

# TO BLOW UP BATTLESHIPS BY WIRELESS

**I** PROPOSE to revolutionize warfare on land and sea!

This is the confidently calm, wholly matter-of-fact prediction made by Ulivi, the Italian engineer and chemist. In a word, he flatly declares that he has perfected an apparatus by means of which he can project wireless waves at an enemy's ships and blow them to the face of the waters!

These are not the idle mouthings of an irresponsible dreamer. Were they uttered by any one less important perhaps little heed would be given to them by officialdom abroad. Not so with the talented Italian. All Europe is watching his every move, and even now the government of France is considering whether or not it is advisable to pay the vast sum the wireless expert demands for a monopoly of his invention.

Imagine what it means to be able to blow up a battleship or a cruiser without the firing of a single shot! Warfare will be revolutionized indeed! A steel-sided leviathan of the deep can do no harm far out at sea if the enemy has no ships, but let it once approach the coast and threaten to lay low some great port—behold!

The press of a button in a shore station, the instant crackle of the wireless as it zips through the blue ether and instantly the great thing of steel parts amidstships with the roar of a thousand guns and sinks to the ocean's floor, a broken, distorted mass. No dream, this.

It has gone beyond the experimental stage. For weeks past a mysterious yacht, fitted with powerful wireless apparatus, has been hovering off the Norman coast of France. Aboard has been a notable party and—Ulivi. Now the secret is out. They have been blowing up submarine mines by wireless as a preliminary to more drastic experiments.

The yacht is the rakish Lady Henrietta, flying the British flag, but under French ownership. Within her sharp lines is hidden the revolutionizing secret which not only France but the government of the United States and all the powers of Europe have been seeking ever since wireless waves have been a fact and wireless power a possibility. And this secret is the new invention—as yet in its infancy—for exploding at any desired distance from 600 to 6,000 yards by wireless infra-red solar spectrum waves all explosive substances in contact with metal.

Briefly this means that Ulivi says he can detonate the gun cotton or the powder contained in a warship's magazine by means of wireless, and the French Government is seeing if it can be done.

The infra-red rays of the solar spectrum are those mysterious beams beyond the edge of the red, invisible to the human eye but nevertheless there. For convenience Ulivi calls them "F-rays." They are akin to X-rays in that they can penetrate metal, but instead of making objects visible they develop force beyond the barriers which can deflect the most powerful projectile, but are as glass to the potent force of the little known rays beyond the red, whatever unthinkably color they may be.

How they work or in what manner Ulivi has controlled them nobody but he knows. But that they have worked he himself frankly states and the official commission which went to sea with him so solemnly gives assent. Ulivi did not go about his work under any cloak of secrecy of mystery. With him on the Lady Henrietta went Gen.

de Castelneau, assistant chief of the general staff of the French army; Commander Ferrie, director of the wireless telegraph station on top of the Eiffel tower, Paris, and Captain Cloitre, representing the French minister of marine.

"We have reported to our government," said General de Castelneau seriously, "and everything we have said must be kept a profound state secret."

It is no breach of confidence to say, however, that the commission has unanimously reported in favor of France securing the invention without delay, no matter what the price. This consists, stripped of technicalities, of a special projectile emitting retuning-framed rays which find the exact distance and the exact radio-magnetic capacity of metallic objects. When these are determined with precision the Ulivi "F-ray" is then shot out from its station afloat or ashore and a long distance explosion takes place instantly with mathematical accuracy.

This is not merely Ulivi's hope of revolutionizing warfare. Experiments made near Villers prove that it can be done even with the unperfected apparatus already put together. So accurately has the projector worked that two mines were placed five yards apart at 1,000 yards' distance and either one exploded at will, the other remaining intact.

It works as well by land as by sea; it can be applied to dirigible balloons like the German Zeppelins.

"And," declares Ulivi confidently "it will render a ship freighted with explosive ammunition more dangerous to those aboard her than to their own enemies!"

Dictated by Commander George W. Williams, U. S. N. Inspector in Command U. S. Torpedo Station, Newport, R. I.

