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PHOTOGRAPHIC EMULSION

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4 Claims. (Cl. 95—7)

One of the objects of the invention is to provide an improved photographic emulsion which is particularly sensitive to light colors.

Another object of the invention is to provide a gelatin emulsion which may be readily prepared and utilized in connection with photographic films.

The preferred method of carrying out the invention is as follows:

The gelatin preferably employed is from the young, yet mature, bovine type. It must be prepared so that it is free from impurities of whatever kind. The distilled water used for making the emulsion must be freshly distilled and kept free from direct sunlight, and in a cool place. The silver nitrate and halogens shall be selected as chemically pure products.

To the emulsion thus prepared from gelatin, distilled water, silver nitrate, and said halogen compounds, the following color chemicals are preferably added in the following proportions as indicated.

	Grain
Rubidium bromide, for red,	0.1
Chromous hydroxide, for yellow,	0.1
Thallium hydrate, for green,	0.1
Caesium bromide, for blue,	0.1
Chromous alum, for purple,	0.1

The photochemicals are weighed and dissolved in a small quantity of the distilled water and gelatin, and are added to the media, beginning preferably with the purple and stirring continuously, and each is added in succession from the purple to the red, and this is done in absolute darkness.

As an example of the emulsions usable, the above color chemicals may be added to an emulsion comprising,

Freshly distilled water	.034 oz.
Gelatin	1 gr.
Silver nitrate	0.4 gr.
Potassium bromide	0.2 gr.
Sodium bromide	0.2 gr.
Ammonium bromide	0.2 gr.

This amount is allowed per square inch of film surface exposed and the surplus accounts for evaporation and loss in material in handling.

What I claim as my invention and desire to secure by Letters Patent is:—

1. A photographic emulsion comprising gelatin, silver nitrate, a halide of rubidium, a halide of caesium, chromous hydroxide and thallium hydroxide.

2. A photographic emulsion which comprises gelatin, silver nitrate, rubidium bromide, chromous hydroxide, hydroxide of thallium, caesium bromide and chromous alum.

3. A photographic emulsion comprising gelatin, silver nitrate, a halide of rubidium, a halide of caesium, chromous hydroxide, thallium hydrate and chromous alum.

4. A photographic emulsion comprising the following ingredients in substantially the following proportions:

Distilled water	.034 oz.
Gelatin	1 gr.
Silver nitrate	0.4 gr.
Potassium bromide	0.2 gr.
Sodium bromide	0.2 gr.
Ammonium bromide	0.2 gr.
Rubidium bromide	0.1 gr.
Chromous hydroxide	0.1 gr.
Thallium hydrate	0.1 gr.
Caesium bromide	0.1 gr.
Chromous alum	0.1 gr.

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