The Flowers and the Soul All through the lonely, dreary wint days

me fragrant plants ceased not to grow and bloom, Enlivened by a hearth-fire's steady blaze

Where ruddy coals defied the gelid gloom, Which outdoors did abound.

Quite lustily they throve, and seemed to steal, For increase, each pale sunbeam that down

shone: Well were they cared for, and were made

to feel The impress of that subtle charm which home So gently girds around.

Until the joyous springtime came apace, Anear its mystic echoes seemed to ring,
And nature showed a bright and kindly

So that the birds no longer feared to sing Upon the budding bought

Then there arrived a very busy day: The close-grouped plants were parted, lifted forth

And carried to a garden, far away, All greenly beautiful, which toward the north

No prospect wide allows. Ah, much we missed the tender, leafy

The pretty blossoms 'gainst the window pane! Regretting then at first, we did not deem That only then departed had their reign,

In very sooth, begun. And here we see a likeness to the soul, Which dwells at best within a pleasant roo While bound to earth, yet ever lies its goal In Beulah's shining meads beyond the tomb, Where glows the Eternal Sun.

-Boston Bulletin.

Running Away From a Rival.

generally given to fortune hunting, erable watering-place! while even the heiresses seem none too high or proud to angle for a few extra test the matter."

And the misanthropic young bacheopen window, he saw Esmeralda Rue terest in the vicinity. smiling sweetly up into the face of an

man might have staked his life just he had thought buried long ago. then upon her being capable of sacri- "Judge Ingram is here, I see," he like turning my back forever upon Quite wealthy, is he not?" them all.'

straight up to Esmeralda and asked from the hotel." her for a waltz.

The young lady seemed much inter- "And they arefully dubbed the wealthy Judge In- sir, didn't you knowgram. Still, at Alf Singleton's apure rose to her fair cheek, and, ex- him.' cusing herself to her companion, she And, thanking his informant, he ite.

Alf was an exquisite dancer, and, as tion of his fears caused him.

ungenerous triumph; "he is probably in this far away Western town! will cost her."

And he was as good as his word, Never before had he been so brilliant, so interesting, so attractive. Esme who were uppermost in his thoughts, dear white hand of the heartless woseemed so pleased and happy, too, in his society, and so charmingly appreciative of his efforts to win her regard.

"He is the most charming old gentleman in the world," declared Esmeralda, with the prettiest blush imaginable.

champion," said Alf, a half-sneer but half minute they looked straight into was blushing deeply-he could see that London atmosphere,

owes the happiness of your—love?" breathlessly watched for its effect. ascribed to her, this was surely a splen- sight before the judge had even withdid opportunity to disclaim it.

petuously, a flash of real anger in her out before them. blue gray eyes, "such a question does no honor either to your head or heart. mentary vision of her old lover, but and he invited me to call and see you. Judge Ingram is a noble man, and I should think of him just the same if he had not a dollar in the world."

Alf's heart sank, and, as the waltz was ended, he led her to a seat, and soon found himself once more pacing the moonlit piazza in bitter restlessness of spirit. He did not believe that Esme loved the judge, despite the evident feeling which she had displayed. his eyes mean when he looked at her in her eyes. No fair young girl like that could love a man old enough to be her father. He still believed that she meant to wed him for his wealth, but that her pride impelled her to make the world think otherwise

Well, he loved her, he reflected, with a sad, half-mocking smile; yes, he loved her, this fair, sweet girl who had seemed so very near his highest ideal of womanhood. But he would never lay his heart at her dainty feet to be cast aside for another man's gold. "'Tis a burning shame," mused Alf Yet he could not stay to be tortured Singleton, discontentedly, "that amid by the sight of a rival's happiness. so many fair and charming women No; before Esmeralda opened her one cannot be sure of finding a true, lovely eyes upon a new day of triumph disinterested heart. The poor ones are he would be far away from that mis-

* * * * The sun was setting upon a beauthousands. If I could believe in the tiful mountain landscape in the far genuine goodness of any of them, it West. Alf Singleton was combining would be-but, pshaw!" he broke off, business with pleasure, and, while gloomily, "no doubt she is just as business led him to the pretty Western heartless as the rest, if one chose to town whose modest houses were scattered picturesquely about on the level plain at the foot of the mountains, he lor bit off the end of a fresh cigar half was tempted by its beauties to remain savagely, as, glancing in through the and explore the many points of in-

