"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

ACC NR: AP7001197

was experimentally investigated. Findings: (1) For precision electrolytic machining, the input-output temperature drop across the work-gap should not exceed 10C, and the electrolyte temperature should not exceed 40C; to ensure this temperature-drop limit, the electrolyte rate-of-flow should be over 0.03 lit/min per ampere; (2) Higher electrolyte temperatures result in greater roughness of machined surfaces; (3) The low temperature drop and necessity for quick removal of machining products from the gap require higher rate-of-flow of electrolyte; the associated higher pressure, however, may result in cavitation; (4) If the protective system turns off short-circuit power within 0.01 sec, the cathode temperature rises little, and cathode-insulating materials thermostable to 120—200C can be used. Orig. art. has: 4 figures, 13 formulas, and 1 table.

SUB CODE: 13, 09 / SUBM DATE: none / ORIG REF: 002

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, M. Kh.

USSR/Miscellaneous - Machine Tools

Card : 1/1

Authors : Moldavskiy, M. Kh.

Title : A Single-handled device for controlling velocities and feed mechanisms.

Periodical : Stan. i instr, 3, 26 - 28, Mar 1954

Abstract : A detailed description of a single-handled device for controlling velocities and feed mechanisms of milling machines. Diagrams, formulas for design and construction of such devices are also given.

Institution : ....

Submitted : ....

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, M. Kh.

Two-pulse mechanisms for program controlling of movements of chucking tables. Stan. i instr. 31 no.5:15-17 My '60. (MIRA 14:5)

(Machine tools—Numerical control)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, M.Kh.

Effect of blocking devices of the gate control gear on the number of switchings and the wear of the butts of blocked gears. Stan.i instr. 34 no.7:33-34 Jl '63. (MIRA 16:9)

(Gearing)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, M.Kh.

Selecting an optimum variant of transmission structure according to the number of gear-wheel engagements. Stan. i instr. 35 no. 4: 16 Ap '64. (MIRA 17:5)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

SPIZHARSKIY, T.N.; MOLDAVSKIY, M.L.; LESGAFT, A.V.

New data on the stratigraphy and age of Biryusa Paleozoic sediments. Mat. VSEGEI Ob. ser. no.8:67-69 '48. (MIRA 11:4)
(Biryusa Valley--Geology, Stratigraphic)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

RANDS, E.A.; MOLDAVSKIY, M.S.

Universal machine for cutting slots and spline grooves. Stan.i instr. 25 no.4:33 Ap '54. (MLRA 7:6)
(Machine tools)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, Mikhail Semenovich; RANDS, Edgar Aleksandrovich; PHUTYAN, L.N., redaktor; OFINA, V.I., redaktor izdatel'stva; TIKHONOVA, Ye.A., tekhnicheskiy redaktor

[Equipment used in ship repairing and shipbuilding; experience of the machine shop of the Riga shipbuilding and ship repairing yards] Prisposobleniia, primeniaemye v sudoremonte i sudostroenii; opyt mekhanicheskogo tsekha Rizhskogo sudostroitel'no-sudoremontnogo zavoda. Moskva, Izd-vo "Morskoi transport," 1956. 94 p. (MIRA 10:2)
(Shipbuilding) (Ships--Maintenance and repair)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

ANDREYEV, V.I., inzh.; MOLDAVSKIY, M.S., inzh.

Optical method for checking the installation of mechanical hatch covers. Sudostroenie 26 no.9:63-65 S'60. (MIRA 13:10)
(Ships--Maintenance and repair)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, O.D.

А.П.Прокоп О.Д.Молдавский Л.М.Болова Ю.С.Галушко	Влияние отдельных элементов на свойства стали в процессе кристаллизации.
М.Я.Дашевский Б.Ц.Хвостикова Э.Н.Татова	Влияние условий роста на структуру монокристаллов кремния.
С.Я.Слобко Е.А.Казаков В.А.Молотков	Затвердевание и неоднородность крупных стальных слитков различной конфигурации.
Е.А.Казаков С.Я.Слобко	Температурные условия затвердевания крупных стальных слитков.
Ю.П.Соловьев Б.А.Лавроатьев В.Б.Гуляев	Борьба с поверхностными дефектами на стальных слитках.
А.К.Прокорный В.П.Лелаков В.К.Лебедев В.Б.Гуляев	Непрерывная разливка стали в квадратные заготовки сечением 150x150 мм.
Н.Н.Гуляев А.А.Маслов А.А.Новикова В.Б.Гуляев	Исследование процесса затвердевания непрерывного слитка сечением 150x150 мм.

report submitted for the 5th Physical Chemical Conference on Steel Production, Moscow-- 30 Jun 1959.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

SOV/180-59-2-7/34

AUTHORS: Moldavskiy, O.D., and Pronov, A.P. (Moscow)

TITLE: Influence of Aluminium, Silicon and Chromium on the Nature of the Primary Structure of Low-Carbon Steel (Vliyaniye alyuminiya, kremniya i khroma na kharakter pervichnoy struktury malouglerodistoy stali)

PERIODICAL: Izvestiya akademii nauk SSSR, Otdeleniye tekhnickeskikh nauk, Metallurgiya i toplivo, 1959, Nr 2, pp 40-42 (USSR)

ABSTRACT: V.I. Danilov has given an equation (Refs 1,2) for the probability of formation of centres of crystallization in the solidification of a super-cooled liquid. The authors briefly discuss this and also the views of Semenchenko (Ref 3) and other workers in this field and give some results of their own experiments. In these, samples of armco-iron were melted in a 10-kg basic-lined, high-frequency induction furnace with the addition of Al, Si and Cr in amounts of 0.5 - 3.0 %. From each melt micro- and macro-sections were prepared, and samples of oxygen- and nitrogen-determinations, chemical analysis and hot cracking and shrinkage tests were taken. Figs 1 - 3 show microstructures of the steel (0.05% C) with increasing contents of aluminium, silicon and chromium, respectively, and its table shows grain sizes

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SOV/180-59-2-7/34

Influence of Aluminium, Silicon and Chromium on the Nature of the Primary Structure of Low-Carbon Steel

and nitrogen- and oxygen-contents for various percentages of aluminium added in the ladle and actually present in the steel. The authors show the following conclusions from their results and published material: 1) changes in the primary grain size of steel under otherwise similar conditions can be explained by a change in the liquid/growing-crystal surface tension; 2) the change in the primary grain of low-carbon steel on addition of aluminium of up to 0.15% is associated with the formation of high melting-point alumina compounds and nitrides which form centres of crystallization for iron; 3) the increase in grain size with additions of over 0.15% aluminium or over 0.50% silicon is explained by the influence of these elements on the liquid/nucleus surface tension; 4) addition of 0.5 - 3.0% chromium does not

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

SOV/180-59-2-7/34

Influence of Aluminium, Silicon and Chromium on the Nature of the Primary Structure of Low-Carbon Steel

affect the grain size of the steel nor its surface tension.
There are 3 figures (plates), 1 table and 7 references, 6 of which are Soviet and 1 German.

