD STATION       |  |  |  |  |  |  |  |  |  | RECORD STATION      |  |  |  |  |  |  |  |  |  |
| 1170 AND 1180 SERIES   |  |  |  |  |  |  |  |  |  | 1170 AND 1180 SERIES |  |  |  |  |  |  |  |  |  | 119 AND 1190 SERIES |  |  |  |  |  |  |  |  |  |

17

CA

Morphine and codeine. B. A. Kiyachkina, V. M. Merly, I. M. Zaitovs and A. S. Labenskii. Russ. 53,224, May 31, 1938. Addn. to Russ. 53,168 (preceding abstract). The basic patent is modified in that morphine is extd. from the mother soln. obtained in the extrn. of opium.

ASTM-SLA METALLURGICAL LITERATURE CLASSIFICATION

REGIONAL SYMBOLISM

1930-1939

1940-1949

1950-1959

1960-1969

1970-1979

1980-1989

1990-1999

2000-2009

2010-2019

2020-2029

2030-2039

2040-2049

2050-2059

2060-2069

2070-2079

2080-2089

2090-2099

2100-2109

2110-2119

2120-2129

2130-2139

2140-2149

2150-2159

2160-2169

2170-2179

2180-2189

2190-2199

2200-2209

2210-2219

2220-2229

2230-2239

2240-2249

2250-2259

2260-2269

2270-2279

2280-2289

2290-2299

2300-2309

2310-2319

2320-2329

2330-2339

2340-2349

2350-2359

2360-2369

2370-2379

2380-2389

2390-2399

2400-2409

2410-2419

2420-2429

2430-2439

2440-2449

2450-2459

2460-2469

2470-2479

2480-2489

2490-2499

2500-2509

2510-2519

2520-2529

2530-2539

2540-2549

2550-2559

2560-2569

2570-2579

2580-2589

2590-2599

2600-2609

2610-2619

2620-2629

2630-2639

2640-2649

2650-2659

2660-2669

2670-2679

2680-2689

2690-2699

2700-2709

2710-2719

2720-2729

2730-2739

2740-2749

2750-2759

2760-2769

2770-2779

2780-2789

2790-2799

2800-2809

2810-2819

2820-2829

2830-2839

2840-2849

2850-2859

2860-2869

2870-2879

2880-2889

2890-2899

2900-2909

2910-2919

2920-2929

2930-2939

2940-2949

2950-2959

2960-2969

2970-2979

2980-2989

2990-2999

3000-3009

3010-3019

3020-3029

3030-3039

3040-3049

3050-3059

3060-3069

3070-3079

3080-3089

3090-3099

3100-3109

3110-3119

3120-3129

3130-3139

3140-3149

3150-3159

3160-3169

3170-3179

3180-3189

3190-3199

3200-3209

3210-3219

3220-3229

3230-3239

3240-3249

3250-3259

3260-3269

3270-3279

3280-3289

3290-3299

3300-3309

3310-3319

3320-3329

3330-3339

3340-3349

3350-3359

3360-3369

3370-3379

3380-3389

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MERLIS, V.M.

USSR/Chemistry - Alkaloids  
Medicine - Pharmacology

AUG 49

"The Alkaloids Salsola Richteri: V. N-Derivatives of Salsoline and Salsolidine,"  
N. F. Proskurnina, V. M. Merlis, Alkaloid Dept, All-Union Sci Res Chemicophar  
Inst imeni Ordzhonikidze, Moscow, 41 pp

"Zhur Obshch Khim" Vol XIX, No 8

Obtained following N-derivatives of salsoline and salsolidine;  
diethylaminoethylsalsolidine, diethylaminopropylsalsolidine, N-beta-hydroxyethyl-  
salsolidine, benzyl-N-beta-hydroxyethylsalsolidine, phenylurethan of N-beta-  
hydroxyethylsalsolidine, salsolidinepropanediol, nitrososalsolidine, and  
nitrososalsoline. Most interesting of these pharmacological tests shows that  
phenyluretan of N-beta-hydroxyethylsalsolidine has some anesthetic action.  
Submitted 17 Mar 47.

PA149T11



CA 10

Synthesis of the amino sulfones. IV. Preparation of  
4-nitrophenyl 2-amino-4-methyl-6-pyrimidyl sulfide and  
some of its derivatives. I. Kh. Fel'dman, V. M. Merlis,  
and Yu. M. Rozanova (All-Union Sci. Research Chem.  
Pharm. Inst., Moscow). *J. Gen. Chem. (U.S.S.R.)* 19,  
No. 9, 2113-19 (1949). See C.A. 44, 1051c. E. J. C.

