## Mounting Photographs.

Procure from your grocer a supply of "flour of rice" (I don't mean rice starch), take two tablespoonfuls, and with a little water work it up into a nice thick cream in a common bowl. When this is done, and it is seen Jour. of Photo. that there are no lumps, go on adding water to the extent of about twenty ounces. Keep well stirred, and add a teaspoonful of powdered alum when quite dissolved. Take a suitable enameled pot or other clean one, such as in Scotland we make our porridge in, stretch over the top of it a piece of coarse muslin, and pour through the same into the pot the rice flour and water. While these operations have been going on a little gelatine, about twenty grains or so, is to be softened in clean cold water. When quite soft place this also in the pot and add thirty drops of oil of cloves. Place over a gas stove or bright fire free from dust, and bring gently to the boil, stirring well all the time. When the boil is reached the result will be a nice thin paste. If too thick, it must be thinned down by the addition of water at this stage and gently boiled a little longer. I may just describe that when the paste assumes a thickness of the consistency of thin treacle, or when it will of its own accord permit its being poured from the pot direct into a wide-mouthed bottle, it will at the end of the operation be about right.

same is well stirred and incorporated with the paste, pour the whole into a wide-mouthed bottle, set aside to cool, and when quite cold you have a permanent south, east and west. The estimated population is mountant that will delight the heart of the most fastidious operator. Let me add, then, when cold and ish creoles), negroes, and mulattoes, the Cubans and going to use it, the same should be taken out of the bottle with a spoon and placed in a saucer or cup and | and the sponge fisheries constitute the most valuable beaten up with the hog's hair mounting brush, the industries. After a thorough and systematic sanitary bottle being carefully corked again till future use. A survey of this city, covering some weeks, and in which dirty or used brush should not be allowed to go into I was materially assisted by Dr. C. B. Sweeting, port the bottle or remain there, as we so often see done with physician, I find that there are many evils to condemn, common gum bottles. If such little precautions as these and very few features in municipal sanitation to comare attended to, the stock bottle will keep good indefi-|mend. The general condition of the principal streets nitely, and the amateur or professional, wherever he is cleanly, but badly graded and imperfectly drained, may be, will have on hand always a stock of as good a mounting medium as the world has ever seen.

The color of this paste is one of its great points, while it has very excellent adhesive properties. A print, if and no drains. The average condition of premises, as carefully brushed over round the edges, will never lift, provided the mount is what it ought to be.

I now proceed to give a few hints, which I believe are not generally known to the great bulk of amateurs. or professionals either for that matter, on the mounting of prints in optical contact on glass.

First of all get your glasses thoroughly clean and dry, and be sure they are free from dust. When quite dry, brush over the surface of them a quantity of mounting medium, work this well on to the face of the glasses, and set aside for a few moments while you give a similar treatment to the "face" of the print, which ought to be damp. When the face of the print has been well brushed over with the medium, it is placed face down on the prepared side of the glass. I feel it is at this stage that many have gone wrong in their attempts to mount their prints in optical contact with cold starch. Were a squegee to be applied to the back of the print in this state, it is just about ten to one it would result in the tearing of the print by the friction of the rough surface of the back of the paper with the rubber of the squegee; but once this difficulty is recognized, and a simple means adopted whereby some efficient lubricator is brought to bear on the back of the print that will permit of the squegee slipping nicely along its surface without any fear of tearing, even when a fair amount of pressure is applied, the difficulty will be at once solved. I remember once when giving a demonstration to a photographic society how pleased a gentleman was to find what a little matter stood between him and success in his endeavors to put his prints on to glass by this means. Now the secret of fecal pools, and the important question to tenant or success lies in not only brushing the cold mountant owner arose where to locate the next receptacle for over the face of the print, but the back also. When human dejecta. This is certainly a deplorable system,

as the picture will do equally well), bind them together just like a lantern slide. When dry, a small ring or piece of ribbon may be attached to the backs to hang the picture by.-T. N. Armstrong, in Brit.