If the Italian, Ulivi, has devised something by which he can explode a magazine at a distance by the Hertzian rays then we will surely get something to combat it. If projectiles can be deflected by shields surely wireless power can be deflected too. But this new power—if there is such

a power—will not alone be used for war; its use in the arts would be far too important to be overlooked. And if it has been discovered at last I am not at all surprised—nothing would surprise me in this age of miracles!

I have not the slightest doubt that at this time Signor Ulivi has been able to construct antennae and specially designed receiving instruments and relays by which he can explode at a considerable distance an especially prepared charge of gun cotton or other explosive. In fact, I have seen the thing done here already—the idea is not altogether new.

This working apparatus is the Shoe-maker torpedo. It is a full-sized torpedo wirelessly controlled. This formidable weapon can be started; stopped, steered and exploded by an operator at a distance, but it requires special receiving apparatus in the torpedo itself. It can perform what is expected of it, but it is not practical for the very good reason that the operator cannot see far enough to exercise his judgment in the control of the instrument. Take a motor boat 2,000 yards away—you can't tell exactly how she is heading. How much harder then to judge the steering of a distant torpedo!—The French navy has already had trials with wireless torpedoes, and what Ulivi has accomplished is probably an extension of these experiments.

Now, what mysterious power is it that he has? Or, better, what is Ulivi trying to obtain?

Briefly this: Some means of projecting energy through space that will detonate some explosive at a given place, subject to the control of the operator.

As I have said, this is no new idea. Frank R. Stockton has it in his story, "The Great War Syndicate," and H. G. Wells used it in "The War of the Worlds." The same scheme has already been proposed at the bureau of Ordnance of the navy, too. One inventor asserted that he had effected a combination of mechanism that could project the Hertzian waves or other wireless waves generated by electricity and explode a designated charge at a distance.

A few chopped raisins mixed in boiled frosting, before spreading on the cake, makes a change quite palatable.

An alcohol sponge bath is often found refreshing and soothing by those sleepless on account of the heat. A tablespoonful of alcohol to a cup of cool water is the proportion for such a sponge.

A nervous person will find relief in a hot bath just before retiring. The body should be immersed for fifteen minutes in water that is hot, without being exhausting.

**Brown Betty.** In a baking dish place a layer of thin slices of bread and butter. Over this place a layer of apples, pared, cored and sliced; sprinkle with half teaspoon cinnamon and half cup brown sugar, and pour half cup hot water over this. Cover them with another layer of bread and butter, butter side up. Bake in slow oven one hour.

Serve with butter and sugar sauce. Dried cranberries may be used in place of bread and butter, and a little butter placed on the top before putting in oven. Left-over apple sauce may be used in place of raw apples.

**For Bruised Furniture.** Here is a discovery which has been of great use to me when removing bruises from furniture, writes a correspondent. Wet the part with warm water; double a piece of brown paper five or six times, then soak it in warm water and lay it on the dent. Apply a warm (not hot) flatiron until the moisture has evaporated. If the bruises are not gone, repeat the process. You will find this very good, and if the surface of the furniture is not broken the dent will disappear and leave no trace.

**To Perfume Handkerchiefs.** When washing handkerchiefs break up a quarter of an ounce of orris root and tie it in a piece of muslin, boiling it in with the handkerchiefs for a quarter of an hour.

When dry iron them carefully, and they retain a delicate violet odor that is very refreshing.

Use about three pints of water for this quantity of orris root.

**To Whiten Linen.** Handkerchiefs and white clothes that have become yellow from use of too much soap or any other cause may be whitened in the following manner. After washing let them soak overnight in a tub of clear water, to which is added a teaspoonful of cream of tartar. When rinsed they will be white as snow.

**New High Explosive.** A new high explosive, total, possessing in a high degree the desirable qualities of a shell burst, has been developed and demonstrated. It is the invention of Lieutenant Woodward, an engineer of the New York National Guard. The explosive, which can be detonated by fulminate of mercury, has been fired in a 12-inch shell against armor plate without exploding. It is claimed that 5 ounces of dynamite will do the work of twelve of this.

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## HINTS FOR THE HOME

**SMALL POINTS THAT WILL GREATLY ADD TO COMFORT.**

**Requisite for Good Coffee—Proper Care of Valuable Laces or Delicate Fabrics—Best Way to Preserve Jewelry of Value.**

**By EMILY ANDREWS.**  
To have good coffee, the coffee pot should be kept scrupulously clean and never set aside after using without washing and drying thoroughly.

