Scientific Hints.

The sum of \$3,650,000 is now invest. ed in the manufacture of iron in the Birmingham (Ala.) district. Two hundred and forty-four earth-

quakes, it is stated, are known to have occurred during 1881, of which 86 were in winter, 61 in autumn, 56 in spring, and 41 in summer.

A lacquer for steel may be made of 10 parts of clear mastic, 5 of camphor, 15 of sandarac and 5 of elemi gums dissolved in pure alcohol, filtered and applied cold. This varnish is transparent

Unripe grapes contain an unusual large quantity of extractives, acids, ash and phosphoric acid, and a small proportion of alcohol, the extractives having, as a rule, a sort of gelatinous consistency.

The blood of crabs and other crustaceans has been proved by M. Fredericq to have the same saline constitution and the same strong and bitter taste as the waters they inhabit; it has not the same constitution as the water, and thus shows a marked superiority over that of crabs.

The post-mortem examination of a mulatto woman who died recently in Cincinnati revealed a brain weighing 61 sunces. There are on record but two brains heavier than this-that of Cuvier, weighing 64.33 ounces, and Abercrombie's, which weighed 63 ounces. The mulatto was not considered bright intellectually, yet is described as becoming late in life, "thoughtful and reserved." He had been a slave.

A new method of storing grain is proposed in air-tight cylinders or bins of sheet iron, to be sealed after a partial exhaustion of the air. It is said that wheat, flour and bread so stored or seven months have been found_in excellent condition, and that taking into account the security of the grain against dampness, fermentation, attacks of insects and large vermin, fire and other risks, when sealed up in a partial vacuum, the new plan is more economical than ordinary storage in a

A series of tests at Bochun, Germany, to determine the values of bituminous coal in the making of steam, show that washed slack, holding 18 per cent. of water and 9.9 per cent. of ash, evaporated 5.7 pounds o water per pound of fuel; while the same coal, with only 3 per cent. of water, made from 8 to 8.5 pounds of steam. Making due allowance for moisture by reducing to a standard of now, and what she is like at sixteen?" like quanties of coal, free from moisture, there is found to be a direct loss by using wet coal, of 14 per cent.

machine has been tried at East Green- ing blush of first youth, with shadows Swan lampagin a state of incandes- like an embodied summer sun shower. power was called into exercise. The inventor believes that only with generators of electricity capable of supplying from 5000 to 10,000 incandescent love. lamps at least the problem of economical electric illumination can be solved. In the machine just tried the induced coils remain fixed, while the electromagnets revolve.

The celebrated Gobelin Factory was ed dyers of that time, were its foundbecome famous by reason of their having introduced into Paris a celebrated scarlet. Their workshops were established on the banks of a small stream called the Bievre, near to Paris. Like many enterprises regarded by the people of that time as eccentric, these under the appellation of the "Gobelin Folly" they continued till 1667, when the whole property and plant were kinds of artistic articles of painting, ago.

The Disadvantages of Rapidity.

tapestry weaving. The era of the Go-

By the way, Ballard Smith tells a story of a North Carolina wedding. It runs this way: It was in the Carolina backwoods; a country couple and country person. Though a Baptist, the minister wore an old surplice. When he had finished the ceremony he said: "And them'uns who God hath joined-" "Stop thar, parson," said the groom; "don't say them'uns, say these'uns!" "John," said the parson, "I tech you at school, and I say them'uns!" "These'uns," shouted the groom, drawing his pistol. The parson seeing the movement, fired through his surplice and the groom dropped dead, winging the parson as he went down. There was a lively fusilade of perhaps thirty shots. When the smoke cleared away a half dozen men were on the floor. The bride peeping over the pulpit to which she had fled for refuge, gazed mournfully on the scene and said : "Them a-selfcockin' pistols is a playin' hell with my prospecks!"

Large buttons are not as much em ployed for outside wraps as they were your eyes and ears. Only one peep!" wish was supreme ruler. last year.

