"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, E.N.

Vacuum distillation equipment for the separation of materials with high boiling points. E. N. Martinson, M. L. Alashkevich, V. I. Mirimanova, and A. T. Shiryaev. *Pribory i Tekh. Eksperimenta* 1956, No. 2, 133-6.—Two sizes of app. are described which have capacities of 0.22 and 2 l./hr., resp., when operating at a vacuum of 2×10^{-4} mm. They have been used for the concn. of both vitamin A and vitamin B prepns. Werner Jacobson

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G. G.

Mbr., Baykal Limnological Station, Acad. Sci. (-1 47-)

"Oscular Tubes in Baykal [illegible]," [illegible]

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

(1) MARTINSON, G. G.

(2) Mbr., Baykal'Limnological Sta., Acad. Sci., -c[illegible]-.

(3) "Remains of Living Organisms in the Bottom Depositions of Lake Baykal," Dok. A[illegible], [illegible], No. [illegible], 1[illegible];

(4) "Excavated Sponges from the [illegible] Basin in the Baykal Region," Ibid., No. [illegible], 1[illegible];

(5) "The Discovery of Neogenic Molluscs in the Irgutsk Carbonaceous Basin," Ibid., [illegible], No. [illegible], 1[illegible].

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

1. MARTINSON, G. G.

2. USSR (6 C)

4. Invertebrates, Fossil-Baikal Region

7. Fossil fauna of invertebrates in ancient continental ponds of the eastern Lake Baikal region. Trudy Baik. limnol. sta. 12, 1948

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

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G. G.

PA 43/43T34

USSR/Hydrology
Limnology

11 Jan 1948

"Remains of Living Organisms in the Bottom Depositions of Lake Baykal," G. G. Martinson, Baykal Limnological Sta, Acad Sci USSR, 4 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 2

Study made by the Baykal Limnological Station shows that the composition of remains of animal organisms in the bottom sediment of Lake Baykal is very different from remains of fauna in other ordinary small lakes. Describes method to study the monoliths, and discusses these differences. Submitted by Academician D. V. Nalivkin, 31 Oct 1947.

FDB

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APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G. G.

21548 MARTINSON, G. G.

Pervyye nekhodki neogenovykh mollyuskov v Irkutskom uglenosnom basseyne.
Doklady Akad. nauk SSSR, Novaya Seriya, t. LXVII, No. 2, 1949, s. [illegible] - [illegible]7.
Bibliogr: 10, [illegible].

SO: Letopis' Zhurnal'nykh Statey, No. [illegible], Moskva, 1949.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G. G. Cand Biolog Sci

Dissertation: "Tertiary Fauna of the Mollusks of the Eastern Baikal Area."
9/3/50
Paleontological Inst, Acad Sci USSR

SO Vecheryaya Moskva
Sum 71

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G. G.

Mollusks Siberia

Quaternary mollusks in ancient benches of the Angara and Irkut rivers. Biul. Kom. chetv.per., No. 16, 1951.

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

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G. G. 600

USSR (600)

Paleontology - Gusinoye Lake, Mollusks, Fossil

"Upper Mesozoic Fresh Water Mollusks from the Gusinoye Lake Region in Western Trans-Baikal" Dokl. AN, SSSR 83, No 1, 1952

Baykalskaya Limnologicheskaya Stantsiya Laboratorii Ozerovedeniya Akademii Nauk SSSR. rcd. 4 Dec 1951

SO: Monthly List of Russian Accessions, Library of Congress, August 1952, UNCL

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

Martinson, G. G.

USSR/ Minerals - Deposits

Card 1/1 Pub. 46 - 8/21

Authors : Martinson, G. G.

Title : On the diversity of the continental deposits of the trans-Baikal region

Periodical : Izv. AN SSSR. Ser. geol. 20/2, 82 - 90, Mar-Apr 1953

Abstract : On the basis of the study of new collections of Mesozoic fresh-water fauna, the examination of old findings, and the use of the results of spore and pollen conclusions are drawn regarding the diversity of the continental deposits of the trans-Baikal region. In the lowlands of this region it is possible to distinguish two types: in some the formation of deposits began during the middle Jurassic period and continued during the upper Jurassic and lower Cretaceous period; in others, the later ones, the deposits appeared only in the lower Cretaceous rocks. Eight references: 1 Japanese and 7 Russian (1937-1951). Table.

Institution : .....

Submitted : March 25, 1954

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.

New Mesozoic fresh-water lamellibranchs from Fergana. Trudy VSEGEI no.73:7-19 '53. (MLRA 7:7)
(Fergana--Lamellibranchiata, Fossil) (Lamellibranchiata, Fossil--Fergana)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

1. MARTINSON, G. G.

2. USSR (600)

4. Mongolia - Unionidae

7. New unionidae from the Upper Cretaceous deposits in Mongolia. Dokl. AN SSSR 89, No. 1, 1953.

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

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.

Dmitrii Nikolaevich Taliev; obituary. Trudy Lab.ozeroved. 3: 173-174 '54. (MLRA 8:2)
(Taliev, Dmitrii Nikolaevich, 1908-1952)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

[illegible], G. G.

"Some Fresh Water Gastropod Mollusca from the [illegible] of the Irkutsk Amphitheater," Dr. Nayk [illegible] [illegible] St., 1[illegible], [illegible] -1 1, [illegible]

At various spots, outcrops of tertiary clayey and carbonate formations containing remains of fresh-water and terricolous gastropods -- 15 forms of fresh-water and [illegible] forms of terricolous species -- are encountered in the region of the [illegible] (a Mongolian clan) of Ust'-Ordyn national okrug (district) in the river valleys and [illegible] on the water divides. The fresh-water gastropods belong to the genera Planorbis, Hippeutis, Gyraulus, Spiralina, Segmentina, Radix, Stagnicola, Ryhsan Bithynia, Lyrobia, and Melania, representing 10 new species and 2 new variants; five of the species were identical or very close to the Mongolian-Chinese Pliocene and Pleistocene gastropods. (Dan Geol, [illegible], 1955)

Sum. No. 681, 7 Oct 55

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.

Age divertisity of continental deposits of Transbaikalia. Izv.AN SSSR Ser.geol. 20 no.2:82-90 Mr-Ap '55. (MIRA 8:4)
(Transbaikalia--Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G. G.

USSR/ Geology - Stratigraphy

Card 1/1 Pub. 124 - 5/25

Authors : Martinson, G. G., Cand. of Biol. Sc.

Title : Mineral fresh water fauna and its importance for stratigraphy

Periodical : Vest. AN SSSR 25/12, 32-35, Dec 1955

Abstract : Biological and mineralogical data are presented on fresh water fauna minerals and their importance for the science of stratigraphy.

Institution : .....

Submitted : .....

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

Martinson, G. G.

USSR/Geology - Paleontology

Card 1/1 Pub. 86 - 10/37

Authors : Martinson, G. G.

Title : Lake basins of the geological past of Asia and their fauna

Periodical : Priroda 44/4, 78 - 82, Apr 1955

Abstract : A study is made of the prehistoric lake system in the region of Baikal, which is said to have been much more extensive than at present and to have been connected by rivers. The location of former lakes being indicated by depressions, in which remains of flora and fauna are found. An analysis of these flora and fauna is made. Two Soviet references (1949 - 1954). Illustrations.

Institution : .....

Submitted : .....

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

Martinson, G. G.

USSR/ Geology - Paleontology

Card 1/1 Pub. 22 - 45/62

Authors : Martinson, G. G.

Title : Various types of fresh water mollusks in Tertiary period deposits of Sintszyan

Periodical : Dok. AN SSSR 102/3, 591 - 593, May 21, 1955

Abstract : Geological data are presented regarding the various types of fresh water mollusks discovered in the Tertiary period deposits of Sintszyan, Central Asia. Thirteen references: 5 Russian and USSR, 3 Chinese, 1 German and 4 English (1882-1954).

Institution : .....

Presented by: Academician V. A. Obruchev, January 4, 1955

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.

Stratigraphy of Mesozoic continental deposits of Transbaikalia. Dokl. AN SSSR 105 no.2:335-338 '55. (MLRA 9:3)

1. Baykal'skaya limnologicheskaya stantsiya Vostochno-Sibirskogo filiala Akademii nauk SSSR. Predstavlena akademikom D.V. Nalivkinym.
(Transbaikalia--Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.; PEVZNER, P.S.

[Guide to Mesozoic and Cenozoic fresh water mollusks of eastern Siberia] Opredelitel' mezozoiskikh i kainozoiskikh presnovodnykh molliuskov Vostochnoi Sibiri. Moskva, Izd-vo Akademii nauk SSSR, 1956. 91 p. (MLRA 9:9)

(Siberia, Eastern--Mollusks, Fossil)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.

