Sharp were the thorns that were hid within Each made light of the loosening chain, Lips were smiling, and brows serene,

Showing no sign of the hidden pain,
Hiding the scar where the wound had been.

Vain and hollow were smile and speech,
Far divergeth our minds and ways,
Slowly died from the heart of each
All the trust of the carlier days.

So it must come that the bonds would grow, So it must come that the bonds would grow, Slighter and weaker as months went past; Word and deed have been false, you know, Falsehood ever must fail at last.

As for the world, let it gibe or frown, Care we not when its worst is said,
Shaps the bond ere the sun goes down;
Faith has vanished and Love is dead.

### THE BABY'S MISSION.

The busy world about poor, old Grandpa Holmes seemed to have very little room to spare for him. His old arm-chair even, had grown to have a dwindled, apologetic look as it shrank more and more closely into the chimney

The loud voiced neighbors would noticing the bent, white head and si- the aged. lent form in the corner, with feet drawn daughter-in-law and her dozen boisterous boys,-always silent; for it seemed to the old man that there was no room in the world even for his weak, trembling voice.

proud master of a broad farm in a happy Arcadian Valley. Lands, home, fam-ily and riends had left him one by one, was grandpa's old home and for years of the Past was no lack of room. There always kind. Sometimes, when almost one thought of inviting him. happy in the serene light of those In those years many a dear friend blessed days, he would be rudely awak- had sickened and died, and now but be sure, is noted, ay, and recompensed, by Him who seeth all things.

into his heart, and the page before hood? him, like the monkish manuscripts of | old, was illumined by golden lights, and less room than ever in the world and patting it softly. for him. But just then his dim eyes and took courage; for the end was so

near. beautiful one, and Grandpa Holmes atton in her blue eyes, "I seep wiv'vo, seemed to take a new lease of life in and get up wiv'vo, forever and ever, the open air. He took charge of the Amen," with an emphatic nod of her vegetable garden, and was so success- curly head. ful, that all the summer he kept the table supplied with delicious vegetables man's life had been "full of blessings," and fruits. More than once his heart as he meekly said in the Friday evenhad been warmed by words of praise ing prayer-meeting; but when he reachfrom his usually silent son, who was ed home that night, fresh and cheery only cruel in his silence; and even his from his ride, he was received by every daughter-in-law had called, one day, at member of the family with so much table, for another plate of "grandpa's kindness, that his eyes grew moist with nice asparagus." When it takes so litemotion. tle to make the old happy, how cruel it is to withhold from them that little! tion the first thing next morning. But all summers must come to an end

and after that-the winter. Grandpa's chair was in its usual corner, and his quiet face had an expression pathetic to see, as he shrank into the smallest possible space and thought must be waiting for Spring.' of the many cold, dark days to come. lifted, with a gentle, pleading coo to the holy Christ-Child in his arms, he rection. placed on his knee his youngest grand-

How strange that he had never noticed her before! How lovingly she with her dear old "ganpa. nestled in his long empty arms, and with what soft delicious pats, she stroked his bright white hair!

"What is her name?" he asked of the mother whose wide black eyes were regarding them with surprise.

"Effie," she answered with unusual gentleness. "Effici" The aged hand fell tenderly on the silky rings of hair. best beloved child. Surely her strong, loving soul looked from the blue baby eyes before him!

A foolish fancy perhaps; but ah, the peace and blessedness it brought! The baby's love and care for grandpa, grew with her growth. At the table her chair must be beside his; and how jealously she watched to see that he was not neglected! Before Effie's reign, the mother, in her haste to silence the them first; and many a cold morning grandpa's coffee would be entirely forgotten; and in consequence, the weak, old man would leave the table with a tones emphasized by the drumming of a spoon on her tin plate would be heard above all the clamor.

serve him first, and once he was surprised by hearing his hitherto unob-

"Don't take that crust, grandpa; take the soft piece." Finally it be came the habit of the family to save the best bits for the Grandpa. One day the bustling daughter-in-law put a little pitcher of cream at the old man's plate for his coffee, and when he demurred, for the others used only milk, -he was struck dumb by one of his grandson's saying:

"Take it, grandpa, cream is none too

The winter so dreaded passed quickly away; for grandpa's corner,-it was Effie's as well, had become the centre of warmth and cheer. The whole family began to see him with the baby's eyes; the boys gathered about the hitherto silent, shrinking old man, and were delighted with his dry speeches and funny stories. Once when the eldest son snarlingly pushed aside the old, black Book, to make room for his pipe, Effie doubled her little fists and stamped her tiny feet in such a tempest of indignant reproaches, that he retreated with precipitation and that nook was ever after sacred to grandpa, alone.

