THE PAGES OF THE PAST.

In the volumes of my memory, I hold those chapters

dearly

Wherein names I've loved and cherished are inscribed
from first to last;
And I never read these chapters very audibly or clearly,
For my heart beats all too quickly o'er these pages of 11.

Here's the little dog who bit me in a fit of puppy glad

In my days of early childhood, when that little dog was dear. To my grief ho fell a victim to parental dread of mad-

And still his fate demands from me the tribute of a

111.

Here's my little schoolboy lover, with his water-spaniel

Hover,
Astride his pony Fidget, with his satchel bug of green,
Did I love the dog and pony heat; or really love the Why nak ! He died in India in the service of the Queen.

IV.

Here annother buried treasure—my own faith in buman kindness.
It died hardly, I remember, but die it did at last, I clung to it with passion, and I wept its loss to blind-

I view its grave with sorrow in these pages of the past VI.

Here the parents who departed, full of years and grace and honour:

and honour;
Here the galiant sailor brother drowned at sea in manhood's prime.
Here the little sons who left me to return to God the

nonor In safety through Eternity while I'm wearying through time.

منتبيث والإشهها والسوامات THE TELEPHONE OUTDONE!

STARTLING STRIDE OF CIVILIZATION -- A WILD DREAMER'S DREAM -- THE TELEOPTISCOPE WHICH REPRODUCES BY TELEGRAPH A PER-FICT IMAGE OF A PERSON OR OBJECT THOU SANDS OF MILES AWAY.

"Why, the mighty discoveries and applications of natural sciences which distinguish this nineteenth century, my boy, are as far short of the tremendous achievements of the future, as the narrow, barren life of that handful of plucky pilgrims on Plymouth rock was insignificant compared with the numbers, wealth and civili-zation of the American people to-day! What we have thus far accomplished is nothing but a germ, a latent possibility, a potency whose largest work and development will go infinitely beyond the wildest imaginings we dare to cher-

And the professor resumed the languid and meditative manipulation of his post-prandial toothpick; while the Ralletin reporter, to whom this oracular prophery was addressed by his recentric friend, in a corner of their accus-

tomed dining place, encouragingly responded:
"But you don't really look for any new
stride, immediately, do you? Civilization advances, not steadily, but by jumps, and at long
intervals. But it's scarcely a year since the
telephone was first talked of."

It is unnecessary to remark that the previous conversation had been upon science in general, and telephones in particular.

"Yes, to tell the truth, I do," was the hesitating answer; "and I rather hope to point the way navself.

Interrogatively, carnestly and attentively.

Dreamily, yet convincingly. "Do tell a fellow.

"Well, there can't be any harm now, I s pose, though it is not quite perfect. I don't know as I care to profit pecuniarily by the invention myself; but I do want the honour of it. I must complete it alone. I can't divide the work with any pirate. However, I can tell you the general object and method without teveling the unperfected secrets of it."

"Good fellow! Go on! I'm all attention."

"I believe that the telegraph wire can be made to transmit light as well as sound; that we can devise apparatus that will produce, at a distance of hundreds of thousands of miles, a perfect eidolou-

" Eulolou ? What is an eidolou?" "Well, an image then. A perfect image of any person or object. We shall be able to see as well as hear our friends, no matter how far away. Distances will be practically annihilated."

rtosy forbade any expression of the listener's incredulity; but he could not repress a

"You may laugh! He laughs best who laughs at last! The theory is very simple, though, after all.

"Light is only one form of force. sound; so is heat; so is electricity. If the vi-britions of the one can be conducted by solids for any distance—that is, if a molecular motion can be started at one end of a wire by one ef them, which is transmitted to the other, and is

there appreciable—so can another. And——"
"Hold a minute," said the reporter, who was

an amateur scientist himself.

"You must remember that there are good and bad conductors of electricity, good and bad conductors for heat, good and bad conductors for light. A telegraph wire may conduct the vibrations of electricity any distance; but light can't go through opaque matter a hundredth part of an inch. Besides, light can't turn a corner as electricity can.

"Not so fast? Suppose we do not transmit

operate delicate telegraph keys, just as the vibrating diaphragm of the telephone does? See! The sound which comes out of a telephone, so to speak, is not the one that went into it, but one exactly like it. So with the image that will be conveyed by the Teleoptiscope."