An earthen bowl filled with quicklime, placed in a closet, will absorb moisture and also act as a disinfectant. It will serve to keep away rats and mice, as they dislike lime.

Valuable laces or delicate fabrics should not be laid away in white paper, as chloride of lime is often used in bleaching white paper, which will injure any article that lies against it any length of time. Blue paper will be found better than white.

Salt and vinegar are excellent for cleaning discolored enamelware.

Chamois skin should be kept on hand for polishing furniture, especially pieces that are highly veneered. It will also give luster to mirrors, silver and plate glass after washing them. Its value can only be appreciated by use. It can be easily cleaned by washing in cold water with plenty of soap and pulling in every direction until dry. If it is stretched vigorously it will be as good as new.

Gold rings and other pieces of jewelry set with hard, transparent stones, can be cleaned with warm water, a white soap and a little ammonia. A soft tooth brush may be used for getting behind the settings and stones, but for pearls or turquoise, or any soft gem the water should be avoided. Polish with a soft chamois and they will be bright and sparkling.

Velvet or ribbon bows can be made quite fresh without removing from hats, by heating a curling iron, wrapping it in a wet cloth and inserting it in the loops, opening them as wide as the loops demand, and holding until quite dry.

To mend knits, use a small needle and a fine cotton thread, well waxed. A thick needle will cut the edges of the knit and sewing silk will wear right through. Place the ripped place over a glove mender and take up a stitch on one side and then on the opposite, and draw them together. Do not place the stitches too closely together; mend on the right side, fastening the threads well.

Breathing deeply will stimulate the heart action and the circulation, and is an aid to perfect health.

Fresh air is the basis of all physical beauty and health, and if more people realized its value, half the ills of humanity would be cured.

Heavy Russian crash makes very attractive portieres; if too narrow, overcast the two widths together with the coarsest of carpet thread similar to the Bagdad rug. No hangings can be more effective than this soft-toned, colorless material, and it is especially attractive for libraries or studies.

Lack of ventilation in a bedroom will often produce sleeplessness. Though the air should not blow directly on the bed there cannot be too much of it.

Turpentine sprayed in the haunts of cockroaches will often disperse them and often quite destroys them.

If stockings are washed before wearing they will last longer. This is especially true of lisle and silk stockings. The slight shrinkage brings the threads closer together.

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## SOME HELPS IN HOME WORK

**Little Things Every Woman Should Know, For They Make Her House-work Easier.**

When making cooked starch put in a bit of lard, and note results.—Mrs. Curtis Feester.

Pitch and lard, mixed in equal parts and applied to shoes, will prevent them from taking water.—Lillian Holland.

Wet a cloth in coal oil and use to clean the sink; dampen another with the oil and rub your nickel-plated teakettle while hot. It will shine like silver.—Mrs. Farley.

An excellent and simple method of making a lamp throw out a clear light is to place a small piece of gum camphor in the receptacle with the oil.—Mrs. W. W. Witsell.

To mend a crack in a stove, mix three teaspoonfuls of salt and one pint of wood ashes with sufficient water to form a stiff paste. Fill the crack with this mixture while the stove is hot. When dry it will be as hard as cement.—M. E. P.

If a beaten egg and a slice of two of light bread, soaked, are added to Hamburg steak, the latter will not become so dry and tasteless when fried. This has helped so much I gladly pass it on to other women folks.—Mrs. Samuel Hart.

To clean and brighten a galvanized iron pail or washtub use chloride of lime dissolved in soft water, and kerosene; rub, then polish with a soft cloth. I have tried this to my complete satisfaction, and trust the hint will benefit others.—Mrs. Walter Johnson.

When washing cream-colored curtains, add yellow ochre to the starch until the tint is as deep as you wish it to be. Test it with a bit of 'ace before dipping your curtains. Five cents' worth of the ochre will be sufficient for six pairs. Other laces may be tinted in like manner.—Mrs. Louis Sander.

