

# RADIO MOVIES AN ACTUALITY

### So Says C. Francis Jenkins, Inventor; Process Yet Incomplete.

By FRANK SAVAGE.  
NEW YORK. (INS).—Moving pictures by radio are now an accomplished fact, according to C. Francis Jenkins, of the Radio Pictures corporation, of Washington, D. C.

Jenkins, who is a member of the Franklin Institute, the American Association for the Advancement of Science and other scientific bodies, in a letter to the writer declared that transmission of motion pictures is a daily occurrence now in his Washington laboratories.

Motion picture transmission, Jenkins wrote, has not been developed, of course, to the point of excellence achievable in "radio photos," but this degree of perfection is only a matter of time—and speed, he believes.

According to Jenkins' letter, which was accompanied by samples of pictures sent and received by radio, the nearest and most important development in radio picture transmission, in radio movies and the motion picture industry generally, is a new optical device called the "prismatic ring."

By means of this apparatus a pencil ray of light passes through rotating glass disks, whose graduated thicknesses "bend" the rays the same as in a prism, causing the rays to oscillate. These oscillating rays ultimately cover the whole of a negative, a picture, or an exterior scene, and in turn are impinged on a light-sensitive photo-electric cell. The modulated light waves in parallel adjacent lines are transmitted by electrical current into radio frequency of corresponding variation and the impulses broadcasted. They are received by a machine whose perfect synchronization is achieved by a tuning device employing a tuning fork much the same as that used for timing the automatic telegraphic printing machines, now widely used in dissemination of news dispatches by wire syndicates.

A "home" machine already has been built whose exterior resembles the popular cabinet phonograph, which is said to be capable of producing motion pictures by means of a patented multiple-disk comprising a series of consecutive scenes. This device also employs an application of the prismatic principle, although in this case the glass element is in the form of a band instead of a disk.

This, of course, is not for the reception of "radio pictures," but is said to afford a far more practical means of producing motion pictures at home than has been available hitherto. It dispenses entirely with the celluloid film and permits the projection of pictures of virtually the same "length" and duration as the regular reel.

Another variation of the same principle is a band of glass whose outside circumference is made up of alternating surfaces, set at an angle with the axis of the band. This is for use in high speed cameras and slow speed projectors, it is declared by the inventor.

Jenkins declares the prismatic ring to be the only important development, aside from refinement of details, made in the motion picture machine since its commercial inception. The present popular type of motion picture projector, he declares, is inherently limited by the principle which requires the film to be drawn before the lens in a series of intermittent jerks. The prismatic ring is said to eliminate this.

The ring may be growing weaker, but it will build up again. There isn't so much "oratory" to endure now.

# 'SONG BIRD' IS BEHIND BARS

### Irish Songster - Globe Trotter Incarcerated in Colorado State Penitentiary.

CANON CITY, Col. (INS).—The great grey walls of the Colorado state penitentiary today enclose W. C. Daniels, the "song bird" prisoner, who claims to be the son of a prominent Dublin publisher.

Daniels says his sister, Marie Daniels, is a Metropolitan grand opera singer, and that his mother, now deceased, was of the ancient peacocks.

He is 31 years old and a fine physical specimen. He has a rich, cultured baritone voice, with which he has made a comfortable living during his travels over the world. He speaks six languages fluently.

Daniels was sentenced from Denver recently to one year in the penitentiary for forgery. It is the first time in his varied career, he says, that he has run afoul of the law. The "singing prisoner" already has won popularity with fellow convicts and prison guards by his jovial disposition.

Daniels served with the Irish revolutionaries in the world war, later joining Uncle Sam's forces in France. He was honorably discharged from the United States army at Newport News, Va., in 1919.

"It's my first experience with the law," Daniels told prison officials. "and I'm ready to take my medicine. Misfortune is bound to come to every man some time in his life."

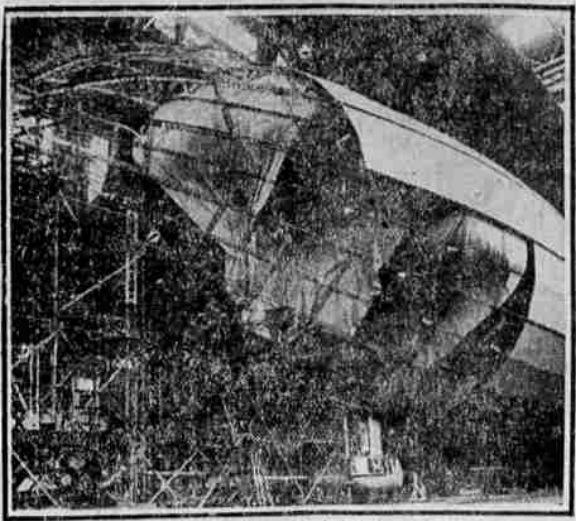
"I've been a wanderer on the face of the earth for nearly 20 years and am not surprised that I've finally run afoul of the law."