Carradine's Love.

Carradine sat alone at his easel, painting; and as he painted he thought E ght years before when he was a poor and struggling boy, just entering on that race which must be run by every aspirant to art and its honors, there happened to him something which neither time nor toil had been able to efface from his memory. As he was passing along the street a wreath of fragrant roses suddenly fell on his head, and, looking up in wonder, he beheld, reaching out from the embroidered draperies of an overhanging window, a child with fairylike proportions, with great, dark eyes and long, curling black locks, who steed smiling and throwing him kisses from her curved lips, colored like a pomegranate. While she still gazed a nurse had come forward and drawn the child away; the curtains were closed, and he saw the little creature no more.

Such was the vision that the artist had carried so long in his memory; in his memory only, for he had no second glimpse of the child. That very day an accident occurred which kept him a prisoner in his room for some weeks, and when next he went out the house was empty, and a placard with great flaring letters announcing it for sale stared him in the face, from the same window in which the little white-robed elf had stood waving her hand and smiling to him. In course of time other faces appeared gather ng twilight. there, but; they were strange faces, and among them was never the one for which he looked.

Now, as Carradine sat painting alone, he thought ef all this; of the struggle that had ended at length in success; of his hard unfriended boyhcod, and of the beautiful child with her fragrant rose-crown which had seemed almost like a prophecy. That rose wreath, dry and withered now, was all that was left to him of the fair vision, but when the morning, in turning over an old portfolio, he had come upon it by chance, it spoke to him of that by gone day just as elo quently as when its blossoms were fresh and full.

"Eight years ago," he said, thoughtfully, letting the shriveled circlet slip through his finger, slowly. "She must be sixteen now-if she lives. If? No, I do not doubt her living presencesomewhere. I wonder where she is

With that he placed the wreath beside his easel and began to paint. The face as it grew on the canvas, pre-Gordon's new huge dynamo-electric | sentad a young girl in the dewy mornwich, England, and has proved a in the great dark eyes, and a half great success. It maintained 1300 smile about the bright curved lips cence, while but a fraction of its full It was thus that the artist pictured his ideal of the child-woman, whose infantile look and smile for eight long years had been his own dream of

Carradine had not had an easy life. An orphan from his earliest years, poor and unfriended, he had striven hard for the means to gratify that inherent idolatry for art which was always clamoring to find expression in form originally intend d for dyeing, and and coloring. He had fought and he Giles and John Gobelin, the mest not- had won; but now, at 26, he stood in the place which he had gained for ers. These two men appear to have himself almost as much alone at the very heart as he had been eight years before, when the child's gift came to him as a prophecy.

It was not that he was friendless. There were men who liked and sought him, women who would have gladly taught him to forget his lonliness in workshops received a nickname, and their affection. But though his nature responded readily to any kindness, there was one chord, deeper than all, that remained untouched; and, from purchased by the King at the suggest the sweetest glances, his thoughts converted into a royal factory for all had smiled down on him so long just touched the bright lips.

such as sculpture, designing and The ideal head became his great source of enjoyment, and a dreamy softness shaded his dark-gray eyes, as often I have wondered since--" belin tapestries then begun, and they rapidly acquired deserved celebrity. line by line and tint by tint took him back into that past, which, all lifeless as it was, seemed to him, in those moments, more real than the busy present. Yet now, in reviewing that one bright vision of his memory, it was not so much the lovely child that he saw, in fancy, as the beautiful girl whose face, with fuller depth and sweetness, look- what she would ripen." ed out at him from his own canvas.

Instinctively, he hardly knew why, he distiked to work on this picture in any other presence, and he devoted to it only his hours of solitude. So it happened that it was nearly finished when, by some chance, a friend discovered him bending over it, too absorbed to notice any approach. As the door opened, Carradine rose hastily, turning his easel to the wall, so as to conceal the face upon it. This little stratagem, however, was destined to be of no avail. Having been marked by the intruder-one of those cordial. well-meaning people, good-natured to said, a half smile lingering about her paddock, was screly distressed when a degree, but with little delicacy of mouth, but never lighting the great perception—the action at once aroused | dark that was shaded by subtle sadhis curiosity.

work at by yourself till it steals away realm of imagination in which hi

The next moment he was loud in

"But who is it, Carradine? If it is a portrait tell me where to find the orlginal, and I will, if it is a seven days journey!"