Fresh-water Mesozoic mollusks in some regions of Eastern and Central Asia. Trudy Baik. limnol. sta. 15:262-336 '57. (MLRA 10:8)
(Transbaikalia--Mollusks, Fossil)
(Mongolia--Mollusks, Fossil)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G. G. Doc Geol-Min Sci -- (diss) "Mesozoic and Cenozoic Molluscs in the Continental Deposits of the Siberian Platform, Transbaykal and Mongolia (Biostratigraphy, Systematics, Taphonomy)." Len, 1957. 37 pp 20 cm. (Len Order of Lenin State Univ im A. A. Zhdanov), 150 copies (KL, 18-57, 94)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON G.G.

AUTHOR: Lamakin, V.V. 22-90-3-13/16

TITLE: The Baykal Conference (Baykal'skoye sovesnchaniye)

PERIODICAL: Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva, 1958, Vol. 90, Nr 3, pp 300 - 301, (USSR)

ABSTRACT: A conference dealing with the investigation of Lake Baykal was convened at Ulan-Ude in October 1957 by the Baykal Section of the Buryat-Mongolian Branch of the Geograficheskoye obshchestvo SSSR (USSR Geographical Society). The conference was attended by workers from scientific and industrial institutions of the Buryat-Mongolian ASSR, the Baykal'skaya limnologicheskaya stantsiya (Baykal Limnological Station) of the AS USSR, the Siberian branch of the Vsesoyuznyy nauchno-issledovatel'skiy institut rybnogo khozyaystva (All-Union Scientific Research Institute of Fishing Industry), the Irkutsk University, the Irkutskiy sel'skokhozyaystvennyy institut (Irkutsk Institute of Agriculture) and by representatives of the KPSS Oblast' committee. The Conference heard the following reports: V.V. Lamakin, on "Nature of Lake Baykal, Its Exploration, Utilization and Protection"; P.P. Khoroshikh, on Baykal caves; Professor M.M. Kozhov, on the biological productivity of Lake Baykal; Ye.A. Koryakov, on Baykal "Golomyanki"

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

The Baykal Conference 12-90-3-13/16

(special perchlike fish); Dotsent N.S. Svirsov, on the Phoca factida and its protection; G.G. Martinson, on the origins of the Baykal fauna; B.R. Baytanuyev, on the utilization of Baykal natural resources; G.N. Rumyantsev, on "Russian (literary) Sources on the Baykal From the XVII Century"; M.G. Bakutin, on the life of birds in the Selenga delta; T.N. Gagin on the protection of the flight itinerary of birds in eastern Siberia. The conference decided to repeat yearly conferences on the Baykal; to increase collaboration on its investigation and to take measures to protect its nature and shores.

AVAILABLE: Library of Congress

Card 2/2

1. Conferences-Lake Baykal Investigation-Ulan-Ude 2. Scientific organizations-USSR 3. Lake Baykal-Economic aspects 4. Lake Baykal-Biology

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

SOV/20-1[illegible]

AUTHOR: Martinson, G. G.

TITLE: The Origin of the Baikalian Fauna Viewed in the [illegible] Paleontological Research (Proiskhozhdeniye f[illegible] svete paleontologicheskikh issledovaniy)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr [illegible] (USSR)

ABSTRACT: There have always been wide differences in the opinions on the problem of the origin of this fauna. As is known Vereshchagin (Refs 7-9) regarded the fauna and flora of the Baikal as being of marine origin while Berg (Refs 3 - 6) completely denied the influence of the sea and favored a fresh water origin. It was, however, generally accepted that the original forms of the present fauna and flora had come into the sea from outside. Most of the scientists also agreed that the organic world is of heterogeneous origin. In the present paper the author wants to solve only the problem of what time and from where the first generations of the Baikalian fauna arrived here, i.e. whether their penetration was really connected with sea transgressions. In contradiction to Vereshchagin (Ref 9) the author found on the basis

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SOV/20-120-5-53/67

The Origin of the Baikalian Fauna Viewed in the Light of Paleontological Research

of the Jurassic and Lower Cretaceous fauna that it had nothing in common with the characteristic Baikalian fauna and that it did not influence the latter at all. This disproves the alleged influence of the Mesozoic eastern transgression. To today one cannot speak of the influence of the northern south-eastern transgressions in the Mesozoic or Tertiary time. The most recent paleontological investigations have demonstrated that the huge continental waters of Mongolia played an important role in the formation of the recent Baikalian fauna. At the beginning of the Upper Cretaceous times (Cenonian stage) big waters had formed stretching from Japan (Yaponiya) and Southern Corea (Yuzhnaya Koreya) across Manchuria (Manchzhuriya) and Mongolia (Mongoliya) to **Central Asia** (Sredneyaya Aziya). It is possible that at the [illegible] brackish and connected with the eastern seas. A special fauna of vertebrates and invertebrates lived in them. Some species of this fauna were genetically connected with the marine fauna. In the Tertiary and Cenonian stage the big [illegible] separated into a [illegible] of big and small lakes. The author suggests the name n e o l i m n i c (neolimnicheskaya) for this new fauna. Before this fauna an older fauna, the

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SOV/20-120-5-[illegible]

The origin of the Baikalian fauna in the light of paleontological research

a l e o l i m n i c fauna lived in the lake basins of the Paleozoic, of the Triassic and the Lower Cretaceous time which spread widely on the globe. It can be assumed that the final origins of the Baikalian fauna formed simultaneously with the formation of the neolimnic fauna of Central Asia (Tsentral'naya Aziya). The roots of the Baikalian fauna as well as the fresh water elements of the Caspian fauna can be traced back to a single centre in Central Asia. There are [illegible] references, 16 of which are Soviet.

ASSOCIATION: Baykal'skaya limnologicheskaya stantsiya. Vostochno-Sibirskiy filiala Akademii nauk SSSR (Baikal Limnological Station of the Eastern Siberian Branch of USSR)

PRESENTED: February 10, 1958, by Ye.N. Pavlovskiy, Member, Academy of Sciences, USSR

SUBMITTED: February 3, 1958

1. Animals--USSR 2. Paleoecology 3. Geology--USSR

Card 3/3

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

SOV/20-121-2-40/53

AUTHOR: Martinson, G. G.

TITLE: On the Fauna of Interbedded Marine and Continental Mesozoic Deposits in Asia (O faune peresloivayushchikhsya morskikh i kontinentalnykh mezozoyskikh otlozheniy v Azii)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 2, pp. 343-345 (USSR)

ABSTRACT: The classification and the determination of the age of continental sediments has always caused great difficulties; the little knowledge of the fossil fresh water fauna has often not allowed to use the traditional biostratigraphic methods. In the course of the last years so many data on the Mesozoic time of Soviet Asia (sovetskaya Aziya) have been collected which concern the molluscs and the other groups that also the continental sediments are given a sound basis. At present three complexes are separated: 1.-Upper Triassic- Lower Jurassic (Leias), 2.-Middle Jurassic (Dogger), 3.-Upper Jurassic- Lower Cretaceous (including the Valengien (valanzhin)), 4.-Lower Cretaceous (Goteriv - Albien), 5.-Upper Cretaceous (Senoman-Turonian). In the work concerning the determination and

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

SOV/20-121-2-40/53

On the Fauna of Interbedded Marine and Continental Mesozoic Deposits in Asia

separation of single faunistic complexes the accurate determination of the age was the most difficult. First the relics of vertebrates and the impressions of plants were used for this determination, as well as the analysis of pollen and spores. The most reliable data were supplied by the continental-marine alteration of beds. (Ref 2). The cross sections of the Lena coal basin (Lenskiy uglenosnyy basseyn) are of first importance in the stratigraphy of the continental sediments of the Siberian Platform (Sibirskaya platforma) and of Transbaykalia (Zabaykal'ye). The determination of the age of this fauna proves the determination of the age of identical fossils from the Irkutsk coal basin (Irkutskiy uglenosnyy basseyn), at the Aldan shield (Aldanskiy shchit) in Transbaykalia (Zabaykal'ye) and in Mongolia (Mongoliya). Another important area is the West Siberian Lowlands (Zapadnosibirskaya nizmennost') where cyrenides and smaller gastropods characterize a Lower Cretaceous fauna. The sediments containing them are located on marine and lagoon sediments. Suppressed small Ostrea, Corbula and others of the brackish water type are found together with typical sweet water molluscs. Once even an ammonite

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SOV/20-121-2-40/53

On the Fauna of Interbedded Marine and Continental Mesozoic Deposits in Asia

(Spectoniceras sp. according to A. Ye. Glazunova) was found together with numerous Cyrena. It probably is a single ammonite shell embedded together with Cyrena which had been dislocated. Finally the mentioned inter-deposition in the Fergana and Tadzhik depressions (Ferganskaya and Tadzhikskaya depress.) are of great importance for the determination of the age of the continental Upper Cretaceous deposits. There are 5 references, 5 of which are Soviet.