Daniels said he left his home in Dublin when he was 12 years old and has visited every city of consequence on the globe. His first adventure came when he hooked onto a tramp steamer out of Dublin and was cast adrift by the captain fifteen days later on the Canary Islands. Another sea trip took him to Crete, where he was marooned for four months, finally making the lower coast of Greece, where a British consul aided him in returning to London.

"I've held jobs in Petrograd and Athens," Daniels said; "been in Abyssinia, Persia, Egypt, China and Japan. One day in Seattle and a week later in New York—that the way life has run for me."

Daniels was held in the Denver county jail for several weeks before being sentenced to the penitentiary, and, according to reports from the city, officials there have promised to aid him when his prison term is completed.

## Rebuilding the Shenandoah



The giant U. S. dirigible Shenandoah is being rebuilt, following its disastrous flight when it broke from its mooring in a storm. Photo shows the extent of the repairs being made in Lakehurst, N. J.

## 'SHORT BIBLE' CHUNGKING NOT BACKED VICTORIOUS

### Opposition to Plan to Eliminate "Non-Essentials" of Scriptures Is Marked. City Walls Sealed by Inhabitants With Success—Old Time Romance Relived.

SPOKANE, Wash. (AP).—Opposition to any effort to compile a "shorter Bible" or to eliminate a non-essential part of the Scriptures is expressed in a statement made public by E. L. Edmiston of this city, president of the Bible Fellowship of Washington.

"There is no power in the organic government, federal or state, much less in any person, sect or committee, to in any manner divide, add to or take from the Holy Bible without impairment of the national foundation and sovereign rights," the statement declared.

The federal constitution, it asserts, forbids congress the power to enact religious laws, "and the complete Holy Bible is approved by the idea of each president on behalf of the sovereign and of each citizen when taking the oath in the constitution on behalf of the organic government."

"Every citizen and both the sovereign (union of citizens) and the government of our nation are most vitally and sacredly bound to use every power necessary to inculcate and replenish common knowledge of the Holy Bible revealed laws," the statement continues, "undivided and unimpaired to each sovereign citizen, born or made, free and distinct from clergy and personal profession, to end that the national Christian citizenship be protected and replenished in yielding allegiance first to the fundamental law of the Holy Bible and declaration of independence, second to the supreme organic law of the constitution and third to rules of personal sect, church and society."

"Therefore we hold that the Holy Bible cannot be divided, reduced or added to except by the clearly expressed will of the sovereign by means of the ballot, exercised as provided by the constitution, under the unchangeable declaration pledge and compact, all in harmony with Christ's command, 'That ye love one another.' Otherwise, the taking from or adding to the Holy Bible would tend to divide the national scope of Christian citizenship."

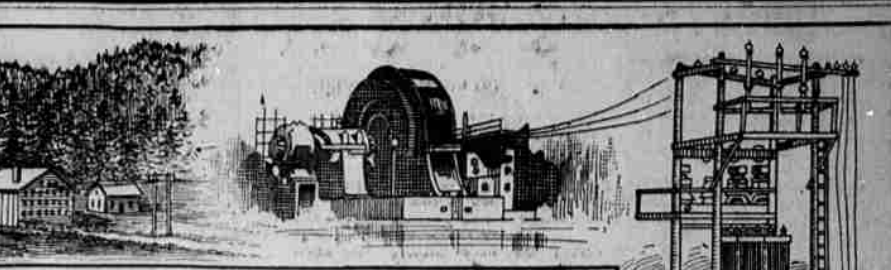
## SHANGHAI—(AP) — A siege wherein the inhabitants of a city were reduced almost to actual starvation and which ended with a frontal attack against the walls, revealing vividly the romances of the middle ages, has just been completed at Chungking, captured not long ago from General Yang Sen, one of Wu Pei-fu's henchmen. The attackers were Sheehwanese, some of them natives of the city itself.

Not more than 200 men participated in the attack, but such was their intensity that they effected a landing, under gunfire, from boats and scaled the walls without other covering fire than the minor rattle of two small pieces of artillery.

