L 27517-66 EWT(m)/EWP(e)/EWP(j)/T/EWP(v) IJP(c) WW/RM/WH

ACC NR: AP6005846 (N) SOURCE CODE: UR/0403/65/000/003/0008/0011

AUTHOR: Biryukovich, Yu. (Director of laboratory); Serbin, V. (Senior engineer); Biryukovich, D. (Team leader, Member of technical help bureau)

ORG: (Biryukovich, Yu.) VNIINSM, Kiev; (Serbin, V.) Institute of Mechanics AN UkrSSR (Institut mekhaniki AN UkrSSR); (Biryukovich, D.) VNIINSM.

TITLE: Glass-wool cements in the national economy

SOURCE: VDNKh SSSR. Informatsionnyy byulleten', no. 3, 1965, 8-11

TOPIC TAGS: general construction, structural mineral product, ship-building

ABSTRACT: The authors describe a new anisotropic construction material of glass-wool fibrous aggregates bound together by cement (or polymer-cement) glue. Its unit weight varies between 0.80 and 1.85 g/cu cm and its specific elongation is 0.9%. The material has good resistance against formation of cracks and fissures. The formation of micro-fissures starts at stresses in the range of 80 to 90% of tensile strength. The new material based on latex-cement glue has high dielectric properties. Its volume resistivity attains a value of 10^{14} ohm-cm

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ACC NR: AP6005846

and its surface resistivity goes up to 10^{13} ohm-cm. Puncture voltage is about 8 kv/mm. Thermal conductivity is about 0.1 to 0.9 kcal/m.hr. degree. The material is fireproof, waterproof, frostproof and resistant to the action of mineralized water. It can readily be machined, riveted bolted, glued and assembled. It can be colored by addition of pigments to its binding mineral glue. The glass-wool cement is about 30 times cheaper than structural glass-plastics. It is more expensive than reinforced concrete. However, its higher cost is compensated by a lesser weight needed for construction because the tensile and bending strengths of glass-wool cement exceed many times the strengths of reinforced concrete. The glass-wool cement is especially suitable for construction of window frames, thin walls, tanks, pipes, boat hulls, etc. Some examples of developing, testing and using this material for various constructions (mostly in the Kiev area) were presented, including apartment buildings, irrigation installations and shipbuilding. The motor-yacht "Novinka" built of glass-wool cement was shown in a photo. Its hull walls were only 1 cm thick for a yacht size 18 cu m. The yacht covered 3000 km during the 1963 navigation season (Dnepr River and Black Sea). Orig. art has: 2 photos.

SUB CODE: 11,13 / SUBM DATE: None / ORIG REF: 000 / OTH REF: 000

Card 2/2 BLG

BIRYUKOVICH, K.L., inzh.; BIRYUKOVICH, D.L., inzh.

Boat made of glass cement. Sudostroenie 27 no.4:40-42 Ap '61.
(MIRA 14:3)

(Boatbuilding)

L 2904-66 EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EWP(i)/EWP(j)/I/EWP(b) WW/RM/WH
AM5010321 BOOK EXPLOITATION UR/ 6S3 B64

Biryukovich, Konstantin L'vovich; Biryukovich, YUriy L'vovich; Biryukovich, Dmitriy L'vovich

Glass cement (Steklotsement) Kiev, Izd-vo "Budivel'nyk", 1964. 113 p. illus., biblio. 2400 copies printed.

TOPIC TAGS: cement; glass product; fiberglass; general construction, construction material, solid mechanical property

PURPOSE AND COVERAGE: The book deals with a new construction material glass cement, consisting of highly durable glass fiber and cement. Component materials and manufacturing technology of glass cement and different constructions from glass cement are described. Attention is given to the physical and mechanical characteristics of the glass cement and to the factors determining its strength and deformability. The practical use of glass cement, the technical and economical aspects, and data describing the most efficient use in the future are presented. The book is intended for engineering and technical workers in the construction industry and for designing and research organizations. It can be used as a univerasity textbook.

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L 2904-66
AM5010321

TABLE OF CONTENTS (abridged):

SUB CODE: MT

SUBMITTED: 19Nov64

NO REF SOV: 049

OTHER: 000

Card 2/2

L 52220-65 EWP(e)/EWT(m)/EPF(c)/EWP(t)/EWP(v)/EPR/T/EWP(b) Pc-4/Pr-4/Pe-4

ACCESSION NR: AP5017074 UR/0198/64/010/006/0623/0627

AUTHOR: Biryukovych, Yu. L.(Biryukovich, Yu. L.) (Kiev), Serdiuk, P. (Kiev)

TOPIC TAGS: glass product, nonmetal strength, nonmetal elasticity, nonmetal

ABSTRACT: Results are given of a study on the change [illegible] of age and [illegible]

Card 1/2

L 52220-65

ACCESSION NR: AP5017004

BIRYUKOVICH, K.L.; BURYUKOVICH, Yu.L.; SERBIN, V.P.; BIRYUKOVICH, D.L.

Structural elements of glass cement. Prom. stroi. 41 no.4:36-37 Ap '64. (MIRA 17:9)

BIRYUKOVICH, K.I., kand. tekhn. nauk; BIRYUKOVICH, D.L., inzh.; BIRYUKOVICH, Yu.L., inzh.; SERBIN, V.P., inzh.

Glass-reinforced cement yachts. Sudostroenie 30 no.12:29-33 D '64. (MIRA 18:6)

BIRYUKOVICH, Konstantin L'vovich; BIRYUKOVICH, Yuriy L'vovich; BIRYUKOVICH, Dmitriy L'vovich; SINTSOV, G.M., inzh., retsenzent; ZELICHENKO, A.Ya., nauchn. red.; KAZAROV, Yu.S., red.

[Small glass reinforced concrete and mesh reinforced concrete vessels] Melkie suda iz steklotsementa i armotsementa. Leningrad, Sudostroenie, 1965. 163 p. (MIRA 18:7)

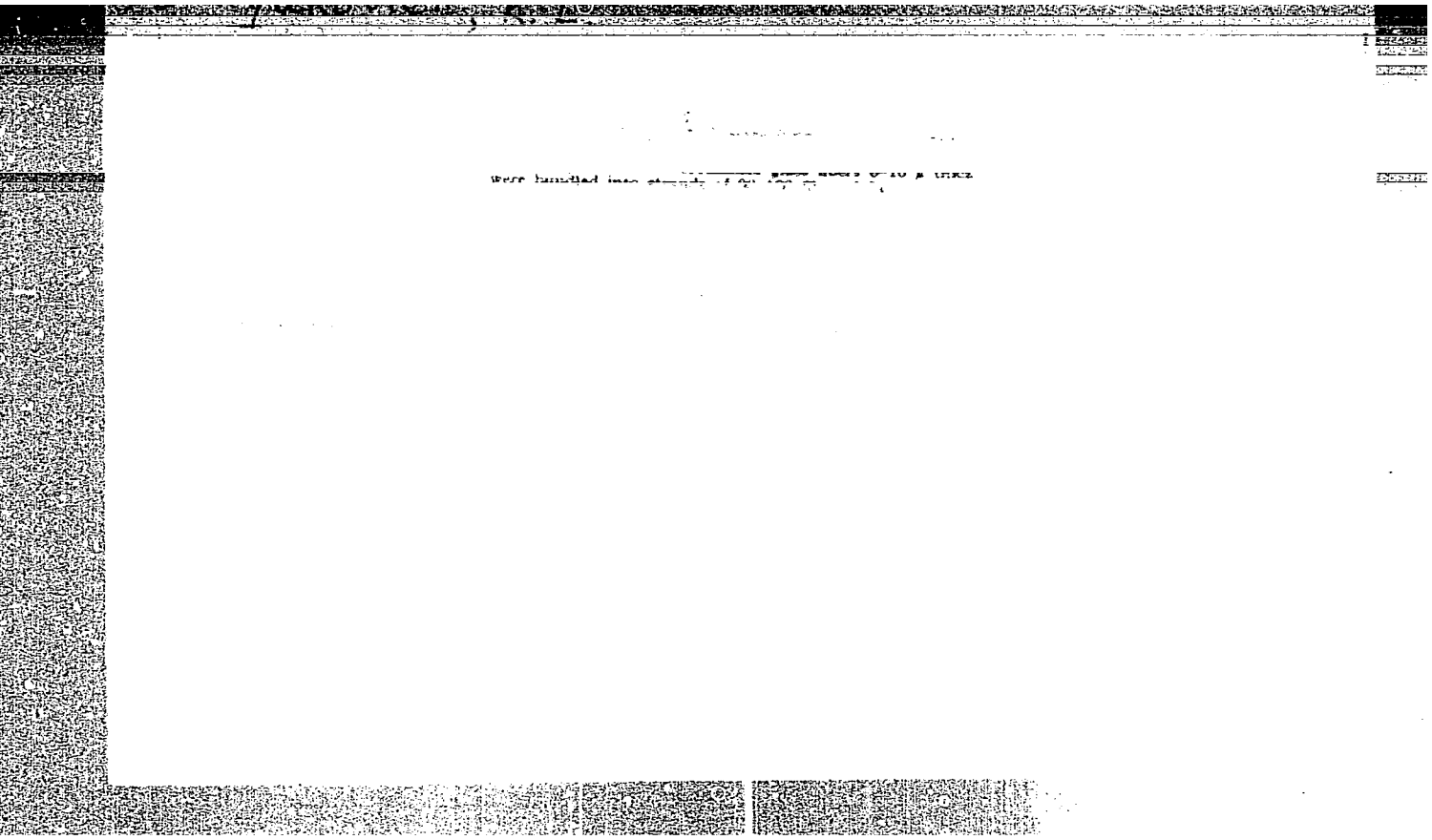
BIRYUKOVICH, D.L., inzh.

