

BAKALOVA, A. M.

USSR/Chemistry - Rearrangements, Allylic
Chemistry - Allyl groups

"Acetylene Derivatives. 42. Regrouping of the Allyl System. II. Isomerization of
Dialkylene-Vinyl-Carbinols in Esterification Reactions. The Methyl Esters of ... and
Dialkylene-Allyl Alcohols," I. M. Kazarov, I. M. Azerbayev, V. N. Rakcheyeva,
Int Org Chem, Acad Sci USSR, 7 pp

"Zhur Obshch Khim" Vo. XVIII (LXXX), No 3, 1948

... dialkylallyl alcohols revert by isomerization to ... -dialkylallyl alcohols
when the former is in methanol solutions containing small amounts of sulfuric acid.
There is a simultaneous esterification with a resultant formation of a methyl ether
and ... -dialkylallyl alcohol mixture. Submitted 7 Apr 1947.

PA 69377

RAKCHYEVA, V. N.

Apr 48

USSR/Chemistry - Acetylene, Derivatives
Chemistry - Rearrangements, Allylic

"Acetylene Derivatives: No 64, Regrouping of the Allyl System," I. N. Nazarov, I. N. Azerbayev, V. N. Rakcheyeva, Inst Org Chem, Acad Sci USSR, 9 pp
"Zhur Obshch Khim" Vol XVIII (LXXX), No 4

Studies action of gaseous hydrogen chloride on methylpropylvinylacarbonal and its isomer 8-methyl-8-propyllylcarbonol. Gives quantitative estimate of isomeric chlorides formed. Shows primary chloride predominates. Studied some exchange reactions of the chlorides obtained. Submitted 7 Apr 1947

PA 8/49T39

RAKCHYEVA, V.N.

USSR/Chemistry - Acetylene Derivatives

Apr 52

"Acetylene Derivatives. 135. Regrouping of the Allyl System. V. Exchange Reaction of γ,δ -dimethylallylchloride With Amines, Potassium Cyanide, and Salts of Organic Acids," I. N. Nazarov, V. N. Rakcheyeva, L. I. Shmolina, Inst of Org Chem, Acad Sci USSR

"Zhur Obshch Khim" Vol XXII, No 4, pp 611-617

In the action of γ,δ -dimethyl allyl chloride with diethyl amine and piperidine, an approx 70% yield of the corresponding tertiary amines contg the γ,δ -dimethyl allyl radical is formed. This exchange reaction proceeds normally and is not accompanied by allyl regroupings. The reaction of the above with KCN and HCOONa is analogous.

224T37

RAKCHEYEVA, V.N.

USSR

Heterocyclic compounds. XXIX. Stereoisomerism of 2,5-dimethyl-4-piperidinol, 1,2,5-trimethyl-4-piperidinol, and their derivatives. I. N. Nazarov, D. V. Sokolov, and V. N. Rakcheeva. *Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci.* 1954, 65-76 (Engl. translation).—*See C.A.* 49, 62484. XXX. Condensation of 4-piperidones with formic, oxalic, carbonic, and chlorocarbonic esters. Synthesis of cocaine analogs. I. N. Nazarov, D. V. Sokolov, and G. S. Litvinenko. *Ibid.* 77-87.—*See C.A.* 49, 6250c.
H. L. H.

RAKCHYEVA, V.N.

USSR

✓ Heterocyclic compounds. XXIX. Stereoisomerism of 2,5-dimethyl-4-piperidinol, 1,7,5-trimethyl-4-piperidinol, and their derivatives. I. N. Nazarov, D. V. Sokolov, and V. N. Rakcheyva. *Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1954, 80-94; cf. *C.A.* 44, 3460c; 48, 9371f. — To 12.7 g. 2,5-dimethyl-4-piperidinone in 350 ml. abs. EtOH was added 35 g. Na, and the mixt. heated to complete the reaction, dild. with H₂O, acidified with HCl, filtered, concd., treated with NaOH, and extd. with Et₂O, yielding a distillate of isomeric 1 (R = R' = H) (II), b, 101-2°; the crystalline (7.3 g.) was the α -form (IIa), m. 97-9° (from picrate, m. 173-4°; HCl salt, m. 222-3°); the mother liquor yielded an uncrystallizable isomeric mixt. which was benzoylated yielding 1 g. γ -form (III₁), m. 160° of 1-benzoyl-2,5-dimethyl-4-piperidinol (I, R = Bz, R' = H) (III). Reduction in EtOH over Raney Ni in the presence of a little 20% NaOH gives the β -form (II₂) of II, m. 141-2° (from petr. ether) (picrate, m. 179-80°; HCl salt, m. 209-10°); the mother liquor on benzoylation yielded 50%

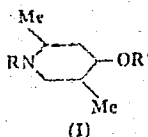
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(over)

Inst. Chem. Sci., AS USSR

1120000, 111

III_γ. Electrolytic reduction of 20 g. of the piperidone on a Pb cathode in 10% (NH₄)₂SO₄ at 20° and c.d. 0.029 amp./sq. cm. gave in 5 hrs. 2.2 g. III_β. Treatment of 2,5-dimethyl-4-piperidone with H₂Cl in dil. NaOH gave the 1-Bz deriv., b₁ 192-3°, m. 61-5° (from petr. ether) (2,4-



dinitrophenylhydrazone, m. 211-12°). This (21.4 g.) hydrogenated over Raney Ni in EtOH in the presence of a little 30% NaOH yielded (from 4 combined runs) 120 g. *isomeric* III; crystn. from C₆H₆ gave 47 g. pure III_γ, m. 159-60° (*phenylurethan*, m. 178-9°), while the mother liquor on addn. of petr. ether gave 30 g. mixed III_α and III_β forms, m. 88-95°. Heating III_γ (10 g.) 35 hrs. on a steam bath with 100 ml. 18% HCl gave 4 g. *γ*-form (II_γ) of II, b₁ 82-4°, i. 86-7° (from petr. ether) (*picrate*, oil; HCl salt, m. 187-8°). Similar hydrolysis of III_α and III_β gave II_α and II_β, m. 98° and 142°, resp.; III_β ppts. directly from Et₂O, while II_α is sepd. as the HCl salt. Thus, electrolytic reduction yields II_α, II_β, and II_γ. Heating 37.2 g. 2,5-dimethyl-4-piperidinone with 36 g. Ac₂O 30 min. on a steam bath gave, after evapn. *in vacuo* and washing with NaOH, 45 g. *1-acetyl-2,5-dimethyl-4-piperidinone*, b₁ 122-4°, n_D²⁰ 1.4913, d₄ 1.0792, m. 56-7° (from petr. ether); the same substance (b₁ 117-18°, n_D²⁰ 1.4925, d₄ 1.0816) formed on treatment of the ketone in dioxane with CH₃CO

No. 171

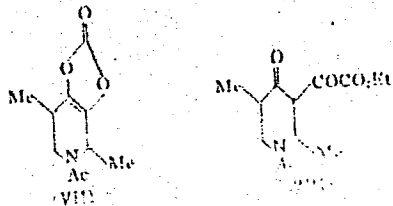
2 hrs.; 2,4-dinitrophenylhydrazane, m. 177-9° (from EtOH). Hydrogenation of the Ac deriv. over Raney Ni in EtOH in the presence of a little 20% NaOH gave mixed isomers, b. 135-8°, of I (R = Ac, R' = H) (IV) from which was isolated about 30% γ -form (IV γ), m. 84-7° (phenylurethan, m. 222-3°). This refluxed with 15% HCl 30 hrs. gave the above described III γ , m. 86-7°. Refluxing 4 g. III β with 7 g. Na in 50 ml. iso-AmOH 43 hrs. at 180-60° gave after the usual treatment 1.2 g. III α , m. 96-8°. Similarly III β gave a low yield of III α . III α with BzCl in aq. NaOH gave III β , m. 136-7°. Similarly, III β gave the corresponding III α , m. 134-6°. Heating 5 g. III α .HCl with 8 g. BzCl 1 hr. at 140-50° gave after soln. in H₂O and extrn. with Et₂O, 2.2 g. III α , b. 164-5°, n_D²⁰ 1.5210, d₄ 1.0623 (picrate, m. 191-6°; HCl salt, m. 266-6°). Similarly III β .HCl gave the corresponding III β , b. 166°, n_D²⁰ 1.5250, d₄ 1.0860 (picrate, m. 235-6°; HCl salt, m. 167-8.5°). Heating III γ (m. 159-80°) (10 g.) with 10 g. BzCl to 170° until HCl evolution stopped, followed by passage of dry HCl at the same temp. 2 hrs. gave a ppt. of the HCl salt, which was sepd. and treated with aq. Na₂CO₃, yielding 5.5 g. benzoate (I, R = R' = Bz) (V) of III γ , b. 125-6°, n_D²⁰ 1.5205, d₄ 1.0633 (picrate, m. 173-4.5°; HCl salt, m. 253-4°). Treatment of the benzoate of III α with BzCl in 10% NaOH gave Va, m. 92-3° (from petr. ether). Similarly was obtained V β , m. 92-3°. Refluxing 3 g. III γ with 5 g. BzCl in C₆H₆ 24 hrs. gave 2.5 g. V γ , m. 117-18°. Heating 2 g. III α , m. 130-7°, with 4 g. Ac₂O and 1 drop H₂SO₄ 7.5 hrs. at 60° gave 2.5 g. α -form (VI α) of I (R = Bz, R' = Ac) (VI), b. 187-0°, n_D²⁰ 1.5290. Similarly III β gave VI β , m. 125-0°, while III γ gave VI γ , m. 92.5-3°. Heating 3.8 g. 32% formalin with 3.2 g. 30% HCO₂H and 5 g. III α on a steam