Your had held possession of the city for several months, though the line of communications on the Yangtze river had been cut and all supplies shut off, leaving conditions within the town were terrible. There was barely enough rice to keep life in the inhabitants' bodies. What there was had been hoarded. People without funds and even some who had money were near the point of death at the time of the attack.

Chungking is built on a hill and its walls proper are little more than platforms on which the defenders may stand and be sheltered by parapets. Six gates pierce the walls and it was against one of these, facing a stream which flows alongside the city, that the preliminary attack was made. When this had assumed considerable proportions, about 20 large catapults or junks, loaded with rocks, pushed off from the further side of the Yangtze, which flows along the other side of the city. As these approached, the shore the attackers massed in their bows and sprang for the land. Grenades dropped some but the others kept on and the defenders, being in large part occupied in stemming the attack on the gate on the other side of the city, scaled the wall and met the defenders hand to hand on its top.

Within two hours they had controlled the city.



THE basic industry of both Union and Baker counties is agriculture. In Baker county the agricultural income for 1923 was conservatively estimated at over \$3,000,000, and in Union county this figure was much more.

SUCH a diversity of farm products as is produced in these counties will hold the industry for all time to come as one of prime importance.

THINK of the variety of crops grown. Think of the varying climatic and soil conditions in the two counties—and the possibilities of the agricultural future unfold.

THE Eastern Oregon Light and Power company looks forward to a rapidly increasing development in this basic industry, as conditions adjust themselves, and as this company is prepared now to serve increased demand for Light and Power in centers of population, so also are we preparing for the increasing use of Light and Power in the agricultural districts.

EASTERN Oregon fruit—apples, prunes, cherries, plums, peaches, pears, and the small fruits and berries—are well known—a variety of grains are grown in large quantities—hay of several kinds, small crops such as potatoes, lettuce—are easily grown—the possibilities of agriculture in this section are far from limited.

LIGHT and Power enters into progressive agriculture in many ways. Our service will do much to stop the movement to cities—as it gives much to the home. It will solve labor problems in many cases and the applications of Electrical Power on the farm are quickly being made practical.

## Eastern Oregon Light & Power Company

Always at your Service

## JAP CROWN PRINCESS WRITES POETRY ABOUT THE 'NEW YEAR'S SUN'

TOKIO. (INS).—Following the marriage of the prince regent of Japan and the Princess Nagakiko last publication of the Princess' New Year's poem was authorized. The crown princess, following the imperial command for all Japanese to write poems on the subject "Shinun-kokoro-zashi-in" (Speak your heart in regard to New Year's), wrote as follows: "As thou risest among snow-laden trees, And shinest on silver-dusted roads, Inspire this shattered and troubled life To rise to thy beauty, O New Year's Sun!"

The princess was deeply affected by the ruin brought by earthquake and fire in her native city, and this is said to have been responsible for the words "this shattered and troubled life."

## PALESTINE ARISING!



All over the Holy Land, Jordan cities are smoldering up. The photo shows a Jewish settlement being completely a total ruin, and the smoke, plumes of dust, and many parts of Palestine also in the appearance of a military camp, due to the number of these temporary tent settlements.

## AUTO OWNERS GIVEN WARNING

### Dangers Lurking in Carbon Monoxide Is Explained for Car Drivers of Nation.

PITTSBURGH. (AP).—So many deaths from carbon monoxide, a gas present in the exhaust from automobiles, have occurred during the winter during the past few months that the Pittsburgh station, United States Bureau of Mines, has been prompted to call the attention of the public to its danger.

Seldom a day passes at this season but the death of one or more persons is recorded. Fatalities are particularly noticeable in the natural gas belt of Pennsylvania, Ohio and West Virginia, while deaths from the exhaust gas of automobiles are increasing. Carbon monoxide is given off in quantities by burning natural gas, while it is practically always present in exceedingly dangerous quantities in the exhaust from gasoline engines. Thousands of houses in the natural gas belt have no means for carrying off waste gases, which, in such cases, pass off into the room where the fire is burning. If all windows and doors are closed, as they may be in cold weather when gas is being consumed, the effect sooner or later becomes apparent on the occupants. They become dull and sleepy and, if not aroused, may pass into unconsciousness and eventually die.