ASSOCIATION: Institut Metallurgii AN SSSR (Institute of Metallurgy, AS USSR)

SUBMITTED: December 16, 1958

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

SOV/180-59-3-9/43

AUTHORS: Moldavskiy, O.D. and Pronov, A.P. (Moscow)

TITLE: Influence of Primary Structure of Steel on its Tendency to Form Hot Cracks

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 3, pp 47-51 (USSR)

ABSTRACT: A.P.Bochvar (Ref 1), V.I.Dobatkin (Ref 2) and others (Ref 3 and 4) have indicated the effect of metal primary structure on the formation of cracks during solidification. The present authors have shown that these considerations apply to steel as well as non-ferrous metals. They give some of their results for low-carbon steel containing aluminium, silicon or chromium. Test conditions were chosen to reduce to negligible proportions the influence of the width of the "effective interval" of crystallization on the tendency to crack. The strength of the steel on crystallization was taken as the ratio of the load at which the crack forms to the cross-sectional area at the crack: the authors admit that the corresponding index of resistance to cracking is only relative. The test steel was poured into a special metal mould (Fig 3) so that one end of the solidifying specimen was held

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motionless while the other was attached to a movable head. Measurements were effected with the aid of a strain-gauge bridge circuit (Fig 2); the principles of this circuit have been discussed in literature (Ref 7). The authors have explained previously (Ref 5) the behaviour of aluminium present in excessive amounts. Their present work has shown a close relation between aluminium content and structure (Fig 4) and resistance to cracking (Fig 5). The greatest resistance is shown by metal with a fine primary structure. The authors note that in their work no eutectic films, which could influence the results are formed. With silicon primary-structure coarsening occurred at contents over 1% (Fig 6). Fig 7 shows that the relation between resistance to cracking and silicon content is similar to that for aluminium. With chromium, little change in primary structure of either low or high carbon steels occurs over the range 0.5 to 3% (Fig 8); the resistance to cracking remains unchanged over this range but below 0.5% the resistance falls (Fig 9). In general, the resistance to

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Influence of Primary Structure of Steel on its Tendency to Form Hot Cracks

cracking during crystallization is 0.4 to 0.8 kg/mm^2, the primary structure being the dominant factor for steels whose structure is a single-phase solid solution of any element in iron. High plasticity at the solidification temperature reduces the tendency to hot cracking. There are 9 figures and 11 references, 8 of which are Soviet, 2 German and 1 English.

SUBMITTED: January 22, 1959

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, O.D. (Moskva)

Role of aluminum in phosphorus-bearing steel. Izv. AN SSSR. Otd. tekh. nauk. Met. i topl. no.1:87-95 Ja-F '61. (MIRA 14:2)
(Steel—Metallurgy) (Aluminum)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

S/180/60/000/01/012/027
E111/E135

AUTHORS: Belova, L.M., Moldavskiy, O.D., and Pronov, A.P. (Moscow)

TITLE: Influence of the Nature of Grain Boundaries on the Strength of Steel in Solidification

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1960, Nr 1, pp 90-92 (+ 1 plate) (USSR)

ABSTRACT: Grain boundaries are particularly important for the strength of cast materials. Sulphur and phosphorus have a great effect on the tendency of steel to hot cracking. The authors describe their experiments on this effect and on influence of different deoxidizing procedures. Armco iron (0.04% C) and type U7 carbon steel (0.67% C) were melted in a basic-lined 10-kg high-frequency induction furnace and cast at a temperature 10-15 °C above the liquidus. Tendency to hot cracking was studied with an apparatus previously described by Moldavskiy and Pronov (Ref 1). Grain-boundary structure was studied metallographically and with an electron microscope, V.Ya. Nemykina and P.V. Churayev participating. Inclusions were also studied. The influence of sulphur

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

S/180/60/000/01/012/027
E111/E135

Influence of the Nature of Grain Boundaries on the Strength of Steel in Solidification

was investigated during solidification of technical pure iron having up to 0.20% S. The steel was deoxidized with 0.3% Al in the ladle or 1.0% silicocalcium added in the crucible. The effect of sulphur is shown in Fig 1, where strength on solidification is shown as a function of sulphur content for the two deoxidation procedures (curves . and 2 respectively), the effect being particularly marked with silicocalcium. Fig 2 shows strength of low-carbon steel with 0.2% S plotted against aluminium content, indicating that resistance to hot cracking rises a little as aluminium-content increases from about 0.2 to about 0.6, little further effect being obtained. In non-metallic inclusions (analyses in Table 1) sulphur exists as aluminium sulphide, precipitated at grain boundaries (Fig 3) and not as eutectic layers. Complex sulphides (Fe, Ca)S precipitate as envelopes on silicates, probably without affecting the increase in tendency to hot-cracking. The influence of phosphorus was investigated during solidification of

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S/180/60/000/01/012/027
E111/E135

Influence of the Nature of Grain Boundaries on the Strength of Steel in Solidification

technically pure iron and 0.5%-C steel, deoxidized with 0.5% Si; the element (up to about 0.45%) was added as ferro-phosphorus. Fig 5 shows strength as a function of phosphorus content for 0.04 and 0.50% C steels (curves 1 and 2 respectively). Phosphorus thickens grain boundaries (Figs 6, 7) and in the 0.50% C steel leads to complete isolation of grains (Fig 8). The nature of the precipitated phosphorus non-metallic inclusions for this steel with 0.335% P and 0.50% Si is shown in Fig 9. A finer grain structure, obtained by saturations with nitrogen, leads to higher strength on solidification. There are 9 figures, 1 table and 2 Soviet references.