Carradine smiled.

"If I msyelf knew where to find such an original, I should not be here to tell, you my good friend," he answered, evasively.

"Oh, a fancy sketch," said the other, misled, as the artist had desired. "I might have saved myself the trouble of asking. No real fish and blood face ever looked like that-the more shame to nature, I say! Of course you will exhibit it, Carradine?"

"No." answered the painter quiet-

"No!" repeated the other in surprise. "But, my dear fellow, you must, or I shall betr y your secret, and you will have a swarm of visitors, worse than a plague of E y,t, let in

upon you." Carradine hesitated. A chance word in his friend's speech had suggested a possibility that made his

heart leap in spite of sober reason. "You are right," he said. "I shall send the picture for exhibition. It will be better so,"

After his visitor had left him alone again, Carradine bent long over his easel, g-zing into the lovely, upturned face, until it began to fade into the

"If-if!" he murmured to himself, half unconsciously. "But it cannot be. Yet I will send it-and perhaps--"

And so the picture was sent, in due time; and it seemed almost as if Carradine's soul had gone with it and dread. drawn him to follow. Hour after hour, and day after day, he sat in the gallery, scrutinizing eagerly every face amid the visitors, whom taste or fashion had brought to look at the now celebrated artist's latest success. Every night he went away unsatisfied, and every morning he returned with hope springing afresh in his heart.

Still, the object of his search, whatever it may have been, does not appear, and one day, discouraged at last, he resolved to go no more on so fruitless an errand. Shutting himself in his studio, he began to paint, but, strive as he would, he could command neither hand nor fancy. Finally, tired of repeated failure, he abandoned work, and yield d to the impulse which drew his steps in the customary direction.

When he entered the small sidecoom in which his picture hung, he found but two persons within, a young man and a girl.

Carradine could not see the faces of these two, but, with an earnestness for which he was at a loss to account, he followed their retreating figures as they moved slowly toward his picture. But the next moment an exclamation of astonishment burst from the lips of the young man.

"Why, here is your portrait, Lelia! What does it mean? Who car the painter be?"

With that, he hurried out to purchase a catalogue. Carradine advanced quickly to the girl.

"I am the painter," he said. She turned and looked at him with one steady gaze from those glorious eyes that had haunted his visons for so many years. Then sheepoke: "You painted that picture? and

how ?" "From remembrance," he answered. "It was my only tribute to the little unknown princess who crowned me once with roses. Does she, too, re-

member it?" For a moment doubt was in her face; but as he looked fixedly at her tion of Colbert. The works were then | went back to the unknows | child that | it vanished in certainty. A smile

"It was you, then, on whom I forced my roses? a princess who gave away honors unasked. How

She stopped, turned to the canvas, and added abruptly, "But I was a child then; and hera-" "Here you are a woman," said

Carradine, completing the unspoken sentence. "Is it so hard to understand? The same power that kept the child in my heart showed me into

She did not look at him now, but at the picture, as she asked in a low voice, "And whom am I thank for such an honor ?"

"My name is Hubert Carradine," he answered, and saw at once that it was no unfamiliar word to her. "And yours? Through all these years your face has haunted me al ways, but your name 1 never knew."

She hesitated a moment, then turned to him.

