



Windmills of the West.

How the Farmer in the Arid Region Utilizes Wind-Power to Irrigate His Land, and to Supply His Home With Water - Western Windmills Are the Quickest, Most Interesting and Most Useful in the World.

By Waldon Fawcett.

VARIOUS and many stories have been written about the picturesque windmills of Holland, but unfamished by song and story, and almost wholly unknown to the world at large, are the strange, wind-propelled machines of our Western States.

Yet the Western windmills are infinitely quaint and more interesting than any erected since the days of Don Quixote. They are among the greatest curiosities of the continent.

The chief use of these ingenious structures is to furnish an adequate supply of water to farms. More than one-third of the area of the States is, or was originally, arid land, and is habitable for man and beast only when subjected to the magical influence of irrigation—hence the windmills. The windmill in the Great Plains region of the West, is as distinctive a

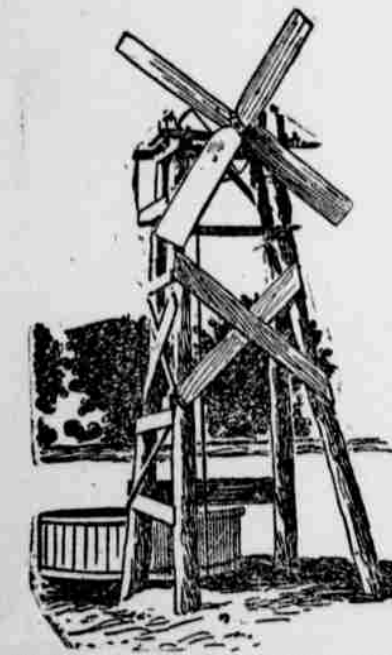
Cool water is allowed to play around the mill-cans, for it has been found that it will cause a greater percentage of cream to rise to the surface than would otherwise be the case—naturally a matter of considerable importance, as the butter products of this territory amount to many millions of dollars annually.

In many progressive towns and villages in the West the windmill has totally displaced the town pump, and wind-propelled machinery and large storage tanks now supply all the water required by the public.

In order to insure sufficient pressure to throw the water above the house-tops the tanks are placed on high ground or on high towers.

The newest use of the windmill, however, is the most important—its use in irrigation.

The home-made windmill is having an appreciable effect on population. There are many regions where good grazing may be found and where great herds of cattle may be fed free of cost, summer and winter alike. If the cattlemen and their families are to live here, however, they must have at least a fertile acre for their own uses—this the whirling mill now makes possible.



A SIMPLE TURBINE WINDMILL.

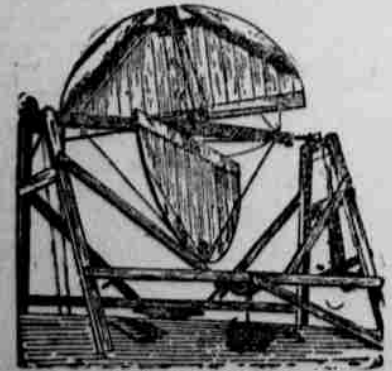
sign of progress as is the railway locomotive.

Throughout almost the entire territory between the Mississippi and the Pacific coast the supply of water is so scanty that it is impossible to store it in reservoirs, or to make elaborate waterworks.

A small amount of water is available almost everywhere—and it is due to the successful experiments of the United States Government in utilizing the ever-present force of the wind that windmills dot this region as thickly as farmhouses.

Government experts estimate that throughout at least one-fourth of the States windmills must ever be inseparably connected with the development of the country.

The windmill was popular in this Western country as a means to raise water for domestic use long before it was used to irrigate the land. Giant



A TWO-FAN WINDMILL.

windmills have enabled farmers on the plains to introduce town luxuries into their homes, hot and cold water baths, lawn sprinklers and systems of fire protection. The windmills feed a steady stream of cold water through the milk-house to the stock trough.

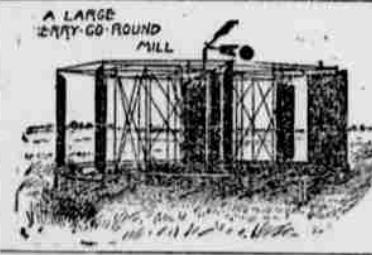


A GIANT TURBINE.

hand will serve the purpose—odds and ends of hardware, old wire, bolts, nails and poles—even neglected mowing machines, reapers, planters or old buggies and wagons.

There are "go-devil" or "jumbo" mills, "merry-go-rounds," and "turbines," each class represented by innumerable types.