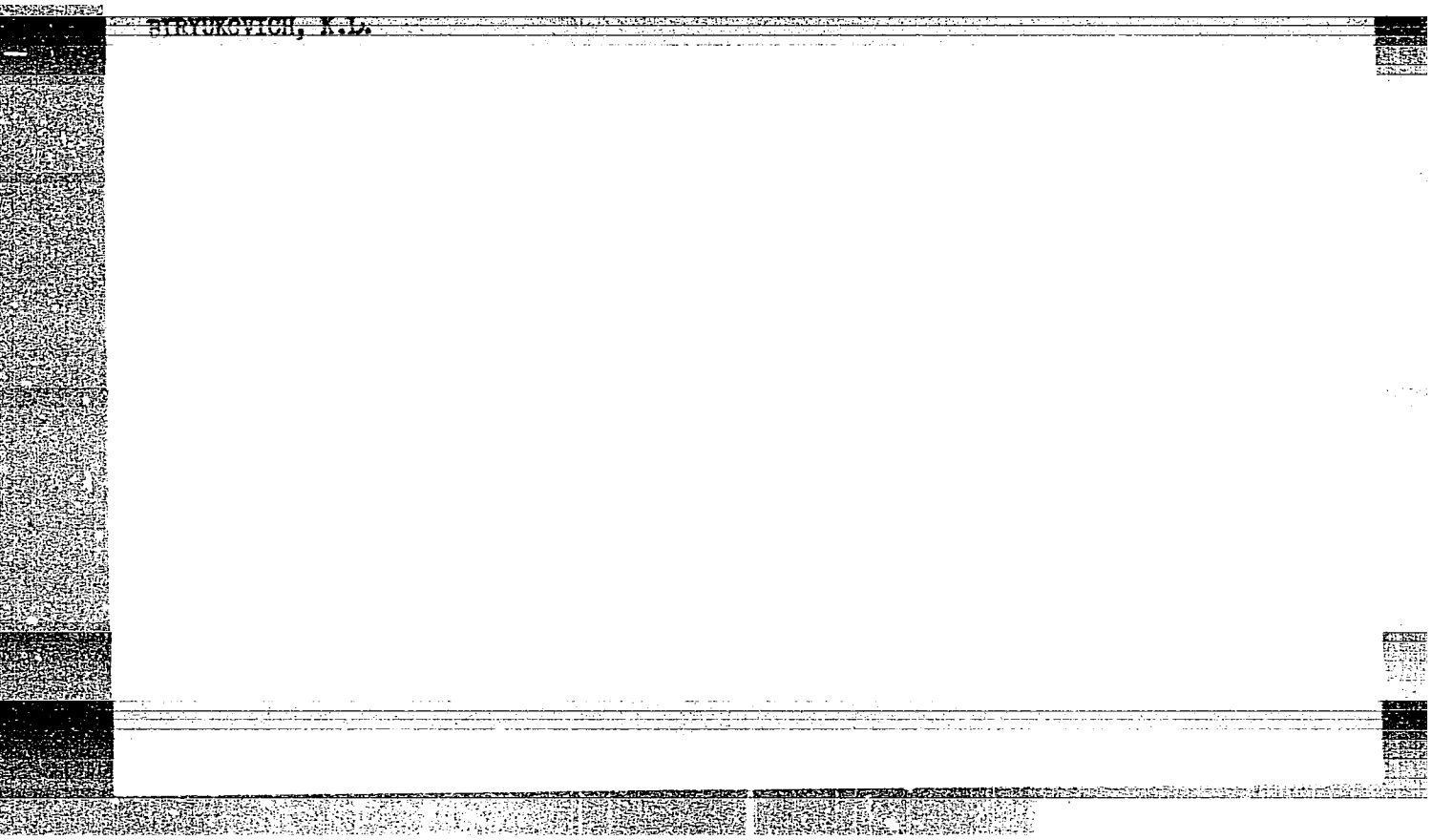
Launches made of mesh-reinforced concrete. Sudostroenie 27 no.10:48 O '61. (MIRA 14:12)
(Boatbuilding)
(Reinforced concrete construction)

BIRYUKOVICH, K.L., kand.tekhn.nauk; BIRYUKOVICH, Yu.L., inzh.; SHIRYAYEV, I.T., inzh.

Concerning the use of glass cement in the agricultural machinery industry. Trakt.i sel'khozmash. 32 no.4:37 Ap '62. (MIRA 15:4)

1. Kiyevskiy politekhnicheskiy institut (for K.L.Biryukovich).
2. Institut mekhaniki AN USSR (for Yu.I.Biryukovich).
(Agricultural machinery industry--Equipment and supplies)





67949

S/097/59/000/07/018/021
E141/E164

15.2120

AUTHOR: Biryukovich, K.L. (Engineer)

TITLE: The Strength and Deformation of Reinforcement made of Glass Fibre

PERIODICAL: Beton i zhelezobeton, 1959, Nr 7, pp 326-328 (USSR)

ABSTRACT: Investigations have recently been carried out, both in Russia and abroad, on the properties of glass fibre reinforcement, especially as to the possibility of using it for reinforcement in concrete. Glass fibres can be used as reinforcement for concrete constructions if they are used as wires are used in steel cables. The strength of such reinforcement decreases with the increasing amount of threads from which the cable or strip is made. According to M. Koul (Ref 1) the strength of threads twisted from fibres having a limit of strength of 11000 kg/cm^2 is, in the case of a 0.5 mm cable, approximately 7000 kg/cm^2, and in the case of 3 mm diameter fibre it is approximately 2000 kg/cm^2. I. Rubinsky (Ref 2) and Dzh. Weis (Ref 3) also state that with increased diameter of this glass fibre reinforcement its strength decreases. Weis also shows that cables in

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The Strength and Deformation of Reinforcement made of Glass Fibre

which threads are placed in straight runs are much stronger than those with twisted threads. This was also proved by A.K. Burov (Ref 4) as far back as 1945. The decrease in the strength of glass fibre cables with increased number of threads was discovered by the author of this article. The results of investigations of glass fibre reinforcement in the form of plaited ropes with fibres not in a straight line were given at the Third International Congress on Prestressed Reinforced Concrete, held in 1958. It was then stated that residual deformation of such reinforcement reaches 30%. Values given by the All-Soviet Scientific and Research Institute for Glass Fibre (VNIISV) showed that with the increase of the number of fibres corresponding strength of the batch decreases (Ref 7). V.Ye. Sheyko (Ref 8) found that short time tensioning of fibre (from 3 to 75% of its strength) results in increased strength of between 5 and 10%. The present author investigated the possibilities of defining the strength and elasticity of glass fibre cables and strips in relation to numbers of threads and conditions of tensioning. Tests were carried out using continuous

The Strength and Deformation of Reinforcement made of Glass Fibre

non-alkaline alumino-borosilicate glass fibre, of 6 to 7 μ diameter and modulus of elasticity of 750 000 kg/cm^2, with limit of strength of 22 000 kg/cm^2. A diagram of the tensioned glass fibre is given in Fig 1. Due to the fact that glass fibre strips and cables are extremely sensitive to mechanical damage during fixing in the anchors of the tensioning machine, which relies on friction to hold the sample, the author worked out a method of anchoring to obviate this risk. Fig 2 shows this new method of fixing. For the purpose of investigation the samples were divided into two groups: the first, cables and strips, tested once only, the load being then increased progressively to breaking point; the second, cables and strips, tested twice. The first time they were tensioned to 70% of the breaking stress; the stress was then removed and the sample was moved along to change the place of anchoring, after which tensioning continued up to breaking point. The tests with the first group showed a definite order in the reduction of the strength and modulus of elasticity with increase in the number of threads. This is illustrated by the curves in Fig 3.