One day, after the baby had begun to toddle about, the minister called. It was not his first call, and although he had often seen the old man in his corner, he had merely not ced him by a nod and confined his conversation to the rest of the family. This time, Effie met him, led him to the corner, and said, as if showing a most precious reasure, "my gandpa," and then patted a chair near by as an invitation to be seated. The young man blushed crimson, when the gentle, old man said: "You must excuse baby; she thinks

every one must notice her old grand-But the young minister never come and go, and come again, without afterward forgot the deference due to

Effie was nearly three yearsold when closely out of the way of the bustling one levely June day, the eldest grandson came in, and astonished the old man, by saying: "Grandpa, I am going over to Isling-

ton on business. Maybe you would like to go along and see uncle Jack's Years and years ago, he had been the folks. I will get up the light wagon and you may take Effie."

and only the memory of them now re-mained. Ah! in that beautiful world place once more. Scarcely a week passed but that some of his people went the fields were ever green and friends there, yet, never until now had any

ened by an impatient push from his few of the old acquaintances were left; busy, daughter-in-law, or by a snarl but when he sat in the carriage with from his eldest grandson, who found Effie at his feet, smiling and prattling, the old, black Bible, grandpa's one and at his side the grandson, cheerful book, in his way; and the old man and considerate of his comfort, and would hobble from the room in silence drove through the old scenes and faand sit in the cold with a bitter pain in miliar places, swathed in the perfumed his heart, whose every pang, you may gold and tender green of early summer, he felt very near to Beulah Land, indeed, and almost in sight of the loved It was May; and grandpa Holmes and lost companions of his youth. had limped out into the sunshine with | Would he ever forget that ride among his old, black Bible. Some of the soft the dear and never-to-be-forgotten aswarmth and glow about him had crept | sociations of youth and early man-

"Jessie," said grandpa, when they passed the graveyard where the loved soft gray shadows, thrills of bird-songs, companion of his life lay buried, "I do and rose tints from the blossoming not know as I ever said anything about apple-trees. The stirring daughter-in- it to any one, but when I die, I should many others connected with surgery. not steal. I tell you, these are among

"Die," said Effle, taking the hard, pearances meant another grandcaild, wrinkled hand in her two chubby ones,

"Now, member, ganpa," with two pink hands firmly clasped on his knee, The summer had been an unusually and a look of unconquerable determin-

The past two years of the dear, old

"Where is ganpa?" was Effie's ques-"Grandpa is tire !," said the mother, "Let him sleep."

Later, Effle came into the room with her blue eyes cpened very wide.
"Mamma," she said. "I think ganpa

Effie was right. The cherished wish Some one pushed his feet, he drew of the loving old man to see once again them closer, they were pushed again; the dear, old home of his youth, had looking down the soft, round pink and been gratified - the great All-father white face of a roly-poly baby smiled never forgets and never refuses any into his, and two little fat arms were sincere and sinless desire of one his children-and he had no more to do, be taken. Feeling somewhat as old but to wait in silence for the golden Simon must have felt, when he took Springtime of a triumphant Resur-

And Effie? The baby's work was finished too; before the end of summer, she was "seeping," as she had wished

GRACE BROWN. Anthony, Kansas.

