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PLAINTIFF'S
EXHIBIT

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The fine-milling question again arose, and this time several improvements and modifications accompanied it. The research laboratories of the Titanium Alloy Manufacturing Company had worked with fine milling and high opacifier additions as far back as 1929. But they had met with the same difficulties as others, namely, spray pattern, tearing and crawling, and bad results because of poor ground coats. Since then, spray guns have been developed that give atomization which enables uniform coatings to be applied as low as 25 gm. per sq. ft. Early in 1938, this idea was again brought to the attention of the enameling industry. Milling went as far as 1% on 325-mesh. High mill additions were made, originally 20%, which dropped back to about 12%. Successful commercial trials were made and many of the "bugs" were ironed out. Sodium-nitrite mill addition was found to give better dry strength and to reduce crawling or tearing tendencies. The addition of opacifiers during the late stages of milling cut the milling costs. It was thought that brushing could be eliminated, but it has been discovered that until ground-coat beading can be eliminated this will not work. The advantages of thinner applications are (1) less enamel is processed per foot of coverage, (2) the enamel is more serviceable from the standpoint of chipping and cracking under flexure and there is less warpage, (3) high gloss and less scumming, (4) more reclaims, and (5) higher saving in costs. Owing chiefly to ground-coat difficulties in many plants, the fineness was gradually raised to 0% on 200-mesh. The present trend is to use a superopaque frit milled to 0% on 200-mesh (about 9 grams on 325-mesh) and to use from 8 to 12% of mill addition. A coating of

about 40 gm. per sq. ft. is applied as compared to the old 72 gm. per sq. ft. There are some plants, however, using normal opaque frits with 6 to 8% of mill addition; others are using superopaque frits with 2 to 4% of mill addition.

VII. Cerium Compounds

In recent years, cerium compounds have been used (especially in Germany) with some success as mill-added opacifiers. These have not as yet received much attention or study in this country. At the present time, there are two general types of mill-addition replacements for tin oxide. One is an antimony-base and the other a zirconium-base opacifier. The latter type is offered to the industry in many versatile forms designed to meet all special requirements.

VIII. Conclusions

In the early days when frits lacked high opacity, the mill addition was chiefly tin oxide varying from 8 to 12%. Then as the normal opaque frits appeared, mill-addition opacifiers dropped usually to 6%, and the tin oxide gradually was replaced with substitute opacifiers. In later years, superopaque enamel frits came into prominence whereby mill additions as low as 2% were used successfully at a normal fineness of 10 to 12 gm. on 200-mesh. More recently, the fine-milled, high opacifier mill addition and lightweight application has come into use. The present trend seems to be swinging definitely toward this idea and with still lighter coats the aim.

TITANIUM ALLOY MANUFACTURING COMPANY
NIAGARA FALLS, NEW YORK

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- *Carter, Herbert D., Canton Stamping & Enameling Co., Canton, Ohio
- Carter, John D., Philadelphia Quartz Co., 121 S. Third St., Philadelphia, Pa.
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- Carter, Willard K., Box 154, Columbus, Ohio
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- Caton, Milton W., 22490 Nevada Ave., East Detroit, Mich.
- Cawood, Richard L., East Liverpool, Ohio
- Cayford, James M., Glascote Products, Inc., 20900 St. Clair Ave., Cleveland, Ohio
- Celo Mines, Inc. (V. L. Mattson), Burnsville, N. C.
- Central Silica Co. (R. G. Hay), Zanesville, Ohio
- Ceramic Color & Chemical Manufacturing Co. (W. F. Wenning), Box 297, New Brighton, Pa.
- Ceramic Inst., Rudolf Barta, Prague-Dejvice, Czech- Protectorate

