

ZHURID, O.K.; GLADKIY, I.N.; KAL'NINA, I.G.; ZHUCHENKO, V.P.

Obtain' g high-quality salt by recrystallization. Sbor. nauch.  
trud. UkrNIISol' no.7:99-102 '64 (MIRA 18:1)

BRASLAVSKIY, Iosif Moiseyevich; ZHUCHENKO, V.S., kand.ekon.nauk, dots.,  
otvetstvennyy red.; ORLIK, Ys.L., red.

[Foreign trade of capitalist countries in the first stage of  
the general crisis of capitalism] Vneshniaia trgovlia kapitalisti-  
cheskikh stran na pervom etape obshchego krizisa kapitalizma.  
[Kiev] Izd-vo Kievskogo gos. univ. im. T.G.Shevchenko, 1957. 405 p.  
(Commerce) (MIRA 11:5)

ZHUCHENKO, Vladimir Semenovich, kand. ekon. nauk, dots.;  
KIFORENKO, I.S., red.

[Criticism of the bourgeois reformist theory of the  
"Second Industrial Revolution"] Krytyka burzhuaznoi, re-  
formists'koi teorii "Druhoi promyslovoi revoliutsii."  
Kyiv, Politydav Ukrainy, 1964. 68 p. (MIRA 18:1)

1. Kafedra politicheskoy ekonomii Kiyevskogo instituta  
narodnogo khozyaystva (for Zhuchenko).

ZHUCHENKO, Z. K.

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1,  
p 25 (USSR) 15-57-1-178

AUTHORS: Abuzyarova, R. Ya., Zhuchenko, Z. K.

TITLE: Spore-Pollen Complex in the Region of Akmola  
(Sporovo-pyl'tsevoy Kompleks rayona Akmoly)

PERIODICAL: Materialy po istorii fauny i flory Kazakhstana, Vol 1,  
Alma-Ata, AN KazSSR, 1955, pp 151-158

ABSTRACT: Spores and pollens (41 types) have been separated from six collections gathered in the Bolattamskiye layers of the Indrikotherium series at the cepses of Altumbay and Akmola on the Zhilanchik River in the Turgay Depression. The article describes six types of spores formerly unknown in this region. Large amount of spores and pollens made it possible to determine the fern-alder complex with the presence of taxodium.

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Spore-Pollen Complex in the Region of Akmola (Cont.)

15-57-1-178

The flora described here is of the Mesozoic type characteristic of the Turgay botanical and geographical district with its moderately humid climate. The article contains three illustrated tables and a bibliography of 12 titles.

Card 2/2

V. S. K.

ABUZYAROVA, R.Ya.; ZHUCHENKO, Z.K.

Spore and pollen complex of the Ak-Mola region. Mat. k ist. fauny  
i flory Kazakh. 1:151-158 '55. (MIRA 11:5)  
(Dzhilanchik Valley--Palynology)

ORLOV, I.V.; POGODAYEVA, T.V.; ZHUCHENKO, Z.K.

Cretaceous sediments in central Kazakhstan and its paleogeographical characteristics in the Cretaceous period. Mat. po geol. i pol. iskop. TSentr. Kazakh. no. 2:23-43 '62. (MIRA 15:12)  
(Kazakhstan--Paleogeography)  
(Kazakhstan--Geology, Stratigraphic)

ZHUCHENKO, Z. K.

14-1-306

Translation from: Referativnyy Zhurnal, Geografiya, 1957, Nr 1, p. 25, (USSR)

AUTHORS: Abuzyarova, R. Ya., Zhuchenko, Z. K.

TITLE: The spores and pollen Complex of the Akmola Region (Sporo-pyl'tsevoy kompleks rayona Akmoly)

PERIODICAL: Materialy po istorii fauny i flory Kazakhstana. T. I. Alma-Ata, AN Kaz SSR, 1955, pp. 151-158

ABSTRACT: The authors were given the task of pinpointing the stratigraphy of the tertiary formations of the Dzhilanchik River basin in the Turgay region on the basis of the spore and pollen complex. The research material for this study consisted of samples collected in 1947 in the Akmola, Altynbay and Aksayadyr areas. The flora of the Bolattam strata was represented by 41 specimens which belonged to 18 genera and 10 phyla. The systematic position of 14 of these specimens could not be established even approximately. An abundance of pollen in two Aksayadyr and Altynbay core samples furnished the

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14-1-306

**The spores and pollen Complex of the Amuoly Region**

basis on which it was possible to isolate a fern-alder tree plant complex including Taxodium, characterized by an abundance of alder tree pollen (Alnus 45.4%), an abundance of spores of ferns belonging to the Polypodiaceae genus, and the presence of Taxodiaceae pollen (13.3%). Among the other representatives of the fern-alder complex the following were noted: The "khaelegrab" [hop-hornbeam?] (5%), the elm (4.9%), the walnut (Juglans 2.6%), the pine (1.6%), the oak (1.48%), the lime (1.48%), unspecified spores (21.5%). The fossil flora of the areas which were studied belongs to the mesophyll type which is characteristic of the Turgay tertiary area with its temperate and humid climate. The floristic composition proves that during the Middle Oligocene there were mesophyll deciduous forests in this region with a preponderance of birch tree forests (including alder and hornbeam trees and walnut trees (Juglans, Pterocarya). The conifers were represented by pine, fir, cypress and Taxodiaceae trees. The herbaceous plants were represented mainly by ferns of the

Card 2/3

ZHUCHENKOV, fnu

USSR/Chemistry - Surface Active Compounds Apr 52

"Waterproof Earth," Prof F. Ye. Kolyasev, Dr Agr Sci,  
Zhuchenkov, Cand Agr Sci

"Nauka i Zhizn" No 4, pp 36, 37

Describes work done by scientists of the Water Lab,  
Agrophys Inst, All-Union Inst of Agr Sci imeni V. I.  
Lenin, on waterproofing earth, sand, peat, etc., with  
iron naphthenate (ferrous sulfate plus sodium naphthen-  
ate). Points out the possibility of waterproofing the  
ground in connection with various types of construc-  
tion work (particularly hydraulic construction, irri-  
gation works, etc.) Earth treated in this manner be-  
comes waterproof, resistant to freezing, resistant to  
the formation of lumps, and heat-insulating. The  
waterproof qualities are retained for a number of  
years.

221T15

ZHUCHENKOV, K., kand. sel'skokhozyaystvennykh nauk

Water-repellent soils. Nauka i pered. op. v sel'khoz. 8 no.10:  
48-49 0 '58. (MIRA 11:11)

1. Leningradskiy nauchno-issledovatel'skiy agrofizicheskiy institut.  
(Soil physics) (Permeability)

ZHUCHENKOV, K.K.

Effect of various tillage methods on the water balance of Chernozem soils. Pochvovedenie no.6:97-102 Je '59. (MIRA 12:9)

1. Agrofizicheskiy institut g.Leningrad.  
(Chernozem soils) (Soil moisture) (Tillage)

KOLYASEV, F.Ye.; ZHUCHENKOV, K.K.; KHOLODOV, A.G.

