sver, Signor Govi has incarried in a theque Nationale a printed docume proves the antiquity of binecular g be a little more remote. This does placard by one Chorez of Paris, and the "admirable lunettes" it deser which are represented by acco-figures, were invented by Chorez a cated to the king in 1625.

At the Glasgow exhibition of illuminating apparatus there was a complete portable device for supplying four large flectric lights of 24,000-candle power, and able to hight up perfectly a hall 400 feet long by 150 feet wide. It consists of a 6-horse power portable steam engine, having in front a carriage) to which four Gramme dynamo-electric machines are rigidly attached. The Gramme machines are driven by four belts. Two of the belts are on each fly-wheel of the engine, and as one of the belts has been arranged to work outside of the other, the fly-wheels are not of unusual width. As the jurces of this late exhibition are Sir William Themson. By Bottomley, Dr. Wallace, Mr. St. John meant Day, and Mr. Mortimer Evans, their tent is looked for with much interest. The stems of electric light on exhibition were Mackenzie or Strode, the Loutin, the impton, and the Brush.

Dr. Schal, the Engineering reports, has established the useful fact that wood impregnated with paraffine is preserved from rot, especially when employed in alizarine manufactures, where it is exposed to the decaying action of damps, acids, and alkaline lyes. Wooden wessels, which become totally natten in two months, last for two years when impregnated with paraffine. The preparation of the wood is effected by drying it in warm air for three weeks, then steeping it in malted paraffine to which has been added some petroleum or ether. In preparing this bath much care is necessary, as its liability to take fire is very great. To prevent the paraffine from escaping from the pores the wood should be coated with oil varnish or soluble glass, washed after drying with diluted hydrochloric acid. The silicic acid thus formed clogs up the pores from the outside and protects the

Mr. Robert Ward, writing in the current number of the Journal of Science, considers that the assumption is a fallacy that all but the crust of the barth is a mass of liquid fire. One of the results of the Challenger and other explorations of deep ocean, he says, is to determine that the water toward its bottom is freezing cold. Considering that the ocean covers nearly three-fourths of the entire globe, this fact does not support the theory of central heat accompanied by radia-Cape o theory of central neat accompanied by ramation. The coldest-water, it is true, unally
sinks by its greater weight towards the bottom, and that, it may be said, accounts for
its coldness; but on the sheary of radiation
the water of the ocean has been for long
geological ages supported upon the thin crust
of the earth through which the central heat
has been constantly escaping, and yet it is
still of freezing coldness. Experience would
say that the heat cannot have escaped
through the water without warming it, because the capacity of water for heat is greater
than that of any other substance. Wa can
mo more, he concludes, imagine such a radiation and consequent accumulation of heat in
the ocean without the natural result of a
greatrize in symposture than we can believe
in a kettle resting for hours on a but fire
without the usual result of boiling water?

The Nature calls attention to a remarkable ther and

in a kettle resting for hours on a huttire without the usual result of boiling water?

The Nature calls attention to a remarkable fact in human development in the following mote:—"Prof. Boyd Dawkins has lately shown in his "Early Man in Britain" that "although the accilithic men were immeasurably above the cave men in culture, they were far below them in the arts of deagn ; and, further, that the cave man possessed a singular talent for representing the animals he hanted, and his sketches reveal to us that he had a capacity for seeing the beauty and grace of natural form not much inferior to that which is the result of long civilization in ourselves, and very much higher than that of his successors in Europe in the nealishio age." That this faculty of design or artistic aptitude is still independent of advanced or advancing civilization is shown by Dr. Holub in a paper on the "Central South African Tribes, just published in the Journal of the Anthropological Institute. Dr. Holub remarks, in connection with the Bushmen, that these people, "regarded as the lowest types of Africans, in one thing excel all the other South African tribes whose acquaintance I have made between the south coast and ID south latitude. I have in my possession about 200 sketches on wood and stone and costrich shells by various tribes, but every one who knows anything about drawing must acknowledge that those which were done by Bushmen are superior to any of the others."

Inquiries made by the Department of the interior arganing the advance of the interior. of brase to any

knowledge that those which were done by Bushmen are superior to say of the others."