ASSOCIATION: Baykal'skaya limnologicheskaya stantsiya Vostochno-Sibirskogo filiala Akademii nauk SSSR (Baykal Limnological Station of the East-Siberian Branch, AS USSR)

PRESENTED: March 3, 1958, by N. M. Strakhov, Member, Academy of Sciences, USSR

SUBMITTED: March 31, 1958

Card 3/3

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

SOV/20-59-1-41/53

3(5)

AUTHOR: Martinson, G.G., Doctor of Geologo-Mineralogical Sciences

TITLE: New Discoveries of Fossil Fresh-Water Fauna in East Siberia (Novyye nakhodki iskopayemoy presnovodnoy fauny v vostochnoy Sibiri)

PERIODICAL: Priroda, 1959, Nr 2, pp 112-113 (USSR)

ABSTRACT: The author states that sedimentary strata of fossil fresh water fauna indicate, in most cases, that during a former geological age there were rivers, lakes or swamps in the area concerned. In 1957, L.G. Strakhov, a geologist of the Irkutskoye geologicheskoye upravleniye (Irkutsk Geological Directorate) came across some interesting fossil fresh-water fauna in the "Oktyabr'" iron ore deposits in the Irkutskaya Oblast'. This fauna included small gastropoda, such as Valvata turgensis Martins, Valvata sp. and Galba sp., mollusks belonging to the Lamellibranchia class, such as Limnocyrena aff. wiljuica Martins, Limnocyrena aff. elongatus (Ramm.), minute crustaceans of the

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

SOV/26-59-3-41/53

New Discoveries of Fossil Fresh-Water Fauna in East Siberia

Ostracoda subclass, and also cogonia of characean algae. These fossils were found in carbonaceous layers containing admixtures of volcanic matter and in fine-grained sandstone within the crater zone of an ancestral volcano. According to data obtained from drilling in this area, the thickness of the effusive-sedimentary stratum in the center of the conduit attains 400 m. The extinct crater later filled with rain water to form a crater lake. The formation of the sedimentary stratum was expedited by fragments and tuffy earth falling from the crater edges. An analogous fossil fauna had been found in sedimentary strata of the Vilyuy Depression, the Transbaykal region and Mongolia. There, it characterizes the geological origin of rocks within the limits between the Upper Volga Stage of the Upper Jurassic Period and the lower levels of the Lower Cretaceous Period (Valanginian). The author points out that such a lake sedimentation with

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

SOV/26-59-2-41/53

New Discoveries of Fossil Fresh-Water Fauna in East Siberia

this specific fossil fresh-water fauna had not been known to exist on the territory of the southern part of the Siberian Plateau.

ASSOCIATION: Baykal'skaya limnologicheskaya stantsiya Vostochno-Sibirskogo filiala Akademii nauk SSSR (Baykal Limnologic Station of the East-Siberian Branch of the USSR Academy of Sciences)

Card 3/3

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.

Pseudocardinia, a new genus of Jurassic lamellibranchiates. Paleont.zhur. no.3:33-40 '59. (MIRA 13:4)

1. Vostochnosibirskiy filial Akademii nauk SSSR.
(Asia--Lamellibranchiata, Fossil)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

3(5) SOV/[illegible]-12/17

AUTHOR: Martinson, G.G.

TITLE: On I.S. Chumakov's Article "On the Remains of Marine Diatoms in Continental Kainozoic Deposits of Rudnyy Altay and the Boundary of Paleogene Sea on the South of Western Siberia" (K stat'ye I.S. Chumakova "Ob ostatkakh morskikh diatomey v kontinental'nykh kaynozoyskikh otlozheniyakh Rudnogo Altaya i granitse Paleogenovogo Morya i na yuge Zapadnoy Sibiri")

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1959, Nr 3, pp 114-115 (USSR)

ABSTRACT The author deals with the reasons for encountering shells of marine diatom algae in continental deposits of the Rudnyy Altay and its adjoining territories. Marine diatoms in Tertiary and Quaternary continental deposits are not rare. E.G., A.A. Zhuravleva and V.S. Poretskiy have determined numerous diatom algae from the Miocene lake sediments of the Tunka basin in Pribaykal'ye. It is to be noted that this region

Card 1/2

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SOV/11-59-7-1 /17

On I.S. Chumakov's Article "On the Remains of Marine Diatoms in Continental Kainozoic Deposits of Rudnyy Altay and the Boundary of Paleogene Sea on the South of Western Siberia

of the Eastern Siberia does not have any marine Tertiary deposits. A very unique composition of diatoms was determined by A.I. Zhuze from Tertiary deposits in the Far East. The occurrence of most simple marine organisms in fresh waters is not limited to diatoms only. According to statements by such explorers as A.I. Yanshin, V.V. [illegible] and K.V. Nikiforova, the [illegible] in the Eocene epoch or [illegible] of the Oligocene epoch. A number of remaining lakes were formed when reducing the surface of the marine basin. The further distillation of salt water in lakes resulted in the destruction of several lagoons. There are 4 Soviet references.

Card 2/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.; POPOVA, S. M.

New Tertiary mollusks of the Baikal type from lake deposits of southwestern Siberia. Paleont.zhur. no.4:105-109 '59. (MIRA 13:6)

1. Baykal'skaya limnologicheskaya stantsiya Vostochno-sibirskogo filiala Akademii nauk SSSR.
(Omsk Province--Mollusks, Fossil)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G. , doktor geol.-mineral.nauk

New finds of fossilized fresh-water fauna in eastern Siberia. Priroda 48 no.2:112-113 F '59. (MIRA 12:3)

1. Baykal'skaya limnologicheskaya stantsiya Vostochno-Sibirskogo filiala AN SSSR.
(Siberia, Eastern--Fresh-water fauna, Fossil)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.

Fossil mollusks in Asia and the origin of fauna in Lake Baikal. Geol. i geofiz. no.2:47-56 '60. (MIRA 13:9)

1. Baykal'skaya limnologicheskaya stantsiya Vostochno-Sibirskogo filiala Sibirskogo otdeleniya AN SSSR.
(Baikal, Lake--Paleontology) (Asia--Mollusks, Fossil)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G. G., VELIKZHANINA, L. S.

Brackish-water mollusks from lower Cretaceous deposits of the West Siberian Lowland. Trudy VNIGRI no.154:207-225 '60. (MIRA 13:9)

(Siberia, Western--Lamellibranchiata, Fossil)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.

Age of Mesozoic continental sediments in the southern Siberian Platform. Sov. geol. 3 no.8:126-131 Ag '60. (MIRA 13:9)

1. Vostochno-sibirskiy filial Sibirskogo otdeleniya AN SSSR.
(Siberian Platform--Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, Gerbert Genrikhovich; GALAZIY, G.I., otv.red.; TSVETKOV, N.V., red.izd-va; VINOGRADOVA, N.F., tekhn.red.

[Mesozoic and Cenozoic mollusks in continental sediments of Transbaikalia, Mongolia, and the Siberian Platform] Mezozoiskie i kainozoiskie molliuski kontinental'nykh Moskva, Izd-vo Akad.nauk SSSR, 1961. 332 p. (Akademiia nauk SSSR. Baikal'skaia limnologicheskaia stantsiia. Trudy, vol.19) (MIRA 14:4)

(Asia—Mollusks, Fossil)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.; KHUN YU-TSUN [Hung Yu TS' ung]

New upper Jurassic unionids from the western part of Transbaikalia. Paleont. zhur. no.2:28-34 '61. (MIRA 14:6)

1. Baykal'skaya limnologicheskaya stantsiya AN SSSR i Geologicheskiy muzey AN SSSR.
(Gusinoye Lake region--Unionidae, Fossil)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.

Distribution of Cretaceous Lamellibranchiata of the genus Trigonioides in the continental deposits of Asia. Dokl.AN SSSR 137 no.6: 1427-1429 Ap '61. (MIRA 14:4)

1. Baykal'skaya limnologicheskaya stantsiya Sibirskogo otdeleniya AN SSSR. Predstavleno akademikom N.M.Strakhovym.
(Asia—Lamellibranchiata, Fossil)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.

Corrolation of Mesozoic continental sediments in the central regions of Asia. Sov.geol. 5 no.8:161-164 Ag '62. (MIRA 15:9)

1. Vostochno-Sibirskiy filial Sibirskogo otdeleniya AN SSSR.
(Asia, Central--Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

POPOVA, S.M.; SAMSONOV, V.V.; MARTINSON, G.G.

Bivalve mollusks of the marine families of Solenidae, Mactridae, Cardiidae, and Aloididae in Cenozoic deposits of the Baikal Lake Region. Dokl.AN SSSR 149 no.1:162-165 Mr '63. (MIRA 16:2)

1. Limnologicheskiy institut Sibirskogo otdeleniya AN SSSR, Gosudarstvennyy trest po geologicheskim izyskaniyam na neft' v Vostochnoy Sibiri i Geologicheskiy muzey im. A.P.Karpinskogo AN SSSR. Predstavleno akademikom N.M.Strakhovym.

(Baikal Lake region--Mollusks, Fossil)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.; SOCHAVA, A.V.

