east of their residence. A little after five o'clock last evening, the older boy was standing alone in the room, looking out of the west window, and he saw Henry approaching the house, but did

The door opens towards against which the gun was desk a against which the gun was learning, and his theory is that the door struck the desk, knocking it over and causing It to explode the cartridge. The charge entered the boy's face directly under the right eye, and came out under the the right eye, and came out uncer the left ear, tearing a terrible hole through his head. The jurors at the inquest were James T. Smith, Arthur Hess and John Hess. They returned a verdict of accidental death from a gun shot wound.

The funeral will be new room ward meeting house at 2 o'clock tomor-T. B. C. funeral will be held from the row afternoon.

## FROM MONDAY'S DAILY, DECEMBER 5

Randolph Round-Up: Henry Grant, the di-year-old son of J. Morgan Grant, had a sad misfortune to lose an eye last week. He was attending school when he was at-tacked with a severe pain in one of his eyes, which continued to grow worse. By the next morning the eye was badly swol-len, and Mr. Grant took his son to Evanston to seek medical aid, where he was advised to go on to the hospital at Salt Lake City. Later word came that surgeons had removed the eye in order to prevent the impairment or loss of the hight of the other eye. It is bad enough to lose the sight of one eye, but dark-nes to lose both, and it is earnestly hoped that his remaining eye may be unim-paired. It seems, that about a year ago, while at play. Henry was struck in this eye with a sharpened peg, and its loss is supposed to be the final result of the in-jury.

The functual services over the mortal remains of Mrs. Sarah M. G. Kimball were held in the Fifteenth ward meet-ing house yesterday, Sunday, forenoon, beginning at 10 o'clock, and were karge-by attended by friends of the deceased. Bishop Morgan presided and the ward choir artistically rendered a number of sympathetic musical selections. The opening prayer was offered by Elder Nephi Morris. The first speaker was Zina D. H. Young, who had been personally acquainted with Mrs. Kimball for a period of more than sity-three years, or almost the allotted existence of man. Mrs. Young referred to the beautiful and useful life of her departed friend, and related many incidents of interest effected while addressing the congrega-tion, and her auditors involuntarily shared her emotions. The funeral services over the mortal

Other speakers were Bishop R. F. Burton Elders Angus M. Cannon, He-her J. Grant and Bishop Morgan. Mrs. her I. Grant and Bishop Morgan. Mrs. M. I. Horne, that other well known advocate of woman's rights and pro-gress, was the last speaker. She also wished to pay tribute to the high standard of intelligence and sterling worth of Mrs. Kimball, whom she had known for many years. Benediction was pronounced by Elder John Henry Smith Smith.

The chief mourners were the three sons of the deceased, Hiram. Oliver and Frank. with their families, and her daughter Elizabeth. All were accorded the sincerest sympathty of their many Frank, with their daughter Elizabeth. friends. Floral offerings of beautiful design and artistic creation were in profusive evidence. Interment was in the city cemetery.

## SCIENTIFIC MISCELLANY.

It is not to the calendar that we should go to find out the exact date of autumn's beginning, says Rev. Theo-dore Wood, the English naturalist, but to the birds and the spiders, who indi-cate the varying time with infallible precision. His own pet winter prophet, nowaver, is the caterpillar of the Goat Moth-s Rugs, evil-smelling pressure of

reddish-brown hue, with a broad choco-late strtipe running down its back. For three long years these odorous creatures inhabit the trunks of willow trees, bor-ing their way backward and forward through the solid wood, and making a light but sufficient meal on the wood which they cut away. During that which they cut away. During that period they increase some 72,000 times in bodily weight—a rate of increase which would convert the 10-pound hu-man baby into a monster of about 3214/2 tons. And then, always in the first week in autumn, they leave the tree forever, and wander forth on the palings in search of 'a secluded nook wherein to turn to chrysalids.

Probably the most compact heat engine ever attempted is that driven by carbon dioxide. A horizontal motor of this kind exhibited by Mr. W. F. Rob-erts to the Franklin Institute had a bedplate 24 by 14 inches in size, and a total weight of only 85 pounds. Yet it was weight of only 85 pounds. Ye claimed that the engine could claimed that the engine could develop 25 horse power, running at 2,000 revolu-tions per minute under a pressure of 1500 revolutions 1,500 pounds per square inch. The car-bon dioxide was contained in liquified form in steel cylinders, and was heated on its way to the engine in a small coil of copper pipe,

The later researches of Surgeon Ross, of the British army, have not only proved that malaria can be acquired from a mosquito bite, but that the ma-laria parasite is mostly one of insects and only an occasional visitor to Man. Particular species of malaria parasites even demand particular species of mos-outtoes-a fact at least partly explainquitoes—a fact at least partly explain-ing apparent vagarles in the distribu-tion of varieties of malaria. When all is known, Europeans may be able to live in climatés now made deadly by this pest. .