The Strength and Deformation of Reinforcement made of Glass Fibre

Fig 4 shows the relationship of the modulus of elasticity of cables and strips with the quantity of fibres used. The investigations carried out with the second group showed that cables and strips subjected initially to 70% of the critical stress, with subsequent change of the anchoring position, reached 20 to 50% greater strength than similar samples of the first group. It can be concluded that increased strength of cables and strips due to preliminary tensioning is caused by engaging individual fibres in a more uniform way. According to investigations by V.Ya. Sheyko (Ref 8) it can be concluded that in given circumstances cables and strips do not show exceptional elastic deformation. The modulus of elasticity of cables and strips tested after preliminary tensioning up to 20-25% was found to be higher than the modulus of elasticity of those tested without preliminary tensioning.

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There are 4 figures and 8 references, of which 5 are Soviet, 2 English and 1 French.

BIRYUKOVICH, K.L., inzh.

Boat made of fiberglass-rainforced cement. Sudostroenie 26 no. 11:44-45 N '60. (MIRA 14:1)
(Boatbuilding)

BIRYUKOVICH, K. L.

Cand Tech Sci - (diss) "Search for an effective system of forming material on the basis of cement stone reinforced with glass fiber." Kiev, 1961. 19 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Kiev Construction Engineering Inst); 170 copies; price not given; list of author's works on pp 18-19 (12 entries); (KL, 6-61 sup, 214)

BIRYUKOVICH, K.L., inzh.; BIRYUKOVICH, Yu.L., inzh.

Boat shells made of glass reinforced cement. Bet.i zhel.-bet. no.6:275-278 Je '61. (MIRA 14:7)
(Kiev--Reinforced concrete) (Boat building)

38633
S/081/62/000/009/051/075
B166/B144

15,3200

AUTHORS: Biryukovich, K. L., Biryukovich, Yu. L.

TITLE: Glass-reinforced cement, - a constructional material reinforced with unstressed glass fibers

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 9, 1962, 421, abstract 9K376 (Stroit. materialy, no. 11, 1961, 18-20)

TEXT: In the constitution of this new material, glass-reinforced cement, a system of reinforcing the cement with glass fiber is used. Advantage is taken of the microscopically small thickness of the fiber, which gives it a large surface development, to secure favorable conditions for the combined deformation of the fiber and the concrete. To prepare glass-reinforced КЗ-1 (KZ-1) cement, alkali-free glass fiber of 7-8 μ diameter was used in the form of a mesh 360-600 mm wide with 1-3 mm individual cells, plus a protective solution of divinylacetylene resin in xylene (ethinol varnish) with bitumen type III added, and cement. The best results are obtained with alumina, waterproof, expanding cement of a grade not lower than 500, as well as with pozzolan Portland cement. Besides these components, glass-

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Glass-reinforced cement, - a....

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reinforced KB-2 (KB-2) cement contains polyvinyl acetate latex and a casein stabilizer which controls the normal course of the reaction when the cement is mixed with an aqueous latex emulsion. In the manufacture of the glass-reinforced cement the glass mesh is lowered into the solution of ethinol-bitumen varnish, lightly squeezed out and dried, after which it is deposited in several layers and each layer cemented with a cement mortar (w/c 0.55-0.6) in the case of the KB-1 material, or using cement (62%) mixed with a latex emulsion (32%) and stabilizer (6%) for the manufacture of glass-reinforced KB-2 cement. A high quality glass-reinforced cement is obtained with a glass: cement ratio of 1 : 8. Fields of application are indicated. [Abstracter's note: Complete translation.]

Card 2/2

BIRYUKOVICH, K.L., inzh.; BIRYUKOVICH, D.L., inzh.

Boat made of glass cement. Sudostroenie 27 no.4:40-42 Ap '61.
(MIRA 14:3)

(Boatbuilding)

BIRYUKOVICH, K.L., kand.tekhn.nauk; BIRYUKOVICH, Yu.L., inzh.

Glider vessels made of glass cement. Sudostroenie 29 no.7: 44-47 Jl '63. (MIRA 16:9)
(Boatbuilding) (Motorboats)

BIRYUKOVICH, Konstantin L'vovich; BIRYUKOVICH, Yuriy L'vovich; BIRYUKOVICH, Dmitriy L'vovich; VOLOSHCHENKO, Z.N., red.

[Glass cement] Steklotsement. Kiev, Budivel'nyk, 1964. 113 p. (MIRA 17:12)

BIRYUKOVICH, K.L.; BURYUKOVICH, Yu.L.; SERBIN, V.P.; BIRYUKOVICH, D.L.

Structural elements of glass cement. Prom. stroi. 41 no.4:36-37 Ap '64. (MIRA 17:9)

BIRYUKOVICH, K.L., kand. tekhn. nauk; BIRYUKOVICH, D.L., inzh.; BIRYUKOVICH, Yu.L., inzh.; SERBIN, V.P., inzh.

Glass-reinforced cement yachts. Sudostroenie 30 no.12:29-33 D '64. (MIRA 18:6)

BIRYUKOVICH, Konstantin L'vovich; BIRYUKOVICH, Yuriy L'vovich; BIRYUKOVICH, Dmitriy L'vovich; SINTSOV, G.M., inzh., retsenzent; ZELICHENKO, A.Ya., nauchn. red.; KAZAROV, Yu.S., red.

[Small glass reinforced concrete and mesh reinforced concrete vessels] Melkie suda iz steklotsementa i armotsementa. Leningrad, Sudostroenie, 1965. 163 p. (MIRA 18:7)

L 2904-66 EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EWP(i)/EWP(j)/T/EWP(b) WW/RM/WH
AM5010321 BOOK EXPLOITATION UR/ 6S3 B64

Biryukovich, Konstantin L'vovich; Biryukovich, YUriy L'vovich; Biryukovich, Dmitriy L'vovich

Glass cement (Steklotsement) Kiev, Izd-vo "Budivel'nyk", 1964. 113 p. illus., biblio. 2400 copies printed.

TOPIC TAGS: cement; glass product; fiberglass; general construction, construction material, solid mechanical property

PURPOSE AND COVERAGE: The book deals with a new construction material glass cement, consisting of highly durable glass fiber and cement. Component materials and manufacturing technology of glass cement and different constructions from glass cement are described. Attention is given to the physical and mechanical characteristics of the glass cement and to the factors determining its strength and deformability. The practical use of glass cement, the technical and economical aspects, and data describing the most efficient use in the future are presented. The book is intended for engineering and technical workers in the construction industry and for designing and research organizations. It can be used as a university textbook.

Card 1/2

L 2904-66
AM5010321

TABLE OF CONTENTS (abridged):

SUB CODE: MT

SUBMITTED: 19Nov64

NO REF SOV: 049

OTHER: 000

Card 2/2

L 26079-66(W) EWP(j)/EWT(m)/ETC(m)-6/T RM/WW

ACC NR: AM5026480

UR/ 27 B41

Biryukovich, Konstantin L'vovich; Biryukovich, YUriy L'vovich; Biryukovich, Dmitriy L'vovich

Small vessels made from glass reinforced concrete and mesh reinforced concrete (Melkiye suda iz steklotsementa i armotsementa) Leningrad, Izd-vo "Sudostroyeniye", 1965, 163 p. illus., biblio. 7000 copies printed.

TOPIC TAGS: fiberglass, reinforced cement, shipbuilding engineering, marine engineering

PURPOSE AND COVERAGE: This book is intended for a wide circle of amateur boat-builders and may also be used by specialists in small-boat building and steel-reinforced concrete ship construction. Experiments in small-craft construction using new materials such as cement-glued fiberglass and mesh-reinforced concrete are covered and the advantages of these materials over traditional boat-building materials are discussed. The properties of these new materials are given and methods of their preparation are presented. Methods of building small boats using these materials are described in detail and several small boats built in the USSR and abroad are covered.

TABLE OF CONTENTS:

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UDC: 629.12.01.17

L 26079-66
ACC NR: AM5026480

SUB CODE: 13/ SUBM DATE: 20Apr65/ ORIG REF: 044/
Card 2/2

GODIK, Yefrem Il'ich, dotsent, kand.tekhn.nauk; YANUSHEVSKIY, Sergey Konstantinovich, kand.tekhn.nauk; BIRYUKOVICH, Lev Konstantinovich, arkhitektor; SOROKA, M.S., red.

[Handbook on mechnaical drawing] Spravochnoe rukovodstvo po cherchcheniiu. Pod red. E.I.Godika. Kiev, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1959. 714 p. (MIRA 12:9)
(Mechanical drawing--Handbooks, manuals, etc.)

