

The Mission

Of those corpuses in your blood that have been called "Little Soldiers," is to fight for you against the disease germs that constantly endanger your health. These corpuses are made healthy and strong by the use of Wood's Sarsaparilla.

This medicine is a combination of more than 20 different remedial agents in proportions and by a process known only to ourselves and it has for thirty years been constantly proving its worth. No substitute, none "just-as-good."

On a Pinch.

"For the present," said the political magnate, "you will have to be satisfied with filling some temporary vacancy from me to time."

"I'll be more than satisfied," faltered the despairing office-seeker, "with anything that will fill the vacancy in my stomach from time to time!"

FITS St. Vitus' Dance and various spasms persistently cured by Dr. J. J. Lee's Great Nerve Restorer. Send for FREE 25¢ trial bottle and treatise. Dr. R. H. Kline, Ltd., 931 Arch St., Philadelphia, Pa.

Stung!

Nan—The trouble with Billy is that he's awkward when he's in company. He doesn't know what to do with his hands.
Fan—Oh, yes, he does; he told me once that you were too many pins in your belt.—Chicago Tribune.

TYPEWRITERS "New Visible Year." All makes rebuilt like new, at second-hand prices. Two Smith-Dens-R machines from \$25 to \$45. Supplies for all makes. Machines rented, \$2 to \$3.50 monthly. The Typewriter Exchange, 25 Montgomery, San Francisco.

Looked Suspicious.

Captain (of baseball nine)—You think Stumpy is getting sort of weak in his mind? Why?

Manager—He renewed his contract for this season without making a kick for a higher salary.—Chicago Tribune.

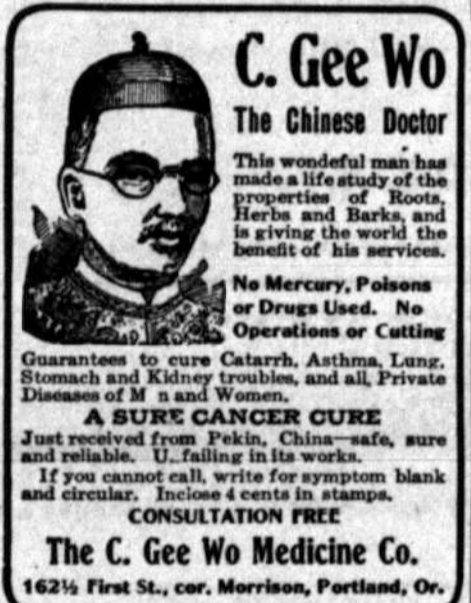
Mothers will find Mrs. Winslow's Soothing Syrup the best remedy to use for their children during the teething period.

Sure.

"What was it Priscilla said to John Alden?"

"You mean, 'Speak for yourself, John?'"

"Yes; what did she mean?"
"I don't know what she meant, but I know it must have been before she and John were married that she said it."—Houston Post.



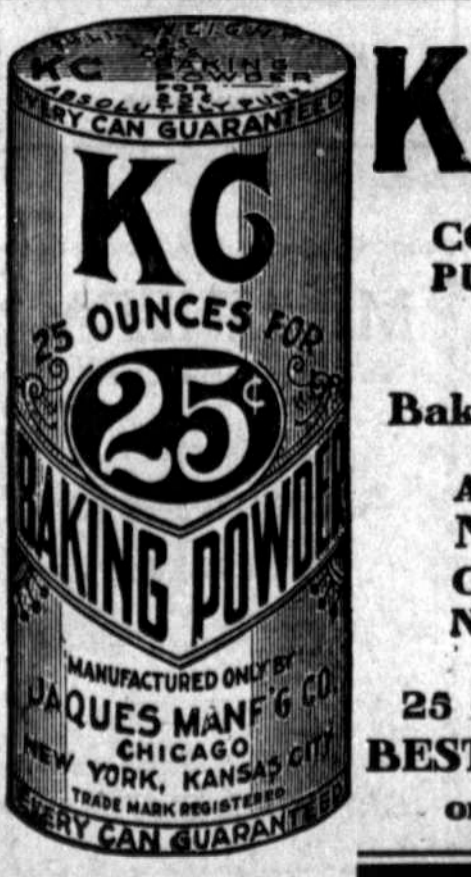
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MANY TAILORS DECEIVED.

More than 1,000 Exclusive Samples Get Into the Wrong Hands
A piece of cardboard covered with square samples of woolen cloths for men's and women's suitings might not seem to the average man a valuable article, yet elaborate schemes to get hold of such sample cards are planned and sometimes carried through, according to the New York Sun.