Inquiries made by the Department of the Interior regarding the addesion of the inhabitants of China in foreign knowledge have brought to light that, with very lew exceptions, nothing is done by the Chinese Government either to found or sustain schools in which foreign knowledge is taught. Nor has anything worth speaking of been accomplished by private enterprise, except that of missionaries. Attempts have been repeatedly made to establish English schools for natives in various parts of the gountry, but they have always failed, owing, perhaps, to the incorporate from the beginning of their work, have had schools of various kinds, of course always religious; yet secular knowledge has been taught inshem to some extent. Missionaries in China have not, as a general thing, encouraged their pupils to isare English, but have tried to teach them history, geography, astronomy, thysiology, etc. The number thus instructed has never been very large, owing to the great difficulty under which these instructions are given, but at least a beginning has been made in the work of a higher and better education among this people. The omission of linglish from these stanties is due to the experience of the missionaries, that the majority of the scholars came to their schools with no other object in view than to get a unflicient knowledge of the language to enable them to get some lucustive employment with foreigners, and, as soon as they had acquired a little mattering of it, they disappeared and passed away beyond Christian instruction.

A Message From the Sea. THE MALL is admittedly one of the most enterprising and best conducted newspapers in Canada. It is supplied with the intest news by its numerous correspondents; on its aditorial staff are writers of great ability.—The Bay Pilot, St. Andrews, N. B.

"They cured me of Ague, Billousness, Kidney Complaint, as recommended. I a half bottle left, which I used for my little girls, whom the doctors and neighbo and could not be cured. I am could I should have lost both of them one night I had not had the Hop Bitters in my little girls, and they did them so much I I continued with these, and they are well. That is why I say you do not be half the value of Hop Bitters, and do not commend them highly untugh."—B., Hop the N. W. in 1879

CHIT-CHAT. Vinnie Ream has chiselled herself a fortune

Mrs. Abraham Lincoln getz a Federal pen-tion of \$3,000 a year.

A woman died of fright at Janesville, Wis, upon seeing her child in danger of being run over by a railroad train.

One high-toned dressmaker in New York will not take an order for a dress the making of which costs less than \$100.

The Italian emigrants landed in the Emited States during this year number 12,327, off whom 8,566 were men and 3,761 women.

The experiment of keeping a detail of clicemen in readiness to answer urgent calls made through the telephone is being made in Chicago.

The leader of one of the chases at Vassar College is a Japanese girl. She is from the clife of Japanese society, and is both stylish and popular.

The judiciary of Indiana are taking some pains to correct the mistaken idea that, under the present laws, divorces are easily obtained in that State.

turned out upon a dec not hold the office.

Chancery for Union Country, III., has been turned out spon a desision that a wonten constructed to the bank, but could not get the mistake partills at Bramita; and the extensive grounds attached to it, to a Spanish building company for \$,000,000 frames.

Some of the Chocker gints in "the Nation," as Indian forcitory is celled, ere highly educated, very beautiful, and accept as fair in complexion as their sisters in the States.

A St. Louis bey sport a delier of the money that he had collected for his dather, who whipped him for the offence. The groungster went directly to the river and drowned himself.

In a cave man Silver Cliff, Cod., two harr of gold, worth \$900, were found. Two ham all sixty of gold, worth \$900, were found. Two ham all sixty possed days are the remains of vary sarly miners.

Old court contames for laties are to be inshingable in Paris, and, mays a French writer, when Sara Serohaerit returns the winding sheet style well have quite disappeared.

A, Nevada wildower took his four sisters-islaw to Salt Lake and married thum all. The oldest is 30 and the youngest \$6, and they profess the most ardout down the most article than all. The clots is 30 and the youngest \$6, and they profess the most ardout down the his four sisters-islaw to Salt Lake and married thum all. The oldest is 30 and the youngest \$6, and they work the most ardout down the history interesting the whole one of the fact of the work and married thum all. The oldest is 30 and the youngest \$6, and they work the most ardout down the cognized was a turned of years and of years are subjected by his relatives at Honeadale, Ta, until he was a hundred years old; and then, deeming his long-till prove with a poor boy, anytheny exhaustill prove with a poor boy, and yellow and made a forture. He declared the swillows. The anxy day these happy hipped whold all fair to the summy south. People have been reminded at the last of the forture when the province of the gold with the whole and made a forture. He declared that he would not be compared to

to her paragraphs from divers newspapers. She dines at 6, and then dons her riving habit and goes to the large nices, which is connected by a covered passage with her private apartments. Here she mounts some mettlesome herse and trains him with wonderful skill and boldness. When some animal unusually wild and spirited is to be conquered a few appreciative guests are invited to come and look on at the daring Empress' proceedings.