BIRYUKOVICH, M.

BIRYUKOVICH, M., inzh.

Better information from the radar station "Neptune." Mor.flot 17 no.10:23 O '57. (MIRA 10:12)
(Radar in navigation)

Biryukovich, M. M.

PHASE I BOOK EXPLOITATION 378

Biryukovich, Mikhail Mikhaylovich, and Bukshpun, Marat Yakovlevich

Sudovaya radiolokatsionnaya stantsiya "Neptun" (The Ship Radar Installation "Neptune") Moscow, Izd-vo "Morskoy transport", 1957. 203 p. 9,000 copies printed.

Ed.: Chernyayev, R. N.; Ed. of Publishing House: Kolchinskiy, M. L.; Tech. Ed.: Tikhonova, Ye. A.

PURPOSE: This monograph is addresssed to ship navigators who are acquainted with the fundamentals of radio engineering and to specialists attached to the ship's navigation room.

COVERAGE: The monograph is concerned with the operation and design principles of the ship radar installation "Neptune". Methods of adjusting its component units and of detecting and correcting defects are described. The "Neptune" radar equipment is standard on many ships of the Soviet seagoing fleet (p.3). This book was composed on the assumption that the ship's navigator must understand the operating principles of the radar installation as a whole, as well as of its separate units if he is to be able to operate radar equipment properly, and to make repairs at sea,

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or in foreign ports where it is very often impossible or difficult to find radar specialists in emergencies. Considerable attention is given in the book to methods of tuning and adjusting radar units and aggregates of radar units. Circuit diagrams of the master indicator, of the receiver-transmitter and of the antenna as well as of the remote indicator are given. These circuits, however, are not described in detail, but are given only to aid the reader to see the interrelation between the separate units. Soviet-produced electrical, electronic and mechanical parts and components entering into the completely assembled radar unit and its accessories are mentioned or discussed at length throughout the monograph. It is pointed out that since publication of this book, the "Neptune" radar equipment may have undergone certain modifications. For this reason the diagrams given in the book may be somewhat different from those in the radar equipment actually being produced. Extensive tables of characteristics of various types of tubes and of other components are given. The basic design parameters and characteristics of the "Neptune" radar and its components are given in tabular form (pp.16-18). The book is accompanied by a set of six inserts

(appendices 5, 6, and 7). There is a bibliography of six Soviet sources.

TABLE OF CONTENTS:

Section I.

DESIGN OF THE SHIP RADAR INSTALLATION "NEPTUNE"

Section II.

INSTALLING AND TUNING THE "NEPTUNE" RADAR ON BOARD SHIP

Section III

ADJUSTMENT OF THE UNITS, ASSEMBLIES AND THE EQUIPMENT AS A WHOLE

The Ship Radar Installation "Neptune" 378

AVAILABLE: Library of Congress

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JJP/vm
June 25, 1958

L 12593-63 EPF(c)/EWT(m)/BDS Pr-4 RM/WW
ACCESSION NR: AP3001602 S/0189/63/000/003/0018/0023

60
58

AUTHOR: Topchiyeva, K. V.; Romanovskiy, B. V.; Biryukovich, M. M.

TITLE: A study of the inhibitory effect of cumenehydroperoxide in the cracking reaction

SOURCE: Moscow. Universitet. Vestnik. Seriya 2. Khimiya, no. 3, 1963, 18-23

TOPIC TAGS: cumene, cumenehydroperoxide, cracking, catalysis of cracking, alumosilicate catalyst, acetophenone, inhibition of catalysis

ABSTRACT: While the cracking of cumene is today widely used in evaluating the capacity of alumosilicate catalysts, it is essential to take into consideration the inhibiting effect of hydroperoxides of cumene on the kinetic laws of the reaction. This seems to be due to competition of cumene and hydroperoxide for the active centers of the catalyst. In this present work the adsorption coefficients of the hydroperoxide of cumene and its decomposition products (acetophenone and acetone) were determined. The principle of the method used consisted in studying the effect on the reaction rate constant of various amounts of hydroperoxide, as well as using dilutions by an inert substance - cyclohexane. The obtained results showed that the magnitude of the adsorption coefficient of hydroperoxide is very

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sizable - an indication that the adsorption equilibrium is substantially shifted towards the formation of a stable complex between the hydroperoxide and the catalyst's active centers. It was also found that acetophenone equals the hydroperoxide in inhibition effect, while acetone has a four times lesser adsorption coefficient. Orig. art. has: 4 formulas, 4 charts, and 1 table.

ASSOCIATION: Moskovskiy universitet, kafedra fizicheskoy khimii (Moscow University, Department of Physical Chemistry)

SUBMITTED: 11Jul61 DATE ACQ: 09Jul63 ENCL: 00

SUB CODE: 00 NO REF SOV: 011 OTHER: 002

Card 2/2

ROZOVSKIY, A.Ya.; BIRYUKOVICH, M.M.; IVANOV, A.A.; LIBEROV, L.G.; BUTYUGIN, V.K.; KAGAN, Yu.B.; KRYUKOV, Yu.B.; BASHKIROV, A.N.

Mechanism of the carbide-forming reaction of fused iron catalysts for synthesis from CO and H_2. Neftekhimiia 3 no.1:97-103 Ja-F '63. (MIRA 16:2)
(Iron catalysts) (Iron carbides)
(Chemistry, Organic--Synthesis)

ROZOVSKIY, A.Ya.; BIRYUKOVICH, M.M.; IVANOV, A.A.; KAGAN, Yu.B.; BASHKIROV, A.N.

Kinetics of reactions involving the solid phase. Part 3: Carbide formation in fused iron catalysts induced by carbon monoxide. Kin. i kat. 4 no.3:373-381 My-Je '63. (MIRA 16:7)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Carbides) (Iron catalysts)
(Chemical reaction, Rate of)

TOPCHIYEVA, K.V.; ROMANOVSKIY, B.V.; BIRYUKOVICH, M.M.

Study of the inhibiting action of cumene hydroperoxide in the cracking reaction. Vest. Mosk. un. Ser. 2:Khim. 18 no.3: 18-23 My-Je '63. (MIRA 16:6)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.

ROZOVSKIY, A. Ya.; BIRYUKOVICH, M.M.; IVANOV, A.A.; KAGAN, Yu.B.; BASHKIROV, A.N.

Kinetics and mechanism of the carbidizing treatment of iron catalysts for synthesis from CO and H_2. Neftekhimiia 4 no.2: 269-274 Mr-Ap'64 (MIRA 17:8)

1. Institut neftekhimicheskogo sinteza AN SSSR imeni Topchiyeva.

BIRYUKOVICH, P. V. and POLISCHUK, I. A.

Biryukovich, P. V. and Polischuk, I. A. "Stomatic-vegetative disorders in manic-depressive psychosis", Med. zhurnal, Vol. XVIII, Issue 2, 1949, p. 26-47, (In Ukrainian, resume in Russian), Bibliog: 6 items.

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

BIRYUKOVICH, P. V.

Biryukovich, P. V. "On the basic brain processes in manic-depressive psychosis", Med. zhurnal, Vol. XVIII, Issue 2, 1949, p. 92-105, (In Ukrainian, resume in Russian), Bibliog: 17 items.

SO: U-4630, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 23, 1949).

BIRYUKOVICH, P. V.

RASIN, S. D., PROTOPOPOV, V. P., BIRYUKOVICH, P. V.

Treatment of manic depressive subjects with lumbar novocaine block. Nevropat. psikhiat., Moskva, 19:6, Nov.-Dec. 50. p. 28-35

CLML 20, 3, March 1951

BIRYUKOVICH, P.V.