But it was not until, in turning the elderly gentleman whom he knew to leaves of the hotel register, his eyes be the possessor of a handsome for- fell upon the name of Judge Ingram that he bethought him of the fact that "Just like the rest of her sex," he Esme's home was in the West-percontinued, moodily. "She would sell haps in that very town, for aught he her youth and beauty only too willingly knew. He remembered that she had for that old curmudgeon's half million. sometimes spoken of her Western And yet," with a tender, reflective home, though she had never named the look softening his features, "it is only particular spot thus favored. That two evenings since that her face Judge Ingram should cross his path changed color and her eyes grew moist again in this faraway locality, aroused at my reading of 'Locksley Hall.' A all the old-time love and jealousy which

ficing everything for love's sweet sake. said, speaking with affected careless-And here she is, smiling like an angel ness to the clerk. "I had a slight upon old Moneybags! Bah! I feel acquaintance with him in the East.

"Yes, sir," replied the clerk, politely, But he didn't. After one or two "but he is not here at present. He is colonel's and we'll talk over old times, more hesitating turns up and down visiting his wife's relatives just now, 1 Singleton. Esme will be delighted to in darkness. the piazza he threw his cigar away, believe, and you could probably find meet you again, I'm sure." And the and, entering the ballroom, walked him there. It is but a stone's throw judge moved off, scattering smiles of

"His wife's relatives!" echoed Alf.

ested in her conversation with "Old "Colonel Rue's family-old and hotel, moodily resolving to leave the Moneybags," as Alf had disrespect- honored residents of this city. Why,

proach, a flush of unmistakable pleas- judge was not married when I knew for love, while I know that it was only

was soon gliding through the mazes of turned on his heel and left the hotel, a perfect waltz to music that might as the clerk supposed, to seek the have stirred the pulses of an anchor- judge, but in reality to hide the cld times with his wife. An old fool, agitation which this sudden confirma- indeed, I pity him, with all his wealth.

he passed the judge with his arm en- Poor Alf! It was hard work choking circling Esmeralda's graceful form and back the big lump that would stick in his handsome head bent low in conver- his throat at the bare thought of Esme sation with his levely partner, he was Rue being another man's wife. To quite sure he detected an expression of think that he had fled from the mere jealous envy upon the elder gentle- possibility of his rival's triumphant happiness at that Eastern watering-"Aha!" he thought, with a thrill of place only to confront the bitter fact

thinking just now that money can't His heart was swelling with indigbuy everything. Well, after all, youth nant sorrow as he turned to climb a neighborhood. and good looks are better than riches, hillside whose uneven paths and jutand if Miss Esme has made up her ting boulders offered a chance for mind to choose the latter, I will, at action and something of an escape-depot, but that was one temptation least, make her realize to the fullest valve to his excited feelings. Turn- which he found it impossible to reextent the happiness that her choice ing a sharp curve in the path, it sist. In his heart he longed to cross seemed only natural and a part of his that shrubbery-dotted yard and vineluckless fate that he should suddenly wreathed portico; to enter that white

face of a large projecting rock, as if the depths of those blue gray eyes cured. The coal's energy might then resting after a long ramble over the until he brought the conscious blush that he felt almost inclined to think he mountain. Esme was busying herself to her cheek, that blush which told a copper wire in the form of electricity, had misjudged ler. For one brief, with pressing some freshly-gathered him that he alone reigned king of her blissful interval life began to look all wild flowers between the leaves of a heart, wife though she was. couleur-de-rose to poor doubt-tortured book she held, while the judge alter-Alf until in an evil moment he intro- nately watched her at her fascinating Alf contented himself with walking over a million tons of coal, might in duced the subject of the lady's wealthy task, and looked away over the grand past very slowly, gazing at the open this way be conveyed to London over pression of serene and perfect happi- growing dusk, he almost brushed eter. An important advantage of the ness on his noble old countenance exasperating to behold.

Alf had just time to grind his teeth

partially concealed in his light laugh. each other's eyes. He noted the warm even in the dusk-but as for poor Alf, I wonder if it is to his own charms, color slowing rising in the clear, fair he was very white and his breath came or those of his half-million, that he cheek of the woman he had loved and quickly. lost, until a deep, rich crimson dyed He had not meant to say that last the lovely face from forehead to chin. membering, he added: "I beg your word, but since he had spoken it he Then he raised his hat, with a slight pardon, Mrs. Ingram. Let me consmile of triumph, and turning abrupt- gratulate you." If she had no ambition as he had ly on his heel vanished from Esme's drawn his contented, admiring gaze "Mr. Singleton," she exclaimed, im- from the magnificent panorama spread your brilliant marriage," said Alf,

Esmeralda did not mention her mothe carnation roses glowed in her Howevercheek long afterward, and dreams which she thought dead and almost buried out of sight came to light again with startling vividness, and sheknew that she had never ceased to love Alf Singleton, and never should until her

What did that strange expression in just now? There was the same look which she had once thought was love in those delightful days when they wandered together by the summer sea: and the same half-mocking light which had so often marred the manly beauty of his countenance, only both were now intensified. Yet if he had loved her then, why had he gone off so suddenly without a word of explanation or farewell?