## Kev West and Yellow Fever.

In Surgeon-General Hamilton's abstract of sanitary reports. No. 11, March, 1890, there is a report by Dr. J. L. Posey upon the sanitary condition of Key West, Fla., from which we make the following extracts:

The city of Key West covers an area of 11% square longitude 81° 48′ 4″, 80 miles distant from the city of Havana and 230 miles from the port of Tampa, Fla. The entire island is a coral rock formation (oolitic limestone) rising at a slight elevation out of the waters of the Gulf of Mexico, constantly swept by strong and varying winds, and its atmosphere tempered by the Gulf Stream. The products of the soil are tropical in character, lofty cocoanut and date palms, cactus trees, wild fig, and Indian laurel and many handsome flowering shrubs thrive in the gardens; low brush thickets of buttonwood, acacia, and mango cover the uninhabited area. The climate of this island is delightful. If it is seen that at this stage the paste is of the right and is unexcelled, I think, in any section of the United of 70°, and 85° in summer. The surface of the island is generally level, with slight undulations north and 20,000 souls, comprising Anglo Saxons, Cubans (Spannegroes predominating. The manufacture of cigars and during the rainy season most of them are flooded, making it impossible for pedestrians to get about dry shod. On many of the streets there are no sidewalks seen from the street, is among the intelligent and better classes of Americans and Spanish creoles clean and well kept, and contrasts forcibly with the filthy vards and alley ways where the negro and Cuban population, employes of the cigar factories, are huddled together in small huts and shanties, and whose stolid apathy and utter indifference to even ordinary personal cleanliness and domestic hygiene and sanitation is apparent. In the majority of instances the garbage, refuse of kitchens, and a variety of offensive material, when not cast loose into the narrow streets or alleys, is heaped under their wretched hovels to undergo a slow process of moist decomposition. The yards of many of these dwellings after the heavy tropical rains are inundated, the contents of the shallow cesspools, mingling with the festering garbage, are floated abroad to be subjected to the rays of a tropical sun, which promptly distills an abundance of mephitic vapors, whose baneful influence is in part happily diminished by the constant disinfection of the winds from the sea that sweep over the isle.

> One of the main sources of atmospheric pollution, as well as of the soil (which, though rocky, is more or less here. These vaults are dug to a depth of 4 to 6 feet, 3 to 6 feet in length, and about 21/2 feet wide. I have ascertained that where the premises are small, the house occupying the greater portion of the lot, after the cesspool was filled it was covered over with sand and broken rock and a new one dug, and the practice repeated until many small yards were honeycombed with these

the course of these drains is well known to many old residents.

The history of yellow fever in Key West (being the most exposed point in the United States) dates from a very early period. The frequent occurrence of epidemics of this disease, the recurrence of isolated cases between epidemic periods, its recent reappearance in October, 1889, and during the month of January, 1890, point, in my opinion, to but one rational conclusionthat the disease has finally become endemic in Key West. What constitute the principal factors involved

in the production of this condition are matters of the miles of the island, which is 7 miles in length and 2 first consideration: First, the very unsanitary condimiles in breadth, and is between latitude 24° 32' 58" and tions of the city yield a favorable nidus for the propagation and preservation of the germs of this disease; second, certain classes only of the population furnish the pabulum which evinces the presence of the apparently inactive and latent poison of yellow fever. I believe that only a thorough and vigorous cleansing of the city will rid it of the strongholds of disease, which will otherwise increase in number, and during the summer season develop the epidemic state, unless the municipal government of Key West begins at an early date to rid their rich and growing city of this "pest of the tropics," which was originally introduced on their island by infected vessels and by their creole industrial classes, but which, owing to years of criminal apathy thickness, add one ounce of alcohol, and when the States of America, with an average winter temperature and sordid indifference to the simplest laws of sanitation, has become (finding a congenial nidus in the filthy inhabited areas) at last domesticated.

> The city of Key West is the only point in the United States that continues to harbor this "dreaded infection," and is coming to be noted as a great manufacturing center of the fragrant "conchas, principes, and regalias," and also the distributing focus of yellow fever fomites. A formidable rival of Havana in the manufacture of tobacco, she will soon enjoy the unenviable reputation, from the view of the sanitarian, of an equally active competition in the production of the "microbe." As long as her citizens are willing to live without the adoption and execution of such modern sanitary reforms as scientific sewerage, good drainage, abundant and pure water supply, cremation of garbage, well-graded and clean thoroughfares, public parks, improved domestic hygiene, so long will her sister cities on the mainland secure the dollars of the tourist, invalid, and capitalist. A system of sewerage, which seems entirely practical and efficient, is contemplated by the present municipal council, who were especially appointed to carry out the needed sanitary reforms, and the taxpayers should demand that the work be commenced and completed as soon as the funds voted for that purpose are obtained. The city has issued bonds to the amount of a half million, which is to be devoted to this general sanitary improvement.

