

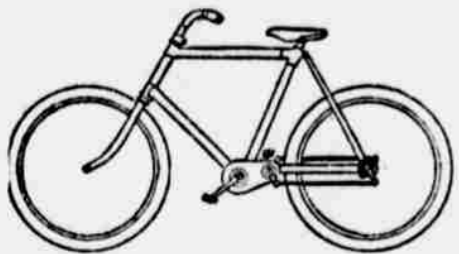
NOTES OF THE WHEEL.

MATTERS OF INTEREST TO DEVOTEES OF THE BICYCLE.

The Latest Novelty on Exhibition in New York City—It is a Wheel Driven by Piston Rods—Michael's Bold Def—What Tom Cooper Says.



CHAINLESS bicycle, the product of one of the largest manufacturing concerns in the West, of a style not yet exploited, and built to sell for \$100, was placed on view recently at a salesroom near the "Circle," Fifty-ninth street and Eighth avenue, New York.



THE PISTON BIKE.

taken from its stand and ridden on the Western Boulevard. Like the bevel-gear wheel it responded at once to foot pressure, and there was the comfortable feeling beneath one that not the least power was lost.

Michael's Bold Def.

Jimmy Michael makes the startling announcement that he stands ready to race against the combined abilities of any two American riders, either at 25 or 30 miles, for any amount up to \$5,000.

Brakes Coming Back.

Nearly all of the '98 models so far seen, says "Bicycling World," have either been equipped with a brake or a brake attachment provided for, and this fact is significant of the increased interest manifested in the use of brakes.

feet in the way of unsightliness or weight, as the new brakes are practically invisible and weigh almost nothing.

Sartorial Fitness. How slightly developed even yet is the average feminine rider's sense of the eternal fitness of sartorial things a wheel is amusingly illustrated by some of the costumes that can be seen almost any day.

The Latest Scheme.

A Western manufacturer has perfected a scheme which he calls a "winter bargain," says the "Wheel," and which promises to keep him busily employed during the winter months.

Simple Formula.

Any cycle rider in the least inquisitive about the number of miles per hour he is making can ascertain in a very simple manner by noting the number of revolutions the pedal cranks make in a given number of seconds.

Cooper's Excuse.

Tom Cooper has arrived home, in Detroit, for the winter. In an interview he said: "I am satisfied with my work during the year. I was not in first-class racing trim except for a few days during the season."



TOM COOPER.

soon, and then the public wants to look out for me." Cooper said that the yellow fever scare had much to do with breaking up the southern extension of the National circuit.

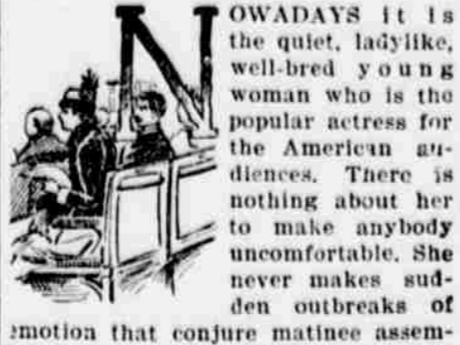
The Tri-Color.

A cloud had appeared in the sky of their connubial bliss, a cloud no bigger than a man's hand.

THEATRICAL TOPICS.

CURRENT NEWS AND GOSSIP OF THE STAGE.

The Popular Actress of Today Must of Necessity Be Quiet; Ladylike and Well-bred—Annie Russell, Viola Adams, Maude Adams, and Edie Shannon.



NOWADAYS it is the quiet, ladylike, well-bred young woman who is the popular actress for the American audiences. There is nothing about her to make anybody uncomfortable.

Julie Kopacsy.

Julie Kopacsy, the comic opera star, who made her debut at the Irving Place theater, New York, under the management of Heinrich Conried Nov. 4, in the title role of "Die Lachtaube," was born in Hungary, Austria, Feb. 13, 1871.

Eugene Wellington.

Eugene Wellington was born Nov. 27, 1858, at Springfield, Ill., and started his theatrical career in 1877 as a lithographer in Chicago, Ill.



JULIE KOPACSY.

her career was thus determined. Subsequently to her engagements in Hungarian cities she toured Austria and Germany. During her engagement at the Carl theater, Vienna, which was extended at the conclusion of her original fifteen nights to the entire season, she became widely known and admired.

A heretofore unknown opera, "Die Kreuzfahrer" (The Crusader), by Ludwig Spohr, which was composed in the beginning of the forties, that is, before the principles of Richard Wagner had been published broadcast, has recently been accidentally discovered in the archives of the court theater at Cassel and will soon be performed there.

The Elizabethan Society is continuing its meetings in London. Among the papers to be read this winter are "The Shakespearean Drama Abroad," by Sidney Lee; "The Scottish and English Macbeth," by Mrs. Charlotte Car-

michael Meyer, "The Seven Deadly Sins," by Frederick Rogers; "Elizabethan Household Life," by Miss Grace Latham; "Shakespeare as a Punster," by F. A. Bather, M. A., F. G. S.; "Shakespeare and Montaigne," by Frank Payne; "Noctes Elizabethanae," by William G. Hutchinson; "The Elizabethan Pamphleteers," by James Ernest Baker.

When E. J. Henley produces "The Raven," one of the accessories will be a coal-black bird of evil omen to perch above the "pallid life of Pallas." The bird is in active rehearsal and the stage hands have christened him Richard, says the Tribune, because he is the Boss Croaker.

Late comers are to be treated with scant courtesy hereafter at the Vienna Opera. By a new rule of the Intendant, no one is to be permitted to take his seat while the overture is being played, and in the case of Wagner's operas, where there is no break between the overture and the first act, late comers cannot get into their seats until after the first act is over.