C. A.

Alkaloids of *Ammodendron conollyi*. III. Structure of isoammodendrine. V. M. Meris and N. F. Proskurnina (S. Ordzhonikidze AN-Union Chem.-Pharm. Inst., Moscow). *Zhur. Obshch. Khim.* (J. Gen. Chem.) 20, 1722-8(1950); *Zh. C.A.* 44, 1119a. —Hydrogenation of isoammodendrine in dil. HCl over Adams' Pt catalyst yields a dihydro deriv., b.p. 174-85°,  $[\alpha]_D^{25}$  1°. Boiling this (9.3 g.) 6 hrs. with 13 g. KOH in 85 ml. MeOH gave dipiperidyl, isolated as monohydrate, m. 92-3°, the HCl salt does not m. 300°; treatment with HCl gave the di-Bz deriv. of dipiperidyl, m. 134-1° (from petr. ether). —Treatment of isoammodendrine with Na in hot AmOH readily gave a hygroscopic product, identical with the above dipiperidyl, and, as above, its 2-HCl salt does not m. 300°,  $[\alpha]_D^{25}$  6° (H<sub>2</sub>O), and di-Bz deriv., m. 151°, not m. 300°. Soln. of this dipiperidyl (3 g.) in 18.7 ml. H<sub>2</sub>O and 2.5 ml. AcOH and heated with 36.5 g. AgOAc 8.5 hrs. to 175-85° gave 1 g. oil, identified as  $\alpha,\beta$ -dipiperidyl, its picrate m. 151-2°, dipicrate m. 160°, methiodide m. 164-5°. Isoammodendrine warmed with PhCH<sub>2</sub>Cl in C<sub>6</sub>H<sub>6</sub> gave the benzyl deriv., oil, whose HCl salt m. 178-9°. Hence, ammodendrine and isoammodendrine have the same dipiperidyl-type skeleton, with an Ac group on one of the N positions. G. M. Kosolapoff

17

CA

Alkaloids of *Ammodendron conollyi*. III. structure  
of isommodendrine. V. M. Merits and N. F. Proskur-  
nina (S. Ordzhonikidze All-Union Chem.-Pharm. Inst.,  
Moscow). *J. Gen. Chem. U.S.S.R.* 20, 1781-6 (1950) (Engl.  
translation).—See *C.A.* 43, 1302a. R. M. S.

Chem A

10

**Alkaloids of *Salsola richteri*. VI. N-Derivatives of salsoline.** N. P. Proskurnina and V. M. Merlis. *Zhur. Obshchei Khim.* (J. Gen. Chem.) 21, 740-2 (1951); cf. C.A. 45, 3393g.—Addn. of 3 g.  $\text{CH}_2\text{O}$  and 2 g.  $\text{HCO}_2\text{H}$  to 5.65 g. *dl*-salsoline, m. 218°, yields  $\text{CO}_2$ , and heating 2.5 hrs. on a steam bath, satn. with  $\text{K}_2\text{CO}_3$ , extn. with  $\text{Et}_2\text{O}$ , and treatment of the isolated base with  $\text{HCl}$  gave the 2-Me deriv., m. 143°; *HCl* salt, m. 230-7° (from  $\text{EtOH}$ ); *HI* salt, m. 202-3°, *HBr* salt, does not m. at 300°. Similar treatment of the *d*-isomer gave the racemic *dl*-2-Me deriv. as above, instead of the expected optically active form. Methylation with  $\text{MeI}$  in  $\text{MeOH}$  gave 2-methylsalsoline-*MeI*, m. 232-4° (from  $\text{EtOH}$ ), which was inactive. Heating *d*-salsoline 5 hrs. to 175°, or refluxing 5 hrs. with 10% alc.  $\text{KOH}$  did not change its optical activity, indicating extreme resistance to racemization. G. M. Kosolapoff

1967

CP

10

Alkaloids of *Salicaria richteri* VI. V. Derivatives of  
salicoline 2. N. P. Proskurnina and A. M. Moroz  
Gen. Chem. U.S.S.R. 21, 815 (1966) (Engl. translation)  
See C.A. 45, 9540a. R M S

