

WONDERS OF SCIENCE.

The Electro-Magnetic Telegraph.—The change which Steam has effected in removing space and distance, and bringing the families of the Earth nearer to one another exemplify the capacity of the human mind for improvement.—The expression of thought crosses the broad Atlantic or traverses the length or breadth of the Kingdom in a few days, and in as many more receives its interchange.—We all admire and are benefited by the discovery of this gigantic power.—Yet powerful and rapid as this agent is, it may appear slow and inefficient in comparison with other agencies in nature, the knowledge of which is only dawning upon the world. Light traverses space at the rate of 200,000 miles in a second of time:—Lightning 288,000:—Electricity is identical with Lightning, and combined with Magnetism produces motion and force. By the agency of Electricity thought may be communicated with the swiftness of Lightning to any part of the Earth!—By the combination of Magnetism with Electricity thought may be permanently transcribed at an indefinite distance:!!—It has been practically demonstrated. Dr. Lardner says that “travelling on one of the Railways in England a passenger who had left his Cloak and Umbrella behind him discovered it only after he had proceeded 40 miles; and on arriving at one of the Stations informed the Manager he wanted to send a message to his Hotel by the return Train of Cars.—He was told to stop a little:—the Manager went to the corner of the Room and in 2 or 3 minutes told the Passenger that he had communicated his request by the Electric Telegraph, and received a reply that it would be attended to !!! Professor Morse of the United States has constructed an Electro-Magnetic Telegraph capable of *writing* a communication with facility at any conceivable distance. Could a line of Wires then be laid down from Amherstburgh to Quebec, by the employment of Magnets and an Electrical Machine, a message could be transmitted and a reply received in a few seconds of time!—The same principle has also been employed with success as a moving power and may ere long be employed to lessen animal labour, if not to supercede the power of Steam.

Etching Daguerreotype Plates.—A plate containing a Portrait or Landscape has been subjected to Chemical and Electric action for 30 seconds and engraved even to admit of impressions on Paper being printed from it—and so perfect that a Sign Board represented and measuring only one tenth of an Inch long and one 600th, of an Inch wide containing five lines of inscription could be distinctly read by the Microscope !!!

Why have white veils a tendency to promote sunburn and freckles?—Because they increase the power of the sun's light.

Why does a flannel covering keep a man warm in winter, and ice from melting in summer?—Because it both prevents the passage of heat from the man, and to the ice.