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Christine Schnitzer

Christine Schnitzer
Product Manager
Ceramic Information Center

735 Ceramic Place
Westerville, Ohio 43081-8720
614-890-4700
TWX: 7101109409

CERAMIC ABSTRACTS¹

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Ross C. Purdy, Editor

ABSTRACTERS: A. ALLY, J. B. AUSTIN, A. A. AYARS, R. BARTA, M. H. BERRY, L. T. BROWNE, W. M. COMB, J. L. GALLUP, MAX HARTENBERG, F. O. HICK, R. A. HINDS, E. B. HEWITT, O. M. HUTT, S. KONDO, M. V. KONDOROT, A. KUCZLER, J. T. LITTLETON, S. L. PERKAL, J. G. PHILLIPS, R. H. H. PIERCE JR., W. E. RICH, G. R. SHELTON, H. H. STEPHENSON, H. TUCK, E. J. VACHURA, H. P. VIEWEG.

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Abrasives

Abrasive-belt sheet grinder. MATTHEW MACHINERY WORKS. *Metal Cleaning & Finishing*, 6 [6], 320 (1934).—A detailed description of a new grinder for grinding alloy, carbon, and other forms of sheets, employing factory-coated abrasive belts manufactured under controlled conditions, is presented. Illustrated. E.J.V.
Use of abrasive sleeves and belts. FRANK B. JACOBS. *Metal Cleaning & Finishing*, 6 [6], 314-15 (1934).—The procedure to be followed in the application of various types of coated abrasive belts and sleeves to the polishing of metal products is presented. Advantages of abrasive belts and sleeves are listed. E.J.V.

PATENTS

Abrading and polishing composition. F. A. PATTERSON (McAlister Mfg. Co.). U. S. 1,965,299, July 2, 1934.
Abrasive articles bonded with a synthetic resin. BAKELITE, LTD. (Carborundum Co.). Brit. 411,846, June 27, 1934.
Abrasive or polishing roll. R. A. FILLEY (Wingfoot Corp.). U. S. 1,963,357, June 19, 1934.
Abrasive structure. M. J. SCHREIBER. U. S. 1,963,154, June 19, 1934.
Abrasive tool. O. S. BUCHHEIM. U. S. 1,963,823, June 19, 1934. An abrading tool having a circular, peripheral working face is composed of a rigid, bonded mass of abrasive grains, a substantial portion of which are of elongated formation and are mainly arranged with their longer dimensions extending approximately radially with relation to the center of the face.
Art of grinding. WILLIAMS FRANKS (Cincinnati Grinders, Inc.). U. S. 1,965,256, July 2, 1934. A grinding wheel for operation at a constant prescribed number of revolutions per minute comprises a composition of an abrasive material and a bond therefor, the grit and grade of the composition material progressively, continuously decreasing from center to the periphery of the wheel whereby the wheel when operated at constant r.p.m. will perform a prescribed grinding irrespective of reductions in diameter of the wheel resulting from wear, truing, etc.

Ball grinding machine. G. F. MATTHEW (Abbott Ball Company). U. S. 1,964,165, June 26, 1934.

Buffing machine. R. E. DUPLASS (United Shoe Machinery Corp.). U. S. 1,964,043, June 26, 1934.

Buffing wheel, buffing wheel fabric, and method of treating the fabric. K. H. BARNARD (Pacific Mills). U. S. 1,964,901, July 2, 1934.

Combined internal and face grinding machine. FORTUNA-WERKE SPECIALMASCHINENFABRIK A.-G. Brit. 412,523, July 4, 1934.

Form grinding. S. J. HARLEY. Brit. 412,462, July 4, 1934.

Grinding disk. L. R. SHUB (Gardner Machine Co.). U. S. 1,964,537, 1,964,538, and 1,964,539, June 26, 1934.