Jumbo windmills are like paddle



A LARGE MERRY-GO-ROUND.

watermills. The larger kinds are placed on the ground—baby jumbos are put up on high towers. The cost averages about \$4, and some develop as much as two-horse power.

A boy in Nebraska built a baby jumbo which pumps ten gallons of water a minute, supplying the needs of a large boarding house.

The merry-go-round pattern mills may be made in any size, with unlimited power—may attain a diameter of twenty-four feet and pump an eight-inch stream of water. Their fans revolve about a vertical axis, and look not unlike the showman's merry-go-round.

The turbine class includes "bottle-axe" and "Holland mills." The distinguishing feature of the bottle-axe mill is a tower supporting a horizontal axis and crank, to which are attached arms with fan-like blades at their extremities. A fair-sized Holland mill will grind 300 bushels of grain in a day.

Among these Western windmills many are extremely primitive.

One ingenious farmer, for instance, boiled the axle of an old wagon, with hub and wheel intact, to the beams on the side of a barn, and nailed fans to the spokes, thus making a mill that served its purpose admirably.

But the commonest types are those with a set turbine and many fans—they are inseparable features of every landscape out West. In any town thirty or forty may be counted; in the country twenty or thirty mills are often in view at one time.

And still the development of the windmill goes on. In some places the energy generated is transmitted long distances, from field to field and over hills.

During the windy hours of the day the surplus energy of the wind is bottled—that is to say, the windmill compresses the air into stout iron cylinders, from which it may be drawn off when desired.

The windmill enthusiasts of the West are pointing to the fact that in many countries old and advanced in the arts the use of the windmill is unknown. Water is raised by hand, grain is ground by horse power, water power or hand machinery is driven in much the same way, while the wind, with all its potential energy, is neglected.

In this matter of windmills the progressive Western States lead the world. —Pearson's Magazine.

THE EMPEROR'S ROBE.

Recently Brought to San Francisco by a Returned Soldier.

One of the royal robes of the Emperor of China is in the possession of Lieutenant Charles Kilburn, of the Fourteenth Infantry, who is home on sick leave, says the San Francisco Examiner. The garment was brought from Peking, but its value was not



BELONGED TO KWANG SU.

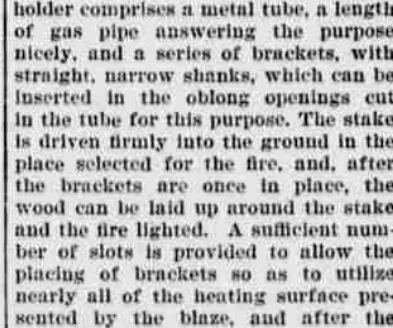
known until a few days ago, when it was examined by some Chinese scholars, who recognized prominently among the figures of the embroidery the five-toed dragon and the seal of Emperor Kwang Su. As no one but persons of royalty are permitted to adorn their garments with such figures of the dragon and only the Emperor can decorate his clothing with his seal, there is little doubt as to whom the garment belonged before the Boxers began their revolt.

The robe was given to Lieutenant Kilburn as he was leaving Peking by one of the soldiers of his regiment. With many other articles it had been saved by the troops from a burning building that had been fired by a band of Chinese, who during the excitement of the entrance of the allied forces into the city had raided, pillaged and burned many of the houses of the rich Chinese, who had fled at the approach of the soldiers.

The robe is magnificently embroidered. It is arranged with many pleats, and the figures are so designed that with the pleats opened or closed the design is continuous and complete.

Camp-Fire Utensil Holder.

It is so easy to tip over the coffee-pot or to spill the contents of the other cooking utensils when placed on the ordinary camp-fire that the utility of the device shown herewith will immediately become apparent, and, as it also has cheapness and small bulk to recommend it, there is little doubt that it will form a part of many a camping outfit the coming season.



COFFEE POT AND KETTLE SUPPORT.

The safe of the postoffice at Indian Head, Fayette county, in the store of H. L. Sparks Sons, was dynamited and money and stamps stolen.

Joseph Dawson, aged 69, a Civil war veteran, dropped dead at Connellyville, while marching with his companions to the cemetery.

The senate did not require much time to-day to pass finally the Focht and Emery bills, providing for the incorporation of companies to furnish rapid transit to the cities of the commonwealth. The bills were on third reading and final passage and were passed by the decisive vote of 32 to 6.

KEYSTONE STATE NEWS CONDENSED

PENSIONS GRANTED

Grand Commandery Knights Templar Elect Officers—State Treasurer Barnett's Monthly Report.

