

AN EXCELLENT ILLUSTRATION OF THE WAY OOM PAUL'S MEN

PROGRESS OF THE CENTURY.

By Malcolm J. Bichards, Ph. D.

When one gives a moment to the contemplating of the wonders that have been achieved by himan investors dur-ing the hundred years that have conmind naturally reverts to the telephone and telegraph, for, of all the inventions few have been of more importance to the world. The progress in the matter of material speed has been immense but how much greater has been the in-

crease in the speed in thought'
One hundred years ago the means of
communication between persons was
limited to the crudest form of mail service. Even pany toostage was not invent I until the year lyte, when Row-land Hill introduced that system in England, and prior to that time the

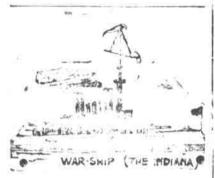
prisonary to create and discovered that the extraction of the put, and from that day the art of communication has progressed by leaps and bounds.

It was in 1837 that Morse gave his

graph instrument to the wight. It was clumsy affair enough. The electromagnets used in its attention weighed pounds, the internal be a title of the delusion that the wire used in winding them must be of the same size as that.

The state

The story of the difficulties that he-Bet Morse in his effects in possuale Congress to mission the \$20,000 to en-



able him to constitut a trail line is a matter of national history. People laughed at the insention and they declared the inventor crazy

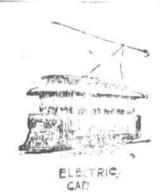
The idea that some could be annihilated in men a way was too preposter-ous to be eredited for an instant. In work, and in 18% the first message, "What bath God wought" was flashed over the wire from Baltimore to Washington. The inventor had triumpled and this anyme enough of the human race was made possible.

THE TELLICITY OF

Althouse ment was comparatively speaking a ment was comparatively speaking a success, the present fine-wired, compared and socialise electric-rapagists, welching the electric rapagists, been discussed in the last measure of the contraction of the

fine for the second of the late, whereas to be a second friend and the Part A company to the State much than an in the limit mes-

municate from one end of the continent



to the other suggested english possibillities to the mines of the inventors. Opposite shows of the same hard had was the water that separated the lands,

waves, and for a time type fact proced

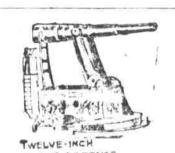
The incoming that poles might posessibly be discounced what and that make lated was required and along the floor of the mean was show in suggesting tiself, but the day is a 1 --- on In 1/3 a submartur cable will had from Dover

It was at the till that Gyens Field evolved for heart their given on the hear has the second of the hold of a greatest of motor was a war words to be the last to be the second of the seco occups of all hands here.

The consideration of the telegraph and cable naturally suggest their rounger brother, the telephone. As far nick as 1867 Robert Hook was experimenting in the belief that it would be possible for him to discover some means of conveying sounds by the use of wires and wooden rods, but it was not until 1876 that the telephone in a useful form was evolved. The dest apparatus of a fairly useful to the service was introduced to the Patent one by Alexander Graof to-day minus the improved trans-mitter and with the chief parts some-

what differently arranged.

Refore Bell, however, the telephone had been often anticipated. Slook's idea had probably come from India, where it had long before been known

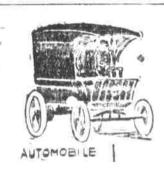


that if two diaphrasms were connected, by a light cond or wire sound intro-duced in one would be transmitted to