A couple arrived recently at the best of the Philadelphia hotels and set out to visit all the leading tailors. The man wanted a winter outfit of a comprehensive character, while the woman was just as interested in accumulating a winter wardrobe of the tailor-made variety. Occupying large rooms in the hotel, there was no reason to believe that the two were anything other than they represented themselves. So when they gave the number of their suite in the hotel the samples were forthcoming.

After several days had passed without the expected orders the tailors began to send to the hotel for information. The answer returned was that the two had given up their rooms and left the day before. No samples were to be found.

The number of inquiries became so large that they were referred by the hotel there was no reason to believe More than 1,000 samples of cloth had been sent by the tailors to the couple. Investigation showed their purpose when in the Broad street station were found two wooden packages they had checked there, filled with sample cards from which the cloth had been torn away.

The couple had succeeded in acquiring possession of the best samples of the firms that deal in the high-class exclusive patterns. Of course, they will sell their patterns to the cheaper firms that endeavor to reproduce them.

Even a bolder effort to get the exclusive samples is reported from Chicago. There two men rented a store in which to open a tailoring business of a high-priced character and sent to the manufacturers for their samples. The samples were sent, but no orders ever came.

Later inquiry from the manufacturers showed that the firm had got no further in its career than taking the store for a month. Its object was plain when some of the best designs were turned out by the cheap mills.

WONDERFUL CANYON IN WEST.

A Black Mystery, Which Man Has Not Yet Solved.

At the earliest possible moment Lieut. Robertson and I took his camera and tripod and silently stole away to the mouth of the canyon (in the Shoshone mountains, Wyoming). The two branches of the river came together a few rods above a great wall of bare brown rock, a hundred feet high, which really is a part of the southern side of Battlesnake mountain. Through a crack in the mountain about as wide as Nassau street, between perpendicular walls of bare rock, the river swirls and roars down eight miles of black mystery never penetrated by living man.

It is said that logs which enter the mouth of the canyon unscathed come out kindling below.
It is idle to believe or to say that the water has cut that canyon, for it has done nothing of the kind. An earthquake did it; my word for it. Had it been left for the river to erode, on its own hook, long before the pent-up waters had started a cutting through that flinty carboniferous limestone, the river would blithely have gone southward around the mountain, where the wagon trail runs, and found easy flowing, with no rock to excavate.

We went into the dark and gloomy mouth of the canyon, as far as any man may go, and soon were stopped by the lack of footing. Fifty feet farther on, the rift turned sharply to the left, taking the foaming waters along with it, and the view ended against a blank wall. Quite near the ultimate point we smelled, a strong odor of sulphureted hydrogen and other disagreeable gases, and looked about. Close at hand, under the foot of the overhanging wall of smooth rock, lay a little, innocent-looking pool in a basin no larger than a bathtub, which was the cause of the bad odors. Close beside it lay a dead porcupine and a dead magpie, both poisoned by these noxious gases. Elsewhere they would have been eaten long ago by coyote or fox; but there beside that deadly spring they lay, untouched.—Scribner's Magazine.

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Why Japs Talk Little.
"Do you know why the Japanese talk so little?" asked a navy officer, just back from a foreign station. Answering his own query, he continued: "Silence is bred in the bone. For ages spies, or cross-eyed persons, have been everywhere and over everything. They always go in pairs, so as to be spies over each other, and, as the violation of the law is death—death to the highest and lowest alike—we can well understand how the Japanese have been so obstinate in their conservatism, under a system of espionage which nothing can escape, coupled with a rigidity of law and a ferocity of punishment which no one can bend and few dare to brave."

The Supreme Test.
"You are all right," said the doctor after he had gone through with the regulation thumping and listening with his patient. "Not a trace of heart disease. Fifteen dollars, please!"
The patient drew a long breath and remarked: "I am sure now I have no heart disease. If I had, I should have dropped dead when you mentioned your fee."

"HELLO" PARIS.

Uniting France and America by Wireless Phone.

"Hello, Paris! This is New York." To start a conversation like this across the universe seems like an achievement beyond the dream of a Jules Verne or the imaginative picture of a Bellamy Storer, yet in the busiest city of the world, New York, such an experiment will take place shortly, with every assurance of success. On this occasion, when science announces its triumph to the world, society of the nations will offer its congratulations in a unique and unrivaled manner, and will feature on its social calendar a luncheon at which Frederick Townsend Martin will preside, that for interest and charm will make all past society events seem commonplace, when the first wireless luncheon will take place in the salon of the Hotel Plaza.