But while Esme was thus puzzling her brain over a problem which had often troubled her, the judge was happily unconscious that anything had occurred to disturb his fair companion's tranquillity. Therefore, when he almost ran over my hero that same evening in turning a street corner, he was honestly glad to see him, and almost over-knew he soon would be, and I had a whelmed poor Alf with the heartiness of his greeting.

What torture is there imposed upon man by the requirements of civility comparable to that which forces him to congratulate a successful rival upon self). "A young fool is worse than the winning of that which was the bject of his own dearest hopes? This was the ordeal poor Alf had to go through, and his manner was very cold and constrained as he did so.

"Yes, my boy," said the judge beaming like sunshine upon his wretched listener, "I am a happy man. My wife is one of the loveliest of men, and belongs to one of the finest old families in this place-the Rues. But I believe you know them."

"I had the honor of Miss Esme's acquaintance last summer at Cape May," said Alf, trying to speak naturally.

"Ah, yes, young dog," said th judge; shaking his curly old head at Alf with his brightest smile. "I once that far-off Western town. thought there was a very promising love affair going on in that quarter, but I was an old fool just then-in love myself, and fancying that everybody else was. But come round to the sunshine as he went.

"He hit the mark that time," thought Alf, as he walked back to his town by that evening's train. "There is no fool like an old fool. He fondly "No," said Alf, briefly; "the believes that Esme Rue married him for his money. If he had seen the way she blushed to-day at the mere sight of her old lover he would hardly have invited me around to talk over But I'm not quite villain enough to accept his invitation. No, I'll pack my valise once more, and see if I can find a spot where I shall not be tormented by the sight of that old simpleton's happiness.'

Alf kept his word, and two hours later, valise in hand, was walking firmly toward the depot whence the coming train would soon bear him from Esmeralda's too fascinating

It was not strictly necessary that he should pass her home on his way to the come almost face to face with the two cottage and clasp for one moment the

"Esme!" he exclaimed. Then, re-

"Mrs. Ingram!" echoed Esmeralda. "What do mean, Mr. Singleton?"

"I mean to congratulate you upon somewhat bitterly. "I met your hus band, the judge, an hour or two since-

" My husband-the judge?" repeated Esme, looking as if she thought him bereft of his senses. "What do you mean, Mr. Singleton?"

"Are you not Judge Ingram's wife?" he asked, hoarsely.

"Indeed I am not," she answered, a mischievous look beginning to dawn

"Then, who the deuce is his wife? He told me he had married into Colonel Rue's family, and asked me to call, saying 'Esme' would be pleased to see me. And I saw you together to-Now, what does it all mean?"

"It means," said Esmerelda, laughing now, "that Judge Ingram married my father's youngest sister, and, being here now, is stopping at our house. And I assure you, Mr. Singleton, he is the most charming uncle in this world."

Alf looked bewildered, crestfallen and happy all at once.

"Tell me one thing, Esme," he pleaded. "Was he your uncle when you told me you loved him that night as we were waltzing at Cape May?"

"No," she said, smiling; "but I perfect right to love him even then.'

" Oh, Esme, why did you not give me an explanation then?"

" Because you did not ask for one." No" (very much ashamed of himan old one after all. But, Esme, I loved you so, and I believed you were going to marry the judge for his money, and I could not stay to see it You don't know how miserable I have

" Was that why you left us without a word, you foolish boy?"

Indeed it was!"

Alf dropped his valise to the ground, for Esme's crimson face was hidden on the rounded arms, crossed over the low, square gate-post, and he was very anxious to lift it from its hiding-place and see the love-light shining in those bewitching blue-gray eyes. And thus we leave them to talk over the old, old story in the deepening twilight of the

SCIENTIFIC SCRAPS.

Grapes exposed to sunlight contain three and three-fourths per cent. less acid than those which have remained

According to G. Forbes the velocity of blue light is greater than that of red, the difference being between one and two per cent, of the whole velocity.