Extensive testing of a device for measuring soil moisture under  
field conditions. Sbor.trud.po agron. fiz. no.5:34-47 '52.

(MIRA 11:7)

(Soil moisture-Measurement)

ZHUCHENKOV, K.K.

Physical aspects of the readiness of soil for tillage. Sbor.trud.po  
agron.fiz. no.6:156-161 '53. (MIRA 11:7)  
(Soil moisture)

USSR/Soil Science. Tillage. Land Reclamation. Erosion.

J-5

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24804.

Author : Zhuchenkov, K.K.; Kolyasev, F. E.

Inst :                     

Title : Still More About Rolling the Soil.

Orig Pub: Zemledeliye, 1957, No 1, 18-25.

Abstract: On the basis of observations on the chernozem soils of the Kokchetavskaya Oblast, the EKVГ - 1.4 sprinkler roller is recommended for rolling. Its advantages are described.

Card : 1/1

KOLYASEV, F.Ye.; ZHUCHENKOV, K.K., kandidat tekhnicheskikh nauk.

Using the water imperviousness (hydrophobia) of earth as a measure against  
filtration from canals and reservoirs. Gidr. i mel. 5 no. 5:75-78 My '53.

(MLBA 6:6)

(Soil percolation)



KOLYASIV, F. YE., ZHUCHENKOV, K. K.

Soils

Soil impervious to water. Nauka i zhizn' no. 4, 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

KOLYASEV, F. YE., ZHUCHENKOV, K. K.

Soils

Soil impervious to water. Nauka i zhizn' no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 195~~7~~, Uncl.

2

ZHUCHENKO, V.; EL'KIN, I.

Operation of valves in drawing in liquid freon. Instances of extreme increase in booster pressure in small freon refrigeration machinery. Khol.tekh. 13 no.3:69-70 J1-S '53. (MIRA 6:11)

1. Zavod "Mekhanolit."

(Refrigeration and refrigerating machinery) (Freons)

PANOV, A.G.; ZHUCHENKO, V.I.; LOBZIN, V.S.

Result of roentgenotherapy of myasthenia. Zhur.nevr.i psikh. 54  
no.4:344-348 Ap '54. (MLBA 7:5)

(MYASTHENIA, GRAVIS, therapy,

\*x-rays)

(RADIOTHERAPY, in various diseases,

\*myasthenia gravis)

56-34-4-14/60

**AUTHORS:** Al'tshuler, L. V., Krupnikov, K. K., Ledenev, B. N.,  
Zhuchikhin, V. I., Brazhnik, M. I.

**TITLE:** The Dynamic Compressibility and the Equation of State of  
Iron at High Pressures (Dinamicheskaya szhinayenost' i urav-  
neniye sostoyaniya pri vysokikh davleniyakh)

**PERIODICAL:** Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958,  
Vol. 34, Nr 4, pp. 874 - 885 (USSR)

**ABSTRACT:** This work discusses 2 methods for the description of the dy-  
namic compressibility of materials, which are based upon the  
determination of the kinematic parameters - the propagation  
velocity and the mass velocity of the material behind the front.  
The measurement of wave velocities by means of donors being  
mounted in the path of the shock wave is relatively simple. In  
contrast to this the immediate observation of the mass velocity  
is impossible in most of the cases. The authors worked out 2  
methods for the complex determination of the kinematic param-  
eters of the wave, namely the "method of repelling" and the

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The Dynamic Compressibility and the Equation of State of 56-34-4-14/60  
Iron at High Pressures

"method of slowing down". In the method of repelling the propagation of a strong crack is investigated, which forms on the occasion of the reflection of a detonation wave at an elastic obstacle. The experimentally measurable quantities on this occasion are the wave velocity  $D$  and the velocity  $W$  of the displacement of the free surface of the obstacle on the initial part of the trajectory.  $W$  is approximately equal to the double mass velocity of the substance behind the wave front. The velocity of motion  $W$  is obtained by the material of the obstacle under the action of two different processes, namely of the shock-like transition from the state  $P_0 = 0; v_0$  into the state  $P_1; v_1$ , and of the subsequent isentropic expansion in the oncoming relief wave. The second paragraph deals with the method of the investigation and with the experimental technique. The third paragraph reports on the dynamic adiabatic line of the iron. A table gives the parameters of all experimentally stated figurative points of the adiabatic curve of the shock in iron. Within the whole investigated domain of the mass velocities

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The Dynamic Compressibility and the Equation of State of Iron at High Pressures 56-34-4-14/60

from  $U = 1,0$  to  $U = 5,17$  km/sec the linear relationship  $D = 3,80 + 1,58 U$  is valid for the propagation velocity  $D$  of the shock wave. In the next paragraph the compression of iron at the temperature zero is computed and in the last paragraph the curve of the compressibility of iron is extrapolated to the domain of relatively low degrees of compression. The developed method allows to fix the dynamic adiabatic curve of iron with different initial density within the interval of pressures of from  $4,10^5$  to  $5,10^6$  atmospheres. The dynamic adiabatic curve of porous iron with decreased initial density is in the diagram pressure - density considerably higher than the adiabatic of the compact material which speaks for the great influence of the thermic component in the shock-like compression. The authors derived an empirical equation of state of iron and ascertained the course of the curve of the cold compressibility unto the densities  $\rho = 1,7\rho_0$ . This work was carried out on the initiative by Ya.B.Zel'dovich. The authors also mention the cooperation of a number of other authors.

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• The Dynamic Compressibility and the Equation of State of Iron at High Pressures 56-34-4-14/60

There are 10 figures, 3 tables, and 14 references, 6 of which are Soviet.

SUBMITTED: December 28, 1957

1. Iron--Mechanical properties

Card 4/4



ZHUCHIN, D.I.; KONSTANTINOV, S.V.; PROZOROVSKIY, G.N.; SOLNTSEV,  
S.G.; KHARKHARDIN, L.S.; KLENDO, M.A., inzh., nauchn. red.;  
PEREVALYUK, M.V., red.

[Rural construction in the Virgin Territory] Sel'skoe  
stroitel'stvo v Tselinnom krae. Moskva, Stroiizdat, 1964.  
89 p. (MIRA 17:9)

VOLKIND, I.L., inzh.; GORSKIY, G.Yu., kand. tekhn. nauk; ZHUGHIN, D.I.,  
inzh.; IVANOV, N.M., inzh.; PROZOROVSKIY, G.N., kand. tekhn.  
nauk; FELONIN, V.P., inzh.; KLIPPEL', M.S., red. izd-va;  
MOCHALINA, Z.S., tekhn. red.

[Agricultural construction in the U.S.S.R. and abroad; modern  
level and prospects] Sel'skokhoziaistvennoe stroitel'stvo v  
SSSR i za rubezhom; sovremennyyi uroven' i perspektivy. [Ety]  
I.L.Volkind i dr. Moskva, Gosstroizdat, 1962, 122 p.