## LITTLE HELPS IN HOME LIFE

**Aunt Emily Gives Three Household Hints Which Are of Benefit to Every Housewife.**

**By Aunt Emily.**

A shelf back of the kitchen table or vessels that are used frequently, the wash-basin, within reach of the roller towel, a drinking cup near the water pail, all save needless exertion and time that may be utilized for something else or rest.

The very best stove holder can be made of an old stocking by cutting off the foot at the ankle and folding it into the leg, fastening it well as it is folded over and over until it is the square shape of the common ironing holder. A brass ring in one corner is a great inconvenience for hanging and such a holder can be laundered.

In the sewing room, patterns should have their place of quick and easy access and if each one is marked it will often prove a blessing. A bag fastened on the lower part of the sewing machine for scraps will likewise be a comfort, and sharp scissors and a work table are absolute necessities.

**Maple Waffles.**

Beat the yolks of two eggs, add a teaspoonful of salt, one-fourth cup of maple sugar and one cup of sour milk, into which has been placed a pinch of soda. Sift into this two and a half cups of flour and stir until the batter is perfectly smooth, then add a tablespoonful of melted butter. The well-beaten whites of the two eggs should now be stirred in, and last of all two and a half teaspoonfuls of baking powder, beat the whole thoroughly, filling the hot waffle iron about two-thirds full. If the batter should be too thick use a little water for thinning.

**Short Cake.**

Four cups of flour, three tablespoonfuls butter or lard mixed, three teaspoonfuls baking powder, one teaspoon salt. Sift the flour with baking powder and salt, rub in the butter, add enough milk to make a soft dough, just soft enough to handle. Divide in half, roll or pat out one-half inch thick to size of pie plates. Brush first layer with melted butter and lay them on greased pie tins. Bake in hot oven; separate without cutting. Pick, wash and drain berries, spread between layers of shortcake, sweeten to taste. Serve with cream.

**Veal Loaf, Tomato Sauce.**

Chop two pounds of lean veal, put it into a basin and add a quarter of a pound of chopped salt pork, then add well beaten eggs, two teaspoonfuls of lemon juice, one teaspoonful of onion juice, one teaspoonful of salt and a few grains of red peppers. Moistened well with veal stock and press into a buttered pan. Cover and bake for one hour. Baste frequently during the baking. Turn out and serve with tomato sauce.

**Glazed Chintz Shades.**

In the country cottage glazed chintz is taking the place of plain shades. Made to fit the window and run on an ordinary roller, these shades are most attractive, the light filtering through and effectively bringing out the lovely chintz patterns. Over these the white draperies are hung straight or draped back.

**Hay Tea for Coloring.**

When it is desired to preserve the cream shade in any article that is originally cream color and is likely to wash out, dip in hay tea, after rinsing. This keeps the color. The tea is made by boiling a handful of bright hay in two gallons of water for 20 minutes. Strain, and add a pinch of powdered alum.