# The Banama Canal.

The name of his only daughter and large enough to admit the issue of a stream gauging 400 cubic meters per three feet depth of water contains one cutting nearly as wide and deep as that depth of the ocean is three miles. required for navigation, depends, among other things, for its accomplishquakes. One tremor of the ground tor. The colder water is below. It is structure. Altogether, M. De Lesseps | coast of Norway the water often begins clamor of her ill-bred boys, would serve and his shareholders are in a terribly to freeze at the bottom before it does awkward plight. They cannot very at the surface. well abandon works which have cost At this depth waves are not felt. over fifty millions of money, and yet sense of loss in his shivering frame. they cannot with prudence go forward. does not move forward, although it Never now. The baby's sweet, clear They have two alternatives, and only seems to do so; it stays in the same two, before them. One of them is to place. The rising and falling moves sell the whole thing for, say twenty on, millions to the Americans-who are "Ganpa, ganpa's jink." millions to the Americans—who are At length it became the custom to quite willing to buy the concern—and and by the distance from crest to crest. the other is to suspend M. De Lesseps, and to put in somebody who will personally superintend the works. Who that somebody ought to be we have, we tion is less, and this makes a choppy confess, no idea.

> that the aroma of fruits increases with strikes on Bell rock with the force of the cher at Cleveland, Ohio.
>
> Ferale typewriters abound way, are richer in essential oils in Norway than in more Southern regions, we go down. At the depth of a mile crative. This effect is ascribed to the influence this pressure is reckoned at more than The Bundersrath refuses to allow the of the prolonged light of the summer a ton to the square inch—that is, more Jesuits to return to Germany.

MARING AN ENCYCLOPÆDIA.

What it Costs---The Method Usually Employed --- Pay for Contributions.

"How much does it cost to produce an encyclopædia?" was asked of an expert, and he said:

"That depends upon the method pursued in making it. The American Cyclorædia cost \$500,000 before a penny was realized. The maps and engravings in the work cost about \$115,000. The best lithographers were employed and many of the pictures cost hundreds of dollars."

"How is an encyclopædia made?" "Well, usually after the method employed in compiling dictionaries, Editors are engaged for the different departments. There is the religious editor, the medical editor, the historical editor, the scientific editor and the editor on miscellaneous subjects. The best authorities in the land are chosen to edit the work, and large salaries are paid. In the process of compilation an alphabetical rule is observed. The old encyclopædies, such as Chambers' and Encyclopædia Britannica are followed as regards the subjects they treat of. The modern encyclopædia, however, has very much of a newspaper flavor. It is based upon the principle of American journalism. It is timely and intended to hit the spirit of the age. The blographies of prominent men are made an especial feature. The American Cyclopælia is the greatest undertaking in and three separate seas would remain, the art of book making ever attempted in this country. Charles A. Dana, of the Sun, was and is the editor in chief. He fixes the prices paid to contributors. He knows the value of every word that is written. If an article is handed in by a specialist and another comes in from an obscure professional man in any science he chooses the best."

"How much do the contributors to

encyclopædias make?" "Generally we pay magazine ratesmation, however. Dr. Shrady, who is apple-trees. The stirring daughter-in- it to any one, but when I die, I should law had not been about for some days, like to be buried here by your grand- Of course a specialist is paid far more the wonders that sometimes puzzle the seeds have matured. In India a four miles of it will be completely their work."

"How much money is invested in encyclopælias?"

"That is a difficult question to answer. We have run into the millions that encyclopædias are never sold in bulk. The instalment plan is always each volume as it is issued."

"In case a volume is lost, can it be duplicated?"

"That depends on who the loser may A genuine set of encyclopædias costs a aptitude for learning encourage us to must be brought into use. Then give power. great deal of money, about \$150 to believe that she will grow up to be a castor oil to remove any of the poison-\$200, consequently they are sold in useful servant of Christ. instalments and the purchaser is protected."

# Facts About the Sea.

The sea is the reservoir into which run all the rivers of the world. It is the cistern which finally catches all the rain that falls, not only upon its own surface, but upon the surface of the land and upon the roofs of our homes. All this water is removed again by evaporation as fast as it is supplied. It is estimated that every year a layer of the entire sea fourteen feet thick is taken up into the clouds. This vapor is fresh, and if all the water could be removed in the same way and none of The project of damning up the it returned it is calculated that there Chagres with 26,000 cubic meters of would be left a layer of pure salt 230 earthwork, accompanied by a culvert feet thick on the bed of the Atlantic. This is upon the supposition that second, and needing for its course a inch depth of sait, and that the average

At a depth of about 3500 feet the temperature is uniform, varying but a ment, on the forbearance of earth- trifle between the poles and the equawould bring down the whole mighty reported that in many deep bays on the

Waves do not travel-that is, the water

We measure waves by their height In deep water this latter distance is about fifteen times the height of the waves. In shallow water the propor-

The force of the waves is in proportion It is maintained by some scientists to their height. It is said that the sea

is made fast to the line and a sling holds the shot on.

water is difficult. A shot weighing

thirty pounds carries down the line.