bath 6.3 hrs. gave 4.7 g. α -form (VIIa), b_p 87-9°, n_D²⁰ 1.4730, d₄²⁰ 0.9541, m. 72-3° (picrate, m. 142-3°; HCl salt, m. 195-6°), of I (R = Me, R' = H) (VII). Similar methylation of II₃ gave the β -form (VIIb), m. 77-8° (picrate, m. 181-2°; HCl salt, hygroscopic crystals). Heating 4.5 g. VIIa.HCl with 6 g. BzCl 20-30 min. to 150° gave after treatment with H₂O, extrn. with Et₂O, and treatment with Na₂CO₃, 6.2 g. α -form (VIIIa) of I (R = Me, R' = Bz) (VIII), b_p 135-6°, n_D²⁰ 1.5170, d₄²⁰ 1.0315 (picrate, m. 199-200°; HCl salt, m. 201-2°). Similarly VII₃ gave the corresponding VIII₃, b_p 128-30°, n_D²⁰ 1.5100, d₄²⁰ 1.0440 (picrate, m. 217-18°; HCl salt, uncrystallizable mass). Heating 4.55 g. IV₇ with 1.83 g. 32% formalin and 1 g. 90% HCO₂H 40 min. on a steam bath gave 4.1 g. (VIII₇), b_p 136-7°, n_D²⁰ 1.5195, d₄²⁰ 1.0399 (picrate, m. 181-2°; HCl salt, m. 178-9.5°), which, heated 2 hrs. with 25% HCl on a steam bath, gave BzOH and VII₇, b_p 88° (picrate, m. 167-8°; HCl salt, hygroscopic solid). Partial evapn. of 0.5 g. 2.5-1.4975, d₄²⁰ 1.1245 (with FeCl₃ this gives an intense red color). The same product formed in 36.5% yield in the reaction with EtONa instead of Na for 40 min. at 90°; at lower temps. the yield rises, and at room temp. in 10 days was 55%. The pure product, b_p 134-6°, n_D²⁰ 1.4933, solidifies on standing, m. 65-6° (from petr. ether). Hydrolysis of this with 22% HCl 32 hrs. on a steam bath gave 2,5-dimethyl-4-piperidinone. Hydrogenation of the ester Ac deriv. in EtOH over Raney Ni gave a mixt. of stereoisomers of 1-acetyl-2,5-dimethyl-3-carbethoxy-4-piperidinol (III), b_p 151-70°, which was sepd. into 5° fractions. The middle fraction, b_p 156-61°, n_D²⁰ 1.4902, d₄²⁰ 1.1185, solidified in part, yielding 1.6 g. III, m. 101-2°. The isomer mixt. (from 14.6 g. ketone) was treated in abs. EtOH with dry HCl,

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... along with 9 g. benzoate
(picrate, oil; HCl salt, m. 137-8°), along with 9 g. benzoate
of VIa, b, 167-70°, n_D²⁰ 1.5106, d₄ 1.0873 (picrate, m. 184-
5°; HCl salt, m. 135-6°). Similar methylation of 4.1 g.
IVb, m. 158-0°, gave 88% β-isomer (VIb) of VI, m. 87-8°
(picrate, m. 168-9°; HCl salt, m. 174-5°); the latter HCl
salt (3.7 g.) heated with BzCl to 160° as above gave 2.5 g.
HCl salt, m. 213-14°, of the benzoate of VIb, along with 1.9
g. benzoate, b. 167-9°, n_D²⁰ 1.5163, d₄ 1.0889, which solidified
on standing, and m. 50-60° (from petr. ether) (HCl salt, m.
213-14°). To dry EtONa from 2.2 g. Na was added with
cooling 7.1 g. HCO₂Et and 8.1 g. V in abs. C₁₁H₁₂, the mixt.
kept 40 hrs. at room temp. in a closed flask, the ppt. sepd.,
washed with C₁₁H₁₂, treated with 20 ml. concd. HCl with addn.
of small pieces of ice, and the soln. satd. with NaCl and
extd. with C₁₁H₁₂, yielding 68% 1-acetyl-2,5-dimethyl-3-

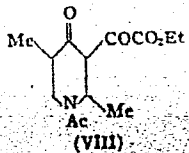
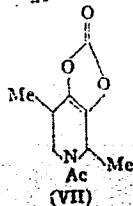
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1.4075, d_{20} 1.1215 (with FeCl₃ this gives an intense red color). The same product formed in 36.5% yield in the reaction with EtONa instead of Na for 40 min. at 90°; at lower temps. the yield rises, and at room temp. in 10 days was 55%. The pure product, b. 131-6°, n_D^{20} 1.4938, solidifies on standing, m. 65-6° (from petr. ether). Hydrolysis of this with 22% HCl 32 hrs. on a steam bath gave 2,5-dimethyl-4-piperidinone. Hydrogenation of the ester deriv. in EtOH over Raney Ni gave a *mixt. of stereoisomers of 1-acetyl-2,5-dimethyl-3-carbethoxy-4-piperidinol* (III), b. 151-70°, which was sepd. into 5° fractions. The middle fraction, b. 155-61°, n_D^{20} 1.4902, d_{20} 1.1185, solidified in part, yielding 1.6 g. III, m. 101-2°. The isomer mixt. (from 14.5 g. ketone) was treated in abs. EtOH with dry HCl, refluxed 28 hrs., the ppt. filtered off, and recrystd. from H₂O to give 3.4 g. high-melting β -isomer (IV β), m. 158-9° (from C₆H₆) (picrate, m. 204-5°; HCl salt, m. 198-9°), of 2,5-dimethyl-3-carbethoxy-4-piperidinol (IV). The EtOH soln. after the removal of the above, evapd. and subjected to treatment with dry HCl-EtOH 53 hrs. longer, yielded 1.2 g. low-melting α -isomer (IV α), m. 115-16° (from C₆H₆) (picrate, m. 142-3°; HCl salt, m. 185-6°). The isomer mixt. from the hydrogenation heated 60 hrs. with 10% HCl, evapd., and heated 16 hrs. longer with HCl-EtOH (dry) gave IV β , m. 158-9°, and a smaller amt. of IV α , m. 115-16°. Heating the cryst. isomer, m. 101-2°, of III with dry HCl-EtOH 30 hrs. gave about 45% IV α , m. 115-16°. Reduction of 16.5 g. 1-acetyl-2,5-dimethyl-3-carbethoxy-4-piperidinone (V) with 750 g. 2.5% Na-Hg in 45% aq. EtOH, followed by cleavage of the Ac group with alc. HCl, gave 1.4 g. IV β , m. 158-9°, and 5 g. mixed

isomers, b_p 103-22°, from which was isolated 0.8 g. IVa, m. 115-16°. The isomeric mixt. of the III from hydrogenation of the ketone over Raney Ni was heated with BzCl 15 min. to 165-70°, treated with dry HCl 1 hr. at 160°, and taken up in H₂O, giving a low yield of the 2,5-dimethyl-3-carbethoxy-4-piperidyl acetate, b_p 100-2°, n_D^{20} 1.4610, d_{20}^{20} 1.005, along with a similar yield of the benzoate, b_p 160-4°, n_D^{20} 1.5123, d_{20}^{20} 1.1145, both esters being mixts. of stereoisomers. Heating 4.4 g. IVa with 3.4 g. 20% formalin and 1.4 g. 90% HCO₂H on a steam bath 40 min., cooling, and treating the mixt. with K₂CO₃ soln. gave 4.3 g. α -isomer (VIa) of 1,2,5-trimethyl-3-carbethoxy-4-piperidinol (VI), b_p 112-13°, n_D^{20} 1.4778, d_{20}^{20} 1.0528 (picrate, m. 141-2°; HCl salt, m. 151-2°). The HCl salt (3.6 g.) heated with 6.1 g. BzCl to 160° 0.5 hr. gave, after evapn. of residual BzCl and treatment with H₂O, 0.7 g. 1,2,5-trimethyl-3-carbethoxy- Δ^3 -tetrahydropyriding, b_p 109-10°, n_D^{20} 1.4765, d_{20}^{20} 0.9940 (picrate, oil; HCl salt, m. 137-8°), along with 2 g. benzoate of VIa, b_p 167-70°, n_D^{20} 1.5105, d_{20}^{20} 1.0873 (picrate, m. 184-5°; HCl salt, m. 185-6°). Similar methylation of 4.1 g. IVb, m. 158-9°, gave 88% β -isomer (VIb) of VI, m. 87-8° (picrate, m. 168-9°; HCl salt, m. 174-5°); the latter HCl salt (3.7 g.) heated with BzCl to 160° as above gave 2.6 g. HCl salt, m. 213-14°, of the benzoate of VIb, along with 1.9 g. benzoate, b_p 167-9°, n_D^{20} 1.5103, d_{20}^{20} 1.089, which solidified on standing, and m. 59-60° (from petr. ether) (HCl salt, m. 213-14°). To dry EtONa from 2.2 g. Na was added with cooling 7.1 g. HCO₂Et and 8.1 g. V in abs. C₆H₆, the mixt. kept 40 hrs. at room temp. in a closed flask, the ppt. sepd., washed with C₆H₆, treated with 20 ml. concd. HCl with addn. of small pieces of ice, and the soln. satd. with NaCl and extd. with C₆H₆, yielding 68% 1-acetyl-2,5-dimethyl-3-