"You never knew my name? Then of me through all these years," she ness. The look, the tone, transported "Ana, master painter," he said, with | Carradine beyond all remembrance of

With that, he laid his hand on the \"I have thought of you always as

frame, and, receiving no forbidding my life and my love," he said, half word from Carradine, turned it around. | unconsciously, his dreamy, deep gray eyes glowing upon her face. She blushed suddenly, and then paled in an instant. Just then her former companion entered the room.

am 'Lelia Auverney,' she said ham, my-my betrothed husband." Not another word was said. As the fell back a step and looked at the two. H s was a fair, handsome face, so littie marked as yet by time that it would be hard for an unpracticed eye to conjecture with what lines the Neverthele s, with one keen gsz : Carradine estimated both present and fu-

She said a few low-spoken words to her companion, who presently moved toward Carradine, and addressed him. "I have the honor of speaking to Mr. Carradine, the painter of this pic-

Carradine bowed without speaking. "Will you pardon me for asking if it is a fancy sketch?" continued Mr. Wyndham.

"Partly so, but suggested by the

face of a little girl," answered the "But the likeness is so very striking!" muttered the young gentleman.

you will part with it-at your own "The picture is not for sale," said Carradine, quietly still regarding the young man with that cool, steady gaze which had already caused him to betray a hesitation, almost confusion, very unlike his usual easy confi-

dence. He seemed to have an instinctive knowledge that the artist was measuring him, and to shrink from that measurement with unconscious

Carradine saw Leilia Auvernay once more before she returned to her home in a distant town. Then he took his picture from the academy walls, and hung it in his studio, where his eyes could find it whenever he looked away from his work. For he did not give up work; yet, among themselves. his friends pronounced him an altered man, and marvelled what had caused so subtle a difference. Always quiet, he now seemed to live in an ideal world of his own; and, whatever he might occupy himself with, there was that in his manuer which appeared to imply that it was only a temporary diver ion until the coming of some event for which he was waiting.

So passed half a year, at the end of which there came a letter to Carradine. It was very brief, but it was enough to assure him of that which he had been almost unconsciously ex-

The letter was from Leilia Auver nay. He went to her at once. She met him with a haughing light in her eyes such as he had not seen there when she stood in the gallery beside her betrothed husband; a light which recalled the merry child who had smiled down on him so long ago.

"Mr. Carradine," she said, "I did not tell you how utterly it had payment of debts, and the Courts of nearly always failed in my debuts: I been swept away. I am nothing betfor one of your students, for charity's

He looked searchingly into her smiling face.
"And Mr. Wyndham?" he asked

in a low voice. She laughed without so much as flush of emotion.

"Mr. Wyndham has gone with the rest of my possessions. Did I not say that I had lost everything? You see, Mr. Carradine, that I am not of as much worth as my picture."

The words, as she said them, did not seem bitter. He took her hands. "Leilia," he said "does your loss mske you unhappy?"
"Do I look so ?" she asked, gayly

"As for the marriage, it was my father's wish, and to gratify his dying request 1 consented-before 1 knew my own heart-" Here a q nick, vivid color shot into her cheek, but she went on. "There never was love on my side; and on his-well, money is more than love with some natures. I do not wish to blame him."

Carradine's grasp tightened on her "Leilia," he said, "once your an-

swer put a bar between, when I spoke words that were surprised out of my heart. Would it be so now, if I should say them once more? My leve, my life, will you come to me ?"

"Will I come!" she repeated, looking up in his eyes and drawing nearer, until his arms silently folded about

And so Carradine found his love at They Would Meet as Friends.

Ex-Secretary Eyans tells a story at the donkey lifted up its voice and

The Law.