BIRYUKOVICH, P.V., kand.med.nauk; RASIN, S.D., kand.med.nauk

V.P.Protopopov's career. Medych.zhur. 20 no.5:3-8 '50. (MIRA 11:1)
(PROTOPOPOV, VIKTOR PAVLOVICH, 1880-)

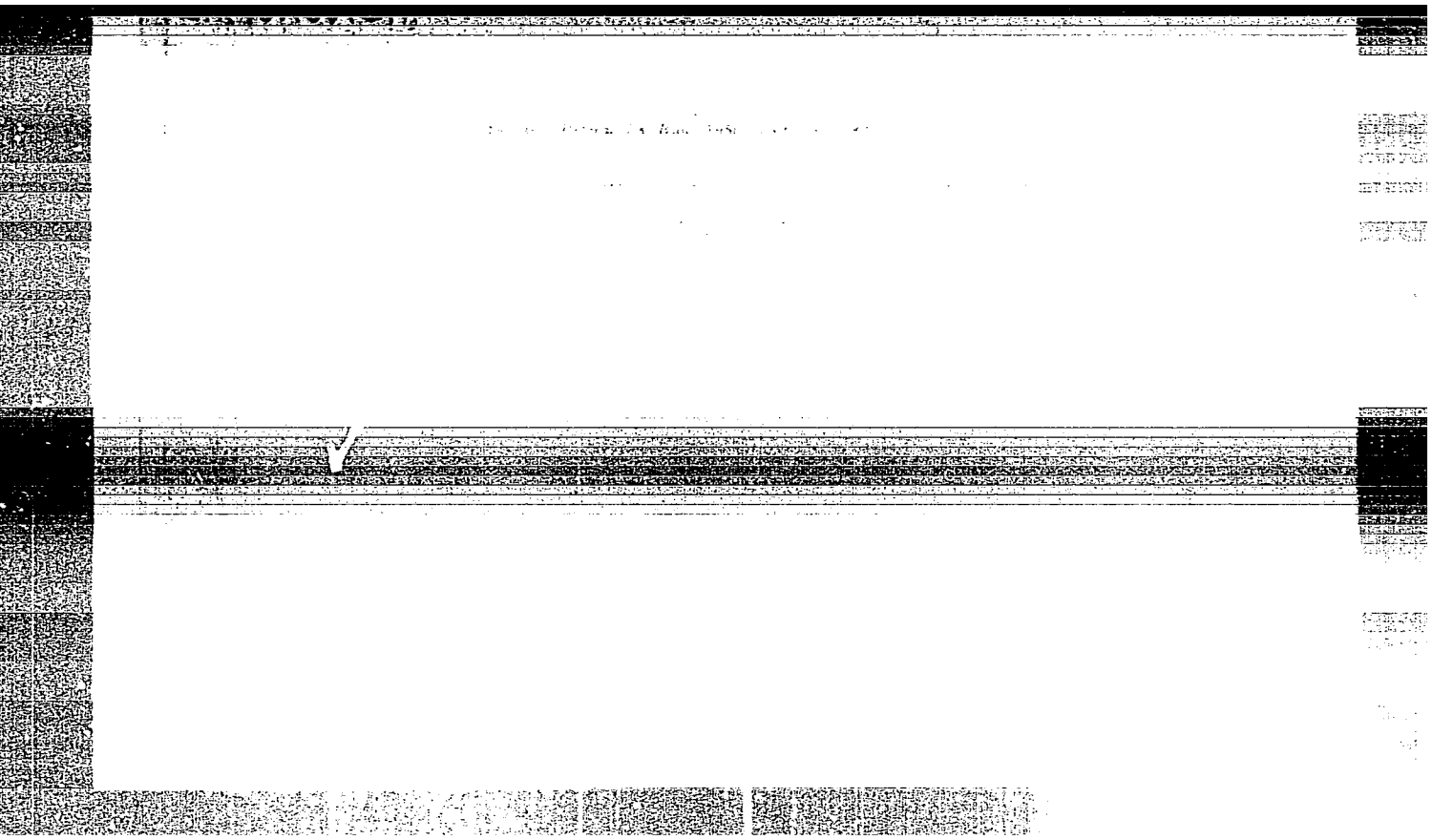
BIRYUKOVICH, P.V.

PROTOPOPOV, V.P.; BIRYUKOVICH, P.V., kand.med.nauk; RASIN, S.D., kand. med.nauk

Treating manic-depressives by lumbar novocaine block. Medych.zhur. 20 no.5:9-18 '50. (MIRA 11:1)

1. Z viddilu psikhiatrii (zav. viddilom - diysniy chlen AN URSR V.P.Protopopov) Institutu klinichnoi fiziologii im. akad. O.O. Bogomol'tsa AN URSR (direktor - chlen-kor AN URSR prof. R.Ye. Kavets'kiy)

(NOVOCAINE) (MANIC-DEPRESSIVE PSYCHOSES)



BIRYUKOVICH, P.V.

Some preliminary symptoms of manic-depressive psychoses. Fiziol.zhur. [Ukr.] 2 no.4:56-61 Jl-Ag '56. (MLRA 9:10)

1. Institut fiziologii imeni O.O.Bogomol'tsya Akademii nauk USSR, viddil psikhiatrii i patologii vishchoi nervovoi diyal'nosti.
(MANIC-DEPRESSIVE PSYCHOSES)

BIRYUKOVICH, P.V.

Viktor Pavlovich Protopopov; 75th birthday and 50th anniversary of his scientific activities. Zhur. nevr. i psikh.56 no.3:277-280 '56 (MLRA 9:7)

(PROTOPOPOV, VIKTOR PAVLOVICH, 1880-)

BIRYUKOVICH, P.V.

Vladimir Mikhailovich Bekhterev; on the 100th anniversary of his birth. Fiziol.zhur. [Ukr.] 3 no.1:3-11 Ja-F '57. (MLRA 10:3)
(BEKHTEREV, VLADIMIR MIKHAILOVICH, 1857-1927)

BIRYUKOVICH, Petr Viktorovich

[Pathophysiological characteristics of patients with a manic-depressive psychosis and ways for preventing attacks] Patofiziologichna kharakterystyka khvorykh na maniakal'no-depresyvnyi psykhoz i shliakhy profilakty ioho prystupiv. Kyiv, Vyd-vo Akad. nauk URSR, 1958. 152 p. (MIRA 13:9)

(MANIC--DEPRESSIVE PSYCHOSES)

BIRYUKOVICH, P. V., Doc Med Sci -- (diss) "Pathophysiological characteristics of patients with maniac-depressive psychosis in a seizure and in remission and means toward prophylaxis from attacks of this psychosis." Kiev, 1960. 23 pp; (Academy of Sciences Ukrainian SSR, Division of Biological Sciences); 280 copies; price not given; (KL, 17-60, 166)

BIRYUKOVICH, P.V. [Biriukovych, P.V.]

Anton Erofeevich Khil'chenko; on his 70th birthday. Fiziol. zhur. [Ukr.] 7 no.5:711-713 S-O '61. (MIRA 14:9)
(KHIL'CHENKO, ANTON EROFEEVICH, 1891-)

L 27517-66 EWT(m)/EWP(e)/EWP(j)/T/EWP(v) IJP(c) WW/RM/WH

ACC NR: AP6005846 (N) SOURCE CODE: UR/0403/65/000/003/0008/0011

AUTHOR: Biryukovich, Yu. (Director of laboratory); Serbin, V. (Senior engineer); Biryukovich, D. (Team leader, Member of technical help bureau) 25 B

ORG: (Biryukovich, Yu.) VNIINSM, Kiev; (Serbin, V.) Institute of Mechanics AN UkrSSR (Institut mekhaniki AN UkrSSR); (Biryukovich, D.) VNIINSM.

TITLE: Glass-wool cements in the national economy

SOURCE: VDNKh SSSR. Informatsionnyy byulleten', no. 3, 1965, 8-11

TOPIC TAGS: general construction, structural mineral product, shipbuilding

ABSTRACT: The authors describe a new anisotropic construction material of glass-wool fibrous aggregates bound together by cement (or polymer-cement) glue. Its unit weight varies between 0.80 and 1.85 g/cu cm and its specific elongation is 0.9%. The material has good resistance against formation of cracks and fissures. The formation of microfissures starts at stresses in the range of 80 to 90% of tensile strength. The new material based on latex-cement glue has high dielectric properties. Its volume resistivity attains a value of 10^{14} ohm-cm 2