Pensions were granted last week as follows: William Bungalow, Stone-dale, \$12; Henry C. McCormick, Connellyville, \$6; Horace F. Willett, Johnstown, \$10; Andrew J. Strumpf, Big Run, \$12; Henry Jackson, West Fairview, \$8; Peter Mulhany, Towanda, \$12; Eli K. Peasly, Coryville, \$12; Christiana Adams, Buffalo Mills, \$8; Lydia Reedy, Cohenville, \$8; Catharine Free, Camp Hill, \$8; Susan J. Burgess, Mercersburg, \$12; John S. Cotton, Eldred, \$12; Alfred Shipley, Mansfield, \$10; Isabella C. Ralph, Homestead, \$8; Anna M. Sturtevant, Stevarts station, \$8; Sarah Hileman, Washington, \$8.

The Grand Commandery, Knights Templar has elected the following officers: R. E. grand commander, Thomas F. Penman, Scranton; V. E. deputy grand commander, Ezra S. Bartlett, Philadelphia; E. grand generalissimo, Charles M. Stock, Hanover; E. grand captain general, Wilson I. Fleming, Bellefonte; E. grand senior warden, William J. Diehl, Pittsburg; E. grand junior warden, William M. Donaldson, Harrisburg; E. grand preceptor, Thomas N. Boyle, Pittsburg; E. grand treasurer, John Jay Gilroy, Philadelphia; E. grand recorder, William W. Allen, Philadelphia.

The St. Clair Furnace Company, which affiliated with the Crucible Steel Company of America, purchased from H. C. Frick, for \$210,000, a tract of 35 acres at Blair station, Allegheny county. The furnaces will cost in the neighborhood of \$3,000,000. The stacks will be 100 feet high and 22 feet in diameter at the base. They are to be completed within 15 months.

State Treasurer Barnett's statement for May shows a balance in the general fund at the close of business of \$8,643,717.83. The state funds are distributed among 40 state depositories in amounts ranging from \$2,500,000 to \$10,000. The largest amount, \$3,919,846.84, is held by the Farmers and Mechanics' National bank of Philadelphia.

John Kerry, aged 61 years, a well-known resident of New Virginia, Mercer county, died as the result of having two teeth extracted. A dentist removed two of Kerry's molars about four weeks ago, at which time he was unable to stop the flow of blood. Physicians were summoned, but their efforts were of no avail.

While W. Nulf of near Challenge, Elk county, and his farm hand, a Swede named Berger, were planting corn, a bolt of lightning struck and instantly killed Berger and the horse attached to the planter and tore the snows off the feet of Nulf and burned the hair on one side of his head.

Eva Armstrong, alias Miller, an alleged shoplifter, who escaped from the Westmoreland county prison and was recaptured, was sentenced to the penitentiary for a term of three years and five months. A. H. Rodgers, a companion, was given the same sentence.

Historic old Long Run Presbyterian church near Irwin has been presented with a handsome Bible, one of the finest obtainable by J. M. Guffey, who attended the church in his youth. The Bible just came out of service has been in use since 1865.

Because he took offense at an order Enzeppi Colarossi, a laborer at the Pennsylvania clay works, near Freedom, shot Engineer John McCort below the heart this morning. McCort is in a critical condition. Colarossi is in jail.

Sarah Mock, the 2-year-old daughter of George Mock of Webster's Mills, fell with a shoe buttoner in her mouth which penetrated the roof of the mouth into the brain. Death followed in a short time.

Frank Cosgrove, a miner living near California, Washington county, while intoxicated attacked his wife because she would not give him money and she shot him, inflicting a probably fatal wound.

H. R. Kemble of Mt. Pleasant, convicted of bigamy and perjury, was fined \$500 and sent to the penitentiary for two years, and George Brown of Monessen got a seven-year sentence.

Twelve-year-old Charles Seley was caught by a rapidly revolving shaft at Peck's planing mill at Scranton and before the machinery could be stopped his body was practically torn to pieces.

The Sixty-third Pennsylvania Volunteers Regimental Association unveiled a handsome granite monument in Allegheny cemetery Decoration day to the memory of Gen. Alexander Hays.

During a thunder storm Gustave Anderson and Walter Nulf, who were driving between Dagus Mines and Brookwayville, were killed by lightning.

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More gallons of coffee are consumed in this country than other drink or stimulant, amounting in 1900 to 1,257,985,296 gallons, compared with 1,221,500,160 gallons of beer, the next most popular beverage. In 1900 we also consumed \$37,312,608 worth of tea and \$6,000,000 of cocoa, bringing the total for alcoholic and non-alcoholic drinks to \$1,228,674,925, an increase over 1890 of \$81,777,103.

Free Scholarships WILL BE GIVEN AWAY BY THE STAR, OF REYNOLDSVILLE, PA.