Recent Legal Decisions. HUSBAND AND WIFE. -- An attorney

at law sued a husband for legal services rendered to his wife in conducting a criminal proceeding against hastily, "and this is Cecil Wynd- him for an assault and battery upon her, and for defending her against a charge of common drunkenness, preyoung man approached, Carradine ferred by him, and recovered judgment. The defendant appealed to the Supreme Judicial Court of Massachusetts. In this case (Conant vs. Burnham) Judge C. Allen, in the opinion, said: "The husband is bound to furshaping character would yet stamp it, nish his wife with whatever is necessary to her reasonable enjoyment of life and liberty; and legal services cannot be excluded from the term 'necessaries.' There may be occasions when such services are absolutely essential for the relief of a wife's phys ical or mental distress. This cas supplies an illustration. The husband has committed an assault and battery upon his wife and instituted against her a criminal prosecution. What was she to do? Is it to be held that the woman, ignorant of legal rules and methods of proceeding, without money and without friends, not only deprived of the protection and aid of her husband but encountering his ac-"I must have it at any rate. Of course | tive hostility, was competent to defend herself properly on her trial before a jury? Such assistance was of value to and necessary to the wife, for which the husband must pay, as for other necessaries. In this State under its laws and customs, legal assistance was not necessary to the wife to enable her to prosecute her husband for assult and battery, as it is the duty of the Magistrate, upon her verbal complaint, to issue a warrant and investi gate the case. The fee charged for services before the Magistrate, therefore, cannot be allowed, but as to the other charges the judgment is affirm-

> TRUST FUND .- A by his will gave \$75,000 to trustees to hold as a trust fund: 1. To pay B his brother, the income during his natural life, the personally when convenient, other- nity." wise upon his order or receipt in writing-in either case free from the interference or control of his creditors, "it being my intention that the use of the income shall not be anticipated by assignment." 2. After B's death, the single. 3. On her death or marriage, founder of this trust was the absolute then to feel the tortures of fear." owner of the property left by him and the creditors of the beneficiary. It is argued that investing a man with aparent wealth tends to mislead credi tors and to induce them to give him credit. But creditors have no right to rely upon property held as this is held and give credit to the beneficiary upon the basis of an estate the only income By the exercise of proper diligence extent of his estate, especially where all wills and most deeds are spread upon the record."

DEBTOR AND CREDITOR-FRAUD .the United States Circuit Court for the district of Oregon, and judgment was recovered against him for \$35,228, and \$2821.60 as costs and disbursements. Pending the trial B confessed | 1871. udgments to several persons, and the judgments, with the claims of the United States and the mortgage debt of B far exceeded the value of his property. The confessions were given on fictitious claims, except one for of rheumatism. Much to the philan \$348 82, and were made for the purpose thropist's surprise, he met the identihis own expense about a small donkey of hindering, delaying and defraud- cal darkey capering about as lively as which he sent out to his country seat | ing the United States in the collection for the use of his children. One of his of its claim. Proceedings were taken think of me still as you have thought little daughters, going out with her to collect the judgment of the United nurse to admire the animal in the States, claim of priority being made under Sections 3466 and 3467 of the United States Revised Statutes. The brayed dolefully. "Poor thing! Poor former declares; "Whenever any per- just feels as if I wanted ter whistle fer thing!" exclaimed the sympathetic son indebted to the United States is a whole week." child-but suddenly brightening up insolvent, or whenever the estate of the deceased, the debts of the United | period for whisky.

States shall be first satisfied; and the priority hereby established shall extend to all cases in which a debtor not having sufficient property to pay all his debts, makes a voluntary assignment thereof, or in which the estate and effects of an absconding, concealed or absent debtor are attached by process of law, as to cases in which an act of bankruptcy is committed." B then filed a bill to defeat this action of the United States on the ground that what he had done did not bring him within the operations of the statutes and therefore did not give the priority claimed. Judge Deady decided in his favor and in the opinion said : "The judgments entered on the confessions are not mentioned in the statutes nor provided for, and the United States cannot maintain its claim of priority. If Congress had any intention to reach fraudulent action as that of B it would have used words which would clearly have shown such an intention."