Na.Za. Vol. 7. N.



hydroxymethylene-4-piperidinone, m. 123-4° (from C₆H₆); if the product is distd. it forms an oil, b. 138-9°, which slowly solidifies and m. 123-4°. It gives red color with FeCl₃ with 2,4-(O,N)₂C₆H₃NHNH₂; it forms a pyrazole deriv. C₁₀H₁₇O₄N₂, m. 201-2°. Hydrogenation of the hydroxymethylene deriv. over Raney Ni leads to absorption of 2 moles of H. To a suspension of dry EtONa (from 4.2

g. Na) in dry C₆H₆ were added with cooling 20 g. (CO₂Et)₂ and 17 g. V in C₆H₆; after standing overnight at room temp. the mixt. was acidified with HCl with cooling and extd. with C₆H₆, yielding a white ppt. which was sepd. This (3.3 g.) was identified as the compd. (VII), decomp. 210°. The residual oil heated 15 min. to 150-60° yielded 12.2 g. more VII (total, 68% yield). VII is poorly sol. in org. solvents, but is sol. in alkalis, being reprecipitated on acidification. It gives a green color with FeCl₃-EtOH. Boiling VII with EtOH yields the oily material mentioned above, which is apparently Et 1-acetyl-2,5-dimethyl-4-oxo-3-piperidinepyrrolate (VIII). The results are similar when the condensation is run with alc. EtONa, or with Na in C₆H₆.
G. M. Kosolappoff

8/8

COUNTRY : Hungary
 CATEGORY :
 REF. JOUR. : RZKhim., No. 5 1960, No. 1989
 AUTHOR : Rakcsanyi, L. and Paszeszer, G.
 INST. : not given
 TITLE : Amino Acids in the Lees
 ORIG. PUB. : Szoelészeti Kutató Int. Evk., 11, No 2, 15-45, 1958-1957 (1958)
 ABSTRACT : A practical method has been developed for the separation of amino acids (A) recovered from the lees. A clarified solution of A of purity 80% and ash content 1% is passed successively through columns packed with activated charcoal, three columns packed with Amberlite IR-4B anion-exchange resin (AER), three columns packed with the carboxyl type cation-exchange resin (CER) Amberlite IRZ-50, and a column packed with the sulfonic acid type CER Amberlite IR-120. The mixture of A is separated

CARD: 1/2

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L 59379-65 EWT(d)/EWT(m)/EWP(c)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b)/EWP(l)/EWA(c)
FF-4 JB/HM

ACCESSION NR: AP5017861

UR/0286/65/000/011/0099/0099
620.179.152

4/
B

AUTHOR: Benderskiy, Ye. G.; Rakcheyev, V. N.

TITLE: A method for detecting flaws in spot-welded and contact-roller welded seams
Class 42, No. 171642

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 99

TOPIC TAGS: spot welding, resistance welding, x ray photography

ABSTRACT: This Author's Certificate introduces a method for detecting flaws in spot-welded and contact-roller welded seams. The method is based on x-ray photography. A thin layer of metal is placed between the surfaces to be joined before they are welded. This metal has a higher coefficient of radiation absorption than that of the base metal (e.g. tungsten or alloys with a high tungsten content) to give a sharper x-ray photograph of the boundary between the base metal and the molten metal.

ASSOCIATION: none

Card 1/2

L 59379-65

ACCESSION NR: AP5017861

SUBMITTED: 08May64

ENCL: 00

SUB CODE: MM, IE

NO REF SOV: 000

OTHER: 000

Card 2/2 *200P*

RAKOSANYI, L.

Development of the characteristics of Hungarian wines and wine specialities;
also, remarks by J. Iranyos and others. p. 259.
(FOLDESNYLI. Vol. 12, no. 1/4, 1957, Budapest, Hungary)

30: Monthly List of West European Accessions (EMAL) LC. Vol. 6, no. 12, Dec. 1957.
Incl.

RAKCSANYI, Laszlo, prof. (Budapest XI Menesi ut. 44.)

Acceleration of the maturing process of wine and brandy. Acta chimica
Hung 23 no.1/4:419-423 '60. (EEAI 10:9)

1. Forschungsinstitut fur Ampelologie, Budapest.

(Wine and wine making) (Brandy) (Ultrasonics)

No 2 Vol. F

HTA

66-241

41 Factors influencing the quality of brandy. *Travaux de l'Institut de Chimie Industrielle de l'Académie des Sciences de Hongrie* -- Vol. V, No. 6, pp. 183-186, June 1951

The characteristic properties of brandy always depend upon the quality of the wine used for its production, and to a certain degree upon the after treatment as well. Wines without any special characteristics and of a medium percentage of alcohol are generally best suited for distillation. Wine processed from strongly aromatic grapes and especially those of direct producers should not be processed into brandy. Preparation for distillation begins already at vintage. Opinions differ on the proper time for starting distillation. While some experts maintain that the most opportune time for distillation coincides with the beginning of clarification, others claim that 8 to 10 month old wine is considered best. Although

the accompanying fusel oils are characteristic ingredients of brandy, nevertheless large amounts are undesirable. Due to this, Hungarian brandies are distilled without bottom sediments and the brandy usually contains less acanthic ether than, for instance, French brandies. Sulphurous acid is definitely detrimental to brandy. Based on experiences, the most favourable time for distilling under domestic conditions is the period between March and July, since beyond this term wines from the *Hungarian Plain* will lose their freshness and take on the flavour of seasoned wine, which influences the quality of the brandy as well. Wooden barrels stored in cellars of medium humidity and temperature are most suited for maturation. For enriching the acanthic ether content of high-grade Hungarian brandies either refined pure acanthic ether or a very good quality strong brandy matured for a long period is added to the "bonificateur".

Country : Hungary
CATEGORY :

X-8

REF. SOUR. : *S* *19* *1957*, No. 2727.

AUTHOR : *1957*, L.

INST. :
TITLE : Preparation of Tanning Agent from Grape
Stems.

ORIG. PUB. : Kiserletuyi Kozl., 1957 (1957), 90, No. 1,
129-142

ABSTRACT : Experiments conducted by technological group
of the Scientific Research Institute of Viticulture (of
Hungary) in 1951-1954, have shown that the tanning agent
of grapes belongs to the group of condensed tanning agents.
The most advantageous method of its recovery from grape
stems is a simultaneous extraction of both oil and tanning
agent with a mixture of organic solvents consisting of 20%
hexane and 80% alcohol. The oil is readily separated from
the resulting extract. During the recovery a portion of
the tanning agent is converted to the super-condensed
phlobaphene which is then reconverted to the tanning agent
by means of a sulfite treatment. The oil thus obtained is
of good quality, and the tanning agent is present in

CARD: 1/2

KIRKHENSHEYN, A., akademik, Geroy Sotsialisticheskogo Truda; KAL'NIN'SH, A. [Kalniņš A.], akademik; STRADIN'SH, P. [Stradiņš, P.], akademik; SUDRABKALN, Yan [Sudrabkaln, Jānis], narodnyy poet Latviyskoy SSR MELBARDIS, K., khudozhnik; LAPIN'SH, A. [Lapiņš, A.], narodnyy khudozhnik Latviyskoy SSR; YUROVSKIY, Yu., narodnyy artist SSSR; AVOTS, A., fotolyubitel'; VARDAUNIS, E., khudozhnik, zasluzhennyy deyatel' iskusstv Latviyskoy SSR; GAYLIS, V., kinooperator; RIDZENIYEKS, V., fotograf; KAL'NYN'SH, E. [Kalnins, E.]; LOGANSON, R. [Iohanson, R.], stareyshiy master khudozhestvennoy fotografii; RIEKSTS, Ya. [Rieksts, J.], fotograf; LERKH, Yu.; FEDOSEYEV, B., fotograf; REYKHMAN, E., zasluzhennyy deyatel' kul'tury Latviyskoy SSR; GROBMAN, Ya. [Grobman, J.], fotograf; OZOLS, Ya. [Ozols, J.], fotograf; TIKNUS, B., fotograf; FADEYEV, Ye., fotograf; ~~RAKE, I.~~, fotograf; BERZTIS, A., fotograf; RAKE, K., fotograf; UPIT, V., fotograf; SHADKHAN, M., fotolyubitel'; RITERS, G., fotolyubitel'.