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SUBMITTED: June 24, 1959

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

18.9200 1418, 1154, 1045

S/180/61/000/001/009/015
E071/E433

AUTHORS: Belova, L.M., Moldavskiy, O.D. and Pronov, A.P. (Moscow)

TITLE: The Influence of Oxygen-Containing Compounds of Niobium on the Resistance of Low Carbon Steel to Cracking

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1961, No.1, pp.119-121

TEXT: It was stated in a number of papers dealing with the welding of steel that the resistance to cracking of a weld made with electrodes alloyed with niobium increases at first and then decreases sharply, depending on the concentration of niobium in the weld. The authors attempted to determine the composition of the inclusions formed in steel-niobium compounds, their distribution, their amount and their influence on the resistance of steel to cracking. Armco iron was used for the investigations. Melts were made in a 10 kg induction furnace using a magnesite crucible. The deoxidation and alloying of the steel was done solely with ferroniobium (which was added into the crucible 2 minutes before teeming) in quantities such that a 0.4 to 4.5% niobium content was obtained. Chemical composition of ferroniobium, %: Nb 54.40; Si 11.29; Al 5.17; C 0.09;

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S 0.013; P 0.11. Specimens for the determination of non-metallic inclusions were cast in steel moulds 28 mm in diameter and 110 mm high. Specimens for determining the resistance to cracking were cast from each heat of metal using a method described in earlier work (Ref.2). The microstructure of the steel and the distribution of non-metallic inclusions were determined metallographically. In addition, qualitative and quantitative analysis of inclusions was carried out (by the method developed by Yu.T.Lukashevich-Duvanova). It was found that the amount of inclusions, their structure and composition change considerably with the content of niobium in steel (see table). The influence of inclusions formed by aluminium and silicon, introduced with ferroniobium was described earlier (Ref.2). In the case of niobium contents of up to 0.5%, comparatively large inclusions of a globular shape of a complicated structure (Fig.1a) were predominant. The above inclusions coagulate easily and consist of niobites (NbOFeO). On increasing the niobium content up to 1%, in addition to globular niobite inclusions, there were some crystalline precipitates of niobium oxides, the proportion of which increases with increasing niobium content. The latter inclusions

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were found to be free lower oxides of niobium. With a further increase in the content of niobium in steel the supersaturation of NbO FeO solution in niobites takes place leading to the formation of niobium oxides inclusions in the form of branches and rods (Fig.1,б,в), in addition to niobites. The amount of niobites decreases and even totally disappears at a niobium content in steel of up to 1.5%. At a still higher concentration of niobium (above 1.5%), in addition to blue (NbO_2) crystals, dull white crystals of Nb_2O_5 in the form of branches appear (Fig.1г) precipitating in steel along the grain boundaries (Fig.1д). A study of the structure of steel alloyed with niobium indicated that a noticeable effect appears at an Nb content exceeding 1%. At first this influence is visible in a more pronounced polyhedric shape of the grains (Fig.3а,б,в); further increase in the niobium concentration leads to a considerable diminution of the grain size (Fig.3г). The influence of niobium on the resistance of steel to cracking (Fig.2) is in accordance with the shape and distribution of niobium inclusions. At a niobium content below 0.5% the resistance to cracking increases; with the appearance of

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The Influence of Oxygen ... S/180/61/000/001/009/015
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independent oxide inclusions of a boundary nature of precipitation the resistance to cracking decreases whilst a further increase in the niobium content, when the predominant form of inclusions are higher oxides (NbO_2 and Nb_2O_5) separating on grain boundaries, the resistance to cracking decreases to a minimum. Some increase in the resistance to cracking at a niobium content above 2% is apparently associated with the influence of niobium on the diminution of the size of the crystals leading to a spreading of low-melting precipitates over a larger surface area and thus reducing their influence on the properties of the solidified metal. There are 3 figures, 1 table and 2 Soviet references.

SUBMITTED: April 1, 1960

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

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Fig.1. a - inclusions of niobates in steel of the composition: 0.04% C, 0.11% Nb (x1000);
б - rejected inclusions of niobates and of free niobium oxides in steel of the composition 0.04% C, 1.09% Nb (x600)

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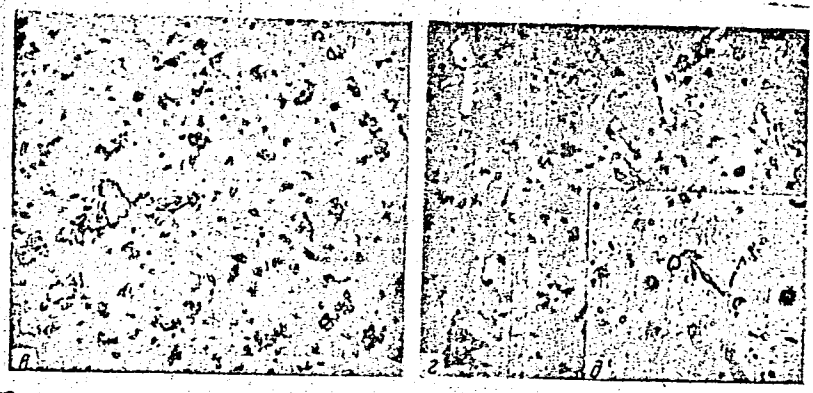

Fig.1. в - rejected inclusions of NbO_2 in steel of the composition 0.04% C, 1.57% Nb (x600);
г - rejected inclusions of NbO_2 and Nb_2O_5 in steel of the composition 0.04% C, 3.09% Nb (x600);
д - niobium oxides along the boundaries in steel of the composition 0.04% C, 3.09% Nb, polished surface unetched

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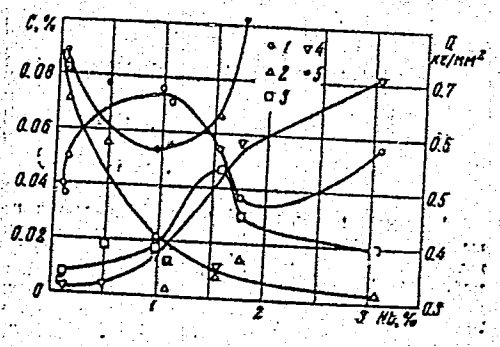

Fig.2. Resistance to cracking of steel Q, kg/mm2 and contents of niobium oxides in the non-metallic inclusions in % as a function of the niobium concentration in the steel: 1 - limit of resistance to cracking; 2 - NbO; 3 - NbO_2; 4 - Nb_2O_5; 5 - total of all the niobium oxides.

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Фиг. 3. Влияние Nb на микроструктуру малоуглеродистой стали: а — 0.11% Nb, б — 0.98% Nb, в — 1.83% Nb, г — 3.09% Nb; травление 3%-ной HNO_3 (×100)

Fig.3. Influence of niobium on the microstructure of low-carbon steel: a - 0.11% Nb, б - 0.98% Nb, в - 1.83% Nb, г - 3.09% Nb, etched with 3% HBO_3 (x100).

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(1) Nb в стали, %	(2) Содержание окислов ниобия в неметаллических включениях, % от растворенного металла				(4) Оксидные включения ниобия*, %
	NbO	NbO_2	Nb_2O_5	Сумма окислов ниобия (3)	
0.10	0.085	0.0025	0.00200	0.08950	80
0.11	0.072	0.0074	0.00213	0.08153	63
0.50	0.056	0.0184	0.00300	0.07740	44
0.98	0.022	0.0170	0.01450	0.05350	25
1.09	0.030	0.0117	0.01200	0.05370	25
1.57	0.009	0.0470	0.01080	0.06680	30
1.83	0.015	0.0310	0.05700	0.10300	45
3.09	0.004	0.0210	0.08200	0.10700	46

* В процентах от всего количества включе остальное Al_2O_3, SiO_2, FeO).

