

June 73

COMBINED TONING BATH.

PRINT SAME AS ALBUMEN.

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| Stock Solution : | A | Hyposulphite of Soda, | 8 oz. |
| | | Alum (Crystals), | 6 oz. |
| | | Sugar (granulated), | 2 oz. |
| | | Water, | 80 oz. |

Dissolve above in COLD WATER, and
 When dissolved add Borax 2 oz.
 Dissolved in hot water, 8 oz.

Let stand over night and decant clear liquid.

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| Stock Solution : | B | Pure Chloride of Gold, | 7½ grains* |
| | | Acetate of Lead (Sugar of Lead) | 64 grains |
| | | Water | 8 oz. |

Solution B should be shaken before using and not filtered.

TO TONE 15 CABINETS, TAKE

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| Stock Solution A, | 8 oz. |
| Stock Solution B, | 1 oz. |

Place prints without previous washing into the above.

Tone to desired color and immerse prints for 5 minutes in following Salt Solution to stop the toning:

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| Salt, | 1 oz. |
| Water, | 32 oz. |

After the salt bath give one change of cold water and fix for 10 minutes in the

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| EXTRA FIXING BATH: | Hyposulphite of Soda, | 1 oz. |
| | Sulphite of Soda (Crystals), | 60 grains |
| | Borax, | ¼ oz. |
| | Water, | 20 oz. |

WASH 1 hour in running cold water or in 16 changes of cold water, when prints may be mounted same as albumen prints.

DETAILS.

THE EXTRA FIXING BATH should be used to ensure *thorough fixing*.

THE COMBINED BATH MUST BE USED COLD, not above 50° Fahr. This condition can be obtained by placing a piece of ice in the bath when toning. If the bath is too warm it will give yellow prints with a greenish cast in the half tones.

USE A THERMOMETER and keep it in the toning bath all the time.

THE COMBINED BATH IS AN ACID SOLUTION. The borax neutralizes only the *excess* of acid in the alum. Any attempt to neutralize the bath will precipitate the alum.

The combined bath should not be used a second time.

CLEAN ALL TRAYS once a week with nitric or sulphuric acids and water to prevent white spots or blotches on the prints.

Prints allowed to stand over night in water are liable to turn yellow, they should be mounted as soon as washed.

*Or double the quantity of chloride of gold and sodium.

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