Possibility of the wide utilization of freshwater fauna of mollusks for the division of Cretaceous continental formations in Central Asia. Dokl. AN SSSR 153 no.5:1145-1148 D '63. (MIRA 17:1)

1. Laboratoriya geologii dokembriya AN SSSR. Predstavleno akademikom D.V. Nalivkinym.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

PCHELINTSEV, Vladimir Fedorovich; MARTINSON, G.G., doktor geol.-miner. nauk, otv. red.

[Mesozoic Murchisoniata of the Crimean Mountains] Murchisoniata mezozoia gornogo Kryma. Moskva, Nauka, 1965. 21 p. (MIRA 18:5)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

SOCHAVA, A.V.; MARTINSON, G.G.; Prinimala uchastiye ZHZRNYL'SKAYA, G.I.

[Continental Cretaceous deposits of Fergana] Melovye kontinental'nye otlozheniia Fergany. Moskva, Nauka, 1965. 153 p. (MIRA 18:10)

1. Akademiya nauk SSSR. Otdeleniye nauk o Zemle.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, G.G.

Cretaceous Pelecypoda families Trigonioididae and their classification. Paleont. zhur. no.1:16-25 '64. (MIRA 19:1)

1. Laboratoriya geologii dokembriya AN SSSR. Submitted Feb. 7, 1963.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

VERESHCHAGIN, V.N.; MARTINSON, G.G.

First Interdepartmental Conference on Continental Mesozoic and Cenozoic Sediments in Soviet Asia and their Stratigraphy. Sov. geol. 8 no.10:162-164 O '65. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut i Laboratoriya kontinental'nykh otlozheniy LAGED AN SSSR.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, Gerbert Tenrikhovich; LAMAKIN, V.V., otv.red.; GORODINSKIY, F.V., red.izd-va; DOROKHINA, I.N., tekhn.red.

[In search for the ancestors of the Baikalian fauna] V poiskakh predkov vauny Baikala. Moskva, Izd-vo Akad.nauk SSSR, 1959. 110 p. (MIRA 13:3)

(Baikal region--Molluska, Fossil)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, K. [Martinsons,K.]

The struggle of the proletariat in the January days of 1905 in Riga. Vestis Latv ak no.2:5-10 '60. (EEAI 10:1)
(Latvia--History)

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S/111/60/000/009/001/001
B002/B060

AUTHORS: Korepanov, P. I., Chief Engineer
Martinson, K. P., Efficiency Expert

TITLE: Automatic Conveyor Lines at the Kiyev Post Office

PERIODICAL: Vestnik svyazi, 1960, No. 9, p. 20

TEXT: The first automatic conveyor line was installed at the Kiyev Post Office two years ago, and seven more have been added by now. These lines convey the incoming mail to the respective floors (including deliveries to the telegraph and pneumatic post departments). The conveyor lines switch on and off automatically, basing on a plan by the efficiency expert, K. P. Martinson. By a lever, a conveyed container closes a contact, and the following conveyor line is set in motion for some time. The duration of propulsion depends on how large the capacitor and the resistor are chosen to be in the relay (Fig.) When the relay of the type РПБ-4 РС4520150 (RPB-4 RS4520150) was used along with a 20μF electrolytic condenser and a 200 kΩ resistor as well as a selenium rectifier of the type АВС-25 (AVS-25), the working time was about

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83651

Automatic Conveyor Lines at the Kiyev Post Office

S/111/60/000/009/001/001
B002/B060

15 seconds. From 60 to 75% of electric energy is saved by the automatic switching on and off. There is 1 figure.

ASSOCIATION: Kiyevskiy pochtamt (Kiyev Post Office)

Card 2/2

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

USSR/Medicine - Streptomycin Sep/Oct 48
Medicine - Tuberculous Meningitis, Therapy

"Course of Tuberculous Meningitis in Children, Treated With Streptomycin," Kh. S. Martinson, Cand Med Sci, L. M. Pechuk, I. S. Dergachev, Tuberculosis Dept, Inst of Pediatrics, Acad Med Sci USSR, 6 pp

"Pediatriya" No 5

In 1947 Institute treated 30 children (age 4 months - 12 years) for meningitis, using Acad Shtern's method. Three recovered, 19 died, and

34/49T61

USSR/Medicine - Streptomycin (Contd) Sep/Oct 48

eight are still treated for chronic tubercular meningo-encephalitis. Describes course of disease, with special reference to a new clinical form unknown before use of streptomycin.

34/49T61

PA 34/49T61

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, Kh.S., kandidat meditsinskikh nauk (Moskva)

Acute poliomyelitis. Sov.med. 20 no.11:29-36 N '56. (MLRA 10:1)
(POLIOMYELITIS, acute)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, Kh., kand.med.nauk

Second session of the Institute for the Study of Poliomyelitis of the Academy of Medical Sciences of the U.S.S.R. Vop.okh. mat. i det. 4 no.3:88-91 My-Je '59. (MIRA 12:8)
(POLIOMYELITIS)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, Kh. S., kand. med. nauk

Nervous system complications in rubeola. Pediatriia no.6:71-75 '62. (MIRA 15:6)

(RUBELLA) (NERVOUS SYSTEM—DISEASES)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, Kh.S. (Moskva)

Embryopathy connected with rubeola. Vop.okh.mat.i det. 7 no.4:67-69 Ap '62. (MIRA 15:11)

(MEASLES) (DEFORMITIES)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, Kh.S.; VUL'FSON, I.N.

Neurological complications in diabetes mellitus in children. Vop. okh. mat. i det. 7 no.12:69-72 D'62. (MIRA:16:7)
(DIABETES) (NERVOUS SYSTEM—DISEASES) (CHILDREN—DISEASES

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

AGABABOVA-SKOBELEVA, V.V., kand. med. nauk; DOBROKHOTOVA, A.I., prof. [deceased]; ZHUKOVSKIY, M.A., kand. med. nauk; LEBEDEV, D.D., zasl. deyatel' nauki prof.; MARTINSON, Kh.S., kand. med. nauk; MOLCHANOV, V.I., prof.; NOSOV, S.D., prof.; SOBOLEVA, V.D., doktor med. nauk; SOLOV'YEV, V.D., prof.; SUKHAREVA, M.Ye., prof.; SHAPIRO, S.L., kand. med. nauk; SHERMAN, R.Z., doktor med. nauk; SHIRVINDT, B.G., prof.; DOMBROVSKAYA, Yu.F., otv. red.; POTAPOVA, I.N., red.; BEL'CHIKOVA, Yu.S., tekhn. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po pediatrii. Moskva, Medgiz. Vol.5.[Infectious diseases in children; aerial and droplet infections] Infektsionnye bolezni v detskom vozraste; vozdushno-kapel'nye infektsii. Red toma S.D.Nosov. 1963. 547 p. (MIRA 16:6)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Skobeleva, Solov'yev). 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Dombrovskaya).
(PEDIATRICS) (COMMUNICABLE DISEASES)

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

L 15651-66 EWT(1)/EWP(m)/EWA(d)/T-2/ETC(m)-6/EWA(1) IJP(c) WW

ACC NR: AP6003206 SOURCE CODE: UR/0382/65/000/004/0061/0066

AUTHOR: Martinson, L. K.; Pavlov, K. B.

ORG: none

62
B

TITLE: Plane laminar flow of a non-Newtonian liquid in a transverse magnetic field

SOURCE: Magnitnaya gidrodinamika, no. 4, 1965, 61-66

TOPIC TAGS: MHD flow, laminar flow, nonnewtonian flow

ABSTRACT: Two-dimensional laminar magnetohydrodynamic flows of a class of non-Newtonian liquids (so-called viscose-plastic flows) are studied. This flow is considered to be in a shallow flat channel with nonconducting walls. A uniform magnetic field is applied normal to the flow. The flow is caused by an applied pressure and the resulting pressure gradient in the flow direction. The equations describing the flow are solved to obtain the velocity profile. The motion of a central core of the fluid, behaving as a solid body is also derived on the pressure gradient and on the value of the magnetic field, as well as on the operating regime of the flow. The conditions which must be satisfied in order for the flow to become New-

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

L 15651-66

ACC NR: AP6003206

tonian are determined and their significance is discussed. The difference between the two kinds of flows is due mainly to the presence of the solid nucleus. Orig. art. has: 20 formulas.

SUB CODE: 20/ SUBM DATE: 17Jun65/ ORIG REF: 005/ OTH REF: 000

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

L 14560-66 EWT(m)/EPF(n)-2/T/EWP(t)/EWP(b) JD/WW/JG/DJ

ACC NR: AP6003210 SOURCE CODE: UR/0382/65/000/004/0085/0090

AUTHOR: Martinson, L. K.

