semble magnesite, was uncovered in a search for of wood flour, cork, asbestos, or other filler, thereby iron ore, but as, at that time, the name was unfam- adding to the elastic properties of the finished proiliar and its uses and properties not known to the duct. Its surface is described as "warm" and quiet, prospectors, it attracted no more than a passing as a result of the elastic and non-conducting charnotice. The question may have been asked, "What is it and as there was none to answer, nothing more usually coloured by the addition of some mineral was said or done in reference to it. Its value now being known the probability is that the numerous by times prospectors will include magnesite as a mineral worth looking for. Or it may be that the Steel companies may employ skilled prospectors to search for the mineral.

of the rarer and less known minerals :-

'Magnesite is a natural carbonate of Magne-44 per cent.

grained rock with a conchoidal fracture resembling halls in public or other buildings, including hospia break in porcelain. The Grecian Magnesite is tals, factories, shops and restaurants. largely of this character, while the Austrian varieties usually contain iron so that they become brown coming into more general recognition and favor for after calcining. The Washington Magnesite, one these uses. For a few special uses it is more or less of the most recent developments, resembles dolo- disqualified; as an instance, it is not suited for conmite and some crystalline limestones in physical struction of swimming tanks or for conditions of appearance. Its color varies through light to dark permanent wetness, since under constant immersion gray and pink.

Kern County) are associated with Serpentine areas. The Washington deposits are stated to be associat- vantage in its use for laboratory floors and tables; ed with extensive strata of dolomite limestones."

include the following:

steel arnaces, copper reverberatories and convert- terrazzo, although more expensive than wood ers, bullion and other metallurgical furnaces; in the asphalt, linoleum, or Portland Cement. manufacture of paper from wood pulp; and in making flooring, wainscoting, tiling, sanitary kitchen ure are ascribable to uncertain climatic changes, and hospital finishing, etc. In connection with lack of uniformity in mixtures used, lack of care on building work it has proved particularly efficient as the part of those handling the materials, possible dea flooring for steel railroad coaches, on account of terioration of materials used through exposure having greater elasticity and resilience than Port- (either before or after mixing) lack of proper preland cement. For refractory purposes the magne- paration of foundations on which the material is to site is "dead-burned"—i.e.—all or practically all of be laid, and, as a very important factor, experience the C. O. 2 is expelled from it. For cement purposes or non-experience in the manipulation, or actual it is left "caustic" i.e. from 5 per cent. to 10 per cent. laying and troweling of the material. of C. O. 2 is retained. When dry caustic magnesite of ground calcined magnesia, and data concerning is mixed with a solution of magnesium chloride the character and quality of filler and colour added (Mg. Cl 2) in proper proportions, a very strong to the commercial preparations, are naturally cement is produced, known as oxychloride or sorel guarded as trade secrets by the firms arready in the cement. It is applied in a plastic form, which sets business. The examination and standardization of in a few hours as a tough, seamless surface. It has the raw materials used, and of acceptable filler materials also a very strong bonding power, and will hold erials, and the establishment of standard propos firmly to wood, metal or concrete as a base-

It may be finished in a very smooth, even surof soft native cement. Near Whycocomagh, several face, which will take a good wax or oil polish. As years ago, a mineral, now admitted to closely re-ordinarily mixed there is added a certain proportion

The desirable qualities of flooring material (cost not considered) are listed for purposes of analysis or comparison under eighteen heads as follows:-Cleanliness (sanitary qualities), quietness, immunity from slipperiness, appearance, waterproof The following description of Magnesite, its nat-character, plasticity, warmth (thermal insulation) ure and uses, is by Fletcher Hamilton, and was con- life (immunity from deterioration by age) acidtributed by him to a publication named "Foot proof character, alkali-proof character, fire resist-Notes" whose main purpose is to give description ance, elasticity, crushing strength, structural contraction and lightness. The importance of these sium, and when pure contains 52.4 per cent. C. O. several qualities varies with the varying require-(Carbon dioxide), and 47.6 per cent. Mg. O (mag- ments to be met. For instance, in some places, as nesia). It has a hardness of 3.5 to 4.5 and specific in hospitals, cleanliness is one of prime consideragravity of 3 % 3.12. It is both harder and heavier tion; in other places immunity from abrasion might than calcite (calcium carbonate) and also contains be one of the principal requisites. As to most of a higher percentage of C. O. 2, as Calcite has but these qualities the conclusion is reached that mag-Most of the California Magnesite is comparat- flooring materials for use in kitchens, laundries. ively pure, and is ordinarily a beautiful, white, fine-toilets and bath rooms, corridors, large rooms or

There is no doubt that the material is steadily In California, the known magnesite deposits, termittent wetting and drying, and is recommended with a single exception (a sedimentary deposit in for shower baths. Naturally it is not acid-proof, and but these are rather special requirements. Its cost "Uses—The principal uses at the present time per square foot is given as 25 to 33 cents, depending on area which is estimated to be lower than "In refractory linings for basis open hearth marble, cork, rubber, clay, or mosaic-tile, slate or

When unsuccessfully used, the causes of failonly satisfactory way of attacking the problem.