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OBJECTS OF ARTIFICIAL MARBLE AND PROCESS OF PRODUCING SAME.

SPECIFICATION forming part of Letters Patent No. 789,610, dated May 9, 1905.

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To all whom it may concern, ---

and a resident of Sonneberg, in the Duchy of 5 Saxe - Meiningen, Germany, have invented certain new and useful Improvements in Objects of Artificial Marble and Processes of Producing the Same, of which the following is a specification.

and of a process of producing the same. The the grease, but at the same time hardened. surface of these objects is of about the same : The admixture of mica or glass or flint-15 glittering and cloudy appearance of marble, texture of the genuine marble, as these par-

tions of genuine marble. The process of fall directly upon them. manufacturing these objects is the following: What I claim as my invention, and desire to About seventy per cent. of a pulverous ma-Necure by United States Letters Patent, is-20 terial which hardens in water—for instance, 1 1. The herein-described composition of per cent. of barytes, and five to ten per cent. of coarsely-powdered mica or glass or flint-

stone sand, and the necessary addition of wa-25 ter are mixed to form a liquid mass of the consistence of the mass of which plaster figures are made. The mass is then poured into molds similar to those used for the production of plaster casts and allowed to remain in 30 it until the cast has become hard; but as the mold requires to be oiled or greased to allow of removing the cast, and as the oil or grease 35 the grease. This can be effected simultane- | cleaning it thereupon with water and strew-

40 it has become hard is first placed into a lye of | eral fat, substantially as and for the purpose alkaline compounds—for instance, into a con- | set forth. centrated solution of ammonia—and exposed to the action of the same for about twenty- presence of two witnesses.

four hours. The grease which has pene-45 trated into the cast is hereby dissolved. The cast is then taken out of the bath and strewed with a siccative-for instance, chlorid of lime—and thereupon placed into a drying-

! chamber, heated to a temperature of about Be it known that I. Robert Hülsberg, 150° to 60° centigrade, where it is exposed to 5° Ph. D., a subject of the German Emperor, the action of the heat until the drying-powder can be easily removed. After the cast has been taken out of the drying-room and the powder has been removed it is plunged into liquid mineral wax-for instance paraf- 55 fin -in order to perfectly close the pores of the same. The result of the treatment of the The present invention relates to improve- cast with the alkali lye is that the upper ments in objects of art and of practical use stratum of the same is not only freed from

hardness as marble and they further have the stone sand gives to the cast the crystalline so that they can be called very perfect imita- sticles of mica or sand glitter if rays of light

gypsum or cement—twenty to twenty-five matter consisting of seventy parts of cement, twenty to twenty-five parts of barytes, five to 7° ten parts of a glittering material and water, substantially as set forth.

2. A process of producing objects of art and of practical use formed of a cast mass hardened and impregnated on its surface, 75 composed of gypsum, cement, barytes, particles of a glittering material and water, which consists in pouring the mass into oiled molds and exposing the cast, after it has hardened, for the purpose of removing the grease and 80 penetrates to a certain depth into the cast hardening the surface, for about twenty-four care must subsequently be taken to remove | hours to the action of an alkali lye and in ously with the treatment required for giving | ing it subsequently with pulverous chemicals the cast a cloudy appearance—in other words, | absorbing the moisture and then drying it in 85 the characteristics of genuine marble. To a drying-room and saturating it, after having this end the cast taken out of the mold when | removed the drying-powder, with liquid min-

Intestimony whereof I affix my signature in 9°

ROBERT HÜLSBERG.

Witnesses:

F. F. DUMONT, MAX SCHUSTER.