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## THE TRANSMISSION OF CODE MESSAGES

How American Notes Are Sent Across the Atlantic---Britain Spends \$17.000 a Day on Telegrams to United States.

the official messages exchanged bet- in the form of a procession of small other wires, until finally it is typed ween ambassadors, consuls, and the round holes in a continuous strip of out for the last time in its coded Government. During the present paper. Simultaneously with the form and then comes the very difficult European war the amount of this cor- clicking of the automatic transmitter and lengthy process of decoding, per- L respondence has been much greater in the office of the cable company, the formed with the help of the key in than before. The notes from the signals are received on a recorder at the hands of the Ambassador at United States to its representatives the distant end on a paper tape which Berlin in Germany and other European runs through the recorder, and a countries are, of course, in a cipher delicate glass siphon draws a fine ink- many had eleven submarine cables. known only to the officials who send line on it. When no signals are pass- Five of these—the most important of U and receive them. Even the cable ing, this line lies in the middle of the all-landed at Borkum. Two of the M operator who transmits them knows slip perfectly straight. When a 'dot' cables ran to the Azores, and placed nothing of their contents. The code arrives the siphon draws a little hump Germany in communication with the message is composed of ordinary above the line, while if a 'dash' is United States. One went to Brest, anwords, used apparently in a meau sent the hump is below. Thus the other to Vigo, and another to Tenengless way. Thus 'Penistone' in one signals in a message are represented riffe. As all these cables passed Every Government has a special valleys. - Hopelessly unmeaning as were promptly cut. Between England cipher compiled by its experts. The this line may appear to the uninitiated and Germany there were seven cables, cipher is, however, a somewhat de- the expert operator is able to read it and communication by these at once fective method of securing secrecy, as quickly and with as much certain- passed under British control. Lookas it is almost impossible to baffle ty as if it were ordinary print. The ing out for an outlet on the north the cipher unraveller. During the expert receiving operator translates Germany might seek to send and Spanish-American war the Spaniards this as fast as the siphon traces out receive messages through Denmark were surprised at the seeming laxity the mysterious symbols, and if one Norway, Sweden, and Holland; but of the Americans in allowing a cer- were to compare the copy he makes it such messages would reach Britain tain cable to be used by them; and would be found identical with the or France, and so fall under the eye they poured through cipher messages coded message which a few minutes of vigilant censors. In the south which were duly received and ac-lago was being keyed on from Washknowledged by their agents. The ington to New York. senders and recipients little dreamed that every message which was sent by that cable passed first through the

hands of the Americans, and was read by them. To the surprise of the Spaniards, the supposed secret messages led to operations that disastrously foiled some of their move-How the notes are enciphered, coded, guarded against errors, cabled, deciphered, and yet their secrecy preserved is one of the features of interest concerning these international

papers come through the American State Department, and always bear the signature of the Secretary of State, it is generally known that President Wilson composes some of the more important notes, which are then considered by the Cabinet, and later

Before an important note is placed on the wire it is generally, the custom to check the accuracy of the cipher by deciphering it and comparing the result with the original code-book, or a clever cipher raveller, would be able to understand

The code-book, is the eigher dicsymbols are taken—the latter represented by figures and letters, and spaces—are kept in lockfast when not in use, and none but trusted persons employed in this particular branch of the American State Department work have access to them. The code books of the State Department are guarded with the same vigilance as the code of the navy.

An account of the method by which President Wilson's notes were d spatched to the German Foreign Minister recently appeared in the "Tele graph and Telephone Age." After the Secretary of State had affixed his signature, he handed it to the chief clerk of the State Department, who had the pages of the notes, consisting of approximately fifteen hundred words, distributed among the cipher clerks, and the work of enciphering began. Before important notes are placed on the wire, it is, as already mentioned, the custom generally to prove the accuracy of the coding by deciphering and comparing the result with the original. The Lusitania note was tested in this way, and did not leave the hands of the chief cipher clerk until he had satisfied himself that when decoded by the Ambassador in Berlin it would be identical, word for word, with the note as the President wrote it. The first page was oded at 2 p.m., and an operator began to telegraph it from the State Department to the Commercial Cable Company's office at New York. this stage the message was in the form of a stream of dots and dashes, which the operator in the cable office retranslated into the same coded form in which it existed at Washington. As the sheets were written up by this man they were handed to the cabl operator, who proceeded to transmi it over the submarine cable in an other disguise. The same system of Morse code employed on land lines not used for submarine cabling, and another system, known as the Continental cable code, is used. Messages, instead of being hand-keyed, you are sent by an automatic transmitter, The nearest example to the operation of this machine is an automatic pianoplayer. As in the latter the musical composition is disguised in a maze of perforations in a paper roll, so in the

by a continuous line full of hills and through the English Channel, they

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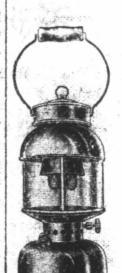
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What the diplomat calls 'notes' are cable transmitter the message exists | Once more it is despatched over | |

The cables laid east and west in the Mediterranean are the property of the Eastern Telegraph Company, a British concern, and land on British soil. Should Germany wish to telegraph to Africa she would find herself in the same dilemma-the certainty of her telegrams passing through British hands. She would be no better off if she tried to telegraph to India or China overland, as there are no lines

she could use except such as are

controlled by the Allies. Perhaps nothing has contributed more to the commercial supremacy of Britain than her enterprise with regard to the submarine cable. During the last sixty years Britain has excelled all other countries in her quick communication with the remote parts of the world. Europe received its news through London. When at last other countries sought to free themselves from this monopoly they had to seek British aid. When France and Germany desired to possess cables of their own to America, they had to get Britain to manufacture and lay cables for them. In late years facbeen established by Germany at Ordenham, by France at Calais, and by Italy at Spezia. The foreign manu factories were started with Government subsidies, and the awakening of Covernments to value of cables has MEANS plenty of been remarkable. Until a few years light, and the ago the submarine telegraphs were all best of light. Give in private hands, the capital being wholly subscribed by the public. There are at present no fewer than tle attention, and at two thousand nine hundred and trifling expense. Sat- thirty-seven cables, and of the various Governments the British hold the

Of the messages sent by the subyears. Burnes only marine cables, 90 per. cent. are on business. It is estimated that the British spend about \$17,000 a day on telegrams to the United States, \$5,000 a day on cables to Australia, and an other \$5,000 a day on cables to India South Africa, China and the East. The rate for ordinary telegrams to News York is 20 cents per word, but the price to some of the states is considerably higher. The cheapest ordinary message to Canada costs the

#### same per word as to New York. 500 Killed, 1500 . Wounded in **Dublin** Riot

A British sergeant, who says he had the leave of his life, was caught in Amien Street Station, Dublin, after returning from Belfast. He refused his name. He had a sniping battle with a Sein Feiner, hidden be hind a crane on the south side the Liffey, potting soldiers and unloading transports. After five hours exchange of shots he finally hit the rebel in the head. He was probably the last sniper to be killed.

In Dublin itself the rebels have never numbered more than three thousand, and of these eight hundred men have been either killed or wounded. The military casualties will not reach nearly that figure. At least 500 rebels were killed and 1,500 wounded in the seven days' fighting in the streets of Dublin, it was estimated by soldiers who completed a canvass

The rebellion was well planned in many respects. There was to have been special prices for necessaries. I was shown a printed list with the heading, "Long live the Irish Republie!" showing boots at three-pence a pair, whiskey four pence a bottle, bread free, and flour a penny a pound.

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