The bureau recommends that when a gas heater without a flue is used, a window or door be partly open at all times; half an inch or so will answer. The bureau has found that the air in a room should be changed every hour; that is, the foul air should be completely displaced by fresh air during that period. But if there is a continuous fresh inflow, this will counteract the poisonous gas unless the individual is so close to the source of the waste gas as to breathe it before it is sufficiently diluted with fresh air. The bureau sounds a warning never to go to bed with a heater burning and the windows and doors closed; to do so would be " flirting with death."

The danger from waste automobile gases is no less real. If the engine has to be kept running in the garage, the garage must be ventilated. Drivers are warned never to crawl under a car when the engine is running, no matter how good the ventilation. And sitting

in an automobile, in a garage, with the engine in motion, is distinctly a dangerous thing to do.

Another hazard of exhaust gas is that of sitting in a tightly closed automobile on a highway or elsewhere, with the engine going. The car may be fitted with a leaky heater, through which the exhaust gets into and concentrates in the car, or the exhaust from the muffler, in some manner, gets in and accumulates in its confinement.

"If people must sit in an automobile," says the bureau, "they must have some fresh air entering the tonneau. Otherwise they are playing with death."

Four rules for protection against deadly effects of poisonous gas, carbon monoxide, always present in exhaust from gas driven engines, issued by the U. S. Bureau of Mines:

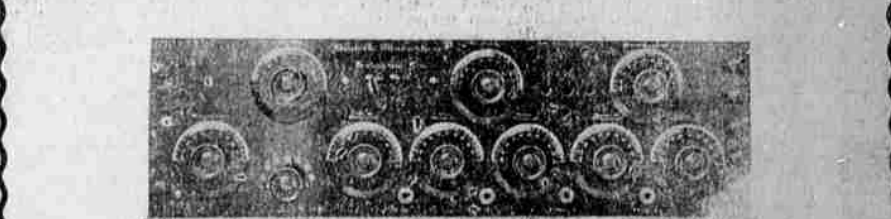
Never run automobile engine in closed garage; open doors wide.

Never crawl under car with engine running, even if car is in open air.

Never sit in closed car with engine running, even if in a ventilated garage.

Never sit in closed car with engine running and all windows shut, even if car is in open air; always have window open.

The old Pullman car fish-net hammock is being replaced in the new cars with a rack designed to occupy the same position above the berth as did the hammock. The rack will hold clothing flat and prevent wrinkling. It is made in skeleton form of one-inch green beeling and is fastened to either end of the berth by hooks. It folds back flat when not in use.



## A Heacock Radio Phone

Is Superior to Other Makes in All the Following Points:

- "Easier tuned" than any other—only one control, for tuning and one volume control.
- More selective than other makes. This is due to my system of selective wiring.
- Impossible to make any interference with it!
- BE CAREFUL WHEN YOU BUY A RADIO
- Don't let anyone sell you a set that interferes with your neighbor's reception, as that type of radio will soon be legislated against. All those whistles and squeaks that you hear when listening in on radio are made by regenerative type radio.
- "I DO NOT SELL REGENERATIVE RADIO SETS AS MY FIFTEEN YEARS OF RADIO EXPERIENCE TELLS ME TO KEEP THAT TYPE AWAY FROM THE PUBLIC, AS THEY CANNOT OPERATE THAT TYPE WITHOUT INTERFERING WITH OTHER RECEIVING SETS CLOSE BY."
- I sell all makes of radio that do not interfere, and if you buy one with a loud speaker, I will install it free.
- I sell the following makes of sets:
  - ATWATER-KENT, Radio Frequency
  - FEDERAL Radio Frequency
  - KILBOURNE & CLARK, Radio Frequency
  - NORTHWESTERN Radio Frequency
  - GREBE, Radio Frequency Only
  - MULLEN, Radio Frequency
- All the above sets, except the Atwater-Kent are higher priced than the HEACOCK RADIO.
- We have tested out the above line of radio and if you are in the market for any of them, give me the order, and I will install it complete in your home and in addition will give you a HEACOCK RADIO PHONE to test with it, thus giving you a chance to get the BEST MADE. If you want it, BE YOUR OWN JUDGE—I want you to know the difference between the ordinary radio, and the HEACOCK RADIO PHONE.
- RADIO COMPLETE, FROM \$69.00 to \$300.00

## Heacock's Radio Service

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**The Hotel Oregon**

BROADWAY AT STARK PORTLAND, ORE.

YOU ARE ASSURED A PERSONAL HOSPITALITY AND INDIVIDUAL ATTENTION through the combined efforts of a staff, who after years of training, understand the needs of the traveling public.

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