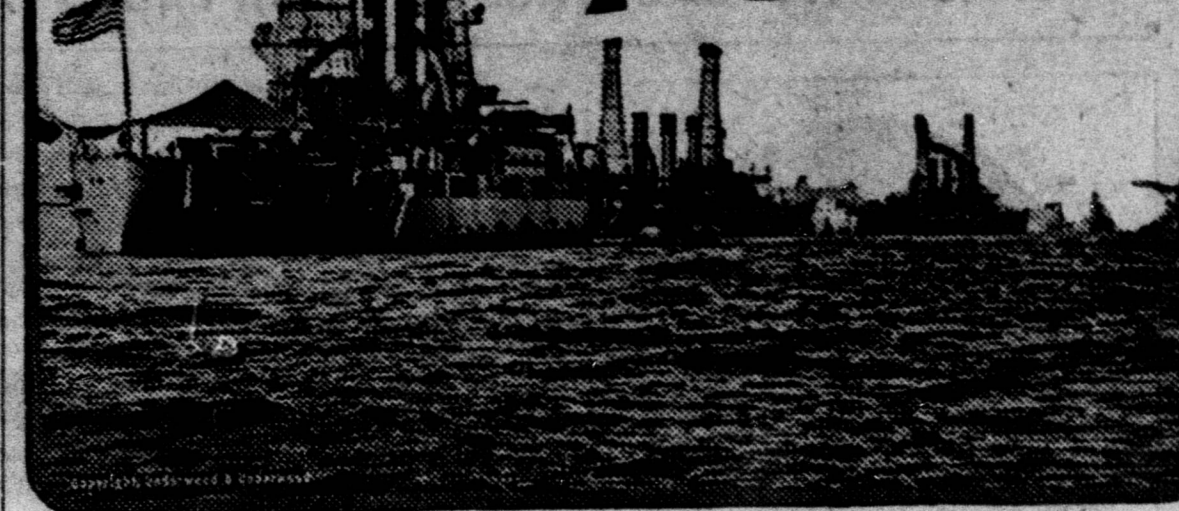
**Custard Onions.**

Cook the young onions after peeling them. When tender, lay in a pudding dish, and pour over them a white sauce to which you have added one or two well beaten eggs. Season with pepper and salt before turning on the onions, and bake until the custard sauce is set.

**Turpentine for Burns.**

A cloth saturated in turpentine and bound on a burn immediately will prevent aching, soreness and blistering.

# GOING ON A PLEASURE TRIP.



PART OF ATLANTIC FLEET

**UNCLE SAM'S** blue-jacketed sailor men, to the number of about eight thousand, are going on a pleasure tour. The contemplated outing throws down the gauntlet to well-laid plans of millionaire yacht owners who seek to amuse themselves in regions where the world is most prone to smile. These light-hearted, frolicsome American boys are to be turned loose in the ports of the Mediterranean with their pockets full of money, and admonished to have the time of their lives.

They are to be conducted to the pleasure land on craft each unit of which represents a value of \$12,000,000. The ships are to be tied up in the various harbors, with sleeping quarters and food always ready when purses are empty. No man need have a care in the world, for his own ship lies ready to bear him back to America in time for a Christmas at home when his money is spent.

This cruise of the great men-of-war is made to redeem campaign pledges, as it were. Agents of the navy department have been going forth throughout the land and asking young men to enlist for service at sea. They have told these young men of the opportunities to learn trades in the navy, of the sport that is to be had in maneuvers at Newport and Guantanamo, of the opportunities that the service offers to see the world. The recruiting officers have not merely told them that they would see the ports of this nation and the Caribbean, but the charm of foreign lands also has been held out as an inducement for enlistments.

To redeem pledges. And now the department proposes to make good on these claims. Every effort is being made to increase the facilities for learning trades in the navy. Life aboard ship is being made healthful, stimulating and attractive. But navy programs of late have included little cruising abroad. The sailor man has known little except Newport, Norfolk and Guantanamo and a touch of Vera Cruz or Panama.

So it was determined that a trip to the Mediterranean should be made this fall. Pledges of recruiting campaigns should be redeemed. Secretary Daniels holds that men of the navy are better sailors and better citizens when they go back into private life because of these trips abroad. Likewise the popularity of the navy increased, and this makes it possible to fill the service with better and better men all the time.

When the trip to the Mediterranean was first planned it was proposed that the entire Atlantic fleet should go. Then conditions became so unsettled in Mexico that four battleships were assigned to those waters. The navy department contemplates the relief of those four ships by four others by November 1. This eliminates eight battleships. Then there is the regular work in the navy yards which calls for the overhauling of ships with a certain degree of regularity that the working force may be maintained.

This fall there will be four battleships in those navy yards. So are twelve ships of the Atlantic fleet eliminated from the Mediterranean cruise. There remain nine great vessels that are at liberty to go.

It was at first thought that some twenty destroyers would cross the Atlantic. These little, high-speed ships, the daredevils of the service, do not take the waves of the mighty main with the same degree of ease as do the dreadnoughts. They are entirely seaworthy, but in stormy weather they roll and plunge and inflict great hardship upon men and officers. As the Atlantic is to be crossed at the season when gales are frequent, it was thought advisable to leave the destroyers at home.

But all those ships that are not allowed to make the present cruise are to be given later opportunity for cruising in foreign waters, and some of them are to have the privilege of first passing through the Panama canal, an event that will transpire before the new year. They will go abroad at other times. A trip to Scandinavian

**That Explained Everything.**  
Cook—If you please, mum, you'll be so good as to take my notice from today!

Mistress—But what's wrong, cook?