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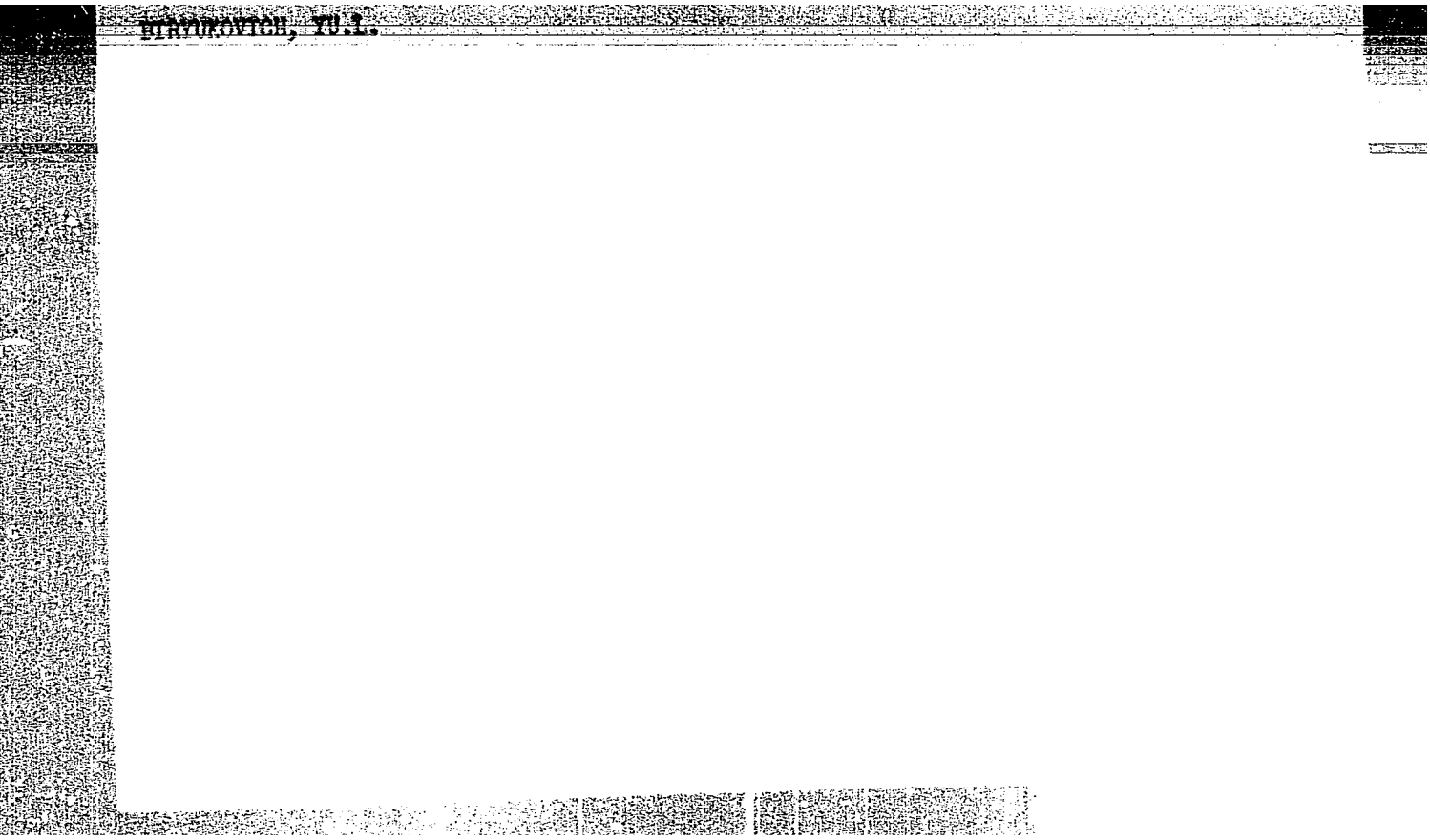
L 27517-66

ACC NR: AP6005846 0

and its surface resistivity goes up to 10^{13} ohm-cm. Puncture voltage is about 8 kv/mm. Thermal conductivity is about 0.1 to 0.9 kcal/m.hr. degree. The material is fireproof, waterproof, frostproof and resistant to the action of mineralized water. It can readily be machined, riveted bolted, glued and assembled. It can be colored by addition of pigments to its binding mineral glue. The glass-wool cement is about 30 times cheaper than structural glass-plastics. It is more expensive than reinforced concrete. However, its higher cost is compensated by a lesser weight needed for construction because the tensile and bending strengths of glass-wool cement exceed many times the strengths of reinforced concrete. The glass-wool cement is especially suitable for construction of window frames, thin walls, tanks, pipes, boat hulls, etc. Some examples of developing, testing and using this material for various constructions (mostly in the Kiev area) were presented, including apartment buildings, irrigation installations and shipbuilding. The motor-yacht "Novinka" built of glass-wool cement was shown in a photo. Its hull walls were only 1 cm thick for a yacht size 18 cu m. The yacht covered 3000 km during the 1963 navigation season (Dnepr River and Black Sea). Orig. art has: 2 photos.

SUB CODE: 11,13 / SUBM DATE: None / ORIG REF: 000 / OTH REF: 000

Card 2/2 BLG



BIRYUKOVICH, Yu.L.

STREL'BITSKAYA, A.I. [Strel'byts'ka, O.I.]; BIRYUKOVICH, Yu.L. [Biriukovych, IU.L.]

Testing rolled girders for oblique bending beyond the elastic limit. Dop.AN URSR no.1:22-26 '60. (MIRA 13:6)

1. Institut stroitel'noy mekhaniki AN USSR. Predstavleno akademikom AN USSR F.P.Belyankinym [F.P.Bieliankinym].
(Girders) (Flexure)

STREL'BITSKAYA, A.I. [Strel'byts'ka, O.I.] (Kiyev); BIRYUKOVICH, Yu.L. [Biriukovych, IU.L.] (Kiyev); PRYADKO, E.A. [Priadko, E.O.] (Kiyev)

Experimental investigation of elastic-plastic oblique bending of thin-walled beams. Prykl.mekh. 6 no.3:289-301 '60. (MIRA 13:8)

1. Institut mekhaniki AN USSR.
(Girders)

BIRYUKOVICH, K. L.: and BIRYUKOVICH, Yu. L., inzh.

Boat shells made of glass reinforced cement. Bet. i zhel. -bet. no.6: 275-278 Je '61. (MIRA 14:7)
(Kiev--Reinforced concrete) (Boat building)

38633
S/081/62/000/009/051/075
B166/B144

15.3200

AUTHORS: Biryukovich, K. L., Biryukovich, Yu. L.

TITLE: Glass-reinforced cement, - a constructional material reinforced with unstressed glass fibers

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 9, 1962, 421, abstract 9K376 (Stroit. materialy, no. 11, 1961, 18-20)

TEXT: In the constitution of this new material, glass-reinforced cement, a system of reinforcing the cement with glass fiber is used. Advantage is taken of the microscopically small thickness of the fiber, which gives it a large surface development, to secure favorable conditions for the combined deformation of the fiber and the concrete. To prepare glass-reinforced KB-1 (KB-1) cement, alkali-free glass fiber of 7-8 μ diameter was used in the form of a mesh 360-600 mm wide with 1-3 mm individual cells, plus a protective solution of divinylacetylene resin in xylene (ethinol varnish) with bitumen type III added, and cement. The best results are obtained with alumina, waterproof, expanding cement of a grade not lower than 500, as well as with pozzolan Portland cement. Besides these components, glass-

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Glass-reinforced cement, - a....

reinforced KB-2 (KB-2) cement contains polyvinyl acetate latex and a casein stabilizer which controls the normal course of the reaction when the cement is mixed with an aqueous latex emulsion. In the manufacture of the glass-reinforced cement the glass mesh is lowered into the solution of ethinol-bitumen varnish, lightly squeezed out and dried, after which it is deposited in several layers and each layer cemented with a cement mortar (w/c 0.55-0.6) in the case of the KB-1 material, or using cement (62%) mixed with a latex emulsion (32%) and stabilizer (6%) for the manufacture of glass-reinforced KB-2 cement. A high quality glass-reinforced cement is obtained with a glass: cement ratio of 1 : 8. Fields of application are indicated. [Abstracter's note: Complete translation.]

Card 2/2

BIRYUKOVICH, K.L., kand.tekhn.nauk; BIRYUKOVICH, Yu.L., inzh.

Glider vessels made of glass cement. Sudostroenie 29 no.7: 44-47 Jl '63. (MIRA 16:9)
(Boatbuilding) (Motorboats)

L 52220-65

are 59, 42-46 and 55% of the momentary modulus of elasticity respectively. Orig. art. has: 10 graphs, 1 table.

Card 2/2

L 2904-66 EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EWP(i)/EWP(j)/T/EWP(b) WW/RM/WH

AM5010321 BOOK EXPLOITATION UR/ 653 B64

Biryukovich, Konstantin L'vovich; Biryukovich, YUriy L'vovich; Biryukovich, Dmitriy L'vovich

Glass cement (Steklotsement) Kiev, Izd-vo "Budivel'nyk", 1964. 113 p. illus., biblio. 2400 copies printed.

TOPIC TAGS: cement; glass product; fiberglass; general construction, construction material, solid mechanical property

PURPOSE AND COVERAGE: The book deals with a new construction material glass cement, consisting of highly durable glass fiber and cement. Component materials and manufacturing technology of glass cement and different constructions from glass cement are described. Attention is given to the physical and mechanical characteristics of the glass cement and to the factors determining its strength and deformability. The practical use of glass cement, the technical and economical aspects, and data describing the most efficient use in the future are presented. The book is intended for engineering and technical workers in the construction industry and for designing and research organizations. It can be used as a university textbook.