Organize a society of Soviet photographers: Sov.foto 18 no.4:77 Ap '58.
(MIRA 11:6)

1.Rizhskaya kinostudiya (for Gaylis, Fedoseyev). 3.AN Latviyskoy SSR (for Ridzenieks). 4.Chlen-korrespondent Akademii khudozhestv SSSR (for Kal'nynsh, E). 5.Zhurnal "Rigas foto" (for Rieksts, Gorman, Ozols). 6.Latviyskoye teatral'noye obshchestvo (for Lerkh). 7.Direktor Doma narodnogo tvorchestva imeni E. Melngaylisa (for Reykhman). 8.Predsedatel' Tvorcheskogo soveta (for Grobman). 9.Chlen Tvorcheskogo soveta (for Ozols). 10.Gazeta "TSinya" (for Tiknus). 11.Fotokhronika Latviyskogo telegrafnogo agentstva (for Fadeyev). 12.Institut Latgiprom (for Rake, I.). (Photography--Societies)

KIRKHENSHTEYN, A., akademik, Geroy Sotsialisticheskogo Truda; KAL'NIN'SH, A. [Kalniņš A.], akademik; STRADIN'SH, P. [Stradiņš, P.], akademik; SUIRABKALNĀ, Yan [Sudrabkalnā, Jānis], narodnyy poet Latviyskoy SSR MELBARDIS, K., khudozhnik; LAPIN'SH, A. [Lapiņš, A.], narodnyy khudozhnik Latviyskoy SSR; YUROVSKIY, Yu., narodnyy artist SSSR; AVOTS, A., fotolyubitel'; VARDAUNIS, E., khudozhnik, zasluzhennyy deyatel' iskusstv Latviyskoy SSR; GAYLIS, V., kinooperator; RIDZENIYEKS, V., fotograf; KAL'NIN'SH, E. [Kalnins, E.]; LOGANSON, R. [Iohanson, R.], stareyshiy master khudozhestvennoy fotografii; RIEKSTS, Ya. [Rieksts, J.], fotograf; LERKH, Yu.; FEDOSEYEV, B., fotograf; REYKHMAN, E., zasluzhennyy deyatel' kul'tury Latviyskoy SSR; GROBMAN, Ya. [Grobman, J.], fotograf; OZOLS, Ya. [Ozols, J.], fotograf; TIKNUS, B., fotograf; FADEYEV, Ye., fotograf; RAKE, I., fotograf; BERZTIS, A., fotograf; RAKE, K., fotograf; UPIT, V., fotograf; SHADKHAN, M., fotolyubitel'; RITERS, G., fotolyubitel'.

Organize a society of Soviet photographers: Sov.foto 18 no.4:77 Ap '58.
(MIRA 11:6)

1.Rizhskaya kinostudiya (for Gaylis, Fedoseyev). 3.AN Latviyskoy SSR (for Ridzenieks). 4.Chlen-korrespondent Akademii khudozhestv SSSR (for Kal'nynsh, E). 5.Zhurnal "Rigas foto" (for Rieksts, Gorman, Ozols). 6.Latviyskoye teatral'noye obshchestvo (for Lerkh). 7.Direktor Doma narodnogo tvorchestva imeni E. Melngaylisa (for Reykhman). 8.Predsedatel' Tvorcheskogo soveta (for Grobman). 9.Chlen Tvorcheskogo soveta (for Ozols). 10.Gazeta "TSinya" (for Tiknus). 11.Fotokhronika Latviyskogo telegrafnogo agentstva (for Fadeyev). 12.Irstitut Latgiprom (for Rake, I.). (Photography--Societies)

RAKELIC, Mladen, dipl. ek.

Replacing wooden boxes with the boxes of ondulated cardboard. Kem
ind 10 no.2:C-22 F '61.

RAKETIN, V.

RAKETIN, V. Photographic copies of scales. p. 30. Vol. 5, no. 10, 1956
ELEKTROENERGIJA. Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, No. 1--April 1957

RAKETOV, A.

RAKETOV, A.
An outline of the economic and financial condition of present-day Russia;
official data. Mevel', Varrak, 1921. 78 p.

Yudin HC335R34

S/137/61/000/012/076/149
A006/A101

AUTHORS: Privalov, I.I., Nagovitsyn, D.F., Lebedev, A.A., Rakevich, K.A.,
Kondrat'yev, S.N.

TITLE: The effect of the weight and reduction of an ingot on the number
of macro-inclusions

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 3-4, abstract
12D21 ("Byul. nauchno-tekhn. inform. Ural'skiy n.-i. in-t chern.
metallov", 1960, no. 8, 22 - 32)

TEXT: Non-metallic inclusions in steel are composed of sulfides and oxy-
silicates (aluminum oxides Al_2O_3 and silicates SiO_2) which occur in the steel as
macro-inclusions and impair its quality. Macro-inclusions are distributed over
the height basically in a gradually decreasing amount from the bottom to the top
section, where the number of macro-inclusions increases again. The depth of
occurrence of the macro-inclusions in a 2.5 ton ingot is on the average 4.75-
95.75 mm from the lateral surface, and 15.5 - 21.3 mm in a 3.5 ton ingot; it is
2 - 5.25 mm in blooms of 440 mm size, obtained from a 6.7 ton ingot. The dis-
placement of inclusions for different cases of rolling is discussed. -Thus, when
Card 1/2

S/137/61/000/012/076/149
A006/A101

The effect of the weight and reduction ...

rolling the ingots on a blooming mill, the macro-inclusions are shifted towards the bloom surface. During the rolling of pipes, sheets and other articles directly from the ingot, macro-inclusions are shifted from the peripheral layers to those adjoining the butt surface. When rolling wheels directly from a 3.5 ton ingot, the macro-inclusions do not reach the peripheral layers during the shift. Tables and diagrams are given showing the occurrence depth of macro-inclusions in ingots of different weight.

I. Getiya

[Abstracter's note: Complete translation]

Card 2/2

1. NAME: ...; ...; ...; SEMANOVA, I.S.;

2. ... process of rimmed steel
... (MIRA 18:6)

1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025.

Effect of the treatment of metals by sulfur slag mixtures on the behavior of gases during the crystallization of ingots. Stal: 1968, No. 1, p. 165. (U.S.A. 1978)

1. Institutskiy yuzhnoyuzhnyy Institut i Khimicheskoy metalurgiyi Leningra.

RAKEVICH, V.

Manually operated electric saws. Mast.uglia 5 no.1:20 Ja '56.
(MLRA 9:5)

1. Glavnyy mekhanik tresta Zabaykalugol'.
(Transbykalia--Coal mines and mining)(Saws)

RAKEVICH, V.

Performance results of the PK-2m cutter-loader in the Transbaikalia mines. Mast. ugl. 4 no. 7:26 J1'55. (MLRA 8:10)

1. Glavnyy mekhanik tresta Zabaykalugol' kombinata Vostsibugol' (Transbaikalia--Coal mining machinery)

BAKEVICH, V.

Mobile telephone signaling. Mast. ugl. 4 no.2:23 F '55. (MLRA 8:6)

1. Glavnyy mekhanik tresta Zabaykalugol' kombinata Vostsibugol'
(Transbaikalia--Mine communication)

USSR / Human and Animal Morphology (Normal and Pathological).
Circulatory System. Blood Vessels.

S

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 2947

Author : Rakeyeva, M. T.
Inst : Kazan Medical Institute
Title : Thin Vascularization of Sympathetic Trunk Ganglia
and Paraganglia in Some Animals and Human Fetuses

Orig Pub : Sb. nauchn. rabot. Kazansk. med. in-t, 1957, vyp 4,
236-247

Abstract : The impregnation technique of Bil'shovskiy-Gros and others was used on 15 human embryos between 5-6 months of age, 30 cats, 30 dogs and 3 rabbits. It was demonstrated that at each ganglion (G) of the sympathetic trunk, there arrive 2 or 3 arteries from the surrounding tissues. These arteries form 2 distinct capillary networks: a dense, fine loop in the adipose tissue

Card 1/3

USSR / Human and Animal Morphology (Normal and Pathological).
Circulatory System.

