

**A GREAT INVENTION.**

Story of How Film Was Invented Told Graphically.

In August, 1839, Louis Jacques Maud Daguerre announced to the world the photographic process, which in his honor, because known as "Daguerreotype"—the first practical process of its kind, and a most remarkable discovery. The daguerreotype, though expensive, became very popular in America, and the predecessors of Anseo Company were the first in this country to manufacture daguerreotype plates, which were of metal, coated with quicksilver.

The "Calotype" invented by Fox Talbot, an Englishman, soon supplanted the daguerreotype. This was also known as "Talbotype" and was the first process employing coated paper. Later came the collodion process so popularized the making of photographs that by 1858 amateur photography had become firmly established.

The inconvenience attending the use of wet plates stimulated the discovery and adaptation of collodion dry plates, later replaced by gelatine emulsion dry plates which, with improvements, are in use today.

A demand for a flexible support for the gelatine emulsion, which would supplant the cumbersome dry plate where occasion required, became insistent fairly early in the evolution of photography. The Societe Francaise, in 1880, offered a prize for a successful solution of this problem, but when the competition closed on December 31st of the same year, the prize remained unawarded and the task appeared unattainable.

It was not until 1887, when the Rev. Hannibal Goodwin, an enthusiastic amateur photographer, applied for a patent on the first camera film, that the dream of so many years was realized. Dr. Goodwin's patent, through the institution of interference proceedings was not issued until 1898, but upon this process all photographic films are made.

On August 14, 1913, after eleven years of litigation, in the United States District Court at Buffalo, N. Y., Judge Hazel handed down a decision finding the Eastman Kodak Company guilty of infringement of the patent of Hannibal Goodwin, owned by the Goodwin Film & Camera Co., whose sole trade agent is the Anseo Company, of Binghamton, N. Y. The patent is, under this decision, given a broad and controlling construction covering the universally used, modern photographic film in all forms, including cartridge film, film packs and cinematograph film. Thus it will be seen that the Anseo Company and its predecessors have been from the beginning of the development of photographic art in this country, intimately allied with its progress, being not only the pioneer makers of professional cameras and photographic supplies in America and the first manufacturers of dry plate and film hand cameras in the world, but the promoters of the first successful photographic film.

Behind Anseo Film, therefore, are years of experience of the highest order, and the assertion that Anseo Film is the original, genuine, and perfect film, is borne out by the decision of the Courts of the United States.

An outline of the processes employed in the manufacture of photographic film will no doubt be of service as well as interest to the reader. The film support is made out of cotton. Cotton fibre is introduced into a bath of sulphuric and nitric acids and undergoes the process known as "nitration," the product formed being nitrocellulose. The photographic cotton used in the Anseo method is the same kind that has been employed in the manufacture of Anthony's Collodion for more than fifty years. The nitrocellulose is dissolved in alcohol, amyl acetate and fusel oil, forming a syrupy liquid, which is generally known to the manufacturers as "film dope".

This solution is then cast on a polished surface in thin continuous bands after a process not unlike that of making paper from wood pulp, allowed to set so that when lifted from the polished surface it forms a tough, pliable and rollable skin of even thickness.

After adequate drying the film is coated with the gelatine silver emulsion on one side, and on the reverse with plain gelatine to make the film noncurling. This is a feature of the Goodwin patent.

The emulsion used to coat film is essentially the same as that used in the manufacture of dry plates. There are several methods in vogue, all of which are intended for definite and certain results. Film emulsion, as it will be used largely in instantaneous work, must be exceedingly

**FREE**

WHILE THE SUPPLY LASTS



**A "Panama" Corn Cob Pipe**

With New Amberine Bit

To Each Purchaser of a 10c Pouch of DIXIE QUEEN Plug Cut Tobacco

This "Panama" Corn Cob Pipe with genuine imported Weichsel stem and Amberine bit looks better, is made better and will last longer than the old-time corn cob. The cob bowl absorbs the nicotine; the Weichsel wood stem contains fragrant, aromatic oils which are released when the smoke enters the stem, and the Amberine bit is serviceable, durable and handsome.