C/A

17

Alkaloids of *Eremosparton flaccidum*. V. M. Merlis (S. Ordzhonikidze Chem. Pharm. Inst., Moscow). *Zhur. Obshch. Khim.* (J. Gen. Chem.) 22, 347-50 (1952). — Extrn. of the green parts of the plant in ammoniacal medium with  $(CH_3Cl)_2$  and sepn. of the crude alkaloids by  $Et_2O$  and  $CHCl_3$  yielded 2 substances, totaling 0.003% of dry plant wt. One of the substances is *sphaerophysine* (cf. Rubinshtein and Men'shikov, *C.A.* 39, 2291<sup>4</sup>). Its carbonate m. 192-3°, and its benzoate m. 149-50°. The 2nd alkaloid was obtained only in minute quantities and has been tentatively identified as *isopropylvinylputrescine* (op. cit.). Its *di-HCl* salt m. 262°, and its picrate m. 180-1°. G. M. K.

MERLIS, V.M.; ROMANOVA, A.S.

Quantitative determination of methazide. Med.prom. 12 no.2:51-53  
F '58. (MIRA 11:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S.Ordzhonikidze.  
(ISONICOTINIC ACID)

MERLIS, V.M.

Analysis of formamide. Med. prom. 13 no.5:45-48 My '59. (MIRA 12:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S. Ordzhonikidze.  
(FORMAMIDE)



MERLIS, V.M.; ROMANOVA, A.S.

Analytical characteristics of 1,1'-Methylene-bis-isconicotinoyl-  
hydrazine (metazide). Khim. i med. no.14:9-12 '60. (MIRA 14:12)

1. Laboratoriya analiticheskoy khimii Vsesoyuznogo nauchno-  
issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni  
S.Otdzhonikidze.

(METAZIDE)

MERLIS, V.M.; BRAGINA, L.N.

Rapid method for determining admixtures of monoethylacetate in diethylacetate. Med. prom. SSSR 14 no.12:40-43 D '60.

(MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.  
(ACETATES)

MERLIS, V.M.; BAGREYEVA, M.R.; VESELOVSKAYA, G.G.

Determining the narcotine content in opium. Med. prcm.  
16 no.2:46-48 F '62. (HERA-15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni Ordzhonikidze.

(OPIUM)  
(NARCOTINE)

MERLIN, V.S.

Influence of an interesting task on motor and vegetative manifestations of the mobility of the nervous processes. Vop.psikhol. 7  
no.3:81-92 My-Je '61. (MIRA 14:6)

1. Permskiy pedagogicheskiy institut, kafedra psikhologii.  
(Interest (Psychology)) (Conditioned response)

MEELIS, Ye.I.

Effectiveness of the use of exercise therapy in chronic gastritis.  
Vop.kur., fizioter.i lech.fiz.kul't. 25 no.1:39-42 '60.

(MIRA 13:5)

1. Iz Abkhazskogo filiala (dir. - prof. A.L. Grigolia) Instituta  
kurortologii i fizioterapii Gruzinskoy SSR, Sukhumi.

(EXERCISE THERAPY)

(STOMACH--INFLAMMATION)

MERLIS, Ye. S.  
25815

Berezovskiye Mineral'nyye Vody I Ikh Znachenkiye Vracheb. Delo, 1948,  
No. 6, STB. 529-30.

SO: LETOPIS NO. 30, 1948

MERLJAK-LUSICKY, B., Prim., Dr.

Peroral therapy of diabetes and preliminary personal clinical experience. Med. arh., Sarajevo 10 no.6:1-14 Nov-Dec 56.

1. (Sa Hirurske klinike Medicinskog fakulteta u Sarajevu, sa prof. dr. B. Kovacevic).

(DIABETES, MELLITUS, ther.

N-sulfanilyl-N'-butyl urea (Ser))

(SULFONAMIDES, ther. use

N-sulfanilyl-N'-butyl urea in diabetes mellitus (Ser))

(UREA, ther. use

same)

MERLO, A.S.