Card 1/2

L 2904-66

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TABLE OF CONTENTS (abridged):

SUB CODE: MT SUBMITTED: 19Nov64

NO REF SOV: 049 OTHER: 000

Card 2/2

BIRYUKOVICH, Konstantin L'vovich; BIRYUKOVICH, Yuriy L'vovich; BIRYUKOVICH, Dmitriy L'vovich; SINTSOV, G.M., inzh., retsenzent; ZELICHENKO, A.Ya., nauchn. red.; KAZAROV, Yu.S., red.

[Small glass reinforced concrete and mesh reinforced concrete vessels] Melkie suda iz steklotsementa i armotsementa. Leningrad, Sudostroenie, 1965. 163 p. (MIRA 18:7)

BIRYUKOVICH, K.L., kand. tekhn. nauk; BIRYUKOVICH, D.L., inzh.; BIRYUKOVICH, Yu.L., inzh.; SERBIN, V.P., inzh.

Glass-reinforced cement yachts. Sudostroenie 30 no.12:29-33 D '64. (MIRA 18:6)

BIRYUKOVICH, Yu.L. (Kiyev); SERBIN, V.P. (Kiyev)

Strength and deformability of glass-cements with various glass fiber fillers. Prikl. mekh. 1 no.12:75-81 '65.
(MIRA 19:1)

1. Institut mekhaniki AN UkrSSR. Submitted Nov. 25, 1964.

L 26079-66(N) EWP(j)/EWT(m)/ETC(m)-6/T RM/WW

ACC NR: AM5026480 UR/

Biryukovich, Konstantin L'vovich; Biryukovich, YUriy L'vovich; Biryukovich, Dmitriy L'vovich

Small vessels made from glass reinforced concrete and mesh reinforced concrete (Melkiye suda iz steklotsementa i armotsementa) Leningrad, Izd-vo "Sudostroyeniye", 1965, 163 p. illus., biblio. 7000 copies printed.

TOPIC TAGS: fiberglass, reinforced cement, shipbuilding engineering, marine engineering

PURPOSE AND COVERAGE: This book is intended for a wide circle of amateur boat-builders and may also be used by specialists in small-boat building and steel-reinforced concrete ship construction. Experiments in small-craft construction using new materials such as cement-glued fiberglass and mesh-reinforced concrete are covered and the advantages of these materials over traditional boat-building materials are discussed. The properties of these new materials are given and methods of their preparation are presented. Methods of building small boats using these materials are described in detail and several small boats built in the USSR and abroad are covered.

TABLE OF CONTENTS:

Card 1/2 UDC: 629.12.01.17

L 26075-66
ACC NR: AM5026480

SUB CODE: 13/ SUBM DATE: 20Apr65/ ORIG REF: 044/

Card 2/2

L 26079-66 EWP(1)/EWT(m)/ETC(m)-6/T RM/WW

ACC NR: AM5026480 UR/ 629/ B41

Biryukovich, Konstantin L'vovich; Biryukovich, YUriy L'vovich; Biryukovich, Dmitriy L'vovich

Small vessels made from glass reinforced concrete and mesh reinforced concrete (Melkiye suda iz steklotsementa i armotsementa) Leningrad, Izd-vo "Sudostroyeniye", 1965, 163 p. illus., biblio. 7000 copies printed.

TOPIC TAGS: fiberglass, reinforced cement, shipbuilding engineering, marine engineering

PURPOSE AND COVERAGE: This book is intended for a wide circle of amateur boat-builders and may also be used by specialists in small-boat building and steel-reinforced concrete ship construction. Experiments in small-craft construction using new materials such as cement-glued fiberglass and mesh-reinforced concrete are covered and the advantages of these materials over traditional boat-building materials are discussed. The properties of these new materials are given and methods of their preparation are presented. Methods of building small boats using these materials are described in detail and several small boats built in the USSR and abroad are covered.

TABLE OF CONTENTS:

Card 1/2 UDC: 629.12.01.17

L 26079-66
ACC NR: AM5026480

SUB CODE: 13/ SUBM DATE: 20Apr65/ ORIG REF: 044/

Card 2/2

BIRYUKOVICH, K.L., kand.tekhn.nauk; BIRYUKOVICH, Yu.L., inzh.; SHIRYAYEV, I.T., inzh.

Concerning the use of glass cement in the agricultural machinery industry. Trakt.i sel'khozmash. 32 no.4:37 Ap '62. (MIRA 15:4)

1. Kiyevskiy politekhnicheskiy institut (for K.L.Biryukovich).
2. Institut mekhaniki AN USSR (for Yu.I.Biryukovich).
(Agricultural machinery industry--Equipment and supplies)

- SHMAYN, Yu.A., inzh.; BIRYULEV, V.G., inzh.

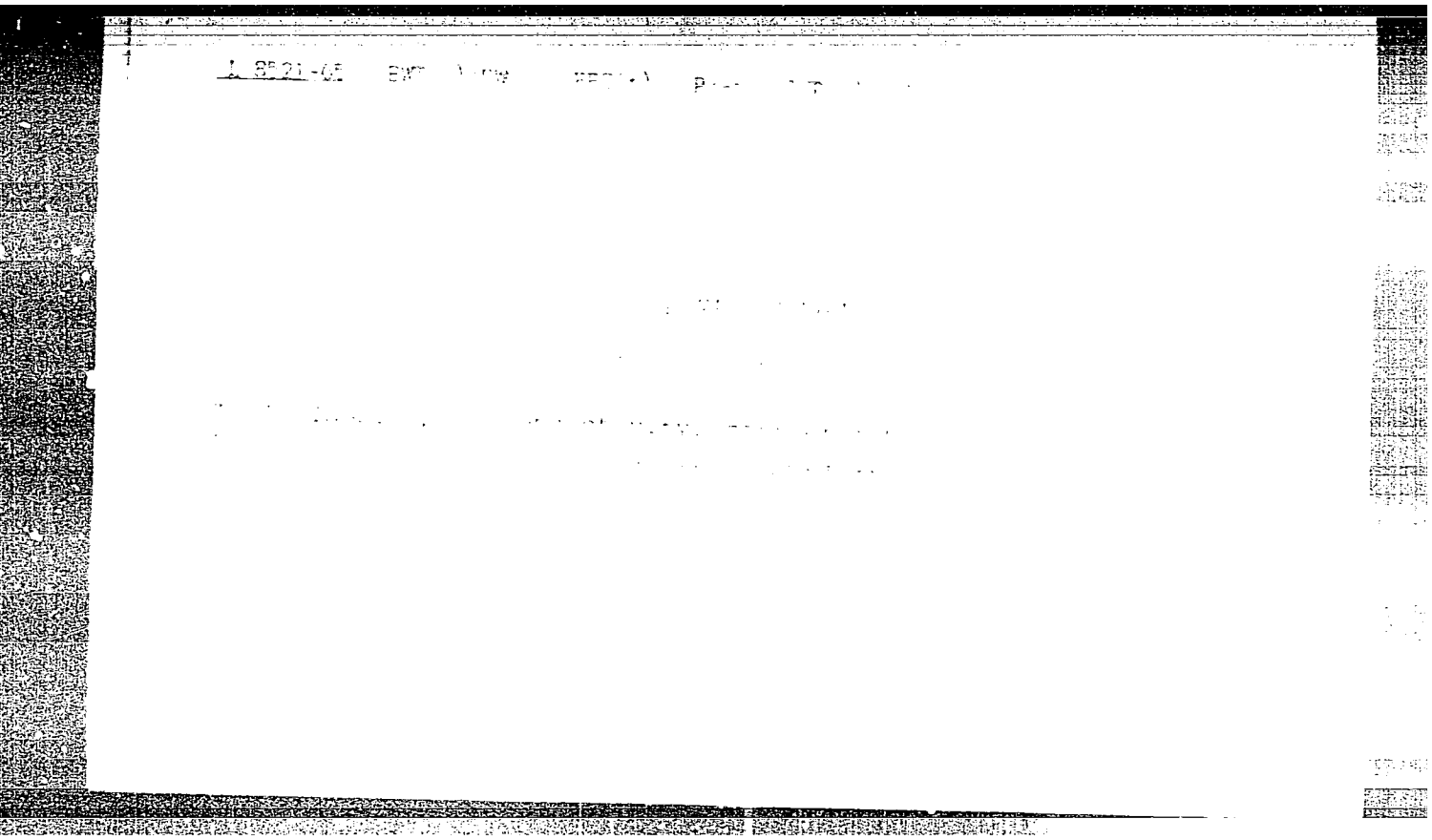
Problems concerning the design of a circuit for the ignition of ignitrons. Elektrichestvo no.6:61-65 Je '61. (MIRA 14:10)