Grinding machine. WALTER FERRIS AND J. P. FERRIS (Olgear Co.). U. S. 1,965,696, July 10, 1934. W. J. GUILD AND H. L. BLOOD (Heald Machine Co.). U. S. 1,964,432, June 26, 1934. F. S. HAAS (Cincinnati Grinders, Inc.). U. S. 1,965,234 and 1,965,235, July 2, 1934. C. L. SCHULTZ (Cincinnati Grinders, Inc.). U. S. 1,965,261, July 2, 1934. G. F. YAGER (Bunting Brass & Bronze Co.). U. S. 1,966,194, July 10, 1934. R. W. YOUNG (Charles H. Beely & Co.). U. S. 1,965,020, July 2, 1934.

Grinding of rotating eccentric knives. W. E. MOLDER. Brit. 411,440, June 20, 1934. W. E. MOLDER, F. F. RUDE, F. W. HACKING, AND MOLDER MACHINERY CO., LTD. Brit. 412,222, July 4, 1934. E. C. MUEHLBAUER AND MOLDER MACHINERY CO., LTD. Brit. 411,244, June 12, 1934.

Grinding of safety-razor blades. V. R. CAM. Brit. 412,223, July 4, 1934.

Grindstone. R. E. REAS (International Paper Co.). U. S. 1,963,247, June 19, 1934.

Honing apparatus. J. H. GETTIS AND A. D. GETTIS (National Tube Co.). U. S. 1,963,620, June 19, 1934.

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Lapping machine. J. Q. H. BUDS. U. S. 1,963,884, June 19, 1934.

Manufacture of abrasive articles. F. A. UFFER (Bakelite Corp.). U. S. 1,963,253, June 19, 1934.

Manufacture of grinding and abrading bodies. DEUTSCHE GOLD- UND SILBER-SCHNEIDFABRIK VORM. ROSSLER. Brit. 411,498, June 20, 1934.

¹ The bold-face number following the journal is the volume, the issue number is in brackets, followed by the page number, then the year in parentheses.

pigment containing zinc sulfide and requiring heat treatment for imparting adequate pigment properties thereto comprises carrying out the precipitation of the pigment at a temperature substantially in excess of 100°C and under a pressure of at least 200 lb./sq. in.

Method of producing chromates. J. B. CASPER, JR., and E. P. STEVENSON (Arthur D. Little, Inc.). U. S. 1,904,719, July 2, 1934.

Process and apparatus for the production of barium oxide. KALL-CHENON A.-G. Brit. 411,402, June 12, 1934.

Process and apparatus for the treatment of beryl minerals. BORAX CONSOLIDATED, LTD. Brit. 412,311, July 4, 1934.

Process for making pigments. H. A. DEWE (American Zinc, Lead & Smelting Co.). U. S. 1,962,346, June 19, 1934.

Process for the preparation of pure beryllium compounds. WALTER ZIECK and GUSTAV JACKE (Deutsche Gold- und Silber-Scheideanstalt vorm. Rossmeyer). U. S. 1,906,171, July 10, 1934. A process for the preparation of pure beryllium compounds from materials containing, in addition, alumina and silicic acid consists in converting the beryllium present into beryllium oxide insoluble in dilute acid, treating the reaction product with a dilute acid which is capable of forming soluble salts with ammonium, alkaline earths and iron, separating the solution from undissolved silica and beryllium oxide, and separating the two latter compounds.

Process of producing crystalline anhydrous borax. L. C. SLACK (American Potash & Chemical Corp.). U. S. 1,964,902, July 2, 1934.

General

American Standards Association symbols for Solid ~~monocrystalline~~. *Am. Soc. Test. Mater. Ceram. Sec.*, 12 [7], 190-92 (1934).

Colloidal slurry, a new bonding material. KAISER RESEARCH LABORATORY. *Ceram. Ind.*, 23 [7], 382 (1934).—Colloidal slurry is made by digesting halloysite in the presence of a small percentage of asphalt base oil. It is claimed that colloidal slurry improves plasticity, acts as a lubricant for extruded ware, makes cast ware stronger, does not reduce the melting point, extends the vitrification range, improves firing behavior, reduces the cost of bonding agents, acts as a fixative in ceramic bodies, gives a better structure to fired bodies, adds great strength to both raw and fired bodies, is not glassforming at high temperatures, has a low water dispersion, influences the uniformity of mixes, and reduces the amount of bond necessary in mixes. R.J.V.