STREET RAILWAYS - NEGLIGENCE. -A car was stopped to allow a passen ger to alight, and another passenger left her seat to get off the car. She had not given the conductor or driver notice that she desired to alight, but the car was at a stop when she arose, and went to the platform, and as she was stepping off it was started and she was thrown to the ground and injured. In an action for damages (Rathbone vs. Arion Railroad Company) the plaintiff recovered judgment, and the company petitioned the Supreme Court of Rhode Island for a new trial. The petition was dismissed, Judge Carpenter, in the opinion, saying: " In this case the car had stopped, or was apparently about to stop, for the convenience of a passenger and, in reporse to the signal of the conductor. We cannot say that, under the circumstances, it was the duty of the plaintiff, as a maker of law, to give notice that she also desired to alight. Tae stopping or slowing of the car in response to the signal we think might fairly be taken as notice by all the passengers that all who desired to alight payments thereof to be made to him | might take advantage of the opportu-

Samson of the Theatre Francois.

After leaving Rouen, Samson was engaged at the Odeon Theatre, in income to go to his wife upon the like Paris, and played there from 1819 to condition so long as she remained 1826. On April 1st of that year he entered the Comedie Francais, in the the principal to be divided among B's | Rue de Richelieu, Propositions had children. A creditor of B filed a bill been made to him the year previously. in equity to compel the trustees to pay but he felt bound to decline them, as the over to him from the income the total sum of his appointments would amount of his claim. In this case fall very much below the 10,000f he (Broadway National Bank vs. Adams) earned at the Odeon. Of his first apthe Supreme Judicial Court of Massa- pearance he says: "I made my debut chusetts dismissed the bill. The Cnief at the Comedie Français without bril-Justice, Morton, in the opinion, said: liancy. I never liked a first appear-"The Court will not compel the trus- ance; I was too cowardly, and I have tee to do what the will forbids unless always wanted a considerably long the provisions and intentions of the time to familiarize myself with the testator are unlawful. The English public." And earlier, in his memoirs. you that my fortune was gone, but I rule subjects such an income to the Samson says of himself: "I have several of our States have adopted that do not understand how I can have ter than a beggar. Will you take me rule-Rhode Island, North Carolina obtained any success in new pieces. and South Carolina-while the Courts Whenever I had to play a part that of Pannsylvania, Vernont, Kentucky | was altogether new I was the most and the Suprema Court of the United | miserable of men, and a week before States have rejected it. The question the first performance a sort of illis an open one in this State. The humor would come over me. I began

* * * His appointment of Professor he had the full right to dispose of it as at the Conservatoire in 1823 was only he saw fit, and his intentions ought to as a supernumerary; in 1836 he was be carried out until they are against in actual possession of the office. His public policy. The only ground upon | class became celebrated, no doubt, bewhich we can hold the restriction cause of his two famous pupils. Among gainst public policy is that it defrauds his best parts as an actor were Bertrand de Rantz u in Scribe's play, "Bertrand et Raton ;" le Marechal de Destigney in "Lady Tartuffe," le Marquis in "Mile. de la Seigliere." Besides his "Art Theatrale," Samson wrote some comedies, all of which had more or less success : "La Fete de Molliere," "La Belle Mere et le Genof which is declared to be inalienable. dre," "La Familie Poisson," and others. The last time he appeared on they can ascertain the nature and the stage was on the 31st of March. 1863. He was much applauded the whole evening, and as he came out of the theatre he was welcomed by a large and enthusiastic crowd of admirers. On the following day his B was sued by the United States in resignation was formerly accepted. He was then seventy years old, and had been before the public of the best theatre in France for more than thirty years. He died on the 31st of March.

> His fountain of youth: A kindhearted gentleman bestowed a half dollar on an unfortunate African who said he was unable to walk on account a cricket, but not quite so sober. "How about your rheumatism?" asked the benefactor. "Boss, when I puts myself outside of fifty cents' wuff of whisky, I gits rid of all my troubles, includin' de rheumatiz. I

The Board of Trade and the Chama laugh, "let us see what it is that you place or circumstance, into the unreal she turned to her nurse and said: any deceased debtor in the hands of ber of Commerce of Cincinnati have "Oh! I'm so glad. Papa will be here the executors or administrators is in- adopted resolutions urging Congress on Saturday, and then it won't feel so sufficient to pay all the debts due from to pass a bill extending the bonded