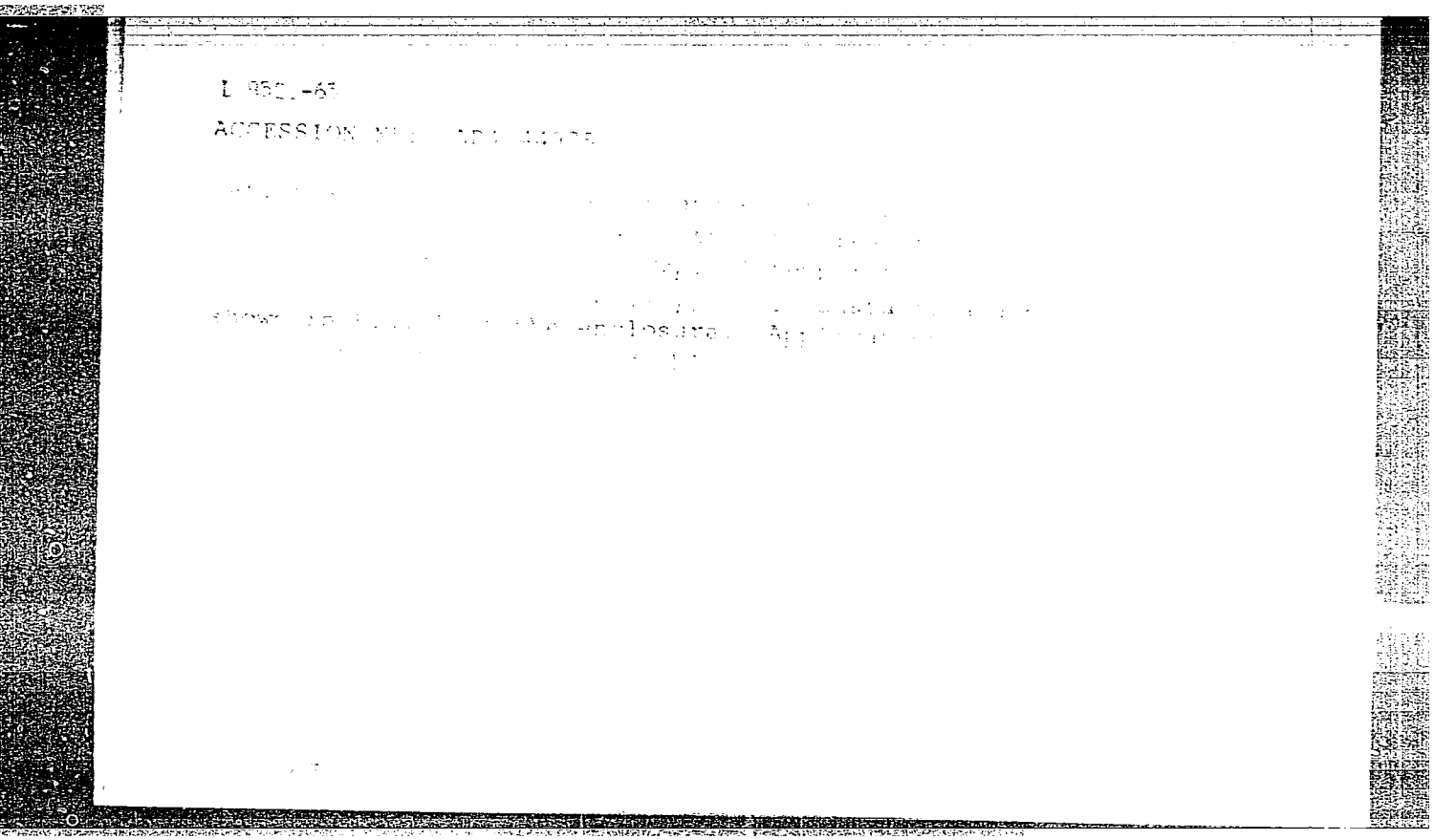
1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektroenergetiki.
(Mercury-arc rectifiers)

SHMAYN, Yu.A., inzh.; Prinimali uchastiye: KHARLAMOV, S.Kh., inzh.; BIRYULEV, V.G., inzh.; TAMANTSEVA, I.S., inzh.; IGLITSYN, I.L., red.; LARIONOV, G.Ye., tekhn.red.

[Study of ignitron characteristics and design of firing circuits] Issledovanie kharakteristik zazhigatelei i raschet skhem zazhiganiia ignitronov. Moskva, Gos.energ.izd-vo, 1960. 57 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut elektroenergetiki. Informatsionnye materialy, no.56). (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektroenergetiki (for Kharlamov, Biryulev, Tamantseva).
(Mercury-arc rectifiers)





L 8521-65

ACCESSION NR: AP4044975

ASSOCIATION: [illegible]

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ACCESSION NR: AP4044972

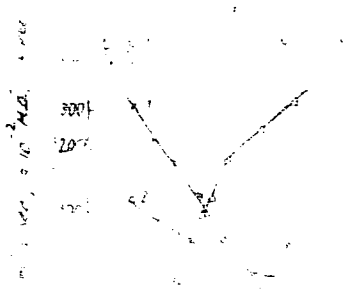

Fig. 1. Temperature dependence [illegible] vity (1), the carrier mobility [illegible] constant (2), and the [illegible] PbS layers.

BEREZHNAYA, I.A.; BIRYULEV, V.I.; KOPILEVICH, I.G.; PROKOF'YEV, Ye.V.

Mechanism of photoconductivity in lead sulfide layers. Fiz. tver. tela 6 no.9:2873-2876 S '64.

(MIRA 17:11)

1. Gosudarstvennyy opticheskiy institut imeni Vavilova, Leningrad.

BIRYULEV, V. V.

BIRYULEV, V. V. - "Pre-Stressed Steel Beams." Min Higher Education USSR. Kiev Construction Engineering Inst. Chair of Metal and Wooden Structures. Kiev, 1954. (Dissertation for the Degree of Candidate in Technical Sciences)

So; Knizhnaya Letopis' No 3, 1956

BIRYULEV, V.V., kand. tekhn. nauk; SIL'VESTROV, A.V., kand. tekhn. nauk; KLYACHIN, A.Z., inzh.; LEVENSON, Ya.S., inzh. (Novosibirsk)

Some characteristics of prestressed steel continuous crane girders. Prom. stroi. 42 no.10:18-21 O '64. (MIRA 17:11)

BIRYUKOVICH, K.L., inzh.; BIRYUKOVICH, Yu.L., inzh.

Boat shells made of glass reinforced cement. Bet.i zhel.-bet. no.6:275-278 Je '61. (MIRA 14:7)
(Kiev—Reinforced concrete) (Boat building)

BIRYUKOV, A. P., BORISDORF, V. V., MAKHLIN, B. Yu.

"Wing Loads On Overhead Transmission Lines."

report to be submitted for Intl. Conference on Large Electric Systems (CIGRE), 18th Biennial Session, Paris, France, 15-25 Jun 60.

BIRYULIN, A.P., inzh.; BURGSDORF, V.V., doktor tekhn.nauk; MAKHLIN, B.Yu., inzh.

Wind pressure on overhead line conductors. Elek. sta. 31 no.8:59-65 Ag '60. (MIRA 14:9)
(Electric lines--Overhead)

BIRYULIN, G.M.

AUTHOR: Berdichevskiy, L. S., Candidate of Biology SOV/30-58-7-41/49

TITLE: Biological Foundations of Ocean Fishing (Biologicheskiye osnovy okeanicheskogo rybolovstva) All-Union Conference (Vsesoyuznoye soveshchaniye)

PERIODICAL: Vestnik Akademii nauk SSSR, 1958, Nr 7, pp. 131-133 (USSR)

ABSTRACT: The Ichthyological Committee of the AS USSR (Ikhtiologicheskaya komissiya Akademii nauk SSSR) together with the All Union Scientific Research Institute for Ocean Fishing Economics and Oceanography /VNIRO/ (Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii /VNIRO/), and the Institute for Oceanography of the AS USSR (Institut okeanologii Akademii nauk SSSR)held this conference April 11 - 16. It was attended by: representatives of a great number of biological scientific research institutions of branch institutes of fishing industry, of many universities and a number of Councils of Economy. The following lectures were held:

1) A. M. Batalin, V. V. Leont'yeva, V. A. Burkov } On new data concerning oceanological conditions in a number of regions of the Pacific Ocean (Tikhiy okean)

2) G. M. Biryulin on the utilization of oceanological data in ocean fishing.

BIRYULIN, G.M.

Oceanography and sea fisheries. Trudy sov. Ikht. kom. no.10:41-46 '60. (MIRA 13:10)

1. Tikhookeanskiy nauchno-issledovatel'skiy institut rybnogo khozyaystva i okeanografii (TINRO).
(Pacific Ocean--Fisheries--Research)
(Pacific Ocean--Oceanographic research)