The new primary battery of O'Keen-an, claimed to be a cheaper source of electric energy than any other primary battery yet devised, has a negative pole of zinc, and a positive plate of spongy lead, like the negative of a lead accum-ulator. The lead plates are prepared for use by oxidizing in the air and charging with suppate of lead in dilute sulphuric acid. The necessary acid for electrolytic action is contained in the positive plate in the form of inert sul-phate of lead, and in a fluid of water containing a little sulphate of zinc containing a little sulphate of zinc there is no action on open circuit, the sulphate of lead being reduced to metallic lead and the zinc dissolved when the circuit is closed. The posi-tive plates are recharged by exposing to the air and then sulphating in the acid. The retaining cells are rectangu-lar boxes of tinned iron, and these are protected from corrosion by connecting the zinc plates to them. The battery resembles the Daniell cell in constancy. resembles the Daniell cell in constancy

The pure water distributed to the in-habitants of Blankenberge is that of the Bruges canal after filtering through beds of sand and then subjecting its sterillzers to an electric current at a pressure of 1,000 volts. All traces of microbes are destroyed. The electrical plant has a capacity of about 55 horse power, and about 35,000 cubic feet of water per day are treated a summer and 10,000 in winter.

Britain and Ireland, 4 per cent. The need of Cape Colony is emphasized by the heavy importation of wood, and the conservator of forests urges that tree conservator of forests urges that tree plantations be formed wherever the annual rainfall exceeds 15 inches . - 64

French violin makers report that aluminum, when used for stringed inthan wood, especially with the higher notes, and the experiments with the new material have been entirely successful.

One of the products of the new chem-istry opened up by the electric fur-nace is pure metallic calcium: M. Hen-ri Moissan finds that on gently heating this in an atmosphere of nitrogen, the two combine, the reaction becoming so violent at a dark red heat that the whole mass is raised to incandescent. The resulting nitride of calcium is an-other remarkable new substance. It seems to contain two atoms of nitrogen to three of calcium, its specific gravity is 2.63, and it melts at about 2,500 deg. F. A surface coating of it is found to F. A surface conting of it is found to give the yellow color, usually des-cribed as belonging to the metallic calcium, the pure metal being quite white. The most remarkable property of the nitrade is its reaction with water, which results in the production of amonia, in exactly the same man-ner that acetylene is formed from calcium earhide. This reaction, M. Mois-san belleves, may become industrially important when the isolation of metal-lic calcium in the electric furnace is sufficiently cheapened.

A problem for scientific men and me-chanics has been raised by a British committee on dangerous trades. The use of beds of lead by file cutters is a frequent cause of lead-poisoning, and not less than seventy-four cases have been reported in one district during the last three years. A substitute for lead as a rest for the files in hand-cutting is what is wanted. Paper has been used in Germany for light work; clay and find sand enclosed in canvass,wood, copper, vulcanite and various com-pounds of rubber and gutta percha have been tried and discarded; and zinc and pewter are too hard.

A curious experience is related by a physician of Mendon, France. To ex-amine the throat of one of his children, he held a lighted candle before its open mouth and placed the handle of a spoon on the base of the tongue, when there was a sudden flash of blue fame from the throat, and the doctor's slightly hurned. It is explained that the spoon probably produced a slight retching, which brought a little inflammahle gas from the stomach.

Osmium threads for incandescent electric lamps, giving a very brilliant light. have been pattented in Germany. The threads are hollow, the oslum be-ing coated on a thin copper wire, which is evaporated at a hight emperature.

water per day are treated a summer and 10,000 in winter. Gelaboid, a mixture of gelatine with formaldehyde, is being used for un-breakable goggles to protect the eyes of workmen exposed to flying particles of stone, metal or wood. Cape Colony is almost treelees, its forests covering only 353,280 acres, or a little more than a quarter of ome per cent of the total area of the country, Russia and Sweden each have 42 per cent; France, 16 per cent; and Greet