ORG: none

TITLE: Magnetohydrodynamic coupling of momentum employing a liquid-metal flywheel

SOURCE: Magnitnaya gidrodinamika, no. 4, 1965, 85-90

TOPIC TAGS: magnetohydrodynamics, laminar flow, Maxwell equation, magnetic field, liquid metal

ABSTRACT: A scheme for using liquid metal flywheels in place of solid ball bearing flywheels is studied with respect to unproved performance and reliability. A schematic of the liquid metal flywheel is presented, and its properties are computed. Starting with a conservation of momentum for the entire system and considering the operation to be time-independent, magnetohydrodynamic equations for fluid velocity, and azimuthal magnetic field are derived. Density, viscosity, and electric conductivity are taken to be constant. Based on the appropriate Maxwell equation, solutions are obtained for a set of boundary conditions specifying

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L 14560-66

ACC NR: AP6003210

laminar flow. The solution requires, further, the assumption that the axial current is negligible in comparison to the radial current. These assumptions are well suited to the device under consideration. The final form of the solution is the expression for the relative angular velocity of the electrodes and is given as a function of the electrical and physical parameters of the device. In addition, velocity relaxation time is discussed for the case of the step-function form of the control voltage. A numerical example is also considered. "In conclusion the author wishes to thank M. I. Kiselev and K. B. Pavlov for consultation and assistance in the work." Orig. art. has: 2 figures and 26 formulas. [14]

SUB CODE: 20/ SUBM DATE: 19Mar65/ ORIG REF: 006/ OTH REF: 002/

ATD PRESS: 4196

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

L 29810-66 EWT(1)/EWT(m) WW/JW

ACC NR: AP6012686 SOURCE CODE: UR/0170/66/010/004/0545/0547

AUTHOR: Makarov, A. M.; Martinson, L. K.

ORG: N. E. Bauman Upper Technical School, Moscow (Vyssheye tekhnicheskoye uchilishche im. N. E. Baumana)

TITLE: Diagonal jump with complete condensation

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 10, no. 4, 1966, 545-547

TOPIC TAGS: vapor condensation, turbulent heat transfer

ABSTRACT: The article considers the problem of an oblique condensation jump, under the assumption that the condensation coefficient is equal to unity. Such a formulation of the problem follows, for example, from a consideration of the physical processes taking place in an element of surface of a cavity formed during the flow of vapor into a space filled with relatively cold liquid. It is assumed that the heat of condensation is given up by the vapor to the liquid and is completely removed from the condensation boundary by the stream of liquid. Thus, the concept of a "condensation jump" takes in a relatively broad layer within which there takes place turbulent transfer of heat to the liquid. The article considers the case of a homogeneous stream of vapor falling at an angle

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

L 29810-66

ACC NR: AP6012686

on the plane surface of a liquid. The laws of conservation connecting the flow parameters before and after the jump are written in the form:

$$\rho_1 c_{1n} = \rho_2 c_{2n}, \quad (1)$$

$$p_1 + \rho_1 c_{1n}^2 = p_2 + \rho_2 c_{2n}^2, \quad (2)$$

$$c_{1t} = c_{2t}, \quad (3)$$

$$\frac{c_1^2}{2} + i_1 = \frac{c_2^2}{2} + i_2 + q. \quad (4)$$

Subscript 1 refers to quantities which characterize the flow before the condensation jump; subscript 2 to quantities after it. The results of the mathematical treatment are claimed to be applicable to design of vapor-liquid injectors and to calculation of the fuel feed for liquid rocket engines. Orig. art. has: 13 formulas and 2 figures.

SUB CODE: 20 / SUBM DATE: 17Apr65/ ORIG REF: 003/ OTH REF: 002

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

ACC NR: AP6034582 SOURCE CODE: UR/0382/66/000/003/0069/0075

AUTHOR: Martinson, L. K.; Pavlov, K. B.

ORG: none

TITLE: Effect of magnetic plasticity in non-Newtonian liquids

SOURCE: Magnitnaya gidrodinamika, no. 3, 1966, 69-75

TOPIC TAGS: non Newtonian flow, conductive fluid, Couette flow, flow velocity

ABSTRACT: Characteristics of non-Newtonian conducting fluids are investigated under conditions of applied electric and magnetic fields in the generalized regime described by the rheological power law. Hartmann and Couette flows are considered in detail since they yield analysis. It is shown that the characteristic dimensionless parameter in such problems is the generalized Hartmann number M. This number contains typical flow velocity and is influenced by the exponent value in the power law. For fluids with the exponent less or greater than unity, the flow velocity determines M (in the opposite sense for the two cases). Only for unity exponent can the number M be used as velocity independent. The effect of the transverse magnetic field on the fluid flow is analyzed and it is shown that a critical number, M_{cr}, exists. For $M > M_{cr}$ quasi-solid regions occur (i. e., liquid velocity is unchanged over the channel cross

Card 1/2 UDC: 538.4

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ACC NR: AP6034582

section). This is due to the interaction of the non-Newtonian properties of the liquid with the magnetic fields, for which the authors propose the name "magnetic plasticity". Orig. art. has: 28 formulas, 2 figures.

SUB CODE: 20/ SUBM DATE: 28Mar66/ ORIG REF: 009/ OTH REF: 001

Card 2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

VASHKOV, V.I.; SHNAYDER, Ye.V.; BRIKMAN, L.I.; ZAKOLODKINA, V.I.; CHUBKOVA, A.I.; ALIMBARASHVILI, TS.N.; BABAYANTS, G.A.; BERIANIDZE, I.Sh.; ZAKHAROV, P.V.; ISAAKYAN, A.G.; LEVIYEV, P.Ya.; MARTINSON, M.E.; MRACHKOVSKIY, S.K.; NAYDICH, N.L.; NESTERVODSKAYA, Ye.M.; RAZMANOVA, Ye.M.; SAVINA, K.V.; SERGEYEVA, A.Ye.; SOKOLOVA, M.Ye.; FOMICHEVA, V.S.; CHERNYSHOVA, V.A.; SHUMILOVA, T.V.

Sensitivity to DDT of houseflies in various climatic zones of the USSR. Zhur.mikrobiol., epid.i immun. 33 no.8:20-24 Ag '62. (MIRA 15:10)

1. Iz TSentral'nogo nauchno-issledovatel'skogo dezinfektsionnogo instituta.

(FLIES--EXTERMINATION) (DDT)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

VASHKOV, V.I.; SHNAYDER, Ye.V.; ZAKOLODKINA, V.I.; BRIKMAN, L.I.; CHUBKOVA, A.I. ALIMBARASHVILI, TS.N.; BABAYANTS, G.A.; BERIANIDZE, I. Sh.; ZAKHAROV, P.V.; ISAAKYAN, A.G.; LEVIYEV, P. Ya.; MARTINSON, M.E.; MRACHKOVSKIY, S.K.; NAYDICH, N.L.; NESTERVODSKAYA, Ye.M.; RAZMANOVA, Ye.M.; SAVINA, K.V.; SERGEYEVA, A.V.; SOKOLOVA, M.Ye.; FOMICHEVA, V.S.; CHERNYSHEVA, V.A.; SHUMILOVA, T.V.

Sensitivity of houseflies to chlorophos prior to its use.
Zh. mikrobiol. 40 no.7:3-7 Jl '63 (MIRA 17:1)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

LEBEDEVA, L.I.; MARTINSON, N.G.

Determination of phosphorus as a hydroxyqu[illegible] [illegible] phosphoric acid. Zav. lab. 30 no.10:1201-1203 '64. [illegible]

1. Leningradskiy gosudarstvennyy universitet imen[illegible]

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

KURSHAKOVA, G.V.; MARTINSON, T.I.; SHCHELOKOVA, A.A.

Data on the biochemistry of Polygonum divaricatum L. and Polygonum hissaricum M. Pop. grown in Leningrad Province. Trudy Bot.inst.Ser. 5 no.7:284-288 '61. (MIRA 14:4)
(Leningrad Province--Knotweed)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

KURSHAKOVA, G.V.; MARTINSON, T.I.; RIVKINA, Kh.I.; FEDOROV, Al.A.; YAKIMOV, P.A.

Rhododendron aureum Georgi (Rh. chrysanthum Pall.) and its possible use as a tannin plant. Trudy Bot. inst. Ser. 5 no.9:291-302 '61. (MIRA 15:1)

(Sayan Mountains--Rhododendron) (Tannins)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

NIKITIN, A.A.; MOREVA, T.A.; MARTINSON, T.I.

Effect of microelements on the yield and carotenoid content of Calendula officinalis L. Bot. zhur. 49 no.9:1294-1298 S '64. (MIRA 17:12)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR, Leningrad.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

GRUZIN, P.L.; GULYAYEV, A.P.; MARTINSON, V.G.; POLIKARPOV, Yu.A.

Investigating the temperature relation of the self-diffusion ratio of iron in steel. Izv. vys. ucheb. zav.; chern. met. no.1:167-170 '60. (MIRA 13:1)

1.Moskovskiy vecherniy mashinostroitel'nyy institut i TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.
(Iron--Isotopes) (Diffusion)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, Ye., kand.khim.nauk; FIL'CHENKOV, N., inzh.; PLESHCHENKO, Ye., inzh.

