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ON COLUMBINE

TENDER FULLY FOR SUB-MARINE SIGNALING WITH LIGHTSHIPS.

commanding, has just been fully equip- understood code which reduces the sigped with a sub-marine telephone, the nal to the numerals "two," "three," work being completed yesterday noon "four," and "five," the principle of acthe Sub-Marine Signal Company, of numerals in a municipal fire-alarm ser-Arlington, Mass., and the splendid inno- vice. vation works like a charm and charms The whole system is as simple as it is all who investigate it.

ards yesterday shortly after the comple-Liverpool, and Norfolk, Virginia; and 18 out, he will install an outfit on Light-United States lighthouse tenders, the able apparatus.

position of a light-hip off any coast, under any and all weather conditions, log, storm, wind, current, or what-not, interfering; fog being the principal im-

The lightship itself is equipped feet below the surface, and there plays to and fro, under the operation of a compressed air device, or with the ceaseless motion of the ship above, sending its clear-toned, far-reaching, welcome sound, to whatsoever ship or steamer is equipped with a receiving apparatus to detect it, anywhere within a radius of from five to twelve miles distant. The sound traverses its water environment to a uniform distance in all directions, undisturbed by the fury of gales or the weight of fogs above, and is effective always for a distance of from three to five miles; the play to larger compasses being actual enough, though rare of record, a number of cases having been reported to the home-company at Arlington; the reach of the sound being governed in a great measure by the speed and draft of the receiving vessel, a deep draft and slow speed giving the best results.

When the receiving ship picks up the sound of the light-ship's beil, it can the ships, and many pilots have claimed the compass. The receiving apparatus, Pacific, for some time to come, such as has been justalled on the Columbine, consists of two microphone instru-The sound of the distant bell, coming on each box. 25c. through the water, is caught by these instruments and transmitted to the pilot house above by means of suitable eleclight when it is in operation and the support of the colored voters. metallic case is embellished with two telephone receivers and a switch for . BEST COUGH CURE listening at either the starboard or port . side as the case of call may require. . Go to your druggist and get The listener at the instrument compares . one half ounce Concentrated oil the intensity of sound on the two sides. . of pine; two ounces of glycerine; and the side receiving the greatest . half a pint of good pure whis . volume of sound is the side nearest . key; mix it up, glycerine and oil

SUB-MARINE PHONE the lightship, and this determines the course to be steered, to lay straight for which, it is only necessary to head the ship about until the sound is of equal volumne in both receivers, which is certain to give unfailing direction The observer is also able to closely approximate the distance by the distinct ness of the sound when it is first received EQUIPPED WITH APPARATUS and its increasing volumne as the approach is subsequently made toward the lightship.

The lightships, during a heavy fog. usually strike the bell so as to signify their own official number; but in cases The handsome lighthouse tender Col- where that number is made up of too umbine, Captain Charles Richardson, many numerals, recourse is had to an by Mr. Percy A. Richards, representing tion being the same as applies to the

beautiful and valuable, and is fast be A reporter for the Morning Astorian coming a standard feature of marine had the good fortune to meet Mr. Rich equipment everywhere. Lightship No 67, now berthed at the buoy-dock at tion of the olumbine's installation and Tongue Point, was the first Pacific Coast was treated to a clever dissertation on vessel to be equipped with the apparathe theme by this skilled operator, who tus, and the relief ship. No. 76, now on is quite as elever a talker as he is duty off Umatilla Reef, was the first to workman. This gentleman says his com- use the device in deep water service. pany has patented the remarkable in The light-house tender Heather will be vention in 25 countries and has branch the next objective for Mr. Richard's fine establishments at London, New York, skill, and when she is properly rigged busy with a perfect mass of contracts, ship No. 50 now off the Columbia River including the equipment of 12 of the bar; and in turn, will serve the lightships off the San Francisco bar, and Columbine, just completed, being among Blunt's Reef. He reports, also, that them, and the first active ship on this Lightship No. 88, about to leave New coast to be rigged out with the valu- York City for this coast, to relieve No. 50, off this bar, is fully equipped with The purpose of the system, as Mr. the device, as are practically all the Richardson explains it, is to locate the lightships on the Atlantic seaboard, and on the Great Lakes

It will be remembered that the submarine delephoning test recently made in the East as between the sub-marine pediment considered in the sum of serv- torpedo boats of this government were ice which this elever invention contri- fitted out with these same fine instruments and the remarkable results attained were due to the precision and a closed bell which is swung out-board perfection with which they worked on from davits and is submerged 25 or 30 the Octopus and her sister ship. The test then made was under the manipulation of the contracting builders of the vessels, and a conversational code was devised and used for the occasion with extraordinary success; and it is not beyoud the possibilities, that sooner or later, a code of the sort will be arranged and applied to the betterment of this advantageous service.

> It is an American invention, but was arst taken up by the Canadian government before the Washington authorities; but it is such a character as to make it amenable anywhere on the face of the earth, and its utility will be universal before many years have elapsed The lighthouse tender Armeria, which

was sent out from New York, to this -tation, brought the marvel along with her and it is in constant use there.

Mr. Richards is under orders to board he steamship Rose City on her maiden ovage here from San Francisco, and survey her with a view to the immediate installation of a fine plant; in fact, he easily estimate the distance between indicates that there is plenty of work ahead for him in the interests of his to have gotten it within one point of company and the marine world of the first, then add the whiskey. Use

TO CURE A COLD IN ONE DAY ments which are located down in the Take LAXAT'V !- BROMO Quinine Tabfore-hold of the vessel, in two tanks, lets. Druggists efund money if it fails one to starboard. the other to port, to cure. E. W. GROVE'S signature is

COLORED CITIZENS.

BOSTON, Jan. -A call for a meet tric cables; and upon the unll of the ing of colored citizens to be held pilot-house is located the receiving in- at Philadelphia, April 7, has been sent strument, handsome and compact, with to representative colored men all over openings in the face to exhibit the siles, the country. The call says the confer- Concentrated oil of pine and "port" or "starboard," from whence the ence is to have special reference to the called by similar names. This sound has come, and "ahead" also if that demands to be made of political parties . stuff should be avoided. The shall have been the direction. Each of and to determine what candidates for these signs are lit by a tiny electric the presidency will most deserve the

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· in doses of a teaspoon to a tablespoonful every four hours shaking the bottle well each time.

The Concentrated oil of pine comes put up for medical use in . half-onnee bottles each enclosed in a tin screwtop box which protects it from heat and light. . If you do not find it sealed you who know that you are not getting · the real article.

There are also several patent medicines put up to resemble the . Concentrated oil of pine is the only truly soluble pine preperation known to science. It also makes wonderfully effective linament by putting a teaspoonful of the raw oil into a saucer. • ful of hot lard applying hot. • · This is invaluable in cases of • cold in the chest or sprains and

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