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001344020018-8"

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 2947

surrounding the G and a network in the substance of the G. The arteries and veins enter and leave the G in the same section of G. In human fetuses and newborn animals several dozens of nerve cells are arranged around a single capillary loop. In the superior cervical ganglion of adults the capillaries form loops around each nerve cell; in the stellate, thoracic, lumbar and sacral ganglia, 3-10 nerve cells are present within a single capillary loop. In the branches between the ganglia the vessels run parallel to the nerve fibers forming transverse anastomoses with the neighboring branches. In the superficial layers of the G substances, areas with a dense capillary network are observed which represent paraganglia included in the substance of G. The

Card 2/3

IGREYVA, N. P.

Fine vascularization of the spinal cord of a rabbit. Nauch.
trudy Kaz. gos. med. inst. 14:269-270 '64. (MIRA 18:9)

1. Kafedra anatomii (zav. - prof. A.G.Korotkov) i tsentral'naya
nauchno-issledovatel'skaya laboratoriya Kazanskogo meditsinskogo
instituta.

AUTHOR: ~~Rakh, G.~~ Senior Instructor at the Karaganda Pedagogical Institute 107-58-3-23/41

TITLE: Radio Amateur Club at the Karaganda Pedagogical Institutv
(Samodeyatel'nyy radioklub v Karagandinskoy pedinstitute)

PERIODICAL: Radio, 1958, Nr 3, pp 2 - 3 of centerfold (USSR)

ABSTRACT: The history and the activities of the radio amateur club at the Karaganda Pedagogical Institute are described. The club was founded in 1956 and had at that time 15 members. Now, there are 144 members in the different sections of the club, engaged in all kinds of amateur activities. There are 4 photos.

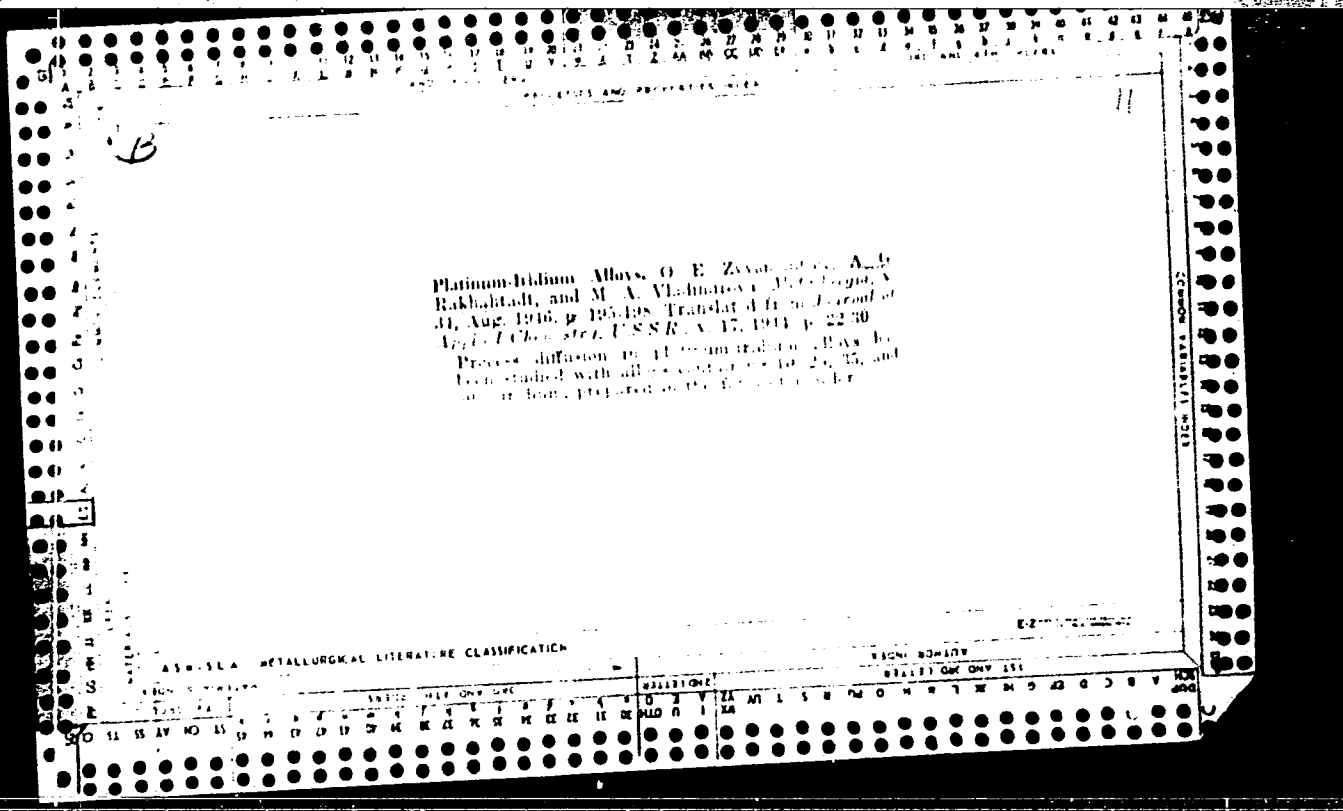
1. Radio clubs--Activities

Card 1/1

BAKH, G., starshiy prepodavatel'.

Amateur radio club at the Karaganda Pedagogical Institute, Radio
no.3:32b-32c Mr '58. (MIRA 11:3)

1. Karagandinskiy pedinstitut.
(Karaganda--Radio clubs)



RAKHALSKAYA, E. M.

725. Trakhoma i bor'ba s ney. [Novosibirsk, 1954] 6c 20sm. 1000 ekz. B. tz. Bez.
tit. i obl. [54-55401] p. 617.711-002.291

SO: Knizhnaya Letopis, Vol. 1, 1955

RAKHAL'SKAYA, Ye. M.

"Tenotomy as a Method for Surgical Correction of Acute Convergent Strabismus,"
Vest. Oftalmol., 28, No. 5, 1949. Mbr., Chair of Eye Diseases, Novosibirsk Inst.,
Advanced Training for Physicians, -c1949-.

RAKHAL'SKI YA, Ya. M.

Response to Oronov's discussion on "Tenomyectomy as a surgical method in the treatment of extremely pronounced concomitant convergent strabismus". Vest. oft., Moskva 30 no. 4:17-19 July-Aug 1951. (CJML 21:3)

1. Assistant. 2. Of the Eye Clinic (Director -- Prof. O. I. Shershnevskaya), Novosibirsk Institute for the Advanced Training of Physicians.

Handwritten text, possibly a date or reference number, partially obscured.

Handwritten text, possibly a date or reference number.

USSR/Medicine - Encephalitis Sep/Oct 48
Medicine - Neurdsis and Psychoneuroses

"Problem on the Treatment of Japanese Encephalitis
(Psychosis in Subacute Stage)," Yu. Ye. Rakhalskiy,
Cand Med Sci, Psychiatric Clinic imeni S. S.
Korsakov, First Moscow Ord of Lenin Med Inst, 4½ pp

"Nevropatol i Psikiat" Vol XVII, No 5

In late 1945, author observed 12 cases of psychosis
in subacute stage of Japanese encephalitis in
Manchuria. Presents results of investigations,
describing four cases in detail. Submitted
20 Jul 48.

23/49T83

~~RAKHAL'SKIY, Yu. Ye.~~

[Diagnosis of organic psychoses in adults] Diagnostika organicheskikh
psikhozov v pozhilom vozraste. Kishinev, Gos. izd-vo Moldavii,
1957. 127 p. (MIRA 10:11)
(PSYCHOSES)

RAKHAL'SKIY, Yu.Ye.; IVANOVA, V.Ye.

Inductive-suggestive method for inducing vomiting in treating
alcoholism. Vrach. delo no.3:299 Mr '57 (MLRA 10:5)

1. Kafedra psikiatrii (zav.-prof. A.N. Molokhov) Kishinevskogo
meditsinskogo instituta.
(VOMITING) (ALCOHOLISM--TREATMENT)

RAKHAL'SKIY, Yu.Ye.