Moisture indicator for hermetically sealed refrigerating machinery. Khol.tekh. 37 no.3:22-24 My-Je '60. (MIRA 13:7)
(Refrigeration and refrigerating machinery)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINOSIAN, Ye. A.

.11(A) SOV/1968

Neftyanoe-khimicheskoye obshchestvo nefteprovodov gosoptleksnarti

Red. statistiya gazovoy promyshlennosti SSSR; materialy Vsesoyuznogo soveshchaniya (Trends in the Development of the Gas Industry in the USSR; Materials Presented at the All-Union Conference) Moscow, Gostoptekhizdat, 1958. 432 p. 3,000 copies printed.

Eds: A.B. Kravts, B.S. Tkachenko, P.S. Shatsnenov, Ye.A. Krems, V.I. Popov, V.S. Bochen, S.I. Sychtsov, P.A. Tkachev, A.S. Bal'shevich; Exec. Eds.: N.I. Chernyshenko and N.N. Novikova; Tech. Ed.: E.A. Nikkina; Editorial Board: M.V. Nikonenko (Chief Ed.), L.S. Kuzenko, Ye.A. Krems, V.S. Bochen, and S.I. Sychtsov.

PURPOSE: The book is intended for specialists engaged in the production and gathering of natural gas, the extraction of gas from coal and shale, the construction and operation of trunk gas pipelines, gas supply to cities, and the processing of gas.

Card 1/11

ABSTRACT: The authors review the basic trends in the development of the USSR gas industry, the prospecting and exploration of new gas deposits, the gasification of solid fuels, the gathering and utilization of natural gas, the automation of gas field operations, the exploitation of gas wells, and ways to increase output. They further discuss the processing of natural gas with application of refrigeration, the experience gained in the laying and operating of trunk gas pipelines, the automation of gas pipeline operation, and underground gas storage facilities. There are no references.

TABLE OF CONTENTS:

Trends in the Development of the Gas (Cont.) SOV/1968

Martinosian, Ye.P. Methods for Speeding the Design, Construction, and Introduction of a System for Collecting and Transporting Natural Gas at the Saratov Oilfields 255

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Khlopov, Ye. V. Moscow Coal Gasification by Oxygen Pressure Blowing 307

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APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

LEBEDEV, B.F., kand.tekhn.nauk.; MARTINSON, Ye.F., inzh.; SAVICH, I.M., inzh.

Constructing an experimental pipeline using flat-wound aluminum pipes. Nov.tekh.mont. i spets.rab. v stroi. 20 no.12:13-15 D '58. (MIRA 12:1)

1. Institut elektrosvarki im. akademika Ye.O.Patona i Trest No.7 Glavneftemontazha Ministerstva stroitel'stva RSFSR.
(Pipelines) (Pipe, Aluminum--Welding)

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25(1) PHASE I BOOK EXPLOITATION SOV/5421

Akademiya nauk URSR, Kiyev, Institut elektrosvarki imeni akademika Ye.O. Patona

Vnedreniye novykh sposobov svarki v promyshlennost', vyp. 2 (Introduction of New Welding Methods in Industry; Collection of Articles, No. 2) Kiyev, Gos. izd-vo tekhn. lit-ry Ukrainskoy SSR, 1959. 194 p. Errata slip inserted. 3,000 copies printed.

Ed.: V. Garkusha; Tech. Ed.: S. Matusevich.

PURPOSE: This book is intended for workers in the welding industry.

COVERAGE: The book contains a discussion of welding techniques and problems by groups of scientists and welders. Much attention is given to problems in the application of new methods of mechanized welding and electro-slag welding. This is the second collection of articles under the same title prepared and published by the Institut elektrosvarki imeni Ye.O. Patona (Institute of Electric Welding imeni Ye.O. Paton). The preface is written by B.Ye. Paton, Academician of the Ukrainian Academy of Sciences and Winner of the Lenin Prize. There are no references.

Iskra, A. S. [Engineer], Yu. A. Sterenbogen [Candidate of Technical Sciences], V. M. Khrundzhe [Engineer; Institut elektrosvarki imeni Ye.O. Patona (Electric Welding Institute imeni Ye.O. Paton)], D. P. Antonin [Engineer, Zhdanovskiy zavod imeni Il'icha (Plant imeni Il'ich in Zhdanov)], V. I. Rabinovich [Engineer; Barnaul'skiy kotel'nyy zavod (Barnaul Boiler Plant)], and V. V. Cherevyk [Engineer; Novokramatorskiy mashinostroitel'nyy zavod (New Kramatorsk Machinery Plant)]. Electro-slag Welding of Steel-plate Constructions 17

Iskra, A. S. [Senior Engineer], A. M. Makara [Candidate of Technical Sciences], and L. V. Novikov [Senior Engineer; Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton)]. Making Bodies for Chemical Equipment by Electro-slag Welding of Medium-alloyed Steel Forgings 32

Medover, B. I. [Candidate of Technical Sciences], A. N. Safonnikov [Engineer; Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton)], and I. N. Yerakimenko [Head of Welding Department; Podol'skiy mashinostroitel'nyy zavod imeni S. O. Ordzhonikidze (Podol'sk Machinery Plant imeni S. O. Ordzhonikidze)]. Electro-slag Welding of Large Flanges of 1Kh18N9T Austenitic Steel 51

Gurevich, S. M. [Candidate of Technical Sciences], V. P. Dikovskiy [Engineer; S. D. Zagrebenyuk [Engineer; Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton)], P. S. Sipes [Head of Welding Office], and V. P. Shayrev [Technologist of a welding shop]. Electro-slag Automatic Arc Welding of Medium and Large Thickness of Titanium 64

Pokhodnya, I. K. [Candidate of Technical Sciences], V. F. Subbotovskiy [Senior Engineer], I. I. Frumin [Candidate of Technical Sciences; Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton)], L. A. Volkova [Shop Foreman; Dnepropetrovskiy metallurgicheskiy zavod imeni G. I. Petrovskogo (Dnepropetrovsk Metallurgical Plant imeni G. I. Petrovskiy)], V. F. Gorelov [Shop Superintendent; Alchevskiy metallurgicheskiy zavod imeni K. Ye. Voroshilova (Alchevsk Metallurgical Plant imeni K. Ye. Voroshilov)], and S. A. Ryzhenko [Chief Mechanic, Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine)]. Introduction of Automatic Hard-surfacing in the Metallurgical Industry 74

Iashberich, E. I., [Candidate of Technical Sciences], S. L. Mandel'berg [Candidate of Technical Sciences; Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institut imeni Ye. O. Paton)] Z. O. Kuyazhinskiy [Candidate of Technical Sciences; Ukrainskiy nauchno-issledovatel'skiy trubnyy institut (Ukrainian Scientific and Research Institute of Pipes)], and S. A. Frikke [Chief Engineer; Chelyabinskiy trubo-prokatnyy zavod (Chelyabinsk Pipe-rolling Plant)]. New Technique in Straight-seam Welding of Large-diameter Oil and Gas Pipes 93

Gorbunov, G. V. [Engineer; Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton)], F. A. Lesko, [Chief Engineer; Svarochno-montazhnyy trest (Welding and Assembling Trust)], and A. N. Yuryshev [Chief of the Department of Gas Pipeline Construction; Glavgaz SSSR (Main Administration of the Gas Industry of the USSR)]. Mechanized Methods of Welding in Pipeline Construction 108

Bayevskiy, G. V. [Candidate of Technical Sciences, Winner of Lenin Prize; Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton)], V. Ya. Marevskiy [Chief Engineer; Ukrglavneftesbyt (Ukrainian Main Administration for Petroleum Marketing)], and Ye. F. Martinson [Head of Construction and Assembly Administration No. 70; Trest 7; Ministerstvo [illegible] SSSR (Ministry of Construction, Trust 7)]. Introduction of the Welding Methods in the Petroleum Industry 118

MARTINSON, YE. F.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

PHASE I BOOK EXPLOITATION SOV/5078

Akademiya nauk URSR, Kiyev. Instytut elektrozvaryuvannya

Vnedreniye novykh sposobov svarki v promyshlennost'; sbornik statey. vyp. 3. (Introduction of New Welding Methods in Industry; Collection of Articles. v. 3) Kiyev, Gos. izd-vo tekhn. lit-ry UkrSSR, 1960. 207 p. 5,000 copies printed.

Sponsoring Agency: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni akademika Ye. O. Patona Akademii nauk Ukrainskoy SSR.

Ed.: M. Pisarenko; Tech. Ed.: S. Matusevich.

PURPOSE: This collection of articles is intended for personnel in the welding industry.

COVERAGE: The articles deal with the combined experiences of the Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton) and several industrial enterprises in solving scientific and engineering problems in welding technology. Problems in the application of new methods of mechanized welding and electroslag welding in industry are discussed. This is the third collection of articles published under the same title. The Foreword was written by B. Ye. Paton, Academician of the Academy of Sciences Ukrainian SSR and Lenin prize winner. There are no references.

