quent discharge of the gam in the boat, because the only means by which this guipowder could be ignited was, the passage of the electricity of the short copper wire which connected the founded of the gam with sea. So that not only must the electric fluid have arrived in the sea, but it must have passed through it to this short copper wire in this begt. It is almost needless to add, that so rapid is the privage of the electric fluid. that the report of this discharge of the battery, the ignation of the powder at the masthead and that over the touckhole of the gam, and the report of the gam itself, appeared smultaneous, notwithstanding the great distance traversed by the electricity—thus showing clearly, and satisfactorily, that the instant the explosion arrived at the main truck that same instant did the conductors clear it of the ship and transmit to the water.

Several experiments were then made to prove that the principle field good in the case, when the topmast and top gallent masts were struck. These were very conclusive; the electrical current followed the continues line without at all diverging to those portions of the conductors which, by the striking of the masts, were placed in a position out of that line.

Wire rope conductors were then considered, and

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C. W. KETCHUS:

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