Conference on over-all mechanization. Nauka i pered.op. v sel'khoz.  
6 no.12:45 D '56. (MLRA 10:1)  
(Farm mechanization--Congress)



MERLO, Anna Stanislavovna, nauchnyy sotrudnik; GEORGIYEVSKIY, Sergey  
Dmitriyevich, kandidat sel'skokhozyaystvennykh nauk [deceased];  
KAZACHENOK, V., redaktor; STEPANOVA, H., tekhnicheskiy redaktor

[Floriculture manual] Spravochnik tsvetovoda. Minsk, Gos.izd-vo  
BSSR, 1956. 250 p. (MIRA 9:8)

1. Botanicheskiy sad Akademii nauk BSSR (for Merlo).  
(Flowers)

MERLO, A. S., Cand Biol Sci -- (diss) "Agrobiological Basis of  
the Cult<sup>ivation</sup>~~ure~~ of Annual Floral Plants <sup>down in the ground</sup> ~~Planted~~ Under Conditions of *the*  
BSSR." Minsk, 1957. 22 pp (Inst of Biology of Acad Sci BSSR),  
100 ~~copies~~ (KL, 51-57, 92)

- 13 -

1956

USSR / Cultivated Plants. Ornamental Plants.

M-10

Abstr Jour: Ref Zhur-Biol., 1956, No 16, 73257.

Author : Merle, A. L.

Inst : Institute of Biology of Belorussian SSR.

Title : On Characteristics of Root Systems in Annual Flowering Plants Depending on the Way They Are Raised.

Orig Pub: Izv. In-ta Biol. AN BSSR, vyp. 2, 1956 (1957, 16-17).

Abstract: To explain the reasons for wilting of flowering plants raised by the seedling method, in arid periods, the root system of the snapdragon and aster were investigated. The trench method was used with quantitative samples taken by a root cut of I. H. Rakhteyenko and A. I. Akhromeyko construction. In plants raised by seedling, a tendency was found to form a taproot system, deeper penetration of the

Card 1/2

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USSR / Cultivated Plants. Ornamental Plants.

M-10

Abstr Jour: Ref Zhur-Biol., 1956, No 16, 73257.

Abstract: roots into the soil and stronger (in comparison with the mass above ground) development of the root mass than in plants raised by the seedling method. In the snapdragon, this reaction to the method raised is more strongly expressed. -- N. S. Voronin.

Card 2/2

MERLO, A.S.

Open-ground culture of Kni. lofia. Sbor. nauch. rab.

TSIS no.1:126-127 '60.

(MIRA 14:10)

(Minsk—Flameflower)

MERLO, A.S.

Rapid propagation of the Madonna Lily (*Lilium candidum* L.) in the  
White Russian S.S.R. Sbor. bot. rab. Bel. otd. VBO no.2:214-218  
'60. (MIRA 15:1)

(White Russia--Lilies)

MERLO, A.S.

Studying varieties of gladioli in White Russia. Stor. nauch.  
rab. TSBS no.2:73-93 '61. (MIRA 15:7)  
(White Russia--Gladiolus--Varieties)

MIRIO, ...

Introduction of ornamental perennials flowering in the spring.  
Bot.; 1961. bel. otd. VHO no. 5:70-77 '63. (MIRA 17:5)

MERLO, Anna Stanislavovna; RYABCHIKOV, N., red.

[Advice to floriculturists] Sovety tsvetovodam. Minsk,  
Urozhai, 1965. 210 p. 42 plates. (MIRA 19:1)



MINAYEV, F.; CHEKMELEV, F., inzh.-mekhanizator; MERLYAN, I., starshiy inzh.

New automatic stacking device with a rotating adapter. Muk.-  
elev. prom. 26 no. 12:8-10 D '60. (MIRA 13:12)

1. Direktor Brattshevskoy bazy khleboproduktov (for Minayev).  
(Grain elevators--Equipment and supplies)

SAMSONOV, Vladimir Ivanovich; YAZHEGUR, Mikhail Iosifovich;  
MERMAN, A.L., red.; SEVRYUKOV, P.A., tekhn. red.

[Kursk; a guidebook to historical and notable places]  
Kursk; putevoditel' po istoricheskim i pamiatnym mestam.  
Kursk, Kurskoe knizhnoe izd-vo, 1962. 154 p.  
(MIRA 16:10)

(Kursk--Guidebooks)

MERMAN, A.M.

CAND MED SCI

Dessertation: "X-Ray Therapy of Intestinal Fistulae Caused By Gunshot Wounds."

7 Jun 49

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SO Vecheryaya Mos'kva  
Sum 71

MERMAN, A. M.

Clinical observations during roentgenotherapy of enterofecal  
fistula of gunshot origin. Klin. med., Moskva 29 no.7:48-50  
July 1951. (CIML 21:1)

1. Moscow.