Table. Legend: (1) Niobium in the steel, %; (2) Content of niobium oxides in the non-metallic inclusions, % of the dissolved metal; (3) Niobium oxides, total; (4) Oxide inclusions of niobium.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, O.D.

Effect of nonmetallic inclusions on the crack resistance of phosphorous steel. Lit. proizv. no.9:12-13 S '61. (MIRA 14:9)
(Steel--Metallography) (Thermal stresses)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, O.D, inzh.

Nonmetallic inclusions of phosphorus in steel. Stal' 21 no.5:441-445 My '61. (MIRA 14:5)

1. Institut metallurgii AN SSSR.
(Steel--Metallography)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, O.D.; KARAKULA, M.V.; KULINICH, V.P.

Improving the quality of G13L steel. Lit.proizv. no.11:4-7 N '62. (MIRA 15:12)

(Manganese steel—Metallurgy)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

BURTSEV, V.T.; MOLDAVSKIY, O.D.

Vacuum arc furnace for steelmaking. Biul.tekh.-ekon.inform.Gos. nauch.-issl.inst.nauch.i tekh.inform. no.2:3-6 '63. (MIRA 16:2)

(Electric furnaces)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

PROKOSHKIN, D.A.; MOLDAVSKIY, O.D.; BANNYKH, O.A.; KOVNERISTYY, Yu.K.

Effect of phosphorus and aluminum on the mechanical properties of austenitic chromium-manganese steel. Izv. vys. ucheb. zav.; chern. met. 6 no.12:147-151 '63. (MIRA 17:1)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, O.D.

[Role of silicon and aluminum in reducing the harmful effect of phosphorus on the quality of steel] Rol' kremnia i aliuminiia v oslablenii vrednogo vliianiia fosfora na kachestvo stali. Moskva, Izd-vo "Metallurgiia," 1964. 87 p. (MIRA 17:6)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, O.D. (Moskva); PRONOV, A.P. (Moskva); Prinimali uchastiye: VASLYANINA, O.V.; LUKASHEVICH, V.Ya.; KRYGLOVA, Ye.V.

Speed of removal of nonmetallic oxide inclusions in liquid steel. Izv. AN SSSR. Met. i gor. delo no.5:23-34 S-O '64. (MIRA 18:1)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

POLYAKOV, A. Yu. (Moskva); VOLKOV, S. Ye. (Moskva); RASHIN, V.I. (Moskva)
MOLDAVSKIY, O.D. (Moskva)

Studying the conditions of liquid steel desulfuration with the help of CaF_2-base slags. Izv. AN SSSR Met. i gor. delo no.3: 52-57 My-Je'64 (MIRA 17:7)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

14(5)

SOV/92-58-9-7/36

AUTHORS: Moldavskiy, O.P., and Drobyshevskaya, N.I., Members of the VNIGNI

TITLE: Prevention of Caving (Bor'ba s obvaloobrazovaniyem)

PERIODICAL: Neftyanik, 1958, Nr 9, pp 8-9 (USSR)

ABSTRACT: The authors state that the drilling of boreholes at the Goryuchkinskaya geological platform (Saratov region), combined with the use of water, mud or other liquids as drilling fluids leads to caving of argillaceous sandy series of the Upper Carboniferous sediments. This caving complicates the drilling operation and renders it very difficult. Therefore in 1956 - 1957 the VNIGNI (All-Union Petroleum Scientific Research Institute for Geological Survey) assisted by local drillers, studied the possibility of reinforcing the caving arenaceous and argillaceous series. The formation was first flushed and then the resultant cavities were cemented. The authors describe in detail the procedure applied to borehole No.17 at the interval between

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SOV/92-58-9-7/36

756 - 788 m, where argillaceous sandy series were 32 m thick. Results of experiments were found satisfactory and further similar tests were conducted at the Kolotovskaya platform of the Saratov region. The reinforcement of clay and sandy formations by flushing them and cementing the resultant cavities eliminates the risk of tool stalling and other complications. It also makes possible the use use of water instead of mud when carboniferous sediments are reached. The discussed method of reinforcing the argillaceous sandstone formations has now been introduced in all wells of the Goryuchkinskaya and Kolotovskaya platforms.

ASSOCIATION: Nizhne-Volzhskiy filial VNIGNI (The Lower Volga Branch of the VNIGNI)

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, Oleg Petrovich, MARKUSHIN, Gennadiy Nikolayevich; POLYAKOV, Lev Petrovich; RAZUVAYEV, Vladimir Dmitriyevich; FOFANOVA, L., red.

[Improving boring equipment and technology] Sovershenstvovanie tekhniki i tekhnologii bureniia. [By] O.P. Moldavskiy i dr. Saratov, Saratovskoe knizhnoe izd-vo, 1963. 80 p. (MIRA 17:7)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, O.P.; KVITKO, V.M.

Core sampling using sectional core turbobits. Burenie no.2: 18-20 '65. (MIRA 18:5)

1. Konstruktorskoye byuro Nizhne-Volzhskogo soveta narodnogo khozyaystva.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

GRYZOV, I.S.; MOLDAVSKIY, O.P.; CHUPROV, F.F.

Testing diamond bits in Saratov Province. Burenie no.11:25-31 '64. (MIRA 18:5)

1. Upravleniye neftyanoy i gazovoy promyshlennosti Privolzhskogo soveta narodnogo khozyaystva po bureniyu i ob"yedineniye "Saratovneftegaz".

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

RED'KO, D.I.; MOLDAVSKIY, P.Yu.

Putting innovators' methods into practice. Spirt.prom. 21 no.1:33-34 '55. (MIRA 8:5)

1. Vinnitskiy spirtovoy trest.
(Distilling industry)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

REDʼKO, D.I., MOLDAVSKIY, P.Yu.

Opertional experience of a progressive plant. Spirt.prom. 21 no.4:22-23 '55. (MLRA 9:3)

1. Vinnitskiy spirtovyy trest.
(Bolshaya Martynovka--Distilling industries)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

RED'KO, D.I.; ~~MOLDAVSKIY, P.Yu.~~; BERENSHTEYN, A.F., spetsred.; KOVALEVSKAYA, A.I., red.; KISINA, Ye.I., tekhn.red.

[Progressive practices of the Martynov Alcohol Plant] Peredovoi opyt Martynovskogo spirtovogo zavoda. Moskva, Pishchepromizdat, 1956. 47 p. (MIRA 11:12)

(Martynov--Distilling industries)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

RED'KO, D.I.; MOLDAVSKIY, P.Yu.