Cook—Nor I with you, mum. It's all along of that new hussy the housemaid. I'm sure the way master an' her carries on 's shameful, an' I won't stay where such things are allowed.

Mistress—But is that your only reason for leaving, cook? Of course such things are not allowed, and I can soon put a stop to them. And, really, as long as your master doesn't carry on with you I don't see why you should wish to leave me.

Cook—I think I'll go all the same, mum. Before that hussy came master used to be nice to me, but he wouldn't ever be the same again now.

**Inexpensive Pleasure Given.**  
Old Peterby is rich and stingy. In the event of his death his nephew will inherit his property. A friend of the family said to the old gentleman: "I hear your nephew is going to marry. On that occasion you ought to do something to make him happy."

"I will," said Peterby; "I'll pretend that I am dangerously ill."

## POPPER'S ANSWER TO LISZT

**Cellist's Gentle Retort to the Composer's Seemingly Attack on the Jewish Race.**

Among the anecdotes told about the late David Popper is an interesting one relating to Liszt. It is well known that many of the pages attributed to Liszt were really written by the Princess Sayn-Wittgenstein. The most flagrant instance was the insertion by her in one of his books of some pages attacking the Jews and advising their deportation in a body to Palestine. Liszt was greatly annoyed at this, for such sentiments were entirely foreign to his character, and many of his best friends were Jews; among them David Popper, the famous violinist. Not long after the appearance of the book referred to Popper made a call on Liszt, who was delighted to see him, and asked when he came and where he was going. "I am on the way to Palestine, dear master, in accordance with your wishes," was the prompt answer.

## London Lost Musical Honor.

There was a period of his life in which Handel, the famous composer, retired from London in a fit of disgust. He went to Dublin and it was there—in the Dublin Music hall—that his great masterpiece, "The Messiah," was produced. "The performance," writes D. A. Chart, "was for the benefit of Mercer's hospital. In order to provide room for a large audience, ladies were requested to lay aside their hoops and gentlemen their swords. By this means an audience of 700 was crowded into the space, and the concert realized \$2,000."

## Thimbles Centuries Old.

Thimbles have been known for many centuries. Some specimens unearthed by archaeologists are known to be 2,500 years old. They are of bronze, and their outer surfaces show the familiar indentations for engaging the head of the needle. These thimbles are almost exactly like those of our day, except that they have no tops with which to cover the end of the finger.

## PASSING OF THE COACHMAN

The coming in of the chauffeur has evidenced the passing of the family coachman, that haughty and purse proud individual who scurried you to an isle of safety with a look. Nothing in New York has stood for the remoteness, the exclusiveness, the haughtiness of the rich more than the family coachman, as on his rolling throne he has always owned Fifth avenue and demanded his right of

way. The chauffeur, speed and grandeur combined in his car, gives you no impression of pride of lineage, tradition of purse, and he has been a pleasant interpreter of the motives of the rich. If he runs you down he gathers up the remains of you and transfers you with much presence of mind and elimination of time and space to a convenient haven, and is sorrier than anyone. The chauffeur

never makes you feel like a worm. He is a real development.—New York Evening Sun.

## Helped Him Move.

"Whose mule was it that kicked you, Sam?"

"De landlord's, sir."

"That wasn't very kind of him; now was it, Sam?"

"Well, I don't know, boss; you see, de mule heard de landlord say I'd got to move, and de mule I s'pose didn't think I was movin' fast enough."

## New High Explosive.

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## Women in Men's Clothes.

An American woman has petitioned President Wilson for a permit to dress as a man, on the ground that in male attire she can earn \$15 a week, or more than twice as much as when hampered by skirts. In France such permits are granted by the local police without any great difficulty, provided a substantial reason is shown for the application. Rosa Bonheur used to dress as a man, and so did a widely known writer, Mme. de Montfaucon, who died last year; while

Mme. Dieulafoy, the explorer, grew to like men's attire so well when on her travels that she wears it on all occasions. According to a French law passed in the eighteenth century, any woman growing a beard has, ipso facto, the right to dress like a man.—London Chronicle.

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