Practical clayworking. XIII. *Am. Soc. Test. Clayworker*, 43 [305], 33-35 (1934).—A continuation of a discussion on humidity driers with special reference to the Keller drier is given. For Parts XI-XII see *Ceram. Abstr.*, 13 [8], 217 (1934). R.A.H.

Silicosis. W. R. JONES. *Brit. Inst. Mining Met.*, No. 352, pp. 1-12 (1934); abstracted in *Analyst*, 59, 191-92 (1934); see also *Ceram. Abstr.*, 13 [8], 227 (1934). H.H.S.

Silicosis in the pottery industry in Denmark. Examination of workers in Danish pottery factories. S. V. GONJONSMOET. *Arch. Gewerbepath. & Gewerbehyg.*, 4, 743-71 (1933); abstracted in *Jour. Ind. Hyg. Abstr.*, 16 [2], 38-39 (1934).—X-ray photography carried out on 798 workers provided the data upon which conclusions are based in this investigation. No distinction is drawn between earthenware and china in the making of which the exposure to flint dust is entirely different. No dust estimations were made regarding either the amount of dust, its composition, or the size of particles. G. considered he found signs of silicosis in 38.6% of the 441 men examined, and in 27.3% of the 337 women, but he states that the wet processes (which should be dust free) seem to be just as dangerous as the dry. The incidence of illness for all the workers was high, while respiratory diseases were especially frequent among those having silicosis. Out of 46 deceased potters 21 died from some form of respiratory disease.

Although active cases of tuberculosis were found among silicosis in an advanced stage, the occurrence of tuberculosis was not frequent. E.J.V.

Sodium silicate: increasing uses in the ceramic industries. J. G. VAN. *Chem. Trade Jour.*, 94 [2446], 248-49 (1934). M.V.R.

BOOK REVIEW

Pneumoconioses (Silicosis): Bibliography and Laws. GEORGE G. DAVIS, ELLA M. SALMONSEN, and JOSEPH L. EARLYWINE. Foreword by E. R. Le Count. Published by Industrial Medicine, Inc. 482 pp. Cloth, \$7.50. An exhaustive compilation of the references to the pneumoconioses (silicosis) in the literature of the world, this book contains every available reference from the first published in Agricola's "De re Metallica" in 1556 to the last published articles in 1933. The authors, George G. Davis, M.D., Associate Clinical Professor of Surgery, Rush Medical College, University of Chicago, Ella M. Salmonsen, Medical Reference Librarian, John Crerar Library, and Joseph L. Earlywine, Attorney, give authority to the work by their standing in their respective fields. The book has two sections, the first, the bibliography, is followed by subject index, author index, a reference-year index, and an index of reference headings. The second part, the law, contains a summary of the occupational diseases laws, workmen's compensation laws, and common laws of the states of the United States with decisions as they relate to pneumoconioses (silicosis). The law summary is followed by an index of states and an alphabetical index of cases. The book is exhaustively cross-indexed. Supplemental volumes are planned for successive years, the first to appear soon after January 1, 1935. Industrial executives, industrial boards, state commissions, engineers, and research workers will find this book indispensable. HENRY H. SMITH

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Method of calcining diatomaceous earth. MCKINLEY STOCKTON (Dicalite Co.). U. S. 1,966,202 and 1,964,263 July 10, 1934.

**The PNEUMONOKONIOSES
(SILICOSIS)**

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By

George G. Davis, M.D.

*Associate Clinical Professor of Surgery,
Rush Medical College, University of
Chicago; Attending Surgeon,
Cook County Hospital*

and
Ellis M. Salmonson

*Medical Reference Librarian,
The John Crerar Library, Chicago*

and
Joseph L. Earlywine

Attorney at Law, Chicago

With a Foreword by

R. B. Le Count, M.D.

*Professor and Chairman, Department of Pathology
Rush Medical College, University of Chicago*

V. I.

Asbestosis

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