Work of operational and technical councils. Spirt. prom. 22 no.3:24-25 '56. (MIRA 9:11)

1. Vinnitskiy spirtovyy trest.
(Distilling industries)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, P.Yu.

Remodeling a beer distilling apparatus for the distillation of molasses beer. Spirt. prom. 24 no.3:39-40 '58. (MIRA 11:6)
(Distillation apparatus)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, S.B., inzh.

Signaling and blocking devices for autoclaves. Bezop.truda v prom. 6 no.2:31-32 F '62. (MIRA 15:2)

1. Izhorskiy zavod.
(Autoclaves--Safety appliances)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, V.B.

ROMAN, L.I., dotsent; MOLDAVSKIY, V.B.

Surgical correction of neglected dislocations of the femur caused by injury. Ortop., travm. i protez. 18 no.2:59 Mr-Ap '57. (MIRA 10:8)

1. Iz Chernovitskogo meditsinskogo instituta i Chernovitskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach - kandidat meditsinskikh nauk, P.T.Karavayev)
(FEMUR--SURGERY)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVSKIY, V.L.; BLINOVA, M.V.; BABEL', V.G.; BUSLOVICH, Ye.Ya.; USMANOVA, M.Sh.

Production of dibasic acids by oxidizing oxy acids with nitric acid. Zhur.prikl.khim. 33 no.2:463-467 F '60. (MIRA 13:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.
(Acids, Organic) (Nitric acid)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDAVYANU, K., VARAKIU, N., DOMILESCU, K., DRAGICH, K. (Doctors, Bukharest Military-Veterinary Scientific-Research and Medical Center), and MARINESCU, I. (Laureate of the State Premium, Doctor).

"Clinical observation of horses during their feeding with corn".

Veterinariya, Vol. 38, No. 2, 1961, p. 73.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOL'DENGAUYER, O.

2-Acetamido-3-[2')furyl]-acrylic acid. Sint. geterotsikl. soed. no.4:12-14 '59. (MIRA 13:11)

(Furanacrylic acid)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDENHAUER, W.

The value of splenoportography in the diagnosis of pancreatic diseases. Casb. radiol. 19 no.4/5:328-332 Ag '65.

1. Medizinische Universitatsklinik Rostock, DDR.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

L 45948-66

ACC NR: AP6005980. SOURCE CODE: PO/0101/65/000/003/0035/0039

AUTHOR: Moldenhawer, Andrzej (Engineer)

ORG: none

26
B

TITLE: Present trends in the design of air-cushion vehicles

SOURCE: Warsaw. Instytut lotnictwa. Biuletyn informacyjny, no. 3, 1965, 35-39

TOPIC TAGS: air cushion vehicle, vehicle engineering

ABSTRACT: This is a general review of several distinct applications of air-cushion vehicles (i.e., amphibian, marine, overland, rail mounted, flying wing). Major trends in design principles, as well as design difficulties, are indicated for each class. Attention is focused on the inclusion of elastic aprons to overcome terrain feature difficulties, such as waves or roadbed obstacles, and to improve the service life of hull or body elements. Also discussed are details of compressed air ducting related to minimal consumption of horsepower for air cushion maintenance, steering problems in amphibian designs, forward motion systems, air compression systems, etc. Several illustrations are included. Major references are to the British SRN group of amphibian designs. Orig. art. has: 9 figures.

SUB CODE: 01,13/ SUBM DATE: none

Card 1/1 blg

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

L 29941-66 RO

ACC NR: AP6002839 (A) SOURCE CODE: PO/0101/65/000/004/0016/0018

AUTHOR: Moldenhawer, Andrzej (Engineer)

ORG: none

36

B

6

TITLE: Spraying aerodynamics

SOURCE: Warsaw, Instytut lotnictwa. Biuletyn informacyjny, no. 4, 1965, 16-18

TOPIC TAGS: agricultural engineering, insect control, ~~climatic control~~ plant disease control, ~~fertilizers~~, ~~agricultural machinery~~, ~~helicopter~~ utility aircraft

ABSTRACT: The prevailing methods of spraying liquid and pulverized chemicals by airplane are described and their shortcomings noted. It is stated that the shortcomings can be eliminated by employing pneumatic spraying inasmuch as it is more efficient and conducive to uniform distribution of the chemicals over the fields. In pneumatic spraying the liquid or pulverized chemicals were first carried inside and afterwards outside the airplane with the aid of a special air stream of high intensity generated by a motor driven fan. A prototype of an airplane designed for pneumatic spraying is shown below.

Card 1/2

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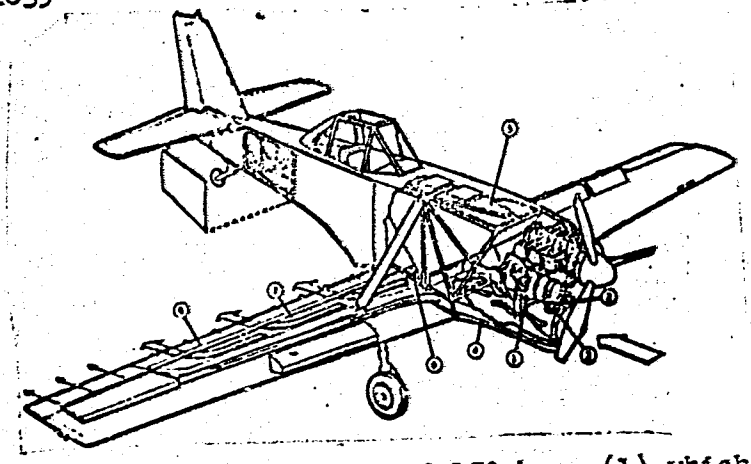
L 29941-66

ACC NR: AP6002839



It has an auxiliary piston engine of 150 h.p. (1) which drives a fan (3) with the aid of wedge-shape belts (2), a compressed air duct (4), a tank for the chemicals (5), a fuel pump with drive from the engine (6), air ducts buried in the wing (7), and nozzles through which the air-chemical mixture flows in. The aircraft specifications are: power of the propulsion engine - 290 h. p., flying weight - 2,350 kg, capacity of reserve tank - 1.1 m^3, maximum velocity - 240 km/hr, spraying rate - 220 kg/ha, i.e., 40 ha/hr, and fan efficiency - 10 m^3/sec. Orig. art. has: 7 figures.

