

Policeman equipped to instantly receive orders from headquarters without resort to a telephone.

ished his hearers by declaring that the his sleep. air was becoming so crowded with mys- Both the physician and the specialist the speaker continued. "We do terious, intangible forces that the problem visited the man's home. They prepared not know of any situation in of experimental science had become the to spend the night with him in an adjoin- our experiments which would avoidance of chaos.

The experimenter in the great laboratories goes his way not so merrily. The former is fascinated by the strange, unreal things he can accomplish—the weirdness of the results of his endeavors. The latter is alarmed by the potences of mysterious forces he labors with. Both are crowding the air. So is the scientist in the other laboratories where they are endeavoring to harness the explosive powers of the atom, or rather the electron. Both of these experts fear the contact of the forces they release with those of the great electrical engineer who, it is generally believed. is near to announcing his discovery of a means of transmitting electric current through the air without wires-a method which will do away with cables and serve to every user of electric lights or electric power his current in unlimited voltage from power house to his door without in-

tervening wires. "Mysterious agencies are required for the working out of all these experiments. These agencies are active in the air. We other room voices, music and other strange release them and do not know what be- sounds were plainly heard. comes of them when they have served our purpose. We do not know whether or not such a very prosaic thing as a daily marthey will be friendly to each other when ket report the physician suddenly laughed that even such a thing might happen. We they meet in the air or whether we will aloud. He recognized the "broadcastings" not at some important instant in some ex- from a wireless telephone station several perimenter's progress, release some new activity in the air which will go on a rampage and turn science topsy turvy-if not do something worse."

Two recent events, widely dissimilar in character, yet both having to do with overcrowded air and both startling, illustrate in striking manner the warnings of this

In Illinois a business man who had alkept awake by what were, apparently, psychic voices and strange snatches of

These noises, he said, began early in the ures" of the Church itself. night and continued for many hours. They were faint, but distinct and apparently were not mere ramblings, but weirdly understandable conversations, and the music he could recognize as popular tunes of the day. When he visited his physician he was haggard from want of sleep and complained that he could no longer attend to his business.

He was treated for insomnia and this treatment having no effect the physician was of the opinion his patient was suffering from ballucinations. A psychologist was summoned in ca sultation and the patient submitted to a thorough examination. The specialist reported, after long observation, that the patient did not seem to be in such mental condition as would

T a gathering recently of engineers foster hallucinations. He discovered, howand scientists attached to various ever, that during the few nights the patient deed?" The result would be, of experimental laboratories near spent at a sanitarium under observation course, that telephone wires would New York cities one of them, who had just the voices and music ceased. When he re- have to be grounded almost returned from a mission to Italy, aston- turned to his home they again interrupted over night. "It is not that we

ing room. Shortly after all had retired cause it. We know, however, "The amateur who plays with the radio- the patient excitedly flung open the door phone goes merrily on his way," this sci- that connected his room with that occupied entist exclaimed, "playing with dynamite. by his professional guests. Even in this

ratus in the house. There was none in the neighborhood.

Investigation disclosed that the springs in the bed occupied by the patient had become an ideal aerial and "picked up" the broadcasting of the sending station miles

"We have grave reason to fear," said the speaker above mentioned, "that during the course of certain wireless experiments now being made by the great radio corporations a situation may suddenly occurunheralded-taking shape in a single instant, which will cause every telephone conversation at that moment being transmitted over the ordinary telephone wires to be shouted out of every radio receiving instrument for many miles around. Imagine the result of such a tremendous volume of conglomerate sound suddenly bursting upon the ears of the listener at a receiving instrument.

"Would not that be chaos inpredict any such occurrence,"

bined. plane recently made practical. This machine, run-

> If to-day students of aerial transportation are asking when there are comparatively few aeroplanes in the air, it is pos- drives his plane along the ground, then, sible for two pilots to select air lanes so using his smaller engine to start the larger close to each other that, in a fog, their one, gradually lifts into the air, his ascent planes are in danger of running into each being easier and sharper than that of any other-what will be the situation a few of the usual aeroplanes. When the wings years hence when, perhaps, there will be a are folded and the aeroplane has become thousand or more planes in the air at any an automobile it can squeeze through pasgiven moment for every one that is aloft sageways in the traffic too narrow for the

its wings and fly away.

ning along a Paris

folded, is ready to spread

Already there has been successfully dem- pier can be seen in his machine threading onstrated an aeroplane which weary of the traffic in the Rue Lepic and climbing was the tragic collision of the two passen- the air, may fold its wing much as does a nel, with the resultant loss of life. So far landing in almost any ordinary street and each other-meeting along the same aerial are experiments under way to adapt it to the water also with considerable prospect

of early success. There then will be a combination areoplane, automobile and hydroplane, capable of moving at high speed either on water, land or in the air, which will people the air, it may be, with as many travelers as there now are automobilists and 'motor boat enthusiasts com-

M. Rene Tampier is the Paris engineer who has perfected what he calls the "avionautomobile," or flying motor car. In the air this plane is hardly distinguishable from other aeroplanes, except that its wings are somewhat longer and shallower in proportion. There are two engines, one of 300 horse power, used when the machine is in flight; the other is a 10 horse power monobloc, which is used when the machine

travels on the ground. The pilot may slowly fold the planes when he wishes to descend, needing only a straight street ahead with little traffic in his immediate neighborhood, to make a successful landing. The larger engine is cut off when the descent begins. The smaller street, with wings one is connected after the landing has been made. A speed of 100 miles an hour may be reached in the air and on the ground the machine is capable of even a greater

In beginning a flight M. Tampier first ordinary motor bus. Almost daily M. Tamthe hill-which leads up to Montmartre.

