ARAGO’S DISC

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(325) The Director General of Roads and Bridges invites the Academy to accelerate the work that has been asked by the Government on high-pressure steam engines pressure.

Mr. Ferrand sends a new drawing of his lever marine.

M. de Lacépède makes a verbal report on History of the human race, of Mr. Virey.

Mr Mathieu, on behalf of a Commission, reads a report on an instrument of Mr Puissant's invention, intended mainly for the route of Panoramas, and that for this reason, he called Panorographe.

Mr. Arago puts under the eyes of the Academy a device which shows in a new form the action that the magnetized bodies and those who are not exercise the on each other.

In his first experiences (see notebook from December 1824, page 363), Mr. Arago had proved a plate of copper or any other substance solid or liquid, placed below a magnetized needle, exerts on this needle an action which has for immediate effect of altering the amplitude of the oscillations, without significantly change their duration. The phenomenon of which he has maintained today the Academy is, so to speak, the reverse of the previous one. Since a moving needle is stopped by a plate at rest, Mr. Arago thought he ensured that a resting needle would be driven by a plate in motion. If we turn, indeed, (326) a copper plate, for example, with a speed determined, under "magnetic needle enclosed in a vase closed on all sides, the needle is no longer placed in her ordinary position: she stops off the magnetic meridian, and even further from this plane that the rotation movement of the plate is faster. If this rotational movement is fast enough, the needle, at any distance from the plate, turns itself in a continuous manner around the wire to which it is suspended. We will come back soon to the laws of these singular phenomena.

Mr. Geoffroy finishes reading his memoir on the Fossil reptile of Caen, and announce another on the Bony head of a crocodile found in a mummy state in the catacombs of Thebes, and on the reports of this skull with those of the alleged animals of the same species that now live in Egypt.

M. de Humboldt reads a memoir on some physical Phenomena that the Cordillières des Andes offer from Quito, and the eastern part of the Himalayas. Mr. Edwards reads a memoir on muscle contractions produced by the contact of a solid body with the nerves, without galvanic arc.