Card 2/2 SUB CODE: 01,02, 06/ SUBM DATE: none

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

L 09043-67

ACC NR: AP6032015 SOURCE CODE: PO/0101/66/000/015/0028/0033

AUTHOR: Moldenhawer, Andrzej (Engineer)

ORG: none

TITLE: An air cushion vehicle in Poland

SOURCE: Warsaw. Instytut lotnictwa. Biuletyn informacyjny, no. 15, 1966, 28-33

TOPIC TAGS: air cushion vehicle, hovercraft, agricultural machinery, crop dusting vehicle, plant disease control

ABSTRACT: Research has been initiated at the Main School of Agriculture, Department of Agricultural Engineering in Warsaw on the construction and testing of a large hovercraft which could possibly be used for crop dusting and the transport of insecticide powder. This self-propelled air-cushion vehicle will have an annular nozzle and a lift fan driven by a 45-hp automotive engine. The vehicle will be able to move over any flat ground covered by low vegetation as well as over water and snow. Its payload will be 0.5 tons, which is sufficient for testing spraying and aerosol equipment. The following specifications on the ACV are given: length, 5 m; width, 3 m; height, 1.7 m; air cushion area, 13 m^2; air pressure in cushion, 55 to 100 kg/m^2; weight of craft,

Card 1/2

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

L 09043-67

ACC NR: AP6032015

550 kg; admissible height of obstacle, 0.2 m; dusting rate, 20 ha/hr; and payload, 500—600 kg. Orig. art. has: 7 figures and 2 tables. [W.A. 50]

SUB CODE: 01,06,02/ SUBM DATE: none

Card 2/2 nst

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

27

CA

Nicandra physaloides, a new oil-producing plant. K. Moldenhawer. *Przemysl Rolny i Spotywczy* 4, 50 (1950) (in Polish).—*Nicandra physaloides* planted in Poland yields from 1 ha. 800-1000 kg. seeds contg. 18% oil, a valuable raw material for the varnish industry.

W. Szybalski

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDENHAWER, KONSTANTY

Agrotechnika roslin oleistych. Warszawa, Panstwowe Wydawn. Rolnicze i Lesne, 1951. 111p. [Agrotechny of oleaginous plants]

DA Not in DLC

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 10, October 1957. Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDENHAWER, K.

Polish Technical Abst.
No. 1 1954
Agriculture, Food Processing
Industry, Forestry, Fisheries

2652

Moldenhawer K. New Oleaginous Plants. 633.85

„Nowe rośliny oleiste". Przemysł Rolny i Spożywczy. No 2, 1953 op. 58—64.

Experiments have shown the value of the following new oleaginous plants, introduced as field crops in Poland: Cramba abyssinica L., Carthamus Tinctorius L., Perilla ocimoides L., Cucurbita pepo L., Ricinus communis L., Sinapis alba L., Brassica juncae L., Helianthus annuus L. The fat content of the plants listed is given, together with such characteristic properties of the oil as the iodine value, and full analyses results for selected plants. Furthermore, 16 varieties of wild oleaginous plants were studied: these plants occur in Poland and may possibly be of value in the future for the fat industry.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDENHAWER, K.

"Planting oilseed plants in the Institute for the Breeding and Acclimatization of Plants." p. 63 (Nowe Rolnictwo, Vol. 2, no. 7, July 1953. Warszawa.)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress, Feb. 1954, Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDENHAWER, K.

"How to achieve good poppy seed crops." p. 11
"Maize for pasture." p. 12
(Plon, Vol 4 No 4 Apr 53 Warszawa)

SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Uncl

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDENHAWER, K.

Sowing winter rapeseed. p. 12. (PLON, Vol. 4, No. 7, 1953.)

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDENHAWER, KONSTANTY

Mak uprawny. (Wyd. 1.) Warszawa, Panstwowe Wydawn. Rolnicze i Lesne, 1956.
55 p. (Cultivated poppy. 1st ed.)
DA Not in DLC

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957 . Uncl

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

M

Country : POLAND
Category: Cultivated Plants. Grains

Abs Jour: RZhBiol., No 11, 1958, No 48862

Author : Moldenhawer, Konstanty
Inst : -
Title : On the Problem of the Appearance and Formation of Ramose Spikes on Rye.

Orig Pub: Acta agrobot., 1956, 4, 203-214

Abstract: A brief review of literature by different authors.

Card : 1/1

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDENHAWER, K.

AGRICULTURE

periodicals: NOWE ROLNICTWO Vol. 8, no. 1, Jan. 1959

MOLDENHAWER, K. The poppy and its economic importance. p. 34.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 5
May 1959, Unclass.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDENHAWER, Konstanty

The Institute of Garden Plant Breeding of the Department of Gardening and Domestic Cultures of the Higher Technical School in Hanover, the German Federal Republic. Postępy nauk roln 7 no.1:111-114 Ja/F '60. (EEAI 9:10)

(Germany, Western--Gardening)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDENHAWER, Konstanty

A mobile chamber for the freezing of plants under natural field conditions. Postepy nauk roln 8 no.5:113-118 S-O '61.

(Plants)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDENHAWER, Konstanty

Agricultural scientific research institutes in Hungary. Postepy nauk roln 8 no.6:119-126 '61.

(Hungary--Agriculture)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDENHAWER, Konstanty

Seed cakes and meals obtained after oil extraction from the seeds of high value oil plants and their chemical composition. Postepy nauk roln 9 no.4:17-23 Jl-Ag '62.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

ZUBENKO, V.F.; VALOVNENKO, D.K.; DORCSHENKO, Ye.I.; MOL'DERE T.D., st. nauchn. sotr.; SALEY, A.K.[Salei, A.K.], st. nauchn. sotr.; ALEKSANDROV, O.I.

[Informational material on mineral fertilizers, poisonous and chemical substances used in animal husbandry] Dovidkovyi material po mineral'nykh dobryvakh, otrutokhimikatakh ta khimichnykh rechovynakh, shcho zastosovuiut'sia v tvarynnytstvi. Zhytomyr, 1964. 106 p. (MIRA 18:6)

1. Zhitomir (Province). Sil's'kohospodars'ka doslidna stantsiya.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

JASINSKAITE, J.; KERVYTE, A.; MATKUTE, I.; MOLDERYTE, B.; NARVYDAITE, O.; PAZUSYTE, A.; PUODYTE, M.; RADZEVICIUTE, D.; REKSNYTE, B.; SEPETYTE, O.; TREBUTYTE, M.; VALAKEVICIUTE, I.; ZINKEVICIUTE, Z.

The incidence and piperazine therapy of ascariasis among students of the Vilnius Republican School of Medicine. Sveik. apsaug. no.12: 41-43 '62.

1. Respublikines Vilniaus medicinos mokyklos mikrobiologijos burelis. Mokyklos direktorius -- R. Markauskas; burelio vadovas -- J. Rubikas).
(PIPERAZINE) (ASCARIASIS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

SHATEMIROV, K.Sh.; MOLDOBAYEV, S.

Composition and properties of colored clays of northern Kirghizia and possibilities for their industrial utilization. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 2 no.11:143-152 '60. (MIRA 14:10)
(Kirghizistan—Clay—Analysis)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDOBAYEV, S.

Mineralogical composition of the colored clays of northern Kirghizia. Izv.AN Kir.SSR.Ser.est.i tekh.nauk 4 no.9:129-139 '62.