TABLE OF CONTENTS:

Rayevskiy, G. V. [Candidate of Technical Sciences and Lenin Prize Winner, Electric Welding Institute imeni Ye. O. Paton], V. Ya. Rayevskiy [Chief Engineer, Ukrglavneftesbyt (Ukrainian SSR Main Administration for Petroleum Marketing)], and Ye. P. Martinson [Nach.stroitel'no-montazhnogo upravleniya No. 70 (Chief of Building and Erection Administration No. 70) Trest 7, Ministerstva stroitel'stva RSFSR (Trust 7 of the Ministry for Construction, RSFSR)]. Introducing the Method of Rolling-Up Welded Structures in the Petroleum Industry 84

Zaruba, I. I. [Candidate of Technical Sciences], and A. G. Potap'yevskiy [Senior Engineer, Electric Welding Institute imeni Ye. O. Paton]. Experience in Introducing Automatic and Semiautomatic Carbon-Dioxide Shielded Welding 90

Medovar, B. I., A. G. Potap'yevskiy, F. A. Ratin [Senior Engineer], S. V. Yunger [Head of Welding Laboratory, Stalingradskiy filial Giproneftemasha (Stalingrad Branch of the State Design and Scientific Research Institute for Petroleum Machinery)], and S. A. Zandberg [Chief of Welding Bureau, Stalingradskiy mashinostroitel'nyy zavod imeni Petrova (Stalingrad Machine-Building Plant imeni Petrov)]. Development and Introduction of New Techniques in the Automatic Shielded Flux-Welding of Steel With Chrome Stainless Cladding 99

Podgayetskiy, V. V. [Candidate of Technical Sciences], G. A. Pokhodnya [Candidate of Technical Sciences], V. P. Subbotovskiy [Senior Engineer], A. I. Fremin, [Candidate of Technical Sciences, Electric Welding Institute imeni Ye. O. Paton], V. P. Gorelov [Deputy Chief Mechanic], S. Ya. Shekhter [Chief of Shop, Alchevskiy metallurgicheskiy zavod imeni K. Ye. Voroshilova (Alchevsk Metallurgical Plant imeni K. Ye. Voroshilov)], N. A. Ryzhenko [Former Chief Mechanic, Magnitogorskiy metallurgicheskiy kombinat (Magnitogorsk Metallurgical Combine)], and N. A. Mal'tsev [Chief of Welding Department, Artemovskiy zavod "Tsvetmet" (The Artemovsk "Tsvetmet" Nonferrous Metallurgical Plant)]. Experience in the Introduction of Mechanized Surfacing in Metallurgy 115

MARTINSON, YE. P.

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, Ye.N.; ALASHKEVICH, M.L.; MIRIMANOVA, V.I.; SHIRYAYEV, A.T.

Vacuum distillation units for separating substances having high boiling points. Prib.i tekh.eksp.no.2:133-136 S-O '56. (MLRA 10:2)

1. Nauchno-issledovatel'skiy vakuumnyy institut.
(Vacuum apparatus) (Distillation apparatus)

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SOV/1[illegible]-5[illegible]-1

AUTHORS: Akishin, P. A., Vinogradov, M. I., Danilov, [illegible] N. P., Martinson, Ye. N., Rambidi, N. G. and Spiridonov [illegible]

TITLE: An Electronograph for Studying the Structure of Molecules of Non-Volatile Compounds (Elektronograf dlya issledovaniya stroyeniya molekul trudnoletuchikh soyedineniy)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1959 Nr 2, [illegible] (USSR)

ABSTRACT: One of the most widely used and effective methods of studying the geometrical structure of complex molecules is the electronographic method. The method is based on the study of the diffraction of fast electrons by the vapour of the substance under investigation. In the literature there is very little information on the geometry of the molecules of non-volatile compounds. This is due to experimental difficulties associated with such studies. Maxwell and his collaborators have described an electronograph with a high temperature evaporator which was used to study the structure of molecules of substances whose boiling points were 1[illegible]-1400°C. The present paper describes an electronograph which

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[illegible]

An Electronograph for Studying the Structure of Molecules of Non-Volatile Compounds.

was constructed in 1954 and can be used for substances with boiling points up to 2500°C. The instrument consists of an evaporator in which the substance under investigation is vapourised by electron bombardment, an electron gun and a special "sector device". Attempts were made and are described of preventing the radiation from the evaporator from reaching the photographic plate when studies are made of the diffraction pattern produced by vapours at high temperatures. The most effective way of screening the emulsion was by covering it with a thin layer of black ink which can be washed off before developing. The electronograph described in the present paper has been used to determine the configuration and geometrical parameters of 30 molecules of non-volatile halides of elements of the second group in the periodic table, many of which have boiling points in the range 1500-2500°C. These data were given in Refs.4-11. There are 5 figures, 1 table and 11 references, of which [illegible]

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SOV/1[illegible]-[illegible]-1 /3

An Electronograph for Studying the Structure of Molecules of Non-Volatile Compounds.

are English and 9 are Soviet.

ASSOCIATION: Khimicheskiy fakul'tet MGU (Department of Chemistry of the Moscow State University)

SUBMITTED: July 11, 1957.

Card 3/3

1 Complex compounds 2 Molecules--Structural analysis
3 Electronic equipment--Applications

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

MARTINSON, Ya.N.; ZAKHAROVA, M.P.; ALASHKEVICH, M.L.; KHOKHLOV, I.M.; KHOKHLOV, I.M.; SHIRYAYEV, A.G.; KASTORNYKH, M.S.

Obtaining vitamin E concentrates by means of high-vacuum distillation. Trudy VNIVI 6:75-81 '59. (MIRA 13:7)
(DISTILLATION) (TOCOPHEROL)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

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85355
S/120/60/000/005/027/051
E032/E314

26.2358
1.9600 18.8000

AUTHOR: Martinson, Ye.N.

TITLE: Production of Ultralow Pressures in Glass Systems Based on the Sorption of Gases by Evaporated Titanium Films

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No. 5. pp. 109 - 113

TEXT: The experiments reported in the present paper were carried out with the apparatus shown schematically in Fig. 1. The apparatus consisted of two parts. In one of these the titanium is evaporated and absorbs the gases, while the other part is used in the preliminary evacuation of the working volume. The first part consists of a cylindrical glass envelope 1 having a volume of about 1 litre. It includes two titanium evaporators 16 in the form of tungsten spirals fixed to molybdenum leads. A greaseless seal can be used to isolate this part of the system. The seal is operated magnetically. The pressure is measured by a hot-grid Alpert gauge. The high-vacuum envelope is evacuated by two glass mercury diffusion pumps of the Langmuir type (9) connected in series.

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S/120/60/000/005/027/051
E032/E314

Production of Ultralow Pressures in Glass Systems Based on the Sorption of Gases by Evaporated Titanium Films

Two liquid-nitrogen traps, 4 and 8, are placed between the mercury pumps and the high-vacuum region. A further liquid-nitrogen trap is placed between the backing pump and the mercury pump. It was found that it is possible to obtain ultra-low pressures in glass envelopes covered with a film of titanium. In a glass envelope having a volume of 1.23 litres and outgassed at 400 °C for three hours, a limiting vacuum of 10^{-9} mm Hg was obtained after a preliminary evacuation by the mercury pump and two successive evaporations of titanium onto the walls of the envelope. The limiting pressure was obtained in 35-40 min after the deposition of titanium. The pressure fell from $\sim 10^{-5}$ to 2×10^{-9} mm Hg in 10 min. It was found that after several evaporations of titanium a pressure of about 5×10^{-10} mm Hg could be obtained. The results of this investigation show that a glass envelope with a tungsten-titanium evaporator and an Alpert ionisation gauge working

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

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E032/E314

Production of Ultralow Pressures in Glass Systems Based on the Sorption of Gases by Evaporated Titanium Films

in conjunction with a mercury diffusion pump suitably isolated by traps from the working volume can be used to obtain pressures of the order of 10^{-9} mm Hg in a very short time.
There are 5 figures and 14 references: 9English, 1 German and 4 Soviet.

SUBMITTED: July 9, 1959

Card 3/3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2"

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

29601

S/120/61/000/004/010/034
E202/E592

26.2350

AUTHORS: Martinson, Ye.N. and Myznikov, K.N.

