

SUN POWER FOR IRRIGATION PLANT

Powerful Solar Motor Built Near Cairo, Egypt.

AMERICAN THE INVENTOR.

Frank Shuman, a Distinguished Engineer, Now on the Way to Superintend Operation of His Invention. May Prove to Be Solution of Growing Fuel Problem.

Frank Shuman, a distinguished engineer who is now on his way to Egypt, is making a radical departure in the generation of natural power.

Mr. Shuman, who is widely known in engineering circles both in this country and abroad, is going to harness the sun to the Nile. He has already installed near Cairo a 100 horsepower sun plant for irrigation, and his present mission to Egypt is to complete the installation and begin operations almost immediately.

Four times only in the history of the human race has the generation of power been the subject of invention. First came the windmill, then the water wheel. The third departure and the greatest so far was the combustion of fuel. Now comes the use of the solar rays, which, if successful—and Mr. Shuman says that success is already assured—will be the most complete revolution of all, solving at once for the tropics the problem of fuel, which in the past has been so great a handicap to remunerative labor and which in the future, with the diminishing supplies of coal, must become a greater handicap still.

In an interview which he gave out on the eve of his departure for Egypt Mr. Shuman explained the character and purpose of his sun power plant. He said:

"By means of parabolic mirrors the heat of the sun is concentrated to five times its natural intensity.

Concentrating Sun's Heat. "This gives us a temperature of about 600 degrees Fahrenheit, and by means of this heat concentrated on boilers the steam is generated, which is used for driving a low pressure condensing engine. This engine in turn drives a large reciprocating pump capable of pumping 13,000 gallons a minute and thus of irrigating in this particular locality 1,000 acres of land.

"You can do the same thing, of course," Mr. Shuman went on to say, "by means of steam generated from coal. But coal in the tropics costs from \$10 to \$20 a ton. Sunlight does not cost anything. It is true that the cost for first construction of a sun power irrigation plant is double that of a first class plant using coal. Estimating the interest on the increased investment at 6 per cent, this places us in an equality with coal at \$2.50 a ton delivered at the site of the plant.

"The plant, moreover, is so constructed that with ordinary care it will last for many generations. It is composed entirely of re-enforced concrete, iron and glass. The glass and concrete will last indefinitely, and so will the ironwork, provided that it is painted every five years.

"You have therefore a permanent plant, the upkeep of which costs very little. The labor that is required to run a sun power plant is indeed a great deal less than that which is necessary for a coal plant. No stokers are needed, and there is no coal to be shoveled and no ashes to be removed.

Fuel Cost Former Handicap. "Hitherto the great handicap to cultivation of the soil in the tropics has been the high cost of fuel, making the irrigation of all great areas of land prohibitive. The sun power plant by working without fuel sweeps away this handicap completely, and as soon as its use becomes general, as it is certainly bound to do, it will make wide areas of deserts productive and will enable the tropics to support a vastly greater population than they are able to do at present.

"In this country in the summer and fall of 1911 a thirty-three horsepower sun plant was thoroughly tested with perfect success. In Cairo we hope to have the plant working by the first of next month.

"If its success there is established as use in tropical countries must become general, because no one need have to face any longer the difficult problem of fuel. In addition to the tropics, the sun power plant could also be used with immense advantage in the south of France, Spain and Italy and, in fact, in all countries where they have on an average 70 per cent of sunshine every day of the year." Mr. Shuman added that it will also be possible by means of electric storage batteries to store the power that is derived from the sun just as one can store any other power.

"Laziest Man" is Found. Edward Dunn, twenty-eight years old, a native of Armourdale, a suburb of Kansas City, Mo., was pronounced the laziest man in the world by a judge of the municipal court of Kansas City, Kan., and was sentenced to summer out a \$300 fine in the workhouse. Dunn, broad shouldered and physically fit, allowed himself to be supported by his mother, sixty years of age, a rancher.

COURT NOTES.

Plaintiff Failed to Appear.

The case of William Cromwell vs. E. E. Weed and Clarence Weed was called Thursday afternoon. The plaintiff in the case failed to appear but he was represented by his counsel, Chas. A. McCarty. The defendant was represented by Attorney M. E. Simons.

On account of the fact that William Cromwell failed to appear, the Court instructed the jury to return a verdict in favor of the defendant. The following jury was called in the case: W. H. Altier, Salem; E. W. Bush, Manchester; F. C. Dillmuth, Dyberry; W. H. Gaston, Damascus; George Goodman, Texas; Archibald Hines, Preston; M. H. Harlow, Salem; J. M. Lyons, Honesdale; Enos Marsh, Honesdale; W. J. Philo, Sterling; Frank Scudder, Lebanon; U. S. Stanton, Scott.

Defendant Fails to Appear.

In the case of John Derrick vs. C. A. Cortright & Son, appeal in assumpsit, the defendant failed to appear when the case was called. The defendant's counsel, Mumford & Mumford, also were absent and the Court instructed the jury to return a verdict in favor of the plaintiff for the sum of \$94.38 for some apples. The same jury as in the above case served.