(Kirghizistan--Clay--Analysis) (MIRA 16:4)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDOKMATOV, DZH. Cand Med Sci -- (diss) "Types of ~~[etiological factors]~~ ~~causative agents in~~ in various forms ~~different types~~ of tuberculosis in Kirghizia". Frunze, 1956. 11 pp 22 cm. (Inst of Physiology, ~~Regional~~ Marginal Pathology and Surgery, Acad Sci Kazakh SSR) 120 copies (KL, 10-57, 104)

-24-

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDOKMATOV, D.

Types of causative agents in various forms of tuberculosis in Kirghizia. Sov.zdrav.Kirg. no.1:50-54 Ja-F '58. (MIRA 13:7)

1. Iz kafedry mikrobiologii (zav. - prof. S.I. Gel'berg) Kirgizskogo gosmedinstituta.
(KIRGHIZISTAN--MYCOBACTERIUM TUBERCULOSIS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

KAZAKBAYEV, A.; MOLDOKULOV, S., red.; BEYSHENOV, A., tekhn. red.

[Fourtieth anniversary of Lenin's plan for the State Commission for the Electrification of Russia and electrification of Soviet Kirghizistan] Lenindik Goelro planynyn 40 zhyldygy zhana Sovettik Kyrgyzstandy elektrleshtiruu. Frunze, Kyrgyz mamlekettik basmasy, 1961. 38 p. (MIRA 15:3)
(Kirghizistan--Electrification)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

15(9) RUM/3-59-8-10/32

AUTHOR: Moldoneanu, A., Engineer

TITLE: A New Branch of the Rumanian Chemical Industry - the Synthetic-Rubber Industry

PERIODICAL: Revista de chimie, 1959, Nr 8, pp 459-460 (Rumania)

ABSTRACT: The author first emphasizes the decisions of the 2nd Congress of the Rumanian Communist Party to develop the chemical industry. Due to the Communist regime, the author affirms, chemical production for 1959 will be tenfold that of 1958. One of the major units of development of the synthetic chemical industry is the plant for synthetic rubber and petrochemical products (Combinatul de Cauciuc Sintetic si Produse Petrochimice) which is being built quickly at Borzesti. The author describes the importance of the rubber industry all over the world, and affirms that the Soviet Union was the first country in the world which introduced 26 years ago industrial-scale production of synthetic rubber based on a process established by Soviet scientist S.V. Lebedev. After the USSR, Germany, the

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A New Branch of the Rumanian Chemical Industry - the Synthetic-Rubber Industry

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United States, and Canada built synthetic-rubber factories based on different processes. The production of the first Rumanian synthetic rubber (at Borzesti) will be based on the production of butadiene-methyl-styrene rubber. Butadiene is obtained from n-butane and the butane-butylene fraction supplied by the neighboring refinery. The rubber produced will satisfy internal needs and will be partly exported. Rubber production means a valorization of the petroleum gases at a value 40 times higher than the initial product (calculated by comparing the prices of gas and synthetic rubber). Butadiene will be obtained through dehydrogenation in two steps of n-butane in adiabatic reactors. The first dehydrogenation of the butane to butylene will be achieved in reactors with powdered catalysts, in fluid bed. As a second monomer for the production of Rumanian rubber α -methyl-styrene has been chosen for economic and technological

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RUM/3-59-8-10/32

A New Branch of the Rumanian Chemical Industry - The Synthetic-Rubber Industry

reasons. The α-methyl-styrene will be obtained by alkylation of benzene with propylene and dehydrogenation of the intermediate product (cumene) in adiabatic reactors. These products will be supplied by refineries: the benzene from Ploeşti and Borzeşti, and propylene from the Refinery of Borzeşti, in the form of a propana-propylene fraction. α-methylstyrene is better for production, especially in the recovery of non-reacted monomers, as it avoids a series of difficulties caused by styrene due to its self-polymerization in the degassing columns of the latex. The rubber obtained by copolymerization of butadiene and methylstyrene has practically the same properties as the butadiene-styrene rubber. The intermediate product, isopropylbenzene or cumene, is used as a raw material for production of phenol and acetone through oxidation with air of isopropylbenzene and catalytic scission of the hydroperoxide formed. By that means, the

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RUM/3-59-8-10/32

A New Branch of the Rumanian Chemical Industry - The Synthetic-Rubber Industry

same plants will produce 50,000 metric tons of phenol and 11,000 metric tons of acetone per year. The phenol obtained will be the basic material of the "relon" type fibers, plastics, insecticides, etc. The copolymerization of butadiene and α-methylstyrene is made in an emulsion at a temperature of +5° C, in a continuous process. As an initiator of the reaction, isopropyl-benzene hydroperoxide is used as well as an active redox system. The possibility of making rubber with oil is also provided. If the whole production of Combinatul de Causiuc would be rubber with oil, the capacity would increase from 50,000 tons per year to 60,000 tons per year without any additional investment, the author writes. The aid given by the Soviet planning institute GIPROKAUCHUK is also mentioned. Placing the Synthetic-Rubber Plant at Borzeşti in the vicinity of Refinery Nr 10, and the Thermal Power Plant and Combinatul Chimic Borzeşti ensures close coopera-

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

RUM/3-59-8-10/32

A New Branch of the Rumanian Chemical Industry - The Synthetic - Rubber Industry

tion between the plants, resulting in a greater efficiency for the whole industrial complex of Borzesti. As for future developments, it is provided to utilize more completely the residual gases resulting from the production of synthetic rubber. From isobutylene and isobutane a new very valuable rubber will be made, - butyl rubber - with small investment costs, within the framework of the Chemical Combinate. Butyl rubber can be made by copolymerization of isobutylene with 1-3% isoprene, at a temperature of -80 to -100°C.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDOSHEV, M., student IV kursa

Ichthyological expedition to Susamyr Valley in the summer of 1953. Sbor.nauch.rab.stud. Nauch. stud.ob-va Kir.un. no.2:63-65 '59. (MIRA 13:7)

1. Biologicheskiy fakul'tet Kirgizskogo gosudarstvennogo universiteta.
(Susamyr Valley--Fishes)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDOTOSHEV, B.

Mechanism of the resistance of prelimiarily irradiated animals. Sov.zdrav.Kir. no.2:41-44 Mr-Ap '63. (MIRA 16:5)

1. Iz kafedry normal'noy fiziologii (zav. - zasluzhennyy deyatel' nauki Kirgizskoy SSR, prof. Ye.I. Bakin) Kirgizskogo gosudarstvennogo meditsinskogo instituta (rektor - chlen-korrespondent AN Kirgizskoy SSR V.A. Isabayeva).
(RADIATION--PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDOVAN, A.

