

formed, with Lord Lansdowne at its head and Mr. Thomas Longman for its Treasurer, to promote the same object.

We understand that the Admiralty have complied with the recommendation of the Council of the Royal Society for the continuation of the Tidal Investigations in the North Sea, so successfully carried on last year by Captain Beechey—the valuable and interesting results of which have been published by the Royal Society in the “Philosophical Transactions.”

Mr. J. R. Hind has announced that a few nights ago he “discovered” a new planet on the borders of the constellations Aquila and Serpens, about 5 degrees east of the star Tau in Ophiuchus. It shines as a fine star of between the eighth and ninth magnitudes, and has a very steady yellow light. At moments it appears to have a disc, but the night was not sufficiently favourable for high magnifiers. At 13h. 13m. 16s. mean time its right ascension was 18h. 12m. 53.8s., and its north polar distance 93 deg. 16m. 0.9s. The diurnal motion in R. A. is about 1m. 2s. towards the west, and in N. P. D. two or three minutes towards the south.”

It appears that the Hudson's Bay Company have determined on sending Dr. Rae to the northern coasts of America to complete various discoveries in those regions. Although Dr. Rae has been subjected to the hardships of several Arctic winters, his health is unimpaired, and he is both willing and anxious to continue those researches in the Arctic regions which have already made his name celebrated among Arctic voyagers.

Mr. John W. Audubon, the artist, has commenced the publication of a series of Illustrations of his Mexican and California Tours; the admirable letter-press of which we reserve for notice in another issue of the Magazine. The engravings are of the large quarto size, and are finely executed

lithographs by Gildemeister, from drawings by Mr. Audubon, which have the authenticity of the camera lucida. A Fourth of July Camp, a Night Watch, the Canon Jesu Maria, and the Village of that name are the well chosen subjects of the four engravings in the first number. They