TITLE: Production of very high vacuum by sorption of residual gases on vacuum deposited films

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1961, 71-73

TEXT: The purpose of this work was to extend an earlier method (Ref.1: PTE, 1960, No.5, 109) in which high vacuum was produced in glass containers to stainless steel containers. The arrangement of the apparatus is shown in Fig.1, where 1 - stainless steel cylinder; 2 - cooling jacket; 3 and 4 - flanges with Al or Cu gaskets supporting the Alpert ionisation gauge (3) and four metallic powder evaporators made of tungsten coils supported on Mo bushings (4a); 5 - glass to steel joint; 6 - dry isolating valve operated magnetically, 7, 8 and 11 - liquid nitrogen cooled vapour traps; 9 - two ionisation gauges [Abstractor's note: probably "Pirani" type]; 10 - dry isolating valve; 12 - diffusion pump (mercury or oil vapour type); 13 - liquid nitrogen vapour trap protecting the diffusion pump; 14 - cut-off valve for the screw type pump, 15 and 15a - ionisation gauges; 16 - small container for the preliminary evacuation;

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Production of very high vacuum .. S/120/61/000/004/010/034
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17 - screw type mechanical pump and motor. Broken line rectangle shows the extent of the heating mantle used for degassing. Thus the apparatus consisted of two parts: in the first one the metallic powders were evaporated in a cylinder using the vacuum deposition technique - while the second part was producing the preliminary vacuum for the deposition. The ultimate, very hard vacuum was attained by sorption of the residual gases on the deposited films. Prior to film deposition the system was degassed. The final degassing started when the internal pressure dropped to 2×10^{-5} mm Hg and was carried out for a period of 80-100 hours at a temperature of 400°C, derived from a heating mantle. Within the last few hours of degassing the Alpert gauge was switched on and its grid degassed. On subsequent cooling, pressures of the order of $2 - 3 \times 10^{-7}$ mm Hg were attained. Next, the metallic powders were partially evaporated in turn from each evaporator, keeping the valve 6 opened. The deposition was effected by passing a current of 22 - 33 amps dissipating approximately 140-330 watts. Deposition from each evaporator took 2 min. Valve 6 was turned off and the fall of pressure measured until the limiting

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pressure was reached, when the valve was opened again connecting the diffusion pump. This cycle was repeated four times by which time all the 150 mg of the introduced metal were evaporated. Best results were obtained using a mercury diffusion pump and evaporating theorium, viz. 5×10^{-10} mm Hg titanium, zirconium and barium powders gave 8.8×10^{-10}; 1.8×10^{-9} and 2.1×10^{-9} mm Hg, respectively. The volume of the cylinder was 2.3 litres and the internal area approximately 1300 cm^2. The degree of deposition corresponded to 90% of the total area, giving a final thickness of the deposit of 0.4 - 0.5 mg/cm^2. There are 3 figures and 5 references: 2 Soviet and 3 non-Soviet. The English-language references read as follows: Ref.4: Tetsnya Arizumi, Kotani, J. Phys. Soc., 1952,7; Ref.5: W.J. Kroll, A. W. Schlichton, Electrochem.Soc., 1948, 93, 247.

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

L 35526-65 EWT(1)/EPA(s)-2/EPF(n)-2/EPR/T-2/EPA(bb)-2 Pg-4

ACCESSION NR: AP5008184 S/0286/65/000/005/0060/0060

AUTHORS: Martinson, Ye. N.; Plachev, B. I.; Mysnikov, K. N.; Stepanov, V. A.

TITLE: Working liquid for vacuum pumps. Class 27, No. 168840

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 60

TOPIC TAGS: vacuum pump, coolant, hydrocarbon, cryohydrate

ABSTRACT: This Author Certificate presents the application of cryohydrates as working liquids for vacuum pumps (such as mechanical or steam-jet pumps) for the purpose of providing hydrocarbon-free evacuation.

ASSOCIATION: none

SUBMITTED: 13Nov63 ENCL: 00 SUB CODE: IE

NO REF SOV: 000 OTHER: 000

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

L 00071-66 EWT(1)/EPA(s)-2/EPF(n)-2/T/ETC(m) WW

ACCESSION NR: AP5021352 UR/0120/65/000/004/0154/0160

621.528

AUTHOR: Martinson, Ye. N.; Plechev, B. I.; Putyatin, Yu. T.

TITLE: Zeolite continuous-acting vacuum aggregates for oilless pumping

SOURCE: Pribory i tekhnika eksperimenta, no. 4, 1965, 154-160

TOPIC TAGS: zeolite, sorption, vacuum pump, vacuum technology, vacuum tube

ABSTRACT: The need for the so-called "pure vacuum" led to the search for ways to reduce the hydrocarbon content by oilless pumping. While much was done in the recent years in this direction in the field of high and ultrahigh vacuum pumping, much less was done in the medium vacuum pumping field. The only commercial product of this kind is the zeolite intermittently operating Vasorb pump made by Varian Associates in the U.S. The authors developed an entire series of sorption zeolite continuously operating industrial-type vacuum pumps TsVA-01-1, TsVA-1-1, TsVA-01-2, and TsVA-1-2. This article describes the design of these pumps which produce and maintain a vacuum for 10^{-2} to 10^{-4} Torr in 10-100 liter volume starting at initial atmospheric pressure. The experience accumulated by the authors and Moskovskiy elektrolampovyy zavod (Moscow Electron Tube Factory) from 1963 on yielded data about the sorption capacity at low pressures and about the

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ACCESSION NR: AP5021352

best operating conditions for Soviet commercially produced zeolites. Pumping and vacuum purity characteristics of various types of zeolites are also given. Orig. art. has: 11 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 02Jul64 ENCL: 00 SUB CODE: IE, EC

NO REF SOV: 000 OTHER: 006

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

L 5197-66 EWT(d)/EWT(1)/EPA(s)-2/EWT(m)/EWP(w)/EPF(c)/EPF(n)-2/EWP(v)/T-2/EWP(t)
ACC NR: AP5025003 EWP(k)/EWP(h)/EWA(h) SOURCE CODE: UR/0286/65/000/016/0063/0063
ETC(m) JD/WW/JG/EM/DJ

AUTHORS: Martinson, Ye. N.; Khabarova, Z. V. 44,55

ORG: none

TITLE: Working liquid for vacuum pumps and regulating-measuring devices. Class 27, No. 173873

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 63

TOPIC TAGS: molten metal, pump, vacuum ejector pump

ABSTRACT: This Author Certificate pertains to the application of liquid metals and alloys with low vapor tension (such as Guthrie alloy) as working liquids for vacuum pumps of, say, Töpler or Gaede types, and for regulating-measuring devices.

SUB CODE: IE/ SUBM DATE: 20Jun63/ ORIG REF: 000/ OTH REF: 000

Card 1/1 UDC: 621.521

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

L 36365-66 EWT(1)/EWT(m)/T-2 WW

ACC NR: AP6012126 SOURCE CODE: UR/0413/66/000/007/0044/0044

22
B

INVENTOR: Martinson, Ye. N.; Plechev, B. I.

ORG: none

TITLE: Sorption vacuum pump. Class 27, No. 180291

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 44

TOPIC TAGS: vacu m pump, sorption

ABSTRACT: An Author Certificate has been issued for a pump containing a housing with a sorbent placed along its axis in the form of a circular cylinder and cooled both externally and internally by a liquid cooling agent, such as nitrogen, during evacuation. A detachable electnic heater for use in reclaiming the sorbent is part of the equipment. To extend the active sorption surface and for greater evacuation efficiency, the sorbent contains a concentric cavity with a cooling agent,

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ACC NR: AP6012126

agent, the latter circulating through coils around both the internal and external surfaces. Orig. art. has: 1 figure. [LD]

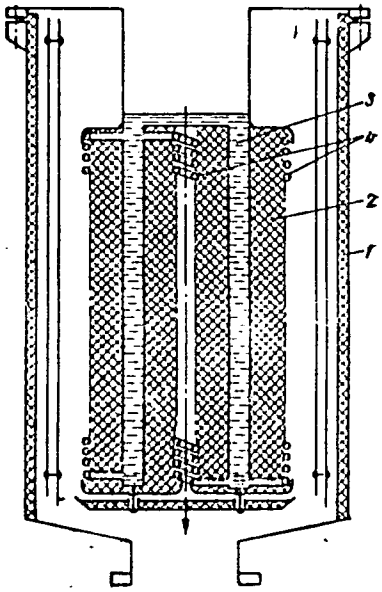

Fig. 1. Sorption vacuum pump. 1—housing; 2—sorbent; 3—circular cavity; 4— coils

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001032610006-2

ACC NR: AP6029045 SOURCE CODE: UR/0413/66/000/014/0060/0060

INVENTOR: Martinson, Ye. N.; Myznikov, K. N.; Nesterenko, A. G.; Leyn, F. Ya.

ORG: None

TITLE: A sorption vacuum pump. Class 27, No. 183878

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 14, 1966, 60

TOPIC TAGS: vacuum pump, sorption, titanium, stainless steel, alkali metal

ABSTRACT: This Author's Certificate introduces: 1. A sorption vacuum pump which contains a vessel with alkali metal used as a getter, and a means for cleaning the metal. The pump is simplified and purification of the alkali metal from volatile impurities is facilitated while simultaneously increasing the rate of evacuation of the pump by using a metal diaphragm as the means for purification of the alkali metal. This diaphragm covers the vessel so that only the alkali metal can escape. 2. A modification of this pump in which the diaphragm is made from stainless steel. 3. A modification of this pump in which the diaphragm is made from titanium.

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