1831 Whertstone succeeded in showing that Hook had been correct in his principle that sound ways could be transmitted from one place to another, to a moderate greater to be ins of wooden rods, and afterwards be conveyed to the ear by the vibrations given to the air at the end of the rod. All these experiments, however interesting they may have been, were not practical, but when Bell and Ed son appeared to the control of th the problem of voice communication was solved.
To describe the steps by which this

invention has been improved a to di-late upon its commercial advintages a add be useless. The advent of the long distance telephone alone has been an inestimable advantage, but it these as they ments have to not the ent date that the successes are mi ters of

current knowledge. WIRELESS MESSAGES Such have been the results ? nineteenth century achievement along the lines of long distance common ation; but, great as they have been, there is every reason to believe that it next quarter of a century will with as inventions so radical and impressioned so great that the methods of communicotton of to-day, great as they may seem to us, will stok not beren -ance. When Marconi, a short time in es-tablished the fact that wireles telegraphy was within the realm of proba



billies the world outsided above a new gra of invention, and the solution of the problems of rapid to 2 a, its and the transmission of the mix by who will be two of the great in some a that will make the stand tury memorable,

I of no word and the second of the Impaly that these results have not yet been attained of consise there can be no a terminable that the second of the secon

inventions are true of less in the ex-perimental stage. The results promising as they are each scattery be re-garded as more than successful trials of the new inventions, and it will remain for the twentieth century to witness the development that vall make them of incalculable value to the world.

There is every probability that these results will soon be realized, but however such they may be attained it will be hopestable to robotic a pelcenth century of the credit for having given such wonderful achievements.

INDIA'S EDUCATE CLOWERS By far the most seem gaths of plants that produce odds "covers is the "top to stee of halo the bloss as during the hot menth - the year are the chief means of sate of their first and other hill to the of the interior. Under the old Million and rule, it was a common placts. In rat flown the buffer trees in the country of the lines so as in addict these cauters people and bring them to strict A xon tree yields several hundred as-EGILES FACE 2 have been their with an even-Femally the conduction

ernament size. In Dr. - contribute

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CHOCOLATE CREAM.

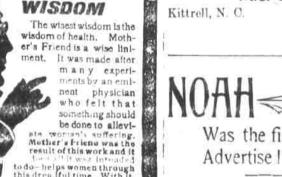
Put four ounces best chocolate into a same pain with two ounces of castor stand and half a teacupful of water, place the saucepan over a slow fire and stir with a wooden spoon until dis-solved, stir in gradually one and a half minutes. Beat the yolks of four s and the white of one. Take the eggs and the white of one. Take the mills off the fire and mix in the leaten eggs, stirring well, then pass the whole rggs, storing well, then pass the whole through a fine hair sieve. Fill some them in a saucepan three parts filled Take them out of the pan, dust some castor sugar over them, and when cool place them on ice until

ingledients.—Four ounces of choco-late two ounces of castor sugar, one and a half pints of milk, the yolks of four eggs and the white of one.

PHEASANT A LA CALVE Stuff a pheasant with force-meat as follows: Peel haif a pound fresh truf-tles, chop them and pound them in a mostar with three ounces of bacon fat. Eab the pounded mixture into a sawe-pan and stir over the fire until hot through, then turn it into a basin and let it get cold, and season to taste. Stuff the old with this and it possible, leave it for a day to absorb the flavor of the tentiles. Whap the bird in stores of bacon, with a sheet of buttered paper round, and roast, keeping well basted. When cooked place on a het dish, pour found it a good brown gravy made from the grizzards, neek, ste, and serve ga-nished with truffes and potato cro-

Ingredients A pheasant, half pound es of tacin, good brown gravy, poto exogneties

6



result of this work and it to do helps women through this drea fult time. With it, she need fearnothing. It is for external use, and by its worderful penetrating prop-erties no strengthens the muscles to bear the strain at there is almost no pain. Get there friend at the drag store. It a bottle. THE BEADTIST D RESULTER CO. Atlanta, Ga. Write for our free Illustrated book, " Be-fore Haby is Born."

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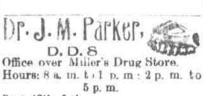
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all sorts of Rope ring on same, at haladsetery prince, and we work turned out from our neembers Our MR IT to F HAY tidd by relien was to to cooling

section, we has consumated by an and the first out to ment. Same old stand. I has S', opporte Bart to barch.