While this luncheon is being served a voice will speak uniting two of the greatest nations of history. It will be the voice of America's most prominent society man reading a message of President Taft to President Fallieres of France. It will be transmitted to Mrs. Nora Blatch DeForest in the Metropolitan tower, the talented pioneer of her sex in this field and foremost woman civil engineer in the world, who will receive this message from the Plaza and send it over a radio wireless telephone at the rate of 186,000 miles a second, to a fair daughter of France in the Eiffel tower.

The salon will be decorated to resemble a forest. Trees will be in full bloom and birds singing from their branches. Presiding at this table will be Mr. Frederick Townsend Martin who will be the guest of the American Wireless association of which Dr. DeForest is president. The guests will be leading society people and scientific men of note. Mons. Etienne Lianel, consul general of France, representing the French government and one of its guests of honor, has said that if wireless telephony is brought to a state of perfection it will become a political and diplomatic time saver.

The table will represent the Atlantic ocean. At one end will be the Metropolitan tower, architecturally raised in candy; at the other end will be the Eiffel tower. On this miniature ocean will be small ships of various nations sailing back and forth. The shore landings of both France and America will be appropriately represented. The menus will be small telephone directories, and the dishes will be listed as telephone numbers. The place cards will be wireless messages sent from the Ritz Carleton in France to the guests assembled at the Plaza in America. These messages will be received through wireless table phones permitting the guests at both tables to converse with each other, although separated by half a world.

The waiters will be summoned by wireless telephone and at the end of the evening will be called by this means. The favors will be small radio spark-light wireless telephone outfits of very light weight and will be utilized by the guests in the ceremonies attending the luncheon and carried away to commemorate the latest gigantic feat of modern science.

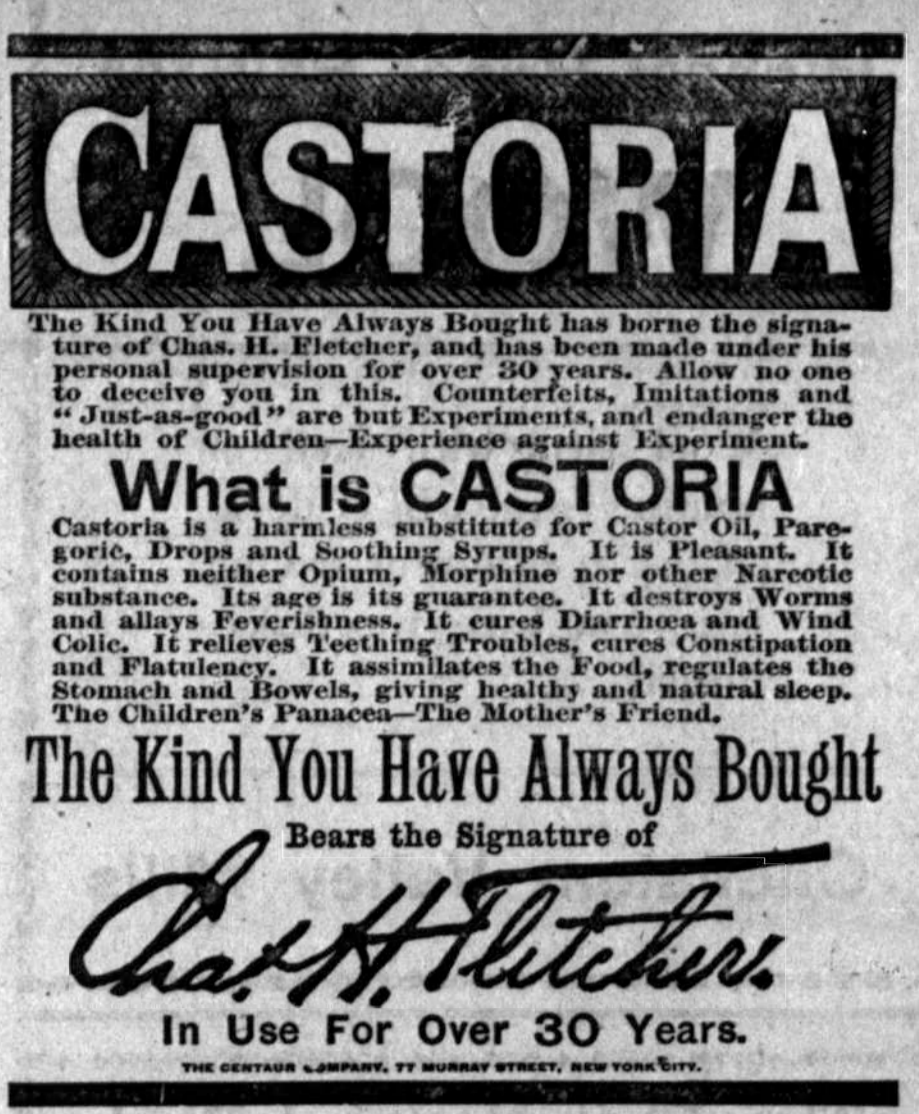
It will take just one-fortieth of a second for the message to travel across the Atlantic and about one-seventh of a second to go around the world. Following this, mutual toasts will be given by the guests of this wireless luncheon who will be separated by an ocean, yet able to converse as if face to face.