LITERATURE AND ART.

Lard Hastings has just bought a ample of farbous from Viscount Ayles £1,200.

The celebrated collection of Indian portraits and curiosities made by that curiosity of a man, George Catlin, was bought by Joseph Harrison, jr., of Philadelphia, in Brassels, His widow now offers it to the Government, in accordance with her husband's request. The Smithsonian is said to have accepted it.

An early production of Washington Alliston, which has evidently been naknown to American writers on art in general, and to briggaphers of that artist, is to be met with in the New Royal Pinakothek at Munich, a building designed by King Levis I. to revise the New Royal Finakothek at Munich, a building designed by King Lewis I. to receive the works of the new school of painting. The picture referred to has the title of "View of Glardino-di Malta at Rome."

Cincinnati is cutablishing her Weman's Art

completed by next time. It is expected to materially benefit the summer hotels.

The cars on the Mount Vesuvius railway, about which so much has been said and written, are now lighted by electricity. Every European tourist now makes its point to have a ride on this remarkable railroad.

The Cincinnati Southern uniform their track walkers, who are under a commendable system of discipline, and who have a mode of signals by which they can communicate with each other all along the ine.

MUSIC AND THE DRAMA. the professors of singing at the projected Royal College of Music, London.

An American critic suggests that Miss Famy Davesport's new play in four acts and forty costames be re-chustened "The Dressmaker's Dream."

A new suite by Gade, "A Summer Day is the Fields," in five parts, was produced with success at the Leipsic Gewandhaus concert of Oct. 28,

Nor wants that Litth here below,

Nor wants that Litth long.

Miss Emma Thursby scored a point recently at Baden-Baden. She happened to appear at a concert at which the Emperor and Empress, the Crown Prince and Princess of Germany, and a few dozen other emperors kings, and grand-dukes were present, and, with the intrepidity of her race, she sang. The Starspangled Banner. The Kaiser listened to the strains of the, to him, unaccustomed meiody, and the aged man wept. He warmly embraced Mr. Maurica Strakosch, whom in his emotion he mistook for the fair prima donna, and he swore by Saint Augusta that henceforward his meat should be pop-corn, clams, and dough-nuts.

The American Journal of Otology calls attention to the fact that, while C is used as the starting point in tuning pinnes and organs, A is used in tuning orchesteral instruments; therefore, if played together, they can never be in perfect tune. In France and Germany

night gave a social to the children. Net re-

The Vicar of Whitfield recently presided over a Neuconformist meeting at Glossop, England, and said that he believed the time was coming when the Christian Churches must agree as far as they could on the points which were essential, and try to differ as little as possible upon points which were non-seential.

The lecturers chosen to fill the Boston Monday lectureship (Joseph Cook's) are Dr. Mark Hopkins and the Rev. S. W. Dike, Congregationalists; Dr. G. R. Crooks and Thomas Guard, Mothedists; Drs. E. G. Robinson and J. B. Thomas, Raphiest; Rishop Clark and Dr. John Cotton Smith, Episcopalians; Drs. F. L. Patten and Howard Crosby, Presbyterians.

The British Congregational Union has de-clared that its objection to an Established Church is not against any particular Church, but that it feels bound to protest against the continuance of a national establishment of agent of the society, Roy. M. C. Campbell, of Sarnis, was present. The following officers were appointed:—President, W. Vahey; Scoretary-Treasurer, G. B. Stephenson; De-pository, C. M. Eastman; Committee, Messra, A. D. MacDonald, B. J. Scommittee, Messra,

The National Con

An Illinois bridegroom is in a quandary about the wedding present he has received from his bride. It is a Webster's Unabridged. Whether the gift means that she has parted with all the words she has is a problem the recently made husband is carefully consider-

hars, chains, and by several policem has been shot at through a windo building, and she carries a revolve pocket, of her shooting jacket. 'H companion is a lady named Miss Prin

HIMOROUS.

The King of Greece-Oleomargarine, The real owe de Cologne—The debt on the Hymen is the only torch-bearer whose or mign never ends.

A green correspondent wants to know if pelicemen are protectionists.

The telegraph tells us "the Kurds have fallen back," which, perhaps, indicates that the whey is clear.