> In concluding this report I cannot refrain from expressing as my conviction that yellow fever is a preventable disease, and that its intimate relation to foul and filthy conditions of soil in towns and cities is no longer a surmise, but a fact, and that this city has become temporarily an endemic center from such conditions, and will so remain until they are removed.

The people of the United States cannot permit the city of Key West to remain a center of infection of the "fiebre amarilla" or "fiebre perniciosa," the prevalence of which among the infantile population of the island city, and the strangers within their gates, excites no alarm or fear among the heterogeneous inhabiporous), is the privy vault system which is in vogue tants of this island. The State and national health authorities will, if this condition prevails much longer, be forced to adopt the same measures against Key West as are enforced against the infected ports of the island of Cuba.

> DECISIONS RELATING TO PATENTS. U. S. Circuit Court.-District of Minnesota. MCCORMICK HARVESTING MACHINE COMPANY 0. MINNEAPOLIS HARVESTER WORKS.

## Nelson, J.

the print is placed face down on the glass, take the and must be productive of foul atmospheric conditions An inventor who first conceives and gives expression brush and apply a good dose of mountant to the back in dwellings in a latitude where the thermometric to the idea of an invention in such clear and intelligialso. This done, the squegee will slide most beauti markings range from 60° to 90° Fahrenheit the entire ble manner that a person skilled in the business could fully, and no tearing of the prints results. year. The water supply for domestic purposes is obconstruct the thing is entitled to a patent, provided he uses reasonable diligence in perfecting it, as against For many years I have mounted all my prints in optained from underground reservoirs excavated in the tical contact in this manner, and have often smiled rock and cemented, which receive the washings from an inventor whose conception was of later date, but the roofs of dwellings during the prevalence of heavy when being told that I used hot gelatine for it. I find who was earlier to apply for a patent. my prints keep quite as well as those mounted with tropical showers of the spring and summer months. An inventor is entitled to a reasonable time, to be gelatine, and no one can tell the difference. If the face In the poorer classes of premises the privy vaults are judged of according to the circumstances of the case, of glasses and prints are free from grit or grease, there not many feet distant from these subterranean cisterns, in which to perfect his invention and reduce it to pracwill be no slug markings. I can confidently recomand during periods of drought and in badly cemented tice without impairing his claim to priority.

mend those who have a supply of old negatives or spoiled glasses to utilize them in this manner.

So much for placing the prints on the glasses. When dry, a neat appearance may be given to the pictures by binding round the edges of them a suitable colored paper. Most artists' colormen keep a supply of gold and other colored papers, and a few pence will acquire a sufficiency of such to bind a lot of pictures. Having made up your mind as to the color of the paper, cut even strips of same about one inch broad, and having provided some cardboards the same size as the pictures

reservoirs it is possible that by seepage from the ----"I NOTICE one thing," says an observant manufacclosets the water may become contaminated with organic matter. I am of opinion that during the dry turer, "and that is that hard wood logs, especially oak, that have been placed in the water immediately after season water obtained from these reservoirs bears some close relation to the production of types of continued cutting and allowed to thoroughly soak, make brighter fever (non-malarial in character), presenting some lumber, with less tendency to sap stain, than that from typhoidal symptoms. There are several large covered logs that are left on the ground for several months. I drains in different parts of the city, one on Simonton find, also, that in green logs, if sawed immediately after street, leading from the head of Eaton street to the cutting, and the lumber is thoroughly steamed prepasea, and another on Angela street, extending to a salt ratory to placing it in the dry kiln, the same results pond in the rear of quarters used by the sergeant in (will be obtained, greatly enhancing the value of the as a backing (or another spoiled glass the same size charge of Fort Taylor. The history of sickness along lumber for fine finishing purposes.