

for strength ; if not strong enough, strengthen, neutralize and boil ; cool in sun, filter, and all will be well.

If you have pin holes. Into a large bottle, put as much pure water as you have bath ; pour your bath into the water (not the water into the bath) shake *once* to mix and filter through a double filter ; boil till of right strength, and pin-holes will be gone for a long time again. Remember the order *the bath into the water*, and don't shake more than to mix bath and water before filtering. There is danger of the precipitate being re-dissolved.

If any of our readers want more light on the above, let them write us, and in our next we will tell what we know.

FORMULÆ IN AMERICAN STUDIOS.

NAPOLEON SARONY'S FORMULÆ.

From Mr. Napoleon Sarony's gallery, Mr. B. T. Richardson gives the following details :—

Cleaning Glass.—Soak the glass several hours in a strong solution of common washing soda, then wash thoroughly under a running stream of water with a clean sponge, and finally rinse with care, and place the glass in a rack to dry. Before using, clean with alcohol and cotton flannel.

Negative Silver Bath.—Forty grs. nitrate of silver to the oz. of water, iodized with iodide of silver, and slightly acidulated with nitric acid.

Remarks.—A bath that is well iodized with me gives better results, clearer and more definition than one neglected in this respect. When the bath wants renovating, boil it down to dryness, redissolve, and add iodide of potassium in proportion of 2 grs. for each oz. of nitrate of silver it contains. Also add a few drops of nitric acid, say 5 drops to the gallon of solution. By this management of my bath I always find it to work from the word "Go !" Never allow the bath to run down.—Be diligent, watchful, and extremely careful. When it calls for food, give it something to eat, and it will never go wrong.

Negative Collodion.—Ether and alcohol, equal parts ; iodide of ammonium, $4\frac{1}{2}$ grs. ; bromide of potassium, 2 grs. ; cotton, 5 to 7 grs. Iodize the ether and alcohol, then add the cotton.

Remarks—Wash the cotton thoroughly in liquid ammonia one part, water four parts, and let it dry before using it ; or,