CENTRAL STATE NORMAL SCHOOL, LOCK HAVEN, PA.

FIRST PRIZE—One full year at Lock Haven State Normal, including tuition, boarding, &c. SECOND PRIZE—One term in King's School of Oratory, Pittsburg. THIRD PRIZE—A \$35 course in the International Correspondence Schools, of Scranton, Pa.

The young lady or gentleman getting the highest number of votes will be given one full year at the Lock Haven State Normal School free, including tuition, light, heat, furnished room and boarding. This is one of the best Normal schools in the State.

The contestant receiving second highest number of votes will be given one term—12 weeks—at King's School of Oratory, Pittsburg, where oratory, elocution, dramatic culture, literature, Shakespeare study, music, drawing, diction

tion paid. Any one sending or bringing in a new yearly cash subscriber will be given a coupon equal to 60 votes.

Persons desiring to enter the contest should begin as early as possible. As soon as the names are sent or handed in to THE STAR office they will be published, but the number of votes will not be published until June 19th, when the vote each contestant has at that time will be published opposite name, and from that to close of contest the vote will be published as counted and returned by the judges from week to week.

On Monday of each week (after June 19th) the ballot box will be opened and the coupons counted by judges.



Prof. Byron W. King.

book-keeping are taught. King's School of Oratory has gained quite a reputation as a first class school.

The person receiving the third highest number of votes will be given a \$35.00 course in the International Correspondence Schools, of Scranton, Pa. A complete commercial course, stenographic course, book keeping, complete teachers' course, coal mining, mechanical drawing, telegraphy and 60 other courses are taught by this school. The winner of this prize can take up a \$35.00 course or can have the \$35.00 applied as part pay on any course the winner may select.

The person getting the second highest number of votes can have their choice of the scholarship in Kings' School of Oratory or the International Correspondence Schools.

PREMIUM COUPONS—Persons paying their back subscription, or in advance one year or more, will be given a premium coupon which will entitle them to 36 votes for each dollar of subscrip-

THE STAR Scholarship Coupon. NAME ADDRESS

Write in the above lines the name and address of the person for whom you wish to vote and send or take the coupons to the secretary, J. P. Haskins, the music dealer, where they will be placed in the ballot box. Contest closes at 12 m., August 8th, 1901. All business communications and inquiries should be mailed to THE STAR office. Receipts and coupons will be promptly mailed from THE STAR office to patrons.

RULES OF CONTEST.

Contestants must register their names at THE STAR office.

All coupons must be sent to the secretary of the committee, J. P. Haskins.

All money collected for new subscribers or on subscription due must be sent to this office weekly.

Each contestant will be furnished with printed cards certifying that he or she is a contestant.

F. P. ALEXANDER, THOS. F. ADAM, L. J. MCENTIRE, J. P. HASKINS, Secretary.

Where Abraham Lincoln Fought.

A bill is now pending in the Illinois legislature appropriating \$5,000 for the erection of a monument to the victims of the battle of Stillman's Run, against the Black Hawk Indians, in 1832. The place is situated in Ogle county. The fight, if gauged by numbers killed, or even engaged, was insignificant, but if measured by the effect it had far-reaching influence upon the then future of Illinois.

The battle of Stillman's Run was the opening event in the Black Hawk war and was sealed with the lives of 11 white men. The whole State of Illinois was ablaze within a few days, and thousands volunteered for active service in crushing the Indians, whose presence continually terrorized the white settlers. It was here Abraham Lincoln received his first lessons in warfare. Before those volunteers disbanded the red man was driven across the Mississippi, and the country was thrown open for civilized peoples. All of northern Illinois and southern Wisconsin was profoundly affected by this movement.

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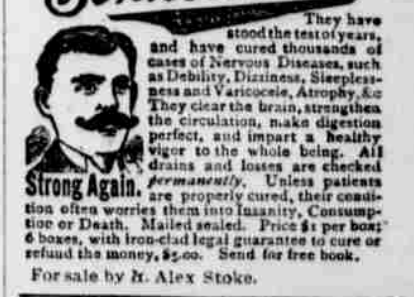
HORSE CLIPPING

Have just received a complete set of machine horse clippers of latest style "B" pattern and am prepared to do clipping in the best possible manner at reasonable rates.

The center slit in a pen is cut by a machine which seems almost to think. It consists of two chisels, which barely pass each other when the slit is made, and the exact way in which the chisels in the proper position for cutting is one of the marvels of pen making.

A law has been passed by the Kansas Legislature forbidding the requirement of study at home for children in certain grades.

WHEN IN DOUBT, TRY Sexine Pills



PATENTS

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