(MIRA 15:7)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-  
issledovatel'skiy institut sel'skikh zdaniy i sooruzheniy.  
(Farm buildings)

ZHUCHIN, D.I., inzh.; BESSARABENKO, A.I., inzh.; NEFEDOV, S.F.,  
red.; BUKREYEV, P.A., inzh., nauchnyy red.; GORDEYEV, P.A.,  
red. izd-va; MOCHALINA, Z.S., tekhn. red.

[Raising the technical level of rural construction]Indu-  
strializatsiia sel'skogo stroitel'stva. Pod red. S.F.Ne-  
fedova. Moskva, Gosstroizdat, 1962. 125 p.

(MIRA 15:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. Nauchno-  
issledovatel'skiy institut sel'skikh zdaniy i sooruzheniy.
2. Rukovoditel' sektorom ekonomiki i organizatsii stroitel'-  
stva Nauchno-issledovatel'skogo inabituta sel'skikh zdaniy i  
sooruzheniy (for Zhuchin).

(Construction industry)

ZHUCHIN, D.I.; KHARKHARDIN, L.

Coordination Council. Meeting on prefabrication techniques in rural construction. Izv. ASIA no.1:113-115 '61. (MIRA 14:7)

1. Rukovoditel' sektora ekonomiki stroitel'stva Instituta sel'skikh zdaniy Akademii stroitel'stva i arkhitektury SSSR (for Zhuchin). 2. Glavnyy inzhener sektora ekonomiki stroitel'stva Instituta sel'skikh zdaniy Akademii stroitel'stva i arkhitektury SSSR (for Kharkhardin).

(Construction industry)

PAVLOV, I.M.; ZHUCHIN, V.N., inzh.

Dependence of the strain resistance of precision alloy  
E79NM on various factors of cold rolling. Izv.vys.ucheb.zav.;  
mashinostr. no.8:178-186 '62. (MIRA 15:12)

1. Moskovskiy institut stali. 2. Chlen-korrespondent AN SSSR  
(for Pavlov).

(Rolling (Metalwork))

S/133/63/000/003/003/007  
A054/A126

**AUTHORS:** Zhuchin, V.N., Engineer, Pavlov, I.M., Corresponding Member of the Academy of Sciences USSR

**TITLE:** The friction coefficient in cold rolling

**PERIODICAL:** Stal', no. 3, 1963, 231 - 234

**TEXT:** The friction coefficient in cold rolling depends on a number of factors, including the arc of the bite. Although various methods have been established to calculate the average friction coefficient these do not account for the fact that during rolling the work rolls become flattened to some extent which also affects the arc of the bite and, consequently, the friction coefficient. From calculations and test data formulae were derived to determine the friction coefficient, allowing for the flattening of the bite arc and in accordance with the torque. The tests were carried out with 979 HM (E79NM) soft-magnetic precision steel strips .3, 1, and 0.3 mm thick. The tests covered the effects of the flattening of the work rolls in the deformation focus, of reduction, strip thickness, rolling with and without lubrication, etc. In the case of an-

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The friction coefficient in cold rolling

8/133/63/000/003/003/007  
A054/A126

nealed and work-hardened (to 25%) 0.3 - 3.0 mm thick strips the friction coefficient was found to increase from 0.015 to 0.07; for strips work-hardened to a higher degree (50 - 70%) it showed an increase from 0.015 to 0.045. When the relative reduction in cold rolling was raised from 4 to 20%, the friction coefficient increased by a factor of 2. The effect is more pronounced in strips previously work-hardened, whereas in the case of 0.3-mm strips the change of relative reduction does not affect so strongly the friction coefficient. Its highest value is attained when rolling without lubrication, the lowest upon applying castor oil as lubricant; a medium value is obtained when the rolls are lubricated with an emulsion. In general, lubrication decreases the friction coefficient by a factor of 1.5 - 2.2 as compared to that for dry rolls. There are 4 figures.

Card 2/2

ACC NR:

AM0027291

SOURCE CODE: UR/0133/66/000/000/0122/0724

AUTHOR: Zhuchin, V. N. (Candidate of technical sciences); Schvartsbart, Ya. S. (Engineer); Sinel'nikov, Yu. I. (Candidate of technical sciences); Nikitin, G. S. (Candidate of technical sciences)

ORG: "Elektrostal'" Plant (Zavod "Elektrostal'"); MVTU im. BaumanTITLE: Work and deformation resistance in hot rolling high nickel alloys

SOURCE: Stal', no. 8, 1966, 722-724

TOPIC TAGS: metal deformation, hot rolling, nickel alloy, differentiation

ABSTRACT: The authors study five alloys: 1. 97% nickel, 2. 79NM precision soft-magnetic alloy, 3. 80KhMS precision soft-magnetic alloy, 4. Kh20N80 refractory alloy, 5. Kh20N80TZ (EI437) refractory alloy. The chemical composition of these alloys is given. Experimentally determined specific energy values of hot rolling for the five alloys are used to set up curves of their dependence on the degree of deformation. Specific energy values in the region of deformation were determined during rolling on a production sheet rolling mill 650/450/650-800 at speeds of 1.36 m/sec and at various relative degrees of reduction at 1000 and 1150°C. A method of differentiating compression deformation energy curves with respect to hot rolling is used to establish relationships between actual deformation resistance and the degree of deformation for

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UDC: 621.770



ACC NR: AP6027291

the five alloys. These relationships show strengthening in the deformation zone determined by temperature and degree of deformation for each alloy. Orig. art. has: 4 figures, 2 tables, 8 formulas.

SUB CODE: 11/ SUBM DATE: None/ ORIG REF: 002

13/

Card 2/2 jb

ACC NRI AP1007230

(A)

SOURCE CODE: UN/017/00/000/007/007/007

AUTHOR: Zhuchin, V. N. (Candidate of technical sciences); Nikitin, G. S. (Candidate of technical sciences); Sinel'nikov, Yu. I. (Candidate of technical sciences); Lutkovskiy, S. I. (Engineer)

ORG: None

TITLE: Drawing alloys with low deformability at moderate temperatures

SOURCE: IVUZ. Mashinostroyeniye, no. 9, 1966, 148-152

TOPIC TAGS: metal drawing, wire, alloy steel, metal recrystallization

ABSTRACT: Experiments are conducted on drawing R-18 and EI-474 alloys with preheating. An industrial single-draft unit of the drum type was used for producing wire from 8 mm to 3 mm in diameter at drawing rates of 44.2, 57.7 and 87.5 m/min. The wire was heated in a lead bath and passed through draw plates made from VK-6 alloy. The drawing stress  $K=P/S_k$  was taken as the basic characteristic of the process where P is the drawing force in kg, and  $S_k$  is the cross sectional area of the wire after drawing in  $mm^2$ .