Dr. Andries and M. Faye both agree that cyclones, tornadoes and trombes are one and the same mechanical phe nomenon and that their powerful action is due to the force in upper cur-

In Europe electric railways are growing rapidly in public estimation, not only on the continent but in Great Britain. Already 100 miles of electric transit are in operation, and there is every probability of the total mileage being considerably increased before the end of the present year.

The British were not the first to bring balloons with them to Egypt for purposes of war. They were certainly taken out by the French army in 1794. Bonaparte was unable to use them, however, as the apparatus for the preparation of the hydrogen gas was destroyed when Nelson annihilated the French fleet at Aboukir. These balloons were very small, having a capacity of only 530 cubic me ters. They were made of silk, and were inflated with hydrogen made by causing steam to act on iron filings.

The coal required in London for lighting purposes and motive power Sir Henry Bessemer would have burned They were seated upon the flat sur- man he had loved; to gaze down into at the mines from which it is probe transmitted to the metropolis over at a vast saving of expense. He estimates that 84,000-horse power, re-Some men would have done so; but quiring an annual consumption of and picturesque landscape with an ex- windows so intensely that, in the a single copper wire one inch in diamagainst some one leaning over the low plan, in addition to the saving in cost, white gate before he knew where he is that the combustion of so large an was. One swift glance and then they amount of coal at a distance instead "Indeed, Miss Esme, the judge is together savagely ere Esme glanced clasped hands over the gate as by a of in the city limits would considerably fortunate in having such a lovely up from her flowers, and for a full common irresistible impulse. Esme reduce the quantity of smoke in the

Oriental Traffic and Wealth. How many German and Italian cities

owed to this toilsome Oriental traffic

their wealth and magnificence? Pro-

fessor Thorold Rogers brings this out

clearly in his most interesting book on

the "History of Agriculture and Prices in England." He says: "In the fifteenth century such towns as Nuremburg and Ratisbon, Mayence and Cologne, were at the height of their opulence. The water-way of the Rhine bears ineffaceable traces of the wealth which was carried down it in the numerous castles of the robber barons, the extirpation of whom became the first object to which the resources of civilization were directed. The trade of the East enriched burghers of the Low Countries till, after a long and tedious transit, the abundant spices of the East, increased in price a hundred-fold by the tolls which rapacity exacted and the profits which merchants imposed, were sold in small parcels by the grocer or apothecary, or purchased in larger quantities by wealthy consumers, at the great fair of Stourbridge or in the perpetual market of London," (vol. iv., p. 654.) Then came a memorable revolution. Western Asia was repeatedly ravished by the Turkish and Tartar hordes. In many rich, fertile and famous countries the cultivated lands returned to their primitive desolation, great cities shrank into miserable country towns, and the people sank into an incurable and hopeless lethargy. The Christian merchant found it more and more dan- for two weeks, and during which the gerous, less and less profitable, to penetrate into the interior of Asia. At air was filled with dry, fine sand to length the Turkish conquerors reached the Bosphorus and the Hellespont. to see more than a short distance, and The Greek emperors gave place to the the sun was rarely visible. Ottaman sultans, and under their new masters the Euxine and Asia Minor were closed to Christian coffimerce the Austrian glass industry. It is new From Constantinople the Ottomans Danube on the one side and the Euphrates on the other. Finally Selam I biued Mesopotamia, the holy cities watch chains, brushes, etc. of 'Arabia and Egypt, and stopped the last overland route a few years after from Elm in 1799 the march of the Vasco de Gama had discovered the passage round the Cape of Good Hope. Professor Thorold Rogers has shown with great fullness how Selim's conquest of Egypt raised the price of almost every Oriental commodity imported into Europe. The same conquest struck a march in safety. fatal blow at the greatness of many an Italian and German city. From this epoch we may date the decline of Venice, and Venice scarcely suffered more than Ratisbon, Augsburg and Nuremburg. There, for generations, many an untenanted palace, many a silent street, reminded the traveler of that great change in the line of Eastern commerce. Then Portugal first, and afterward England and Holland, seized on the sea route to India and on the traffic of the East. England, who added to that rich monopoly the empire of India and of the seas, was to Europe all that Venice and Genoa, Augsburg and Nuremburg had been; and she was much more. But the decline of the Ottoman empire, followed by the construction of the Suez canal and of the Alpine tunnels, has reopened the old est and most effective refractor tele path of commerce. The cities of the scope in the world now in actual use is Mediterranean are reviving. The Mediterranean states have gained much and we have lost something, even in the last two years, and as time goes on they will continue to gain and we to lose. Any one who visited, covery of the two moons of Mars. as I did, the cities of Southern Europe | An instrument of one-inch greater aperforty years ago, then cities of the dead. would hardly recognize them now-all perial observatory at Vienna, the one bustle, activity and progress. But we at Washington having an aperture of must not forget that political freedom has had as much effect as the return of Eastern commerce in the renewal of their prosperity. The English merchant is not so selfish as to complain of a change which has benefited the producers and consumers of the world. Instead of sitting down with his hands before him, bemoaning his hard fate or living upon a reduced trade, he has found out new trades, if not so profitable to individuals, even more beneficial to mankind than those which he has lost .- Fortnightly Review.