Verdict in Favor of Defendant.

The jury who went out in the case of Reuel Wilcox against Winfred Mumford in an action of trespass at 2:10 o'clock Thursday afternoon, returned that afternoon after deliberating a little over two hours, and rendered a verdict in favor of the defendant. Wilcox had sued Mumford for damages amounting to about \$2,000 for injuries received to himself and team of horses in an accident that occurred on the State bridge on August 16, 1911. It appeared that the plaintiff took action against the wrong person as the evidence in the case brought out the fact that the automobile was not driven by Mumford but by another member of the party.

ENGINEER SCHROEDER IS AGAIN GIVEN FREEDOM.

William H. Schroeder, an engineer of the Delaware, Lackawanna and Western railroad, was acquitted last Thursday of a charge of manslaughter in connection with the wreck at Corning, July 4, when forty passengers were killed.

BETHANY.

Bethany, June 20.—The Methodist church was beautifully decorated with laurel and other flowers, palms and ferns for Children's Day last Sunday morning. The committee in charge among whom were Mrs. Judson Faatz, Mrs. Ira Bryant Marjorie Hauser, Ethel Hawker, and their friends were untiring in their efforts. The following pleasing programme was rendered. Organ prelude by Miss Starnes; march by the school; song, "Summer Days," by Rev. A. C. Oliver. Baptism of Ethel Mildred and Edna Alice Clemo, little daughters of Mr. and Mrs. Ezra Clemo; Beatrice Mildred, Wilma Eleanor and Clarisse Adella Blake, little daughters of Mr. and Mrs. Harry Blake and William Daniel, infant son of Mr. and Mrs. John Smith. Responsive reading by school and congregation. Recitation, "Welcome," by Robert Paynter. Exercise by Primary class, Dortha and Hilda Smith, Elizabeth and Tamar Pritchard, Charlotte, Beatrice and Wilma Blake; selection by the choir, Processional. Recitation, "God Made the Country," by Edith Amy; exercise by five boys, Clarion Hauser, Edwin Pritchard, Samuel Blake, Howard Conbeer and Carl Yerkes. Recitation by Stanley Smith. Selection by the choir, "His Name Forever." Exercise by three girls, Charlotte Blake, Ruth Yerkes and Hilda Smith. Song by three boys, "All the World a Garden," Edwin Pritchard, Clarion Hauser and Charles Faatz. Exercise by twelve boys and girls, "Queen June,"—Queen—Ella Blake, January, Charles Paynter, February, Edith Bartleson, March, Robert Blake, April, Doris Blake, May, Mabel Blake, June, Clarion Hauser.

How To Become a Member of The National Society of The Daughters of The American Revolution

HOW TO OBTAIN PROOFS.

Every effort is made by the Registrar General to verify the applications through the published records. If, however, the ancestor's service can not be proved in Washington, it will be necessary for the applicant to send a certified copy from the Pension, State, County or Town Records, or from the Record and Pension Office, War Department, Washington, D. C. The certificate will be returned to the applicant as soon as the ancestor's service is verified.

Old Commissions, certified copies or certified photographs of Commissions can verify an ancestor's service; so can old letters or certified copies of old letters proving service. Extracts from rare historical works that can not be found in the National Library, should always be attested.

Each applicant is urged to give name of the State, and if possible the county or town from which her ancestor entered the service.

Much information of value to applicants is to be found in the yearly report of this Society to the Smithsonian Institution; also in its official organ, the American Monthly Magazine.

Continental Army. If the ancestor was an officer in the Continental Army his name will probably be found in Heitman's Historical Register. A partial list of the officers and men in the Continental service can be found in Saffell's Revolutionary Record.

Pensioners. If the ancestor was a Pensioner and the original Pension Certificate is in the possession of the applicant, she may send a certified copy of such certificate. If she can not obtain the certificate she may verify her claim by writing to the U. S. Commissioner of Pensions, or to the Record and Pension Office, War Department, Washington, D. C. It is necessary that this application should be made by the descendant.

Maine. A list of the Revolutionary soldiers of Maine has been made and published by the Maine Sons of

the American Revolution. If the ancestor's name can not be found on this list, it may be found by the Bureau of Industrial and Labor Statistics, Augusta, Maine.

New Hampshire. A very fine list of Revolutionary War Rolls has been compiled by Isaac W. Hammond, president of the N. H. Antiquarian Society. There are also many valuable town histories. If the ancestor's name can not be found in these volumes, write to the Secretary of State, Concord, N. H.

Vermont. The Vermont Revolutionary War records on file in the Adjutant General's office have recently been published. Vermont Revolutionary Rolls—Goodrich. The first two volumes of the "Governor and Council" give some account of Revolutionary service. Some of the Town Histories contain rosters. If the service can not be proved, write to the Adjutant General, Montpelier.

Massachusetts. The record of the Massachusetts soldiers and sailors of the Revolution is being published alphabetically, and has now reached "TOZ." To verify any name from TOZ to Z, or any other soldier or sailor that can not be found in said record, write to the Secretary of State, Boston. The "Journals of the Provincial Congresses" are published and full of valuable information of the early patriots.