When the bar, which extends below the shot, touches the bottom, the sling and then paralyze it; to increase the month, that have cut ears, to enter unhooks and the shot slides off. The action of the heart and then to bring it their bench shows. cup in the end of the bar holds some of the sand, or whatever may be on the bottom, and a cover shuts over the cup to keep the water from washing the sand out. In this way we learn the

character of the deep sea bottom. It will be seen at once that we can know the depressions of the bottom of the ocean more easily and more accurately than we can learn the elevation of the land. As a consequence we have a better topographical map of much of that surface than we have of the conti-

The depth of the sea presents some interesting considerations. If the Atantic were lowered 6564 feet it would be reduced to half its present width. If it were lowered a little more than three miles there would be dry land all the way between Newfoundland and Ireland. If the Mediterranean were lowered 660 feet, Africa would be joined to Italy

### A Juvenile Martyr.

Among the waifs of the London streets whom Dr. Barnardo has been enabled to rescue is a little girl of whom the philanthropist gives the following history: "A little girl, named Peggy, nine years of age, was received a short while ago from a country town. Both her father and her mother were living. The father had suffered imprisonment that is, \$10 per 1,000 words. Many of twenty-two times for theft and for asthe articles, however, cost far more saults with violence. The mother had than that. There are some contributors | been imprisoned nine times. The siswho receive \$500 or \$1,000 for a short ter, of fifteen years, had been imprisarticle. They possess exclusive infor- oned four times. There was also a brother of fourteen at the very time the authority on cancer, and editor of undergoing his first imprisonment, the Medical Record, furnished us exclu- Well, what about this girl of nine? We city. The authorities are certainly resive information on that subject and on found that the child absolutely would sponsible for such accidents, as it London and is about to build an underthan an ordinary writer. Often a page every one of us. Here we have a girl similar plant is often made use of by underground; the rest will go through costs us \$500. Then, again, we run page after page at the cost of \$20. has never had any example all her life less. The symptoms are the same as Charlotte Harbor, Fla., is said to be won't steal." The father beat her; she was cruelly beaten by her mother. of stramonium seeds. The neighbors wrote to me, and said. on sales, but it should be remembered sent down and made inquiry. When after poisoning by belladonna, but the The largest organ in the world has adopted. Our contributors pay for that likes. She is no good to us; she have been known to produce poisoning, won't steal." We might have prosecuted the father. But we felt the simplest thing was to induce him to deliver be. A regular contributor, one who has and I have that little child to-day. She been buying volume after volume for is receiving a Christian education in a years can certainly be accommodated. village home, and her intelligence and

# The Wise Hostess.

ances through a coarse sieve." No given if the heart becomes very weak, The perfume it contained still had a guests should prevent this. As a clever very good reasons for administering woman in London once said, "I am them, never flattered at being asked to Mrs. 's camp." No woman should allow her house to be degraded to a from the wheat.

campaigner, who has nothing to talk of by the action of microbes, often occur but the dissection of character, who is within our bodies. to entertain.

Female typewriters abound in Wash-The pressure of the water ceases as ington, and find their profession very lu-

than 133 times the pressure of the at- THREE PUPIL-DILATING POISONS.

To get correct sounding in deep Characteristics of a Peculiar Group-The Symptoms They Produce.