Manufacture of Jewsharps.

An Englishman has just established a manufactory of jewsharps in Troy It is said that there are only two others in the country-one in New York and the other in Boston. A simpler instrument than the jewsharp it would be hard to conceive, but the process of manufacture comprises no fewer than thirty separate operations. The inventor of that humble instrument. which has been vibrating all over the world for centuries, is unknown to fame. At the beginning of the present century the jewsharp was developed by combining several different instruments, each with a separate pitch, and in 1827 Eulenstein, a native of Wurtemburg, made a sensation in London by playing upon sixteen at once.

CLIPPINGS FOR THE CURIOUS.

A German has invented a gunpowder that water won't hurt.

To every 400-pound bale of cotton there are 1,200 pounds of seed.

Young salmon increase in weight from three to seven pounds in four weeks' time.

The length of the submarine cables in the whole world is estimated to be 64,000 miles and their value to be \$202,000,000. The length of all the wires in the world would reach fortyeight times around the earth.

According to the report of the commissioner of agriculture of 1870, the larvæ of a large fly which frequents Mono lake, in California, are dried and pulverized and mixed with acorn meal and baked for bread, or with water and boiled for soup. A fisherman caught recently in his

net at Queen's Ferry, a few miles below Chester, England, the largest salmon ever caught in the Dee. It was found to turn the scale at forty pounds, was four feet in length, and a healthy, clean and well-developed fish.

The use of face masks of mica, for the protection of metal and glass melters, stone masons and other workmen exposed to heat, dust and noxious vapors, is found to be quite serviceable. These masks allow the eyes to be turned in any direction and admit of the wearing of glasses.

Iceland was visited by a remarkable sand storm last spring, which lasted temperature was intensely cold. The such an extent that it was impossible

Glass-spinning and glass-flower manufacture is a very extensive branch of so developed that a petroleum flame read their conquests to the gives some 1,540 yards of glass thread every minute, that are woven not only for glass cloths, etc., but also for

When the army of Suvaroy retreated men loosened the snow of the Alps so that avalanches descended upon them and 300 mule drivers and their animals were buried under one of these immense snow slides. Only 17,000 of the 20,000 who left Elm made the

The baileon Reliance made a singular flight from the Alexandra palace, London, recently. It rose gradually to a height of 1,500 feet, drifting in a northerly direction, then, when ballast had been thrown out, rose 1,500 feet more. At that a current carried it toward London, and through a thick mist it descended at the end of an hour upon the very place from which it had risen.

The Largest Telescope.

The largest telescope in use is the great reflector of the Earl of Rosse, at Parsontown, Ireland. The instrument weighs twelve tons. The speculum is six feet in diameter, and has a focal length of about fifty-five feet. The largthe one in the Naval observatory in Washington, constructed by Alvin Clark & Sons, Cambridge, Mass This is the instrument which has been rendered famous by the disture has just been mounted in the Imtwenty-six inches and that at Vienna twenty-seven. Two still greater refractor telescopes have been ordered, one for the imperial observatory at Pultowa, Russia, with a glass of thirty inches diameter and focal length of forty-five feet, and another, of equal or greater dimensions, to be mounted in the Lick observatory on Mount Hamilton, near San Francisco. Galileo is regarded as the inventor of the telescope, although before he exhibited his instrument at Padua, Italy, in 1609. Hans Lippershun, of Holland, had invented the convex object glass, and Galileo is said to have got his idea from hearing of discoveries made by Metius, a Hollander, through a combination of

The Cost of the Fences,

It has been estimated by Bradstreet's that there are six million miles of fence in the United States, the cost of which has been more than \$2,000,000,-000, or about \$625 a mile. Formerly the fences of farms were built of wood, and the annual repairs put a heavy tax upon the farmers. The last census shows that the cost of such repairs in 1877 was \$78,629,000. Most farm fences are now built of wire, and sixty thousand miles of such fence were built in 1881, at a cost of \$10,000,000, or about half the cost per mile of the old wooden fences.