Rhode Island. Cowell's "Spirit of '76" and Field's "Revolutionary Defences of Rhode Island" give an account of services, though by no means complete. If these authorities are insufficient, write to the Secretary of State, Providence, or to the State Record Commissioner, Providence, R. I.

Connecticut. The roster published by the State of Connecticut is a very fine one. The "Public Records of the State of Connecticut" prove civil and military service, though it is sometimes necessary to write to the Adjutant General or to consult the Town Clerks or the Town Histories.

To be Continued.)

July, Helen Bennett, September, Charles Faatz, October, Stella Dudley, November, Marion Conbeer and December, Irene Yerkes. All joined in song, "June," solo part by Ella Blake. Address by the pastor, Rev. A. C. Oliver. Offering taken by Mabel Blake and Marion Conbeer and Clarion Hauser and Charles Faatz. Closing song by choir, "Make Jesus King." Benediction.

Helen Perham, of Pleasant Mount, spent Sunday with Mr. and Mrs. Harry Blake.

Mrs. Judson Noble joined her husband at Easton last week, leaving her little daughter, Ruth, at Fallsdale, with her grandmother, Mrs. Allen. Since going to Easton Mrs. Noble has met Ernest Smith, son of Rev. Smith of Leighton, former M. E. and Presbyterian minister here, who is attending Lafayette College.

The funeral of Mrs. James L. Monington took place from the Methodist church Monday at two o'clock. Services were held at the house previously and were in charge of Rev. A. C. Oliver and Rev. J. E. Pritchard. There was a large gathering of friends at the church. Rev. A. C. Oliver spoke very feelingly of the deceased as he had been her pastor at Galilee, her former home. A choir composed of Mrs. Judson Faatz, Mrs. Ira Bryant, Mrs. A. C. Oliver, Lee Paynter and Mr. Amy with Miss Manning as organist, sang "Abide With Me" and "Rock of Ages." There were many floral tributes. The pallbearers were: Mr. Amy, Mr. Many, Mr. Bates, Mr. Hoar, Mr. A. O. Blake and Mr. Ross. The three brothers of the deceased were in attendance as were also Mr. Monington's brothers from a distance.

Mrs. J. V. Starnes was summoned to Honesdale Saturday by the serious illness of her daughter, Mrs. Horace Noyes. Miss Cody, of Scranton, a trained nurse, who was visiting Mrs. Charles Webb, was engaged.

The late frosts doesn't seem to have hurt the Goff strawberries as they are as large and delicious as ever.

Miss Helen Manning expects to leave for New York this week to take charge of a case.

Mrs. Odelle, of Prompton, spent Monday with Rev. and Mrs. J. E. Pritchard and attended the funeral of Mrs. Monington. She remained over night at the home of Mr. and Mrs. John Ballou.

Horace Ross brought Rev. J. E. Pritchard over from Scranton last Tuesday by auto.

Mrs. Bennett Chapple returned to her home in New York Monday very much improved in health.

NEWFOUNDLAND.

Newfoundland, June 21.—Mrs. Job Moore and young son, Albert, who have spent some time with her parents, Mr. and Mrs. J. J. Heffley, have returned to her in Gouldsboro. Philip Eck left Monday on an extended visit with friends in Nazareth, Bethlehem, Wilkes-Barre and Scranton.

Walter Eck, of Scranton, spent Sunday with his father. He is spending several days with friends and relatives in this vicinity.

We are glad to learn that Mae Heffley is improving.

Mrs. Al Haag spent last Tuesday with Mrs. C. L. Burrus.

Emma Burrus is spending a few days with her grandparents, Mr. and Mrs. Levi Swarts of Moscow.

Mrs. Carrie Voeste called on Mrs. E. E. Bird and Mrs. Pelham on Sunday evening.

The Union Aid met last Wednesday at the home of Mrs. R. C. Pelham. They completed one large quilt and two smaller ones for a child's bed. Those present were: Mrs. A. Phillips, Miss Rose Angel, Mrs. W. Brundage and daughter, Mary, Miss Elsie Brown, Mrs. Geo. Bartleson, Mrs. G. B. Bartleson,

Mrs. J. Bird and niece, Eliza, Mrs. E. Bird and son Edward, Mrs. J. J. Heffley, Mrs. C. Voeste, Mrs. M. Searle, Mr. and Mrs. Stucker, Mrs. Harry Akers, Mrs. Al. Haag, Mrs. C. L. Burrus and daughter, Emma, Mrs. Charles Hazelton, Mrs. Louisa Hazelton, Mrs. Verna Hause, Ruth Keer, Mrs. Charles Gracer and daughter, Agnes, and Miss Ella Eck.

Mrs. Madge Searle has returned from New York to live with her son Morrell.

We are very sorry to learn that John Kerr is still on the sick list. C. L. Burrus spent Monday in Scranton.

Mrs. R. C. Pelham and children spent Wednesday with Mrs. A. Phillips.



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