~~Peculiar psychotic conditions in alcoholic intoxications [with
summary in French]. Zhur.nevr. i psikh. 57 no.10:1229-1234 '57.
(MIRA 10:12)~~

1. Kafedra psikhiatrii Kishinevskogo meditsinskogo instituta
(zav. - prof. A.N.Molokhov)
(PSYCHOSES, ALCOHOLIC, case reports,
unusual cases (Rus))

RAKHAL'SKIY, Yu.Ye., dotsent

Maniacal states in hypertension and atherosclerosis of the vessels of the brain. Trudy Gos.nauch-issl.inst.psikh. 25: 87-95 '61. (MIRA 15:12)

1. Kafedra psikhiiatrii Kishinevskogo gosudarstvennogo meditsinskogo instituta (zav. kafedroy - prof. A.N.Molokhov), kafedra psikhiiatrii Orenburgskogo gosudarstvennogo meditsinskogo instituta (zav. kafedroy-dotsent Yu.Ye.Rakhal'skiy) i klinika sosudistykh psikhozov (zav. - prof. V.M.Banshchikov) Gosudarstvennogo nauchno-issledovatel'skogo instituta psikhiiatrii Ministerstva zdravookhraneniya RSFSR.
(HYPERTENSION) (CEREBRAL ARTERIOSCLEROSIS) (PSYCHOSES)

RAKHAL'SKIY, Yu.Ye., dotsent

Clinical statistical analysis of autopsy material in cerebral arteriosclerosis with mental disorders. Trudy Gos.nauch-issl. inst.psikh. 25:315-326 '61. (MIRA 15:12)

1. Kafedra psikhiiatrii Orenburgskogo gosudarstvennogo meditsinskogo instituta (zav. kafedroy - dotsent Yu.Ye.Rakhal'skiy) i klinika sosudistykh psikhozov (zav. - prof. V.M.Banshchikov) Gosudarstvennogo nauchno-issledovatel'skogo instituta psikhiiatrii Ministerstva zdravookhraneniya RSFSR.

(CEREBRAL ARTERIOSCLEROSIS) (MENTAL ILLNESS)

1944-1945, p. 14.

Psychopaths, who transferred to in the initial phase of the
transition to the physical form. That, rather than the
1944-1945 - 1945.

to have participated in the development of the
member of the "Institute".

RAKHAL'SKIY, Yu.Ye., dotsent; KAZAKOVA, P.B., kand.med. nauk

Diffuse changes in the brain in atherosclerosis with mental disorders; clinical morphological investigation. Trudy 1-go MMI 21: 453-470'63. (MIRA 16:9)

1. Kafedra psikhiiatrii (zav. - dotsent Yu.Ye. Rakhali'skiy) Orenburgskogo meditsinskogo instituta, Institut psikhiiatrii Ministerstva zdravookhraneniya RSFSR (dir. - prof. D.D.Fedotov) i kafedra psikhiiatrii (zav. - prof. V.M. Banihchikov) 1-go Moskovskogo ordena Lenina meditsinskogo intituta imeni I.M.Sechenova.
(CEREBRAL ARTERIOSCLEROSIS) (PSYCHOSES)

RAKHAL'SKIY, Yu.Ye., dotsent

Mechanisms of the course of atherosclerotic disorders of the
psyche. Trudy 1-go MMI 21:67-75'63. (MIRA 16:9)

1. Kafedra psikhiiatrii (zav.-dotsent Yu.Ye. Rakhal'skiy)
Orenburgskogo meditsinskogo instituta i kafedra psichiatrii
(zav. - prof.V.M.Banshchikov) 1-go Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M.Sechenova.
(CEREBRAL ARTERIOSCLEROSIS)
(PSYCHOSES)

RAKHAL'SKIY, Yu.Ye., dotsent

Atherosclerotic dementia. Trudy 1-go MMI 21:95-108'63. (MIRA 16:9)

1. Kafedra psikhiiatrii (zav. - dotsent Yu.Ye.Rakhal'skiy) Orenburgskogo meditsinskogo instituta i kafedra psikhiiatrii (zav. prof. V.M.Banshchikov) 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(CEREBRAL ARTERIOSCLEROSIS) (DEMENTIA)

RAKHAL'SKIY, Yu.Ye., dotsent

Mechanisms of the course of atherosclerotic disorders of the
psyche. Trudy 1-go MMI 21:67-75'63. (MIRA 16:9)

1. Kafedra psikhiiatrii (zav.-dotsent Yu.Ye. Rakhal'skiy)
Orenburgskogo meditsinskogo instituta i kafedra psichiatrii
(zav. - prof.V.M.Banshechikov) 1-go Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M.Sechenova.
(CEREBRAL ARTERIOSCLEROSIS)
(PSYCHOSES)

RAKHAL'SKIY, Yu.Ye., dotsent

Atherosclerotic cerebrasthenia. Trudy 1-go MMI 21:85-94'63.
(MIRA 16:9)

1. Kafedra psikhiiatrii (zav. - dotsent Yu.Ye. Rakhal'skiy)
Orenburgskogo meditsinskogo instituta i kafedra psikhiiatrii
(zav. - prof. V.M. Bانشchikov) 1-go Moskovskogo ordena Le-
nina meditsinskogo instituta imeni I.M.Sechenova.
(CEREBRAL ARTERIOSCLEROSIS)

RAKHAL'SKIY, Yu.Ye., MINSBERG, V.M.

Alcoholism and hypertension. Vrach.delo no.9:939-941 S'58

(MIRA 11:10)

1. Kafedra psikhiiatrii (zav. - prof. A.N. Molokhov) Kishinevskogo
meditsinskogo instituta.

(ALCOHOLISM)

(HYPERTENSION)

MOLOKHOV, Aleksey Nikolayevich; RAKHAL'SKIY, Yuliy Yegadovich;
GOTOVTSEV, P.I., red.; GABERLAND, M.I., tekhn.red.

[Chronic alcoholism] Khronicheskii alkogolizm. Moskva, Gos.
izd-vo med.lit-ry Medgiz, 1959. 148 p. (MIRA 13:7)
(ALCOHOLISM)

AUTHOR: Gulyayev, B.B.
CONFERENCE: Conference on Crystallisation of Metals (Sovetskoye Tekhnicheskoye Kristallizatsii metallov)
PERIODICAL: Investiya Akademi Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 4, pp 153 - 155 (USSR)
ABSTRACT: This conference was held at the Institut Mashinostroyeniya AN SSSR (Institute of Mechanical Engineering of the Academy of Sciences of the USSR) on June 28-31, 1958. About 400 specialists participated and the participants included specialists in metallurgy, physics of foundry, metallurgy, crystallography, physics, kinetics of heat, physical chemistry, mathematical physics and other related subjects. In addition to Soviet participants foreign visitors included Professor D. Cziki (East Germany) and M. I. Chvorinoy (Czechoslovakia). This conference on crystallisation of metals was the fourth conference relating to the general problem of the theory of foundry processes.

Conference on Crystallisation of Metals SOV/24-58-4-37/39
General Problems of Crystallisation of Metals
 Member of the A.S. Belorussian SSR, K. M. Sitka, in his paper "On the Mechanism of the Process of Crystallisation", proposed a general physico-mathematical theory on germination and the growth of crystals and described its application to problems of crystallisation of metals.
 Corresponding Member of the A.S. Ukrainian SSR, K. P. Ruzin and G. M. Kaban, in their paper "Eutectic Crystallization of Graphite", considered the features of formation of graphite separations in eutectic alloys from the point of view of the general theory of crystallization of iron.
 B. Ye. Lyubov in his paper "Calculation of the Speed of Solidification of Metals in the Conditions of the Synthesis of the Molecular-kinetic Models", proposed a theory of crystallization of metallic castings.
 A. G. Spas'kiy, in the paper "Fundamental Factors of the Structure of Castings" and M. V. Mal'tsev in the paper "Methods of Improving the Quality of Cast Metals" described results of their investigations of crystallization of castings from various alloys and considered methods of controlling such processes.
 I. L. Mirkin dealt with the influence of fluctuations in the concentration on the formation of crystallization centers and formation of crystals in complex alloys.
 G. P. Gerasimov gave a review of the present concepts on germination and the growth of crystals. O. N. Maklitskiy, A. A. Beidar and B. B. Gulyayev considered the influence of the speed of crystallization and the composition of the alloy on the qualitative characteristics of the structure and the mechanical properties of castings of the structure of iron-carbon and aluminum alloys.
 D. S. Kazemetskiy, B. P. Rakhmanova and Ye. Z. Shkiba, in the paper "Kinetics of the Formation of the Structure of Cast Metals" described the theory of formation of the structure of castings and applied it for elucidating the features of crystallization of iron.
 Ye. V. Grechunoy dealt with the features of crystallization of binary alloys of various types.

Cards/10

РАХИМОНОВИЧ, А. Н.

176. Rakhmanovich, A. N., Flow of a viscous gas in a subsonic jet (in Russian), *Trudh Ufimsk. aviats. in-ta* no. 1, 3-16, 1955; *Ref. Zh. Mekh.* 1956, Rev. 3109.

Examination of the flow of a viscous gas in a subsonic jet in the one-dimensional statement of the problem. The influence of the viscosity is estimated by the polytropic exponent and the efficiency of the equivalent process of expansion.

Author also investigates the flow parameters in a jet in relationship to the coefficient of loss of velocity, which is identically connected with the exponent of polytropy and the efficiency of the equivalent process of expansion. The graphs of these relationships are given for a gas with the adiabatic exponent $K = 1.33$. Some remarks are made on the rate of propagation of sound in a viscous gas.