Get one of these sweet-smoking "Panama" Corn Cob Pipes free (only one to a customer) with a 10c pouch of

**DIXIE QUEEN Plug Cut Tobacco**

DIXIE QUEEN is made of pure old Burley leaf, aged three to five years to bring out all its fragrant flavor and sweetness.

This aging process cannot be hurried—or DIXIE QUEEN would not be so mellow and smooth. We don't depend upon one season's crop, but have several stored away. That's why the quality of DIXIE QUEEN never varies—it always gives you big, juicy satisfaction.

DIXIE QUEEN is Plug Cut—just right for the slowest, coolest smoke or the longest lasting chew.

There's snap and taste to DIXIE QUEEN and a week's trial will make you a permanent user. DIXIE QUEEN is "all tobacco."

**FREE** Dealers have only a limited supply of Corn Cob Pipes and cannot obtain more; so avoid disappointment by looking for Free Offer Sign on a dealer's window today. Get a 10c pouch of Dixie Queen and also ask for the FREE Corn Cob Pipe.

THE AMERICAN TOBACCO COMPANY



**SPECIAL NOTICE---** Look for the Dealer who has the poster on his window. He has pipes **FREE WITH DIXIE QUEEN.**

rapid, hence from the time the light-sensitive silver salts are introduced the processes must take in non-actinic light or almost absolute darkness. This prevents showing any interior picture of the works.

Gelatine emulsions, so called because the silver salts are suspended in a solution, the principle constituent of which is gelatine, are extremely difficult to manufacture. Gelatine, in itself a very uncertain substance, must undergo special preparation and elaborate testing under standard conditions if uniformity is to be attained.

The silver salt upon which the recording of the photographic image depends is silver bromide. This is, therefore, the most important ingredient of the emulsion; but a simple gelatine emulsion employing silver bromide is incapable of producing the results which are the foundation of the success of Anseo film.

A film, to be successful must record accurately the gradations of light and shade in the subject photographed and render the image in

its true color values. "It's the film that makes the picture," is an assertion that cannot be gainsaid. It is essential, therefore, in selecting a photographic film that the purchaser should choose a brand that will give him the absolutely highest degree of faithfulness to nature in his pictures.

A. C. Rexroad is now ready to saw your wood into stove lengths. Phone 196-Y. 186-m23p

**New Shoe Shop**  
329 N. Jackson St., Opposite Electric Light Office.  
All kinds of repair work. Shoes Shined, Cleaned and Dyed.  
**W.H.Boyle W.W.Boyle**

**ONE RUB IN TIME SAVES NINE**  
Don't wait until your hair is gone, but keep all you have if possible. For a reliable preparation for keeping the scalp clean, healthy, and promoting hair growth, we recommend and guarantee  
**Meritol**  
FOR THE PUBLIC HEALTH  
**HAIR TONIC**  
Nothing adds more to the beauty of women than luxuriant hair. The regular use of this tonic is recommended for keeping the hair healthy. Keeps it clean and bright, and gives it that wavy appearance so much admired.  
**Johnson's Drug Store**  
Exclusive Meritol Agency.

Fresh roasted coffee at Marshall's  
We have just received a fine lot of English walnut grafted on black walnut roots. We are offering these at very reasonable prices. Roseburg Nursery Co. Phone 152.

The High School students will hold another entertainment Tuesday, March 5, for the benefit of the "Umbra." Everyone is invited. Admission 10c. Lane school building. 216-M-6

**Highest Percentage!**  
For Cleanliness by the State Food and Dairy Inspector  
**Roseburg Sanitary Market**  
Newhart Brothers, Proprietors.  
Meats, Lard, Poultry, Fish  
315 Cass Street  
We Give 25c Green Trading Stamps