Through this sinker a hole is bored, and through the hole is passed a rod of iron There is a peculiar group of poisons which moves easily back and forth. In the end of the bar a cup is dug out, and the inside is coated with lard. The far to arrest the secretions of the skin, to cent. stimulate the brain, causing delirium, and paralyze the ends of the nerves of to a stand-still. These drugs are belladonna (the deadly night shade), hyoscyamus, (henbane), and stramonium ("jimson weed" or thorn-apple). These all act alike, but vary in strength; the order in which they have been named being that of their destructive qualisame extent as opium, and induce sleep she will dive in pursuit of fish.

The symptoms produced are alike. and are as follows, when given in greatest density of population, the ing, dizziness, indistinct or double vis- and the minimum of pauperism. ion, delirium, great excitement, convulsions followed by stupor and uneonsciousness. The pupils of the eyes are fever; the eyes are fixed and brilliant; the gast is tottering; and the delirium is such as to cause silly talk and frequent bursts of careless laughter. The active principle, atropine, is an ex- ly out of place. tremely powerful drug, producing the doses. Poisoning may result from appenetrable by missiles fired from any plying a belladonna plaster to the skin, especially if the surface is broken. Most cases of belladona poisoning result from mistakes in prescribing or administering remedies. Its use by

criminals is rare. less swallowing of its seeds is not at all uncommon. Scarcely a year passes but some child dies from this cause in the employed by the professional thieves in this country is done with preparations

and the same may be said of the "jimson weed."

A hostess should, of course, exercise phine may be given cautiously on aca wise exclusiveness, such as Lady count of its action being opposed in Palmerston described when she said she most particulars to that of these "passed Lord Palmerston's acquaint- poisons. Coffee and alcohol should be her guests carelessly. The very respect coal and tannin have been given, al- than 3,000 years old. which she owes to herself and her though there does not appear to be any

# Poisons in Food.

We are hearing a good deal of late camp. One should winnow the chaff about poisons in food containing protein compounds, such as the casein of milk A lady in entertaining has to remem. and the myosin of lean meat and fish. ber always to invite those who are con. The protein compounds are prone to degenial. No one in this country can cay—that is, to be decomposed by the ingredients, he could scarcely believe afford to make her parties either politi- action of the ferments called bacteria or his ears when the reply was given: "Oh, cal, musical or literary exclusively; but microbes. In certain forms of decompoone should have a general idea of sets sition substances of a more or less tion proved this to be true, the lower and of their tastes, and of who would poisonous nature, called ptomaines, are order of Mexico thus utilizing the young like to meet whom. Especially is this formed from protein. It appears to be scorpions, which are dug out, hundreds important at a breakfast or a dinner, in this way that poisonous compounds in a nest, their sting being cut off bewhere the guests must sit and talk for are formed in cheese, meats, etc. While fore cooking. two or three hours together; there is no the true digestive ferments, such as the such ordeal of agreeability. To invite ptyalin of saliva and pepsin of gastric a vaporous, airy, foolish woman to sit juice, are very different from the fernext an Oxford professor, who has a ments just spoken of, yet microbes specialty on which he wishes to talk exist in the digestive apparatus of even and which she would not understand, the healthiest people, and within a ing the Russian language, a permission is to make them both miserable. To short time past it has been found that which has already been formally granted ask a young poet to sit next an old poisonous compounds, formed probably to the Austrian officers.

given to social parboiling, is to make | The natural inference-it is not posiboth miserable and will ruin one dinner tively proved, I think—is that there may at least. To ask a busy politician to sit be cases in which the protein of certain | Chicago, thinking an overcoat arranged next an abstract philosopher would not kinds of food is thus transformed into be half as bad. Therefore a woman injurious substances while passing has much to consider before she begins through the alimentary canal. Perhaps this is the reason why certain persons cannot endure milk without pain or \$150,000. There are only two manufactories of tape measures in the United States—the principal one at Brooklyn, N. Y., and in the light of future research, be in the light of future research, be attributed to such fermentations within

> Charles Little has been arrested in Indiana for stealing a monument

### OUT OF THE ORDINARY.

The great sheep-raiser, Mr. Mitchell of Elko, Nev., will have a wool clip of 50,000 pounds this season.

It is claimed that the use of electriwhose action is to dilate the pupils in- city in the deep mines of Nevada has stead of contracting them, like optum, increased their productiveness 25 per

The London Kennel Club has demotion; to stimulate the spinal cord cided to let no dogs, born after this

Two billion dollars are invested in dairying, more than the value of the country's banking and commercial interests combined.

A cat kept in a swimming bath at Albany is said to be an excellent swimties. They allay pain, but not to the mer, and to like the water, into which

Belgium, of all nations, has the

poisonous doses: Heat and dryness of largest diversity of occupation, the the mouth and throat, nausea, vomit- most uniform distribution of wealth It is said that the belief that the

Eiffel tower causes thunder-storms is dilated to their utmost, and light does becoming an article of faith in Paris. not affect them. The face is reddened Never have thunder-storms been so with eruption similar to that of scarlet frequent there as in the last fortnight.

A bear that helps himself to trout from a pool formed by a dam in a brook is the extra inducement offered berries, root and leaves of belladonna at a Catskill summer resort, where, of have each caused fatal poisoning. The course, a sea serpent would be entire-

The British naval authorities believe same effects when taken in very minute they have secured plates absolutely imgun at present invented. A plate ten inches thick is being cast for experimental purposes.

Her majesty's steamship Pallas, 2,575 tons displacement, having engines of Stramonium, or "jimson weed," is 7,500 horse-power, to develop ninesuch a common plant and accessible to teen-knots speed, and with an armaevery one that poisoning from the care- ment of sixteen quick-firing guns, has just begun in England, to be finished in 1891

Paris is following the example of

for him. But just then his dim eyes fell upon the precious promise "And Lo, I am with you always, even to the end of the world," and he thanked God end of the world," and he thanked God spring to come."

"What is die, grandpa?"

"What is die, grandpa?"

"It is sleeping in the ground, deary, just as the seeds do, and waiting for end of the world," and he thanked God spring to come."

"What is die, grandpa?"

"It is sleeping in the ground, deary, just as the seeds do, and waiting for spring to come."

"And but the vicious example of crime, who has breathed nothing but an air of likely that some of the "drugging" in ing over. One day recently fully thirty thirty thirty the professional throat in the professional thro ning over. One day recently fully thirty pounds of fish jumped out on shore and were picked up by a citizen. Henbane (hyoscyamus) is poisonous There was one fifteen-pound redfish "The girl is being slowly tortured to in every part. Leaves, roots and seeds three five-pound snooks and five jack-

dose required to produce such results just been constructed by the Messrs immediately, "Anybody may take her is much larger. Twenty of the seeds Hill & Son, of London, England. It was made for the Town Hall of Sydney, New South Wales, at a cost of \$75,000. The treatment of poisoning by any of The instrument has 126 sounding stops, that child wholly to us, and this he did, these three plants is to remove all that and posesses the extraordinary novelty may remain in the stomach by the most of a pedal reed stop of sixty-four feet prompt and effective emetics; in case sounding length. The wind supply is these do not act, the stomach tube maintained by a gas engine of great

ous materials that may have passed be- The Egyptians have always been recyond the stomach. As there is no ognized for their ability in the manutrustworthy chemical antidote, mor- facture of perfumes, but due credit was never given them before a vase containing some Egyptian ointment was opened at the museum at Alnwick. woman who entertains should invite as shown by the pulse. Animal char- pungent odor, although it was more

# A Curious Dish.

A curious dish was prepared the other day for a British traveler in Mexico. The attendants served up an omelette and the servants partook very heartily of the dainty morsel, but the traveler mistrusted the food, owing to certain black particles mixed therein. Inquiring as to the nature of the suspicious

-It is said that the Russian government has at length agreed to permit a certain number of German officers to reside in Russia for the purpose of study-

-Morris Luttin, a seven year old, during a discussion with another juvenile about flying machines, jumped from the second story of the Pullman School, as a parachute would stave off dauger. Morris escape 1 with his life, but broke his thigh.

A Boston weman who invented a shoe sewing machine sold the patent for

A Circinnati girl is said to have eaten twenty-seven dishes of ice cream in one

Tam O'Shanter crowns of velvet or silk, are put in ladies straw hats and considered very novel.

Reefers and blazer jackets are made in silk, serge or fannel and are the fav-