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 Chicago Pottery Co. (J. S. Clifford), 1920 Clybourn Ave., Chicago, Ill.
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 Crossley Machine Co. (William J. Harris), Trenton, N. J.
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 Van Nieuwenburg, C. J., Rotterdamsceweg, Delft, Holland
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 *Van Schoick, E. H., Box 496, Ottawa, Ill.
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 *Vaughan, W. H., Georgia School of Tech., Atlanta, Ga.
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 Vereeniging Brick & Tile Co., Ltd. (L. Wishart), Box 49, Vereeniging, Transvaal, South Africa
 Verreries Souchon Neuvesel, Siège Social, à Lyon 8, 10 Rue de la Bourse, France
 Vesuvius Crucible Co. (Francis L. Arensberg), Box 29, Swissvale, Pa.
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 Victor Insulators, Inc. (P. W. Price), Victor, N. Y.
 Vielhaber, Louis, Lippestr. 11, Duisburg, Germany
 Vieweg, Hermann, 323 Lawrence Ave., Highland Park, N. J.
 Vincent, George L., 56 Jefferson Ave., Rockville Center, N. Y.
 Vinther, E. Heikel, Porcelainfabriken Norden, Valby Langgade 95, Copenhagen, Denmark
- (1940)
- Vitreffrax Corp. (R. W. Ellison), 5050 Pacific Blvd., Los Angeles, Calif.
 Vitreous Steel Products Co. (Edgar H. Weil), Sta. D, Cleveland, Ohio
 Vitro Manufacturing Co. (E. M. Fleck), Corliss Sta., Pittsburgh, Pa.
 Vodicka, Albert L., Aetna Porcelain Enameling Co., 4701 Augusta St., Chicago, Ill.
 Vollmer, August, Jr., St. Louis Pottery Co., 5240-46 Northrup Ave., St. Louis, Mo.
 Vollrath, A. J., 2123 North 6th St., Sheboygan, Wis.
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 Voorhies, James A., 1001 Morrell Ave., Connelville, Pa.
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 Waite, Virgil H., 433 Beech St., Berea, Ohio
 Wakymoto, Seichi, 200 Fifth Ave., New York, N. Y.
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 Waldschmidt, Milton H., 309 Mainview Apts., Main & 25th Sts., Anderson, Ind.
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 Walker, F. L. (Student), 118 Champlain Ave., Decatur, Ga.
 *Walker, Francis W., Jr., 105 W. Second St., Frederick, Md.
 Walker, Herbert M., Bailey-Walker China Co., Bedford, Ohio
 Walker, Leander H., Town Line Rd., Coldwater, N. Y.
 Walker, Prescott H., Carborundum Co., Niagara Falls, N. Y.
 Wall, Gertrude R., 5506 Telegraph Ave., Oakland, Calif.
 Wallace China Co., Ltd. (Wallace B. Wood), Box 47, Huntington Park, Calif.
 Wallace, William W., Camden Pottery Co., Camden, N. J.
 Walsh, Donald E., Consolidated Feldspar Corp., East Liverpool, Ohio
 Walsh, N. S. C., 4428 N. First St., St. Louis, Mo.
 Walters, D. B., Chicago Vitreous Enamel Product Co., 1407 South 55th Court, Cicero, Ill.
 Waltham Grinding Wheel Co. (Robert L. Lyons), Waltham, Mass.
 *Walton, S. F., Exolon Co., Blasdel, N. Y.
 Walworth, Chester A., Libbey-Owens-Ford Glass Co., Charleston, W. Va.
 Wampler, Roy W., Libbey-Owens-Ford Glass Co., Oakdale & E. Broadway, Toledo, Ohio
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 Ward, George V. (Student), Box 612, Alfred, N. Y.
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 Ward, K. E., United Clay Mines Corp., Oakland & Prospect Sts., Trenton, N. J.
 Ward, William Patrick, 168 Water St., Perth Amboy, N. J.
 Warde, John M., Vereeniging Brick & Tile Co., Vereeniging, Transvaal, South Africa
 Wardley, Thomas, Westpoint Rockware Ave., Greenford, Middlesex, England
 Warren, Bertram E., Massachusetts Inst. of Tech., Cambridge, Mass.
 Washington Porcelain Co. (E. E. Miller), Willow St., Washington, N. J.
 Wassman, L. G., Standard Sanitary Manufacturing Co., Pacific Enamel Works, Richmond, Calif.
 Watkins, Ray T., United States Tariff Commission, Ceramic Div., Washington, D. C.
 Watkins, W. J., Kentucky Clay Mining Co., Mayfield, Ky.
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 Western Electric Co. (L. I. Shaw), Hawthorne Sta., Chicago, Ill.
 Westinghouse Electric & Manufacturing Co. (E. H. Fritz), Derry, Pa.
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 Wheeling Steel Corp. (Warren F. Copp), Yorkville, Ohio
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 Whitaker, H., Rustless Iron Co., Ltd., Trico Works, Keighley, England
 Whitaker, L. R., Richland Shale Products Co., Richtex, S. C.
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 Winters, F. T., Pacific Coast Borax Co., 51 Madison Ave., New York, N. Y.
 Wisconsin Porcelain Co. (L. A. Stohl), Sun Prairie, Wis.
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 *Wolfgram, H. G., Porcelain Enamel & Manufacturing Co., Baltimore, Md.

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 Young, David H., Georgia Kaolin Co., Dry Branch, Ga.

Young, Willard G., 206 N. Jefferson St., Robinson, Ill.
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 Zapffe, Carl A., Battelle Memorial Inst., 505 King Ave., Columbus, Ohio
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Overbeck Pottery exhibit in The Society executive offices. The tall vases in the background were made by the late Elizabeth Overbeck, a Fellow of The Society.

(1940)



Artware made by students of the Smith-Hughes Extension Course of West Virginia University, Charles R. Tennant, supervisor (see page 273, July, 1940, Bulletin).

All of the exhibits in the executive offices of The Society are being numbered and labeled as a permanent record for members of The Society.