D. A. Mel'nikov, USSR

Courtesy *Referativnyi Zhurnal*

Translation, courtesy Ministry of Supply, England

3
1-4247

1/ JKH

GEESHGON, M.A.; SVIFILSKO, F.P.; KAZARNOVSKIY, B.O.; KAVYUNOVA, I.P.;
POPOVA, A.N.; FRADINA, M.G.; Prinsipali uchastiya: IRE...
RUDOL'SKIY, N.L.; SIEPKANEV, N.P.; BLESKIN...
Ya.S.; BUL'SKIY, M.T. [deceased]; APEKANGEL'SKIY, B.I.;...
B.A.; VISTOROVSKIY, H.T.; PAKHANSKIY, B.I.; SARGHEEV, T.Ya.;
PYABININ, H.G.; KAFKULINA, P.R.; FADYEVA, A.M.; YV...
B.A.

Improving the production of high-strength rails by alloying
them with granulated ferrochromium in the ladle. Stal' 65
no.5:408-411 My '65. (MIRA 18.6)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov i zavod
"Azovstal'".

PROTASOV, N.F., inzh.; SHUVALOV, B.I., inzh.; FRADINA, M.G., inzh.;
CHERNOVA, A.V., inzh.; RAKHANSKIY, B.I., inzh.

Properties and peculiarities in the production of type R-75
heavy rails. Stal' 23 no.8:731-733 Ag '63. (MIRA 16:9)
(Railroads--Rails) (Rolling (Metalwork))

LARIONOV, L.F., BOGOMAZ, L.A., DMITRIYEVA, Ye.V. IZVOLININA, Ye.I.
RAKHAYEVA, O.I., TROYANOVSKIY, D.L. (Leningrad)

Sarcolysin therapy in multiple myeloma. Vrach.delo no.8:857-858
Ag '58 (MIRA 11:8)

1. Bol'nitsa imeni Sverdlova.
(MARROW--TUMORS)
(CYTOTOXIC DRUGS)

18(6)

TABLE I BOOK REVIEWS

87/174

Vysokomuzhnye spektroskopicheskiye analizy (Spectroscopic Analyses of High Purity Substances). M., Moscow, 1975

1. Mikhalev, M.I. (Papers Read at the Second All-Union Conference of Analytical Spectroscopists in Moscow, 1977). Moscow, Mashinostroyeniye, 1977. 128 p., 1,000 copies printed.

2. Pribluzhnyy spetsialnyy spektroskopicheskiy analiz (Semi-quantitative Spectroscopic Analysis). M., Moscow, Mashinostroyeniye, 1977. 128 p., 1,000 copies printed.

3. Pribluzhnyy spetsialnyy spektroskopicheskiy analiz (Semi-quantitative Spectroscopic Analysis). M., Moscow, Mashinostroyeniye, 1977. 128 p., 1,000 copies printed.

4. Pribluzhnyy spetsialnyy spektroskopicheskiy analiz (Semi-quantitative Spectroscopic Analysis). M., Moscow, Mashinostroyeniye, 1977. 128 p., 1,000 copies printed.

5. Pribluzhnyy spetsialnyy spektroskopicheskiy analiz (Semi-quantitative Spectroscopic Analysis). M., Moscow, Mashinostroyeniye, 1977. 128 p., 1,000 copies printed.

6. Pribluzhnyy spetsialnyy spektroskopicheskiy analiz (Semi-quantitative Spectroscopic Analysis). M., Moscow, Mashinostroyeniye, 1977. 128 p., 1,000 copies printed.

7. Pribluzhnyy spetsialnyy spektroskopicheskiy analiz (Semi-quantitative Spectroscopic Analysis). M., Moscow, Mashinostroyeniye, 1977. 128 p., 1,000 copies printed.

8. Pribluzhnyy spetsialnyy spektroskopicheskiy analiz (Semi-quantitative Spectroscopic Analysis). M., Moscow, Mashinostroyeniye, 1977. 128 p., 1,000 copies printed.

9. Pribluzhnyy spetsialnyy spektroskopicheskiy analiz (Semi-quantitative Spectroscopic Analysis). M., Moscow, Mashinostroyeniye, 1977. 128 p., 1,000 copies printed.

10. Pribluzhnyy spetsialnyy spektroskopicheskiy analiz (Semi-quantitative Spectroscopic Analysis). M., Moscow, Mashinostroyeniye, 1977. 128 p., 1,000 copies printed.

11. Pribluzhnyy spetsialnyy spektroskopicheskiy analiz (Semi-quantitative Spectroscopic Analysis). M., Moscow, Mashinostroyeniye, 1977. 128 p., 1,000 copies printed.

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62 no.1:111-112 Ja-F '57. (MLRA 10:6)
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RAKHILIN, V., starshiy nauchnyy sotrudnik; VOROB'YEV, K.A., doktor biol. nauk.

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RAKHILIN, V., starshiy nauchnyy sotrudnik

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(Pigeons)

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RAKHILIN, V.K.

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Effect of dihydroergotamine on the interoceptive metabolic reflexes under normal temperature and in hypothermia. Dokl. AN Azerb. SSR 21 no.7:72-75 '65.

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Yazyka i Literatury.

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DLC: DK861.T3E3

NNC

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AZIMOV, S.A.; GULYAMOV, U.G.; RAKHIMBAYEV, B.; USMANOVA, M.

Instances of hyperfragments with meson disintegration. Dokl. AN
Uz. SSR no.9:13-18 '57. (MIRA 11:5)

1. Fiziko-tekhnicheskiy institut AN UzSSR. Predstavleno akademikom
AN UzSSR U.A. Arifovym.
(Nuclear reactions) (Mesons--Decay)

BANNIK, B.P.; GULYAMOV, U.G.; KOPYLOVA, D.K.; NOMOFILOV, A.A.; PODGORETSKIY,
M.I.; RAKHIMBAYEV, B.G.; USMANOVA, M.

Hyperfragments in nuclear emulsions. Zhur. eksp. i teor. fiz.
34 no.2:286-297 F '58. (MIRA 11:4)

1. Ob"yedinennyy institut yadernykh issledovaniy i Tashkentskiy
fiziko-tehnicheskiy institut.
(Mesons) (Cosmic rays)

RAKHIMBAYEV, B.

CONCERNING ABNORMAL CASES OF HYPERFRAGMENT DECAY

S. A. Azimov, U. Gulyamov, M. Podgoretsky, B. Rakhimbayev

Results of the investigation of hyperfragments using thick photoemulsions are presented. From a total of 60,000 observed stars containing more than 7-8 black and grey spurs, 9 cases of hyperfragment decay were detected. In two of these cases, abnormal decays with an ejection of a K-meson were observed.

If the K-meson is regarded as a decay product of a heavier hyperon than Ξ (distinct from the cascade hyperon, since it does not produce K-meson during decay), then it follows from the obtained decay schemes that the mass of these particles should be $\sim 3,000 m_e$.

Report presented at the International Cosmic Ray Conference, Moscow, 6-11 July 1959.

AZIMOV, S.A.; GULYAMOV, U.G.; RAKHIMBAYEV, B.G.

Two cases of the meson decay of hyperfragments. Dokl. AN Uz.
SSR no.7:6-9 '59. (MIRA 12:10)

1. Fiziko-tekhnicheskij institut AN UzSSR. Predstavleno akad.
AN UzSSR S.V. Starodubtsevm.
(Mesons--Decay)

82407

S/056/60/038/03/05/033
BC06/E014

24.6810

AUTHORS: Azimov, S. A., Gulyamov, U. G., Karimova, R.,
Rakhimbayev, B. G.

TITLE: Anomalous Decays of Hyperfragments //

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 38, No. 3, pp. 697-702

TEXT: In recent years particles have been detected in the decay of hyper-fragments the masses of which corresponded to the K-meson mass within the limits of error. The authors subjected one emulsion chamber to cosmic radiation in the stratosphere, while another was bombarded with $4.5 \cdot 10^9$ -ev pions; three such decay events were recorded, one of them already described in Ref. 4 and the others in the article under review. The two cases under consideration were found in the pion-bombarded chamber which contained emulsions of the type Ilford G-5. Altogether, 60,000 stars with $N_h \geq 8$ were recorded. Case 1: Fig. 1 shows a ²microphotograph. The primary star was of the type $18 + 2$, the particle F departing from it (path length of 101u) ✓

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Anomalous Decays of Hyperfragments

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decayed into two particles the charges of which were $(8 \pm 2) e$. The ranges of these particles (1 and 2) were $(61 \pm 0.4)\mu$ and $(9362 \pm 122)\mu$, the angle between them was $83^{\circ}50' \pm 1^{\circ}20'$. Track 1 was attributed to an α -particle, and the mass of particle 2 was investigated by using two methods, i.e., the range-scattering method and the range-ionization method. The masses found by these methods were the following: $(856 \pm 167)m_e$ and $(990 \pm 120) m_e$. Assuming

that particle 2 be a K-meson it would have an energy of $(38.3 \pm 0.3) \text{ Mev}$ and a momentum of $(197.6 \pm 1.4) \text{ Mev}/c$. The decay modes of the F-particle are considered to be the most likely ones:

$C_6^{14} \rightarrow He_2^3 + K^- + n + B_5^{10}$ and $O_8^{18} \rightarrow He_2^3 + K^- + n + N_7^{14}$. Case 2: The primary star was of the type $19 + 3\pi$; a particle F departed from it which, after having attained 28μ , decayed into the charged particles 1 and 2. The F-track has two breaks; the tracks 1 and 2 had a range of $(465 \pm 8)\mu$ and $(13640 \pm 170)\mu$, the angle between them was $141^{\circ} \pm 1^{\circ}30'$. The mass of particle 2 was determined by 4 different methods, and the following masses were obtained: $(801 \pm 143)m_e$ by grain counting, $(1170 \pm 120)m_e$ from the density of breaks, $(986 \pm 132)m_e$ - by the method of constant deviations, and $(764 \pm 170)m_e$ - by

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Anomalous Decays of Hyperfragments

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BC06/B014

the method of the "constant cell". The following decay mode is considered probable: $H_1^+ \rightarrow He_2^3 + K^- + n + Q$. The individual methods are discussed. In order to find out whether the deviations of the measured mass values of the proton mass (in measurements by the range-scattering and the range-ionization methods) are interrelated, the mass distributions were studied. Fig. 3 shows the particle mass distribution measured by the $[\langle\alpha\rangle, R]$ method for particles whose masses are larger than the proton mass, as determined by the $[G, R]$ method; Fig. 4 represents the distribution for particles whose masses are smaller than the proton mass. Agreement is adequate to permit the assumption that there is no correlation between the deviations of multiple scattering and ionization. The probability that the proton mass and the K-meson mass coincide by chance is lower than 0.5% with an error of $400 m_e$. Data obtained by the above authors is compared in a table with that published in Refs. 1-5. Finally, the authors thank M. I. Podgoretskiy for his interest and advice. There are 4 figures, 1 table, and 11 references, 4 of which are Soviet.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk Uzbekskoy SSR
(Institute of Physics and Technology of the Academy of
Sciences, Uzbekskaya SSR)

SUBMITTED: August 24, 1959

Card 3/3

AZIMOV, S.A.; GULYAMOV, U.G.; RAKHIMBAYEV, B.G.

Bonding energy of Λ^0 -particles in hyperfragments. Izv. AN Uz.
SSR. Ser. fiz.-mat. nauk no.4:70-77 '61. (MIRA 14:9)

1. Fiziko-tehnicheskij institut AN UzSSR. Chlen-korrespondent
AN UzSSR (for Azimov).

(Hyperfragments)

L 22737-66 EWT(m)/T

ACC NR: AP6014820

SOURCE CODE: UR/0367/65/001/004/0676/0680

AUTHOR: Azimov, S. A.; Bannik, B. P.; Vishki, T.; Seb, Do In; Gulyamov, U. G.;
Rakhimbayev, B. G.; Chernova, L. I.ORG: [Azimov, Gulyamov, Rakhimbayev, Chernova] Institute of Nuclear Physics,
AN UzbSSR (Institut yadernoy fiziki AN UzbSSR); Joint Institute of Nuclear Research
(Ob'yedinennyy institut yadernykh issledovaniy) D 37

TITLE: Inelastic pp-interactions with low momentum transfer

SOURCE: Yadernaya fizika, v. 1, no. 4, 1965, 676-680

TOPIC TAGS: inelastic interaction, nuclear emulsion, proton, isobar

ABSTRACT: The nuclear emulsion method is used to study inelastic pp-interactions for energies of 2.26 and 9 GEV of a primary proton. The search for events in the emulsion was performed by accelerated inspection of traces. Energy distributions were obtained for slow protons. The events selected are of two types: pp-interactions and a small number of interactions connected with secondary processes in the nucleus. For the energy distribution all cases were taken with their weights $K = 1/W$, where W is the probability of registration. Both distributions were normalized for the complete observed path of primary protons $R = 3694\mu$. In the processing of the experimental data the relative output of the reaction was evaluated qualitatively with the formation of one or two isobars. The authors thank Van Shu-fen', T. Vishki, I. M. Gramenitskiy, V. G. Grishin, N. Dalkhabay, R. M., Lebedev, A. A. Nomofilov, M. I. Podgoretskiy,

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L 23737-66

ACC NR: AP6014820

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V. N. Strel'tsov for providing us the materials, which were so useful in this work. The authors also thank I. M. Gramenitskiy for his interest and assistance in the work; M. I. Podgoretskiy for the discussions; and E. G. Bubelev, A. Yuldashev, V. N. Strel'tsov, Yu. A. Troyan and V. G. Grishin for participating in the discussions and for their remarks. The authors offer further thanks to the laboratory workers of IYaF, AN UzSSR and LVE OIYaI for carrying-out the review of photoemulsions and measurements; and A. T. Balandikov for help in carrying-out the calculations. Orig. art. has: 4 figures. [JPRS]

SUB CODE: 20 / SUBM DATE: 01Jul64 / ORIG REF: 006 / OTH REF: 001

Card 2/2 VLR

I. GOROB-07 (M)
ACC NR AP7002337

SOURCE CODE: UR/0166/66/000/003/0054/0057

24
23
0

AUTHOR: Azimov, S. A.; Gulyamov, U. G.; Rakhimbayev, B. G.; Chernova, L. I.

ORG: Institute of Nuclear Physics, Academy of Sciences Uzbek SSR (Institut yadernoy fiziki AN UzSSR)

TITLE: Inelastic p-p interactions at an energy of 2.26 gev

SOURCE: AN UZSSR. Izvestiya, Seriya fiziko-matematicheskikh nauk, no. 3, 1966, 54-57

TOPIC TAGS: inelastic interaction, meson interaction, nucleon interaction

ABSTRACT: There has recently been developed a model for the single-meson interaction of particles at high energies. It is of great interest to verify the single-meson collision scheme and to compare model predictions with experimental data. This necessitates careful investigations into the dependence of the inelastic nucleon-nucleon interaction σ_{NN}^{inel} on the square of the four-dimensional recoil momentum Δ^2 for several fixed values of the kinetic energy of the primary proton, as well as ascertaining the course of the energy dependence of σ_{NN}^{inel} with a "cut-off" for the quantity Δ^2 .

The present article sets forth the results of a study of these questions for a primary proton energy of 2.26 Gev. Used for the investigations was an

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ACC NR: A27002337

emulsion cloud chamber irradiated by 2.26 Gev protons on a synchrotron of OIYaI [Ob"yedinennyy institut yadernykh issledovaniy; Joint Institute for Nuclear Research). The chamber consisted of 236 "R" type emulsion sheets of NIKFI [Nauchno-issledovatel'skiy kinofoto institut; Motion Picture and Photography Scientific Research Institute]. Certain visual and kinematic criteria were used for selecting events for analysis and, as a result, most of the interactions selected were p-p collisions. Orig. art. has: 2 figures and 2 formulas.
[JPRS: 38,168]

SUB CODE: 20 / SUBM DATE: 22Feb65 / ORIG REF: 007 / OTH REF: 008

Card 2/2 ^{6p}

RAKHIMBAYEV, F.M.

Evaporation of underground waters in the southern part of Khorezm Province. Uzb.geol.zhur. 6 no.4:36-39 '62. (MIRA 15:9)

1. Uzbekskiy gidrogeologicheskij trest.
(Khorezm Province--Soil moisture)

RAKHIMZAYEV, G.F., inzh.

"Peat" building at the exhibition of the achievements of the
Soviet national economy. Torf.prom. 36 no.4:28-29 '59.
(MIRA 12:9)

1. Vystavka dostizheniy narodnogo khozyaystva SSSR.
(Moscow--Peat industry--Exhibitions)

RAKHIMBAYEV, G.F., inzh.

"Peat" pavilion at the 1958 All-Union Industrial Exposition.
Torf. pron. 35 no. 4:23-25 '58. (MIRA 11:7)

1. Vsesoyuznaya promyshlennaya vystavka.
(Peat--Exhibitions)

RAKHIMRAYEV, I.

Simple procedure for preparing cellophane bags for dialysis. Lab. delo
no.1:56-57 '64. (MIRA 17:4)

1. Laboratoriya biokhimi AN KazSSR, Alma-Ata.

*

AKHMETOVA, N.; RAKHIMBAYEV, I.

"Tary" should be prepared by industrial methods. Muk.-elev.
prom. 28 no.5:26-27 My '62. (MIRA 15:5)

1. Kazakhskiy zhenskiy pedagogicheskiy institut, Alma-Ata (for
Akhmetova). 2. Institut Lotaniki AN Kazakhskoy SSR (for Rakhimbayev).
(Kazakhstan—Cookery (Millet))