It is predicted by some enthusiastic engineers that when this machine has been tested by time and improved it will virtually replace the pleasure automobile, at least for those who are not fearful of the air. Then, indeed, would the air be crowded with a most tangible traffic.

Experimenters recently have meet with some unique situations in the releasing of wave currents which, they believe, have been effected by the air disturbance caused by the aeroplane. A displaced current of air, these scientists observe, creates an unusual condition in the atmosphere. "In our experiments we can deal only with the atmosphere in its usual state"-that 1,000 aeroplanes in a given circle of space would have a very appreciable effect upon a congestion of wireless activities in that circle is very much feared. Whether or not the disturbed wave currents would likewise effect the mechanism of the aeroplanes-

that we wonder about, too. At Columbia and other universities and at the great Edison laboratories, strides are being made toward the harnessing of the energy concentrated in the electron. Strange forces are constantly being shot through the air in these experiments-for the manner in which chemistry is approaching this task requires the penetration of the atom by invisible forces which must be sent at random through atmos phere. What becomes of these forces, these "wave strengths," not even the scientists know. They know only that so far stration wholly new to science?

When, suddenly, a voice began to recite

But the patient had no receiving appa-

A "wireless telephone class" in the public schools; the radio now is a daily study.

must be very careful and not stumble upon what would be a great discovery in such a sudden, unpreparedfor way.

The other incident referred to above track.

ger planes bound across the English Chan- bird and, coasting to the ground, find a as there is record this is the first time two pursue its way aground, weaving in and passenger planes or even non-passenger out of traffic with the celerity of a "flivver" carrying planer in time of peace actually automobile. So successful is this developcollided in the manner that trains run into ment of the aeroplane that already there

Mystery of Lost Treasure of the Popes N winding up the affairs of the late dently thought himself justified in sending France under tribute, and some of them After viewing from the summit of

nights he had been unable to sleep, being of Benedict to initiate a treasure hunt, a a hunt for it. It was a Della Chiesa, an ing that name. plan interrupted by his death.

music that seemed to "come out of the the hoards of any ancient pirate Pope Avignon, it is believed. Benedict had in mind, but the "lost treas-

> ing to the Popes and lost since the fourteenth century. In the treasure, in addition to its material wealth, there are a number of sacred relics which are of still are lost. greater value to the Pontiff than all the gold and silver and gems.

It is largely tradition that the Vatican ewes its knowledge of this "lost treasure,"

of silver and gold, crates of priceless French Government to that end. It is this crosses incrusted with jewels and a great communication to France that has been store of gold coins of France, England discovered in his private archives. France

It is not known, of course, if the new meantime the lost treasures of the Popes

Pope Benedict XV. the historians a mission from Rome to superintend a new penetrated far south. One of these free tower in the papal palace the night fires who will compile for the Vatican search. It was fitting also that it should companies is known to many readers—the of the "free companions" in the far disways enjoyed the best of health com- library a history of his reign have come be Benedict, a Della Chiesa, who should White Company, the same that runs tance Innocent VII. instructed two of his

ancestor of Benedict, who was most con- In 1367 the "White Company," accord- principal one of them-and the head of It was not any of the lost galleons or cerned in burying the papel treasure at ing to the few local references preserved his guard to bury the treasures in a safe to this day, appeared in the rich valleys place beyond the city walls. This was Benedict, however, had made plans to to the north of Avignon. The "free com- achieved, and just in time, for at daybreak send a little company of representatives panions" went about their accustomary the forces of the "White Company" were Few know that, buried somewhere in headed by one of his secretaries, to open business with their accustomary thorough- inside Avignon and surrounding the great France, close to the quaint old city of the search anew, and had communicated ness. They stripped the countryside bare as palace of the Popes. Avignon, there are buried countless bags through his diplomatic channels with the a hand, many of the inhabitants fieeing According to the papal records it was

they did of his military forces.

It was an age of insecurity, when they could not be found. who had acted very wisely kept much of A number of efforts were made to re-

plained to his physician that for several across a curious reference to the intention revive the tradition and lend support to throughout Conan Doyle's romance bear- secretaries—an obscure reference gives rise to the tradition a Della Chiesa was the

> for safety behind the walls of Avignon and not until three years had passed that the land enjoyed such degree of peace and Then, to the dismay of all, came hasty security as to encourage the recovery of news of the advance of the "Companions" the secreted wealth. Accordingly they who and ancient Austria, all rightfully belong- had not yet had time to forward the Pope upon the town. War hardened and irre- had cached it went with a body of men and ligious they recked as little of the Pope's dug-and dug again. But trees had been fulminations and excommunications as cut down and landmarks had disappeared. To the dismay of all the papal treasures

The incident took place in the time of their riches in a portable condition. In cover them, but in vain. When the Holy Pope Innocent VII., when in the fourteenth the papal treasury were much gold coin See went back to Rome the hidden hoard they have been lost—they have not reached century the seat of the papacy was re- and convertible valuables, kept against an was left behind in its very safe anchorage, their destination. Rambling in the air, moved to France by order of the French emergency. But the rapid advance of the The French Government last century in they are crowding it more and more—will King, Philip IV. At that time there bands of the "White Company" cut off any stituted a close search and private individ- they meet, join potency and discover thembut it is a tradition so well authenticated were numbers of free companies or mer- opportunity of getting the treasure safely uals have prospected around unsuccess- selves by some sudden, unexpected demon-