Some remarks concerning the supposed duty of a "professing" Christian to avoid theaters and show actors, "except to lift them up," made from his pulpit in Indianapolis by the Rev. C. L. Hare, have induced that estimable and ambitious actor, Otis Skinner, to reply eloquently in defense of the stage, which does not now and never did need defending from such assaults.

M. Sardou is preparing "Pamela" for Mme. Rejane. This will not be the first time that Richardson's novel has been adapted to the French stage in one form or another. Two such pieces were produced in Paris about a century and a half ago, one by Boissy at the Theater Italien, the other by Lauchause at the Theater Francais.

Eugene Wellington was born Nov. 27, 1858, at Springfield, Ill., and started his theatrical career in 1877 as a lithographer in Chicago, Ill. In 1879 he made his debut as an actor, playing juvenile leads for Ada Gray, Dan Sully,



EUGENE WELLINGTON.

"Alone in London" and in other companies. In 1883 he gave up acting and began his career as a manager, and he has since then handled such well known stars as Chas. A. Gardner, Robert Fitzsimmons, Lester and Allen, Mark Murphy and Barney Fagan. He is at present managing the second years tour of Gilmore and Leonard, in their successful comedy, "Hogan's Alley." Mr. Wellington is an energetic business man as well as a genial com-



EUGENE WELLINGTON.

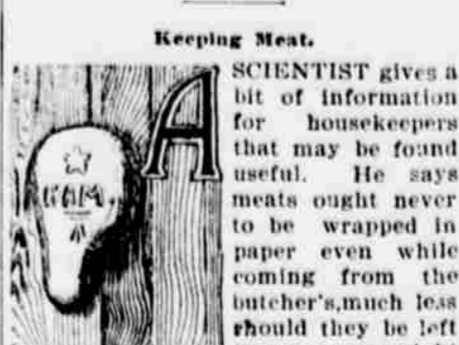
panion, and is well liked by the profession. "Jalousie," by MM. Bisson and Lecocq, ridicules the conception of marriage which is held by the regular middle class Frenchman, and attacks the present system of educating girls.

James O'Neill, who talked of a big revival of "The Dead Heart," still hangs to "Monte Cristo," which Bret Harte thinks is the best novel ever written.

SCIENTIFIC TOPICS.

CURRENT NOTES OF DISCOVERY AND INVENTION.

A Jersey City Man Has Invented a Pen That Never Gives Out—Beautiful Work in Bronze—Keeping Meat—Changes in Water Power.



SCIENTIST gives a bit of information for housekeepers that may be found useful. He says meats ought never to be wrapped in paper even while coming from the butcher's, much less should they be left in paper over night or when put away in the ice box.

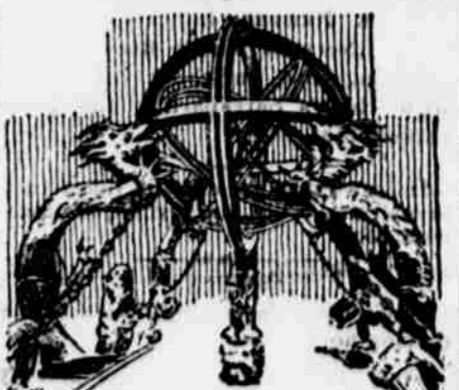
A new device for registering messages received over the telephone from any distance was shown in Berlin recently. It is an electrical writing machine called "teletypewriter," the invention of an Austrian engineer named Hoffman, and it has aroused a great deal of interest in electrical circles.

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Beautiful Work in Bronze.

This is a photograph of one of the most remarkable and beautiful things



on the Chinese wall. As long ago as the time of Marco Polo it is mentioned in literature. It is an astronomical instrument and is made with the most exquisite skill and care. It is a bronze globe about fifteen feet in diameter, cut and intersected marvelously, so that it seems a balanced group of circles.

Changes in Water Power.

In the early history of the country the natural fall of water furnished almost the only available power, except human muscle. Gradually water power was superseded by steam. It was a great day when the boiler furnished the motive power for turning the great wheels of the mill.

something so fugitive that it was not at all easy to get the handling of it. It appeared to be inadequate and uncontrollable, and there were many doubters as to its practical utility. The problem of handling it at long distances seemed insolvable, and the evolution progressed but slowly.

Machine to Record Thought.

Savory d'Odiardi, a Frenchman, living in England, is the inventor of a machine that, he claims, will record thought and emotion. The machine consists of a metal disk, lying flat, and marked off, on its edge, with degrees. Above it a needle, which looks something like a hatchet, is delicately suspended. The whole is under a glass bell. The experimenter wills the needle to move, and it moves—whether as a result of the will power, or from causes best known to M. Odiardi.

Writes with His Finger Nail.

It makes no difference to Walter Lowery of Jersey City that steel pens rust and gold pens break, that stubs blot and fine pens scratch. For Mr. Lowry proceeds on the principle that every man should be his own pen, so to speak.

Electricity Instead of Steam.

The Prussian railway minister, Herr von Thirlen, has decided next year to substitute electricity for steam on the railway between Berlin and Potsdam in order to test the adaptability of the electrical locomotive for general railway traffic. The engineers maintain that traffic conducted by electricity will be both cheaper and faster than the present system.

Internal Heat and Climate.

Lord Kelvin holds that the internal heat of the earth has nothing to do with the climates. The earth, he says, might be of the temperature of white hot iron two thousand feet below the surface, or at the freezing point fifty feet below, without at all affecting a climate.

Toads-Lore.

Many legends have been connected with these weird, unsightly little creatures, and their habits and manners are curiously interesting. The Thibetans, according to Abbe Huc, tell of a toad that dwells in the midst of a mountain range, and unless he is propitiated by travelers, flings ice and avalanches down on those who pass in the valleys.

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