This criterion was studied as a function of such factors as partial and overall degree of deformation, temperature of the metal, rate of drawing, the working angle of the draw plate, the initial diameter of the wire and lubrication. The experimental results

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UDC: 621.771.3

show that partial reductions of 20-25% should be used for R-18 steel when drawing pre-heated wire while the corresponding figure for EI-474 steel is 25-30% as against 12-18% partial reductions used in cold drawing of these grades of steel. Overall reductions without using intermediate recrystallizations may reach 45-55% for R-18 and 65-70% for EI-474. Recrystallization is used after each draft in the cold drawing process. The average temperature of the wire before reaching the draw plate should be 375-285°C, the lead bath temperature being determined from experimental curves as a function of drawing rate and wire diameter. The optimum working angles of the draw plates for these grades of steel vary between 18 and 20°. The optimum lubricant is a mixture of graphite and soap in a ratio by volume of 7:1. The article was presented for publication by Academician A. I. Tselikov, Professor at the Moscow Technical College. Orig. art. has: 5 figures, 1 table.

SUB CODE: 13, 11/ SUBM DATE: 15Dec64/ ORIG REF: 04

Card 2/2

ZHUCHIN, V.N., inzh.; PAVLOV, I.M.

Analyzing some methods of the experimental determination of deformation resistance in cold rolling. Izv.vys.ucheb.zav.; mashinostr. no.7:214-220 '63. (MIRA 16:11)

1. Zavod "Elektrostal". 2. Chlen-korrespondent AN SSSR (for Pavlov).

ZHUCHIN, V.N., inzh.

Experimental determination of effective yield point and force similitude coefficient in cold rolling. Izv. vys. ucheb. zav.; mashinostr. no.9:227-234 '63.

(MIRA 17:3)

1. Zavod "Elektrostal".

PAVLOV, I.M.; ZHUCHIN, V.N., inzh.

Experimental determination of energy and power parameters in  
cold rolling of the E79NM alloy. Izv.vys.ucheb.zav.;  
mashinostr. no.10#180#190 '61. (MIRA 14:12)

1. Moskovskiy institut stali. 2. Chlen-korrespondent AN SSSR  
(for Pavlov).

(Rolling(Metalwork))

S/145/62/000/008/004/004  
D262/D308

AUTHORS: Pavlov, I.M., Corresponding Member of AS USSR, and Zhuchin, V.N., Engineer

TITLE: Effect of various factors of cold rolling on the resistance of precision alloy 379HM (E79NM) to deformation

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroyeniye, no. 8, 1962, 178-186

TEXT: A description is given of experiments conducted with E79NM alloy which is extensively used in the manufacture of trans-formers and coils, in order to establish the effect of the following factors on resistances to deformation: 1) Relative draft  $\frac{\Delta h}{H}$  per pass; - resistance to deformation P increases linearly with  $\frac{\Delta h}{H}$  % and its degree of increase depends largely on the degree of preliminary cold working. 2) Plate thickness  $\frac{H}{R}$  ratio (0.035 - 0.005); -

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Effect of various factors ...

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D262/D308

minimum  $P$  is obtained at  $\frac{H}{R} = 0.01$ , for smaller values of  $\frac{H}{R}$   $P$  increases steeply along a hyperbolic curve. 3) Degree of preliminary cold working  $\frac{H-h}{H}$  (25, 50, and 75%) and annealing; -  $P$  increases with  $\frac{H-h}{H}$  along a curve which is steep for small values of  $\frac{H-h}{H}$  and flattens up at higher values of  $\frac{H-h}{H}$ . 4) Lubrication (castor oil and emulsion); -  $P$  is only slightly affected, it decreases by not more than 10-15%, compared with dry rolling. There are 5 figures and 1 table. ✓

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: March 28, 1962

Card 2/2



S/145/61/000/010/007/008  
D221/D304

AUTHORS: Pavlov, I. M., Corresponding Member AS USSR, and  
Zhuchin, V. N., Engineer

TITLE: Developing methods and experimental determination of  
energy and force parameters in the cold rolling of  
379HM (E79NM) alloy

PERIODICAL: Izvestiya vysshikh uchebnykh zavendeniy. Mashino-  
stroyeniye, no. 10, 1961, 180-190

TEXT: In 1960, at the "Elektrostal' Plant", experimental investi-  
gations were carried out in production conditions for determining  
the conditions of cold rolling in a four-high mill with soft magne-  
tic alloy E79NM. The article describes the examination method for  
measuring the pressure distribution in the center of deformation,  
along the length and width of contact zone between the working and  
supporting rollers, and the deformation resistance of metal. The  
actual contact area between the metal and the roller was found from

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Developing methods and ...

S/145/61/000/010/007/008  
D221/D304

$P_a = \frac{PF}{F_a} = \frac{P \epsilon}{l_a B}$ , where  $P_a$  is the actual resistance to deformation in  $\text{kg}/\text{mm}^2$ ;  $P$  is the total pressure of metal against the roller in  $\text{kg}$ ;  $F_a$  is the actual contact area between metal and roller in  $\text{mm}^2$ ;  $l_a$  is the actual length of deformation center in  $\text{mm}$ ;  $B$  is the width of strip in  $\text{mm}$ . In addition, the torque of rolling, for calculating friction coefficient and arm of the resulting metal pressure on rollers, and the over-running by the method of center punches were also measured together with other factors. A detailed description of the alloy is given. The pressures and torques were recorded with transducers, whose pulses were amplified by ЭТ-4-54 (ET-4-54) amplifiers made by TsNIITMASH, and registered by МПО-2 (MPO-2) oscillographs. The distribution of pressure in the center of deformation and on the contact line between the rollers, the actual length of the above center and the length of the biting zone were determined by a specially designed roller with three strain gauges incorporated. The transducer itself was made in accordance with recommendations of A. Ye. Gurevich and Ye. S. Rokotyan. The transducers were guarded

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S/145/61/000/010/007/008  
D221/D304

Developing methods and ...

against ingress of dampness, oil etc. by a special varnish  $\Pi \times B$  (PKhV). The current take-off was ensured by slip rings. The calibration was made by a system of levers and weights. The torque transducer was calibrated by direct torsion of the roller by a known torque in a special fixture. The mean coefficient of friction was determined by the equation  $\alpha - \beta - \gamma$  which requires knowledge of ratio  $\gamma/\alpha$  at the insert. Two center punches were made in the fore and aft of the insert, and this permitted experimental measurement of the advance. The ratio is then calculated by  $S = \gamma^2 \frac{R}{h}$ , and  $\frac{\xi}{\alpha} = 0.1 \sqrt{\frac{Sh}{\Delta h}}$ , where S is the advance in %; h is the height of strip after rolling in mm;  $\Delta h$  is the absolute compression of strip in mm. The relationship between  $\frac{\xi}{\alpha}$  and  $\frac{\Delta h}{H}$  is shown graphically. The relative compression of strip under the insert is smaller than under the main body of the roller. The curves were used to determine  $\frac{\xi}{\alpha}$  under the strip. The actual experiments are then described in de-

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Developing methods and ...

S/145/61/000/010/007/008  
D221/D304

tail. The above permitted assessment of the mentioned quantities as well as the following magnitudes: The effect on friction by the relative compression, initial thickness of strip, degree of the preliminary work hardening, and the position of the resulting pressure of metal against the rollers. Data on the position of this resultant, effect of pinching on the resistance of metal deformation, total deformation of rollers in the deformation center and other items were also recorded. The results obtained are to be published. There are 6 figures and 5 Soviet-bloc references. ✓

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: July 3, 1961

Card 4/4

ZHUCHIN, V.N., kand. tekhn. nauk; STEL'NIKOV, Yu.I., inzh.;  
NIKITIN, G.S., kand. tekhn. nauk

Experimental investigation of an elastic compression of  
rolls in cold rolling. Izv. vys. ucheb. zav.; mashinostr.  
no.9:166-170 '65. (MIRA 18:11)

L 09963-67 EWT(m)/EWP(t)/ETI IJP(c) JD/IV/WB  
ACC NR: AP6035721 SOURCE CODE: UR/0413/66/000/019/0083/0083

INVENTOR: Shpitsberg, A. L.; Zhuchin, V. N.; Dobrotin, V. D.; Fadeyeva, I. V.; Borisov, V. A. 54

ORG: none

TITLE: Corrosion-resistant nickel-base alloy. Class 40, No. 186691 16

SOURCE: Izobreteniya, promyshlennyye obraztsey, tovarnyye znaki, no. 19, 1966, 83

TOPIC TAGS: corrosion resistant alloy, nickel base alloy, chromium containing alloy, tungsten containing alloy, cobalt containing alloy, aluminum containing alloy, titanium containing alloy, boron containing alloy, niobium containing alloy, vanadium containing alloy, copper containing alloy, zirconium containing alloy

ABSTRACT: This Author Certificate introduces a corrosion-resistant nickel-base alloy containing chromium, tungsten, cobalt, aluminum, titanium and boron. To improve its physicochemical and technological properties, the alloy chemical composition is set as follows: 16-25% chromium, 6-16% tungsten, 4.5-10.0% cobalt, 0.8-2.5% aluminum, 2-5% titanium, and 0.008-0.25% boron. A variant is additionally alloyed with niobium, vanadium, copper and zirconium at a total content of up to 6%.

SUB CODE: 11/ SUBM DATE: 17Feb65/ ATD PRESS: 5105

DZEMENTS'EU, V.A.; RAMANOUSKI, N.T.; ZHUGHEVICH, V., redaktor; TUMAS, R.,  
tekhnicheskii redaktor.

[Geography of the White Russian S.S.R.; aid for teachers in  
seven-year and secondary schools, and for students in teacher insti-  
tutes] Geografiai Belaruskai SSR; dapanoshnik dlia nastavnikaui siami-  
hadovai i siaredniai shkoly i studentau nastavnitskikh instytutau.  
Minsk, Dziar.vuchebna-pedagag. vyd-va BSSR, 1952. 226 p. (MIRA 8:2)  
(White Russia--Geography)

ZHUCHKEVICH, V. A.

Dissertation: "Brestskaya Oblast: Economico-Geographic Characteristics." Cand Geog Sci, Belorussian State U, Minsk, 1953. Referativnyy Zhurnal--Geologiya, Geografiya, Moscow, Jul 54.

SO: SUM No. 356, 25 Jan 1955



ZHUCHKOVICH, Vadim Andreyevich; YAKUSHKO, Olga Filippovna [Iakushka, O.F.];  
RZHEUTSKIY, A.F. [Rzheutski, A.F.], red.; SOSNOVICH, A.I.  
[Sasinovich, A.I.], tekhn.red.

[Geography of the White Russian S.S.R.; textbook for the  
secondary school] Geografiai Belaruskai SSR; vuchebny dapa-  
mozchnik dla siarednisi shkoly. Minsk, Dzierzh.vuchebna-  
pedagog.vyd-va M-va asvety BSSR, 1960. 72 p.

(MIRA 14:2)

(White Russia--Geography)

ZHUCHKEVICH, V.A.

~~Effect~~ of the geographical location of Brest on the development  
of the city. Trudy Geofaka BGU no.1:129-136 '58.

(MIHA 12:8)

(Brest)

ZHUCHKEVICH, Vadim Andreyevich; YAKUSHKA, Ol'ga Filippovna;  
RZHEUTSKI, A.F., red.; SASINOVICH, A.I., tekhn. red.

[Geography of the White Russian S.S.R.; a textbook for secondary schools] Geografii Belaruskai SSR; vuchebny dapamozhnik dlia siaredniai shkoly. Vyd.2. Minsk, Dziarzh.vuchebna-pedagog. vyd-va M-va asvety BSSR, 1961. 73 p. (MIRA 15:1)  
(White Russia--Geography)

AKINCHITS, Andrey Sergeevich; ZHUCHKEVICH, V.A., red.; TETERINA,  
L.N., red.; SHALCOVSKAYA, A.V., red.; MORGUNOVA, G.M., tekhn.  
red.

[Brest Province; geographical study]Brestskaiia oblast'; geog-  
raficheskii ocherk. Minsk, Izd-vo M-va vysshogo, srednego  
spetsial'nogo i professional'nogo obrazovaniia BSSR, 1962.  
143 p. (MIRA 15:12)

(Brest Province--Economic geography)

ZHUCHKEVICH, Vadim Andreyevich; SHALCOVSKAYA, A.V., red.; GES', N.D.,  
red.; KHOMIV, N.I., tekhn. red.

[Origin of the geographical names (toponymy) of White Russia]  
Proiskhozhdenie geograficheskikh nazvani (toponimika) Belo-  
russii. Minsk, Izd-vo Belgosuniv. im. V.I.Lenina, 1961. 77 p.  
(MIRA 15:1)

(White Russia--Names, Geographical) .

ZHUCHKEVICH, Vadim Andreyevich, kand.geograf.nauk; MALYSHEV, Andrey  
Yakovlevich, kand.geograf.nauk; ROGOZIN, Neofid Yermolayevich,  
kand.geograf.nauk; ZUYKIV, Ye.M., red.; VOROBAY, P.S., tekhn.red.

[Cities and villages of the White Russian S.S.R.; historical  
and geographical outlines] Goroda i sela Belorusskoi SSR;  
istoriko-geograficheskie ocherki. Minsk, Gos.uchebno-pedagog.  
izd-vo M-va prosv. BSSR, 1959. 278 p. (MIRA 12:8)  
(White Russia)

ZHUCHKEVICH, Vadim Andreyevich, YAKUSHKO, O.F.

[Geography of the White Russian S.S.R.; textbook for eight-year schools] Geografiia Belorusskoi SSR; uchebnoe posobie dlia vos'miletnei shkoly. Izd.3., dop. Minsk, Gos.uchebno-pedagog. izd-vo, 1962. 91 p. (MIRA 17:4)

ACC NR: AP7005608

SOURCE CODE: UR/0413/67/000/002/0048/0048

INVENTOR: Anfilov, Ye. A.; Govorkov, I. T.; Gurevich, R. V.; Zhuchkin, I. A.;  
Kuznetsov, V. D.; Olifin, L. K.

ORG: None

TITLE: A cophased antenna array with electrical scanning. Class 21, No. 19433

SOURCE: Izobreteniya, promyshlennyye obraztzy, tovarnyye znaki, no. 2, 1967, 48

TOPIC TAGS: dipole antenna, antenna array, antenna directivity

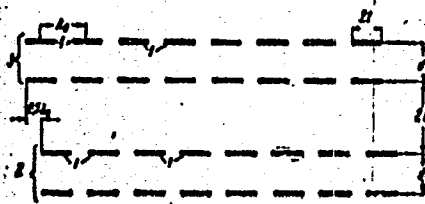
ABSTRACT: This Author's Certificate introduces a cophased antenna array with electrical scanning. The installation is made in the form of center-fed dipoles arranged in groups and equipped with an aperiodic or tuned reflector. In order to reduce the level of side lobes of the directional pattern in the horizontal plane, the lower group of dipoles is shifted horizontally with respect to the upper group in the plane of the array by one-half the distance between the adjacent dipoles in the group.

Card 1/2

UDC: 621.396.677.32



ACC NR: AP7005608



1—center-fed dipoles; 2—lower group of dipoles; 3—upper group

SUB CODE: 09/ SUBM DATE: 27Aug65

BENDRIK, V.G., inzh.; BULAYEV, V.V., inzh.; ZHUGHKOV, A.M., inzh.

New methods for lead plating of chemical apparatus. Khim i  
neft. mashinostr. no.2:37-38 Ag '64. (MIRA 18:1)

STEPANOV, V.F., dotsent; ZHUCHKOV, A.P., starshiy prepodavatel'

Vibratory dryer. Izv.vys.ucheb.zav.; mashinostr. no.8:52-55 '61.  
(MIRA 15:1)

1. Novocherkasskiy politekhnicheskii institut.  
(Drying apparatus)

ZHUCHKOV, B.N., inzh.

Spaced payments. Sudostroenie 26 no.6:45-48 Je '60.  
(MIRA 13:7)

(Shipbuilding) (Payment)

ZHUCHKOV, A.P., kand. tekhn. nauk

Determining the lifting angle of the working part of a vibratory-  
conveyor drier. Izv. vys. ucheb. zav.; mashinostr. no.8:112-114  
'64. (MIRA 17:11)

1. Donetskii politekhnicheskii institut.

ZHUCHKOV, D., brigadir slesarey-instrumental'shchikov

How we cut down our sick rate. Okhr.truda i sots.strakh.  
no.2:33-36 Fe '59. (MIRA 12:4)

1. Moskovskiy tormoznyy zavod.  
(Moscow--Industrial hygiene)

VAVILOVA, Anastasiya Sergeyevna; ZHEVELEVA, Inna Semenovna; ZHUCHKOV,  
D.A., red.; AKIMOVA, A.G., red. izdava; EL'KIND, V.D., tekhn.  
red.; GORDEYEVA, L.P., tekhn. red.

[Electronic computers abroad] Elektronnye vychislitel'nye ma-  
shiny za rubeshom. Pod red. D.A. Zhuchkova. Moskva, Mashgis,  
1962. 235 p. (MIRA 16:8)

(Electronic computers)

VAVILOVA, Anastasiya Sergeyevna; ZHEVELEVA, Irna Semenovna; ZHUCHKOV, D.A., red.; AKIMOVA, A.G., red. izd-va; GORDEYEVA, L.P., tekhn. red.

[Electronic computers in foreign countries]Elektronnye vychislitel'nye mashiny za rubezhom. Pod red. D.A.Zhuchkova. Moskva, Mashgiz, 1962. 235 p. (MIRA 15:12)  
(Electronic computers)



KUZNETSOV, V.I., kand. med. nauk; ZHUCHKOV, F.V.

Diagnostic errors and complications in closed injuries of the  
duodenum. Khirurgiia 39 no.10:104-106 O '63.

(MIRA 17:9)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii  
Chelyabinskogo meditsinskogo instituta i 2-y Dorozhnoy bol'nitsey  
(nachal'nik T.M. Ovchinnikova) Yuzhnoural'skoy zheleznoy dorogi.

ZHUCHKOV, N. D.

34196. Zhuchkov, N. D. O lechenii ozhogov, ran i troficheskikh yazv smez'yu osnovnogo nitrata vismuta, streptotsida, dermatola i rivanola. Zdravaokhraneniye kazakhstana, 1949, No. 5, s. 42-43.

SO: Knizhnaya Letopis' No. 6, 1955

ZHUCHKOV, E. N.  
L. S. BERLIN, ZhKhim. Prom., 1933, No. 10, 45-7

20 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

LIST AND /NO OBJECTS PROCESSES AND PROPERTIES INDEX 190 AND 414 CODES

18

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Experiments on the continuous preparation of superphosphates by the method of prolonged mixing. H. A. Sokolovskii and E. M. Zhuchkov. *J. Chem. Ind. (Moscow)* 1933, No. 6, 62-70. Phosphorite is well mixed with 10% excess  $H_2SO_4$  for 40-60 min., and the mixt. allowed to stand for  $1/2$ -1 hr. after leaving the mixer. About 93-7% decompn. occurs, and a superphosphate of good phys. properties is obtained. About 31% of the P in the phosphorite is recovered. H. M. Leicester

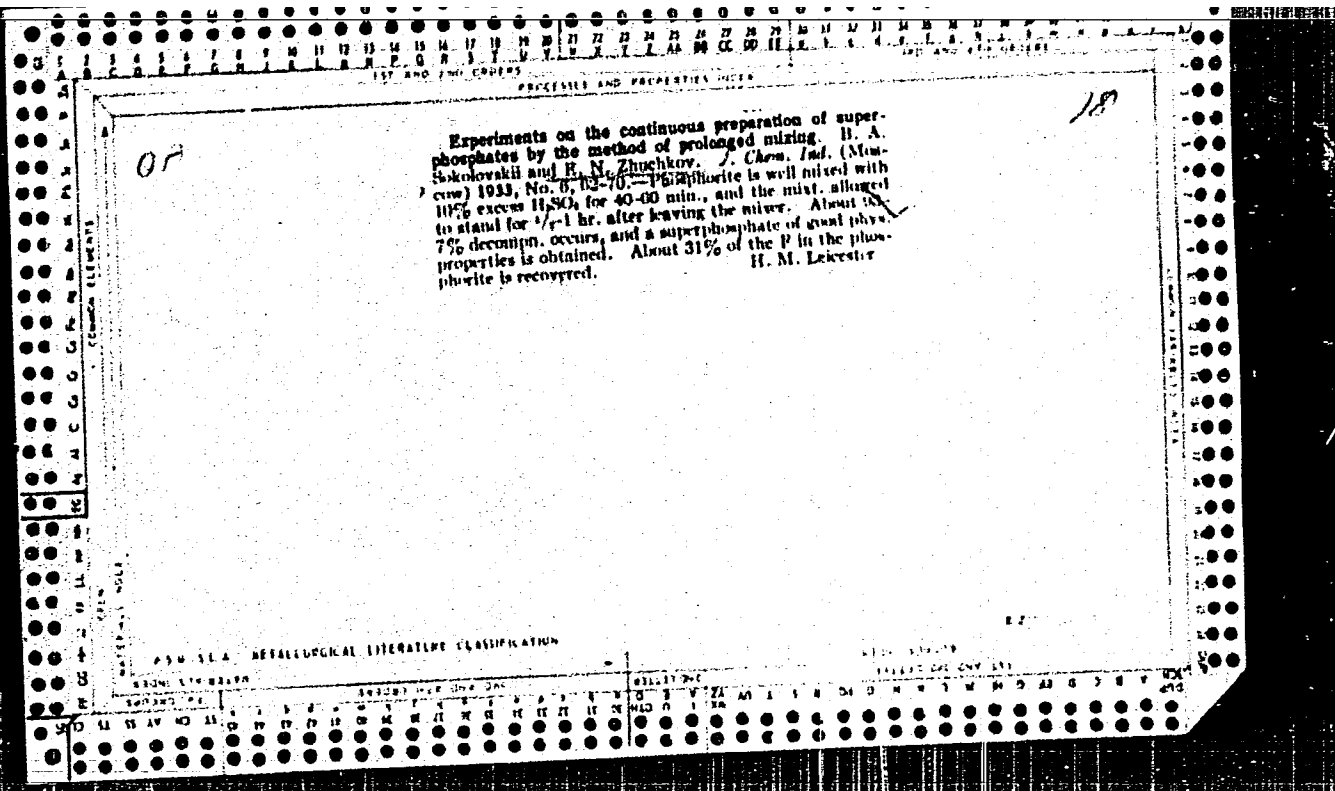
COMMON ELEMENTS

MATERIALS NOTES

OPEN

ASB-55A METALLURGICAL LITERATURE CLASSIFICATION

GROUP	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
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ZHUCHKOV, M.G., inzh. (Leningrad); PUSHKAREV, I.F., inzh. (Leningrad);  
EL'BERG, V.G., inzh. (Leningrad)

Electric control of a hydromechanical transmission system. Elek.  
i topl. tiaga 4 no.5:30-31 My '60. (MIRA 13:7)  
(Diesel locomotives--Transmission devices) (Automatic control)

ZHUCHKOV, M.G., inzh.; EL'BERG, V.G., inzh. (Leningrad)

Selecting the type of hydraulic torque converters for hydraulic-  
drive diesel locomotives. Vest. TSNII MPS 19 no.8:28-31 '60.  
(MIRA 13:12)

(Diesel locomotives--Hydraulic drive)

KANAVETS, P.I.; GESS, B.A.; SPORIUS, A.E.; CHERNYSHEV, A.M.;  
MELENT'YEV, P.N.; CHERNYKH, V.I.; KHROMYAK, R.P.;  
KHAYLOV, B.S.; BORISOV, Yu.I.; TSYLEV, L.M.; SOKOLOV, V.S.;  
Prinimali uchastnye: MARKIN, A.A.; GORLOV, M.Ya.;  
VORONOV, Yu.G.; BULAKHOV, K.A.; KREMYANSKIY, V.L.; ARSHINOV,  
G.P.; MAZUN, A.B.; PISARNITSKIY, I.M.; BOKUCHAVA, O.A.;  
KIRILLOV, M.V.; TSELUYKO, P.I.; POLYAKOV, G.O.; REZKOV, A.S.;  
ZHUGHKOV, M.I.; ROMASHKIN, A.S.; ZUBKOV, A.S.; KOZLOV, N.N.

Pilot plant for the nodulizing of finely ground charge mix-  
tures by the method of chemical catalysis. Trudy IGI 22:  
93-109 '63. (MIRA 16:11)



KIRSANOVA, M.K., kand. tekhn. nauk; MIKHANOVSKIY, D.S., inzh.;  
MONFRED, Yu.B., kand. tekhn. nauk; KREINDLIN, A.N.; SAVKOV, V.  
BEYUL, O.A., inzh.; ZHUCHKOV, N.

[Means for increasing the capacity of plants prefabricating  
elements for I-464A series houses] Puti povysheniia proizvod-  
stvennoi moshchnosti zavodov, vypuskaiushchikh doma seria  
I-464A. Moskva, Gosstroizdat, 1962. 26 p. (MIRA 17:7)

1. Akademiya stroitel'stva i arkhitektury SSSR. Tsentral'nyy  
nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut  
industrial'nykh zhilykh i massovykh kul'turno-bytovykh zdaniy.
2. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-eksperi-  
mental'nyy institut industrial'nykh, zhilykh i massovykh kul'turno-  
bytovykh zdaniy Akademii stroitel'stva i arkhitektury SSSR (for  
Kirsanova, Mikhanovskiy, Monfred).
3. Nauchno-issledovatel'skiy  
institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi  
stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for  
Beyul, Kreindlin, Savkov, Zhuchkov).

GOL'DMAN, M.M.; ZHUCHKOV, N.D.; SOROKATYY, V.M.; SUBKHANBERDIN,  
S.Kh.; POTAFOV, V.M.; SHARIPOVA, M., red.

[New drugs, Novye lekarstvennyye preparaty. Alma-Ata, Izd-  
vo "Kazakhstan," 1965. 371 p. (MIRA18:8)

1. Zaveduyushchiy kafedroy farmatsevticheskiki distsiplin  
Alma-Atinskogo instituta usovershenstvovaniya vrachey (for  
Gol'dman).

ZHUCHKOV, N.G.

36336 Rany pri glubokom kol'-tsevom nadreze u plodovykh derev'yev 1 ikh zashivleniye. Zapiski leningr. S-XH in-ta, vyp. 5, 1948, S. 59-70

SO: Letopis' Zhurnal' nykh Statey, No. 49, 1949

ZHUCHKOV, N. G.

28531

I Spolbzovaniye Pyeryerosshikh Dichkov Yabloni Sud I Ggorod, 1949, 3.10-13

SC: LETCPIS NO. 38

1. ZHUCHKOV, N.G., PROF.
2. USSR (600)
4. Fruit Culture - Leningrad
7. Orchard belt around Leningrad. Priroda, 41, no, 11, 1952.

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

ZHUCHKOV, N.G., doktor sel'skokhozyaystvennykh nauk, professor,  
Laureat Stalinskoy premii.

Orchards around Leningrad. Nauka i zhizn' 20 no.12:23-24  
D '53. (MIRA 6:12)  
(Leningrad--Fruit culture) (Fruit culture--Leningrad)

ZHUCHKOV, N. G.

N/5  
632.9  
.26

Chastnoye plodovodstvo (Private Fruit--Growing) Moskva, Sel'khozgiz,  
1954.

438 p. illus., diagrs., tables.

ZHUCHKOV, N. G. Prof.

USSR/ Agriculture-Orchardry

Card : 1/1

Authors : Zhuchkov, N. G. Prof.

Title : Methods increasing the fruitfulness of fruit trees

Periodical : Priroda, 6, 104 - 106, June 1954

Abstract : Scientific methods of increasing the yield of fruit trees are described.  
Illustrations.

Institution : ....

Submitted : ....



ZHUCHKOV, N.G., doktor sel'khoz. nauk, prof.; OZEROV, V.N., red.;  
SOKOLOVA, N.N., tekhn. red.

[Specialized fruit culture] Chastnoe plodovodstvo. Moskva,  
Sel'khozgiz, 1954. 438 p. (MIRA 16:8)  
(Fruit culture)

VORONINA, Aleksandra Ivanovna, kand. sel'khoz. nauk; GLEBOVA,  
Yekaterina Il'inichna, kand. sel'khoz. nauk; KALASHNIKOVA,  
Nina Ivanovna, kand. sel'khoz. nauk; NEVZOROV, Fedor Yefimovich;  
NIKISHIN, Konstantin Georgiyevich, kand. sel'khoz. nauk;  
ZHUCHKOV, N.G., prof., red.; IVASHKINA, L.A., red.; BARANOVA,  
L.G., tekhn. red.

[Fruit culture with the fundamentals of landscape gardening]  
Plodovodstvo s osnovami dekorativnogo sadovodstva. [Dy] A.I.  
Voronina i dr. Leningrad, Sel'khozizdat, 1962. 526 p.  
(MIRA 15:10)

(Fruit culture)            (Landscape gardening)

ZHUCHKOV, Nikolay Grigor'yevich, prof., doktor sel'khoz. nauk;  
LEBEDEV, V.A., red.; ONOSHKO, N.G., tekhn. red.

[Agrobiological foundations of fruit culture] Agrobiologičeskie osnovy plodovodstva. Leningrad, Lenizdat, 1962. 118 p.  
(MIRA 15:7)

(Fruit culture)

ZHUCHKOV, Nikolay Grigor'yevich, prof., doktor sel'skokhoz.nauk;  
MAL'CHIKOVA, V.K., red.; LEVONEVSKAYA, L.G., tekhn.red.

[Use of ridges in orchards] Sady na valakh. Leningrad,  
Lenizdat, 1960. 66 p. (MIRA 13:11)

1. Leningradskiy sel'skokhozyaystvennyy institut (for Zhuchkov).  
(Leningrad Province--Fruit culture)

COUNTRY : USSR  
CATEGORY : Cultivated Plants. Fruit. Berry. Nuciferous. M  
Tea.  
ABS. JOUR. : RZhBiol., No. 3, 1959, No. 11090  
AUTHOR : Zhukhkov, N. G.  
INST. :  
TITLE : In the Orchards and Nurseries of Finland.

IG. PUB. : Sad i ogorod, 1958, No. 6, 71-72

ABSTRACT : No abstract.

CARD: 1/1

ZHUCHKOV, N.G., doktor sel'skokhozyaystvennykh nauk; KALASHNIKOVA, N.I.,  
kand. sel'skokhozyaystvennykh nauk.

Spacing apple orchards for winter protection on the "Udarnik"  
Training Farm in Tambov Province. Agrobiologiya no.6:106-115 N-D  
'58. (MIRA 12:1)

Leningradskiy sel'skokhozyaystvennyy institut, g. Pushkin.  
(Tambov Province--Apple)  
(Plants--Frost resistance)

ZHUCHKOV, N.G.

KAMSHILOV, N.A.; ANTOHOV, M.V.; BAKHAREV, A.N.; BLINOV, L.F.; BORISOGLEBSKIY,  
A.D.; GAR, K.A.; GARINA, K.P.; GORSHIN, P.F.; GUTIYEV, G.T.;  
DELITSINA, A.V.; DUROVA, P.F.; YEVTUSHENKO, A.F.; YEGOROV, V.I.;  
YEREMENKO, L.L.; YEFINOV, V.A.; ZHILITSKIY, Ya.Z.; ZHUCHKOV, N.G.,  
prof.; ZAYETS, V.K.; ISKOL'DSKAYA, R.B.; KOLESNIKOV, V.A., prof.;  
KOLESNIKOV, Ye.V.; KOSTINA, K.F.; KRUGLOVA, V.A.; LEONT'YEVA, M.N.;  
LESYUK, Ye.A.; MURKIN, Ye.N.; NAZARYAN, Ye.A.; NEGRUL', A.M., prof.;  
ODITSOV, V.A.; OSTAPENKO, V.I.; PETRUSEVICH, P.S.; PROSTOSERDOV,  
N.N., prof.; RUKAVISHNIKOV, B.I.; RYABOV, I.N.; SABUROV, N.V.;  
SABUROVA, T.N.; SAVZDARG, V.E.; SEMIN, V.S.; SIMONOVA, M.N.;  
SMOLYANINOVA, N.K.; SOBOLEVA, V.P.; TARASENKO, M.T.; FETISOV, G.G.;  
CHIZHOV, S.T.; CHUGUNIH, Ya.V., prof.; YAZVITSKIY, M.N.;  
ROSSOSHCHANSKAYA, V.A., red.; BALLOD, A.I., tekhn.red.

[Fruitgrower's dictionary and handbook] Slovar'-spravochnik  
sadovoda. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 639 p.  
(MIRA 11:1)

(Fruit culture--Dictionaries)

ZHUCHKOV, N. P.

"Theoretical Determination of Optimum Parameters of Operation of Vibration Type Conveyors."

report presented at a coordination Conference on Problems of Design and Testing of Vibration type machinery, Mining Institute, Acad. Sci. USSR, 9-10 July 1958. (Izv. AN SSSR, Otdel Tekhn Nauk 1958, No. 11, p. 152)

affil. Novocherkassk Polytechnical Institute



25(5)

AUTHOR:

Zhuchkov, P.A., Candidate of Technical Sciences  
Docent

TITLE:

The Heat Exchange in Convective Dryers for Thin Materials (Teploobmen v konvektivnykh sushilkakh dlya tonkikh materialov)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - Energetika, 1959, Nr 3, pp 98-107 (USSR)

ABSTRACT:

Convective conveyer dryers, heated by steam-heated air heaters, are widely used for drying thin materials, for example in the textile, paper or wood working industry. With a multi-layer movement of the material to be dried, its surface absorbs heat by convection from the air passing thru the tunnel. In this article, the author presents calculation methods for dryers, either with merely convective or combined heat transfer. The equation system obtained in this way facilitates to perform calculations of the heat and mass-exchange in continuous convective dryers, taking into consideration radiation flow of heat from the low-temperature

Card 1/2

The Heat Exchange in Convective Dryers for Thin Materials SOV/143-59-3-13/20

steam radiators. The equations provide the required dimensions of the tunnel according to given magnitudes of initial and final moisture content and also according to given operating conditions. The equations also provide data for auxiliary devices. Finally, the author states that the calculation method developed by him does not take into consideration all the complicated physical phenomena observed during a drying process, but it yields approximated formulae for practical engineering calculations of such drying installations. There are 3 diagrams, 1 graph and 4 Soviet references.

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Card 2/2

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