RUMANIA/Chemistry of High Molecular Substances. I

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 23734

Author : C. Bodea, A. Moldovan
Inst : -
Title : Influence of Carotinoids on Processes of Autooxidation and Polymerization. Report V. Autooxidation and Disacrylic Polymerization of Acrolein in Presence of α - and β -Carotins.

Orig Pub : Studii si cercetari de chim., 1956, 4, No 4-4, 161-165

Abstract : It is shown that an addition of α - and β -carotin (I) to acrolein (II) (even in the amount of 2 mg of I per 100 mg of II in 40 lit of C_6H_6), which is acted upon by diffused sunlight, inhibits the process of II autooxidation initiated by acyl and peracyl radicals (an induction period of 1 jour duration arises); I acts as an acceptor of the peroxide O_2. Small amounts of I accelerate the disacrylic polymerization of II (about 5 times more of

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

RUMANIA/Chemistry of High Molecular Substances. I

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 23734

disacryl is formed as at the check experiment during the same time) at the expense of the formation of I hydroperoxide, as it seems. The conclusion is arrived at that I can be used as an initiator of polymerization reactions of II.
See report IV in RZhKhim, 1956, 43076.

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USCOMM-DC-55,354

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

Moldovan, A.

RUMANIA

MOLDOVAN, A.

Pharmacist

Pharmacy of the "Brincovenesc" Hospital (Farmacia din Spitalul "Brincovenesc"), Bucharest.

Bucharest, Farmacia, No 2, Feb 63, pp 115-118.

"Preparation of a solution of injectable sodium lactate by using officinal lactic acid."

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

RUMANIA

BAIES, I., Dr, Prof, CONTIU, I., Dr, MICLEA, E., Dr, ONET, E., Dr, POP, M., Dr, and MOLDOVAN, A., Dr, of the Faculty of Veterinary Medicine (Facultatea de Medicina Veterinara) Cluj.

"Epizootiologic and Anatomic-Clinical Studies on Outbreaks of Aujeszky and Atypical Hog-Cholera Diseases."

Bucharest, Revista de Zootehnie si Medicina Veterinara, Vol 16, No 8, Aug 66, pp 42-48.

Abstract [Authors' English summary modified]: A study of two outbreaks of Aujeszky's disease in young and suckling pigs. The atypical nature of the symptoms is described; the anatomic-pathologic changes were characterized by inconsistent hemorrhagic diathasis. Economic losses as a result of a failure to reach a correct diagnosis promptly are pointed out, on the basis of one of the two described outbreaks in which hog cholera was also found.

Includes 6 figures and 5 references, of which 3 Rumanian and 2 French.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDOVAN, A.I., inzh.

Overall mechanization of underground mining of wall stone.
Mekh.stroi. 19 no.12:12-13 D '62. (MIRA 15:12)
(Moldavia--Quarries and Quarrying)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDOVAN, A.I.

Mechanization of labor-consuming processes in quarrying wall stone. Sbor. trud. Kish. otd. NIISMI no.4:38-46 '64.
(MIRA 18:2)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDOVAN, Al., BAUBEC, C., ing.; NICULESCU, D., ing.

The art of concreting. Constr Bue 16:3 19 D '64.

1. State Committee for Constructions, Architecture, and Systematization (for Baubec, Niculescu).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDOVAN, Al.; BIRIS, I.

Treating the glassblowing tubes for elimination of the iron.
Industria usoara 11 no.6:322 Je '64.

1. Turda Glass Manufacture.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

Moldovan, C.

MOLDOVAN, C.; ELISABETA, G.

MOLDOVAN, C.; ELISABETA, G. Results of the application of polarographic analysis. p. 58.

Vol. 8, no. 2, Feb. 1956.
METALURGIA SI CONSTRUCTIA DE MASINI.
TECHNOLOGY
RUMANIA

So: East European Accession, Vol. 6, No. 5, May 1957

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

ACCESSION NR: AP4015868 R/0017/63/000/008/0498/0501

AUTHOR: Dragos, Z. (Engineer); Moldovan, C. (Engineer); Epure, M. (Engineer)

TITLE: The use of sound and ultrasound in the casting of metal

SOURCE: Metalurgia, no. 8, 1963, 498-501

TOPIC TAGS: metal casting, ultrasound, soundwave, vibration, degassing

ABSTRACT: The authors summarize the various applications of sound and ultrasound in metal casting, calling attention to the indications and advantages/disadvantages of each method. The principal use of ultrasound is to obtain a finer crystalline structure, while the main effect of using sound is to cause very thorough stirring of the entire mass of liquid metal, resulting in degassing and more amorphous growth. Application of ultrasound may involve either irradiation of cast parts of irradiation of the liquid metal before casting. The use of sound in casting is simpler and more widely applicable than that of ultrasound, especially in the form of an 50-cycle electrodynamic vibrator which is resistant, easy to maintain and adjustable for a wide range of powers. The efficient degassing, visible to the naked eye, does not lengthen the casting period as it

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ACCESSION NR: AP4015868

can be performed, while removing oxidation products from the surface of the liquid, by simply resting the pot on the vibrator. Such an installation reduced the amount of rejects by 47 percent in the manufacturing of pistons made of the alloy $AlCu_4MgNi_2$; the gas content of the alloy decreased from 11.5 to 2.5 percent, traction resistance increased by an average of 12 percent, density of the metal increased, and hardness increased an average of 12 percent. The use of sound was also tested on 5 ingots of liquid steel, each 700 mm high, vibrated for about 15 minutes with a 50-cycle, 250 w vibrator. Because of the favorable results, a 5-kw, 50 cycle per second device capable of processing much larger pieces was built and is described. Results obtained with this device justify extension of this method. Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 21Oct63 ENCL: 00

SUB CODE: ML NO REF SOV: 000 OTHER: 000

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

PANTEA V., Ing.; MOLDOVAN, C., ing; TACU, T., ing.; EPURE, M., ing.

Electromagnetic hardening control system based on the changing of steel magnetic properties. Metalurgia constr mas 15 no.8:508-511 Ag '63.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

DRAGOS, Zamfir, ing.; MOLDOVAN, Cornel, ing.; EPURE, Mircea, ing.

Use of sound and supersonics in the foundry. St si Teh Buc 15 no.4:16-17 Ap '63.

1. Collective of the "Tehnica noua" Foundry and the Section of the Foundry of the "23 August" Plant, Bucharest.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDOVAN, I., lector; MOLDOVAN, C., prof. (Baia Mare)

Some itineraries of botanical excursions in Maramures.
Natura Biologie 16 no.3:54-59 My-Je '64.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8

MOLDOVAN, Danila, ing.; IVANESCU, Ion, ing.

Mechanization of loading and unloading operations of railroad freight cars at the stations of the main lines. Rev cailor fer 13 no.2:67-72 F '65.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135010020-8"