The value of this marvelous scientific and mechanical feat, can hardly be estimated, and will stand among the first half dozen scientific wonders of all time. Its effect upon the transmission of commercial business will be revolutionary, and will mean that we can communicate with Europe at the cost now prevailing for a domestic telegram.

The great station in the Metropolitan tower is now being rushed to a stage of completion. This will be absolutely the finest wireless station in the world. Its cost is not comparable to that of other equipments, as the station comprises all sorts of experimental apparatus. It is thought that \$300,000 would not cover the outlay if a structure as high as the Metropolitan tower had to be erected especially for its work. As long as the tower has already been constructed, the cost, outside of the apparatus, will be negligible.

The workings of the radio wireless phone are wonderfully simple when the complex problems involved and overcome in its creation are considered. In telephoning, the operator talks into the mouthpiece exactly as with the wire telephone and listens for a reply through a head phone instead of a receiver. In order to get into communication with a wireless telephone station, it becomes necessary to get the instrument to the known tune of the other station and then press the buzzer key which calls the person to the phone at the other end. The conversation is then carried on as if the two operators were face to face.

The mechanical principles upon which the radio wireless telephone depend are simple enough, although there is a great difference of opinion upon the actual explanation of the phenomenon of wireless telephony. Speech is the forming of very rapid and every-varying series of vibrations in the air, and their measurement by the nerves of the ear. Owing to the resistance of the atmosphere, these vibrations grow weaker and at last disappear as we get farther from the source of disturbance. Telephony is the art of translating these vibrations into vibrations of other whose lesser resistance enables them to be carried to great distances for the translation into air vibrations again, as only the air vibrations can be measured by the ear. In the wireless tele-



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phone the air waves are translated into the vibrations of an electrical discharge which oscillates the ether.
The ether waves, sent out by transmitting station, having been there modified by the human voice, are changed back at the receiving station into such form as to effect the receiver and cause the exact air vibrations which were made to modulate the transmitting current, and therefore, the words of the speaker are heard exactly as spoken.
Dr. DeForest bases his claims for success on his past experiments with the wireless telephone at the suggestion of Admiral Evans, who conducted the experiments on board his flagship, the Connecticut, and another vessel. Every battleship, cruiser or torpedo boat of the great Pacific fleet was equipped with radio wireless telephones before setting out on the memorable cruise. These instruments were given a thorough trial in inter-ship communication and in conversation with several wireless stations on the Pacific coast.

In the meantime, the young inventor has not been content to rest on the laurels obtained from his successful work in the navy and has carried on many experiments, both at home and abroad. In May, 1908, from the Eiffel tower, wireless messages were sent by the radio telephone to every wireless station in France. A warship off Marseilles, nearly 600 miles away, heard the transmitted messages just as distinctly as did the stations near Paris. While doing this, Dr. DeForest had equipped several of the vessels of the Italian navy and the instruments met with such decided success that an arrangement has been practically concluded for the equipment of the entire navy.

Mrs. DeForest is quite as interesting as her inventor-husband. She graduated from Cornell university in the difficult science of civil engineering. She was the first and only woman to graduate from an Eastern college in this profession. After her graduation honors were heaped upon her until she stood before the world as its foremost woman hydraulic engineer, and a remarkable example of woman's intellectual equality with man.
She was the first woman ever elect-

ed to membership in the American Society of Civil Engineers. She helped to build the greatest water works system in the world's history, being on the engineering staff charged with the building of the \$161,000,000 Catskill system. In June, 1907, she was elected fellow of Cornell university, an honor rarely conferred upon women. While at Cornell she proved herself to be the peer of any of the male athletes. She is a leader in the equal rights movement and various movements designed to improve the social condition of all women. And now she further distinguishes herself by being the first woman to engage in wireless telephony.

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