"The what ?"

"The Teleoptiscope. The name is a little redundant, but it will do until I get a better one."
"All right! Go on!"

" Of course I need not explain to you that in ordinary telegraphing the electric current from the battery goes through the operator's key, the miles and miles of circuit wire, the receiving office's sounder, and then down into the ground; and that the opening and closing of the key by the operator's hand, at longer or shorter inter-

vols, is exactly imitated by the ratiling of the sounder, hundreds of miles away." Yes-1 understand all that."

"Sound is made up of a series of vibrations. The higher notes are composed of more rapid vibrations; the lower notes of slower ones. Each vibration of sound as you talk or sing into a telephone opens and closes a delicate key, breaks and restores a telegraphic current, and excites a corresponding vibration in the re ceiving instrument, which is magnified, so to speak, and made audible. If the sound is pitched high the sound ex ed at the other end must exactly correspond; if low, the same. And this, no matter how many corners you turn.

"Now light is not a fluid, as we used to think, but a series of like vibrations with sound, only more rapid. The different coloured rays, as we call them, are only different rates of vibration. The scale of colour is only a graduation of rates of velocity, just as the scale of sound is. If, then, a medium sufficiently sensitive can be made to vibrate under light, just as the diaphragm of a telephone does under the sound of your voices, electricity will register, convey and reproduce those vibrations at any distance."

Our reporter looked more serious and seemed to be impressed, and after a few moments' si-lence, inquired if the professor had arranged any apparatus yet that would do the work, and

how it looked.

Well, I can't answer you squarely. I have not accomplished as much as I wish. But you've got the theory and now I'll tell you a

little about the practice.

"I shall have an instrument that will look like a photographer's camera. The ground wire or battery wire will come up through the bot-Out of one end will go the circuit wire. At the other end I will arrange a huge flaring hollow cone, say four or five feet in diameter, black on the outside, and lined with highly-polished mirrors. Before it I will have my asel, if I want to transmit a painting, or the platform and chair if it be a person; and over-head I will arrange for as intense a light as pos-The image, greatly diminished, will be thrown by reflection and refraction into the interior of the camera, and full upon the surface of a cup of transparent liquid, the reflection and refraction carrying it from underneath. The composition of this liquid will be one of the great secrets of the device. But if you will remember that all our aniline dyes, of whatever colour, all come from the same basis, and that photographing in colours has already become a fact in London, you will be prepared to believe that a liquid may be found sensitive enough for my purpose. The vibrations of this liquid will make my telegraphic connection, and the wire will carry the impulse thus imparted. At the other end of the circuit, maybe a thousand miles away, there will be a somewhat similar instru-ment; the process will be reversed, and the flaring cone of the receiving camera will throw out an image upon a screen in a darkened room, something like the picture of a magic lantern.

"I'm not going to tell you what I think about the practicability of all this," said the reporter. "It isn't safe for a man to prophesy, now-a-days, that the most visionary scene under heaven won't be realized. But another serious

difficulty occurs to me.

When a telegraphic message is sent, the dots and dashes go in succession, not simultaneously. One is out of the way of the other. So, t.o, with the telephone. One vibration So, too, with the telephone. One vibration keeps ahead of the next. But your Teleophti-

graph"—
Teleoptiscope Bor pardon - teleoutiscope will be obliged to convey all these innumerable vibrations, sont off from a thousand different points, simultaneously. Won't they get jumbled slightly? Will they know enough to arrange themselves in the proper relation at the other end, like the particles of a crystal ?".

"Oh, I've thought of all that, long ago. And that's what makes this invention, scientifically if not practically, a far greater one than the telephone. The difference in the way in which that part of the brain which we call the sensorium receives the impressions of sight and hearing is very marked. Yet science ought to be able to imitate the one process as well as the other. And

I think it can.
"Now, in the first place, you must remember that the telephone does transmit different rates of vibration simultaneously. Let a chord be struck on a piano, and all four notes, vibrating at different rates, will be transmitted precisely, and you will hear that same chord, all blended, at the other end of the wire. They don't interfere with one another a particle. Then, too, we have what we call a quadruplex telegraph the same rays of light the whole distance, but make the vibrations given off by any object instrument, by which four messages can be sent

simultaneously over the same wire, and each message separates itself from the other three, and switches off on the right branch at the receiving office.

" However, wonderful as are these operations, the separation and proper combination of the impulses sent by the Teleoptiscope is infinitely more miraculous, not only in extent, but in character. The separation of the four messages of a quadruplex instrument is accomplished by what electricians call a resistance coil. Such a device would be altogether too cumbrous for my

"The end of the circuit wire in my camera directly over the image on the surface of the liquid, is composed of a bunch of fine platinum wires, over two thousand in number, each carefully varnished to insulate it, and the whole brush being cut off even, so that each point is equi-distant from the liquid. Of course the distance between the brush and the liquid is almost inappreciable, as only the most delicate vibration of the liquid can be effected. You can easily see how the transmission of these several thousand vibrations through the main wire is induced; and can also see how the number, size and arrangement of the platinum wires in the receiving instrument would entirely preclude the use of the resistance coil. I have been obliged, therefore, to devise an entirely new and vastly more efficacious distributing apparatus. And this I regard as an even greater invention than the combination of my sensitive liquid.

"Such an instrument would have a pretty wide application, if it were once invented," rethe reporter, musingly, after another brief lult in the conversation.
"Still skeptical, eh? Well, just wait and

see! My, yes! It will have both practical business uses like the telegraph and telephone, and sentimental and asthetic uses beyond computa-The first great application will be made by the press. Photographs of actual events, parades, processions, coronations, inaugurations, battles, disasters, architectural work and decorations, new pointings, seenery, dramas, distinguished personages and so on will be sent instantaneously from all quarters of the globe, and we shall have a pictorial daily newspaper instead o one simply containing reading matter. Then the churches and halls of congress, concert rooms, theatres, and all places of public instruction and entertainment will be connected with our homes by the district telegraph. Everybody can be cognizant of great and public events, and see them as they really happened. People can not only visit with their acquaintances and dearest friends by the mediums of language, fellowing every tone, inflection and shade of feeling in the voice, but can see the familiar lineaments, the state of health, the marks of age, the smile, the frown, and every minute shade of facial expression which reveal the individuality of the distant one. Art culture will be immensely facilitated. All the great paintings and statuary of the world, and all the magnificent architecture and natural scenery that is accessible to human enterprise, can be copied at an insignificant cost, and placed within the reach of everybody. Locometion will soon be almost unnecessary, and people will use carriages, street-ears, milroads, stages and steamship lines for sear ely anything more than freight tranportation. Illuminating gas will be done away with, too. Instead of sending gas through pipes corporations in the illuminating business will manufacture light at the central establishment, and dealit out to us by telegraph wires: if not in our homes, certainly on the streets and in public buildings. Indeed, the imagination cannot begin to grasp the awful possibilities and the promised revolutions in our every-day life and business methods thus opened up. don't let me keep you if you're in any hurry !"

"Well, we'll talk it over further some other other time. You've quite taken my breath away for the present. Meantime, you wouldn't object to some little mention of it in print, would

you?" No--I've concealed the essential points; but I don't want my name used vet."

" All right; however, I shan't speak of it as a fact, but a fancy, as yet. You know the world won't believe it until you get it in actual operation. It would be better to lead up to it gently.

"As you please; but no names, remember.

Honour bright."
"Honour bright. Ta, ta!"
"Good-day!"

THE GLEANER.

Tur Shah of Persia is shortly expected in

THE ex-Queen of Spain, Isabella, has taken a house on the banks of the Thames, near King-

MR. STANLEY's book will be illustrated by great number of photographs taken by himself during his little trip.

A MAN in Kentucky devotes the yearly product of one acre of his farm to purchasing reading matter for his family.

Mr. Spungeon is at Mentone, where he has been ordered to remain in absolute rest for at least six weeks.

BENJAMIN FRANKLIN, in 1789, left \$5,000 for a fund to make loans to young mechanics. The fund is new \$200,000.

MARSHAL CANDOBERT has received from King Humbert a magnificent portrait of the late King Victor Emmanuel.

A TELEGRAPH Congress is to meet in London in July next, for the purpose of agreeing upon a uniform international tariff for telegrams.

IT is intended to place a telephone under the Atlantic, so that oral communication may shortly be held between Wales and the United

Ir is expected that the Prince of Wales will arrive in Paris some time this month, and that he will make an inspection of the works of the Universal Exhibition.

A FASHION paper at Baltimore says: "Gail Hamilton began losing her hair, but by persistent annointing of the parts with raw onion, not only arrested the process, but has produced second growth of quite a different and slightly reddish colour.

PROF. DANA, the eminent American geologist, is quoted as saying of the first chapter of Genesis: "Examining it as a geologist, I find it to be in perfect accord with known science; therefore, as a Christian, I assert that the Bible narrative must be inspired."

HERR SIEMENS, the inventor of toughened glass, believes and boasts that he has now discovered a method by which glass broken only under enormous pressure can be manufactured. If this process is cheap, he will probably find a

DURING the Paris Exhibition, under the auspices of the Central Commission it is proposed o establish two powerful electric lights at the summit of Notre Dame, so arranged as to illuminate the public buildings for a great distance round.

At the Stanley lecture, the Prince of Wales is said to have asked Midhat Pasha if he had found the discourse interesting. The answer is said to have been, "We Turks have more need now than other people to take an interest in expeditions into unknown lands, since we may soon have to seek among them for a home."

HOBART PASHA will resign his command, and there is every probability of his receiving a high post in the English navy. His knowledge of the Turkish waters would make him a valuable acquisition to the Admiralty should hostilities break out. Colonel Baker, we hope, will also be restored to the service of his country, for he also has had his experience, and shown splendid qualities.

ARTISTIC.

A MONUMENT to Ledru Rollin in Pere La Chaise was unveiled recently. MM. Cremioux, Vio-

Ir has been decided that the Salon shail is main open a month longer than usual this year, so as to give all the visitors to the great Exhibition an opportuuity of seeing it.

Ir is proposed to place a bust of the late George Cruikshank in Westmioster Abbey, or to erect a memorial in St. Paul's Cathedral, should the requisite funds be forthcoming.

It is announced that Mine. Thiers will present the wonderful portrait of her illustrious husband, by Bonnat, to the State. It will be placed—we hear—in the Euxembourg Palace Gallery.

HUMOROUS.

I will never purchase lottery tickets so long is I onn hire a man to rob me at reasonable wages

"CLERGYMEN," remarks an exchange, "like railway brakesnen, do a great deal of coupling." Ay, yes; and then the coupled ones do all the switching. SomeBony will have to devise a quicker way

of taking off an umbrella and putting on an ulster, of there will have to be a weather reform, that's all.

You can get a very good idea of "natural selection" in its practical workings by viewing a celery glass after it has been once around the table. "WHAT is enthusiasm?" asks an exchange.

"Why, my dear fellow, it is that degree of pleasure a man feels when he has the boy across his knee, who hit his "plug hat" with a snow ball." A SIX-YEAR-OLD, who was found putting him-

self outside of various good things at a rapid rate just after complaining of inward griping, explained to his wondering parent that he "didn't mean to leave any room for that stomach ache." WHEN they get telephones in the hotels, it

will refresh the weary traveller who is sent up to the fourth floor, to sit down quietly and impart to the clerk down in the office his private opinion of that functionary's THE man who comes to the depot two minutes belind time, and sees the railroad train sendding out at the other end, derives no satisfaction from the proverb, "Better late than never."

A young lawyer, who had been admitted

who is a year, was asked by a friend. "How do you like your new profession!" The reply was accommanded by a brief sigh to suit the occasion: "My profession is better than my practice." A Ton cat is a more independent animal than

man. When a man comes home at 2 or 3 o clock in the norming he slips in as quietly as possible, but a Tom cat den't seem to care. The later the bour, and the nearer the bouse it approaches, the louder it will yell.

Our in Dakota, the other day, a stage load of passengers were competted to hold their hands above their heads while a gang of highwaymen robbed them. One of the victims, who remarked, "This is a high-handed piece of business," was allowed to keep a watch for his humanr.

As several shiftless citizens have so far failed to clean their walks down to the dagging, and as this course will certainly result in slippery places and much fallon humanity before spring, we are moved, in the inserest of morality, to suggest that "Thunder and molasses" is a term that may be made to express the feelings of the most severely humped individual, while it is free from the flavour of profunity apt to be found in expressions used by people of hasty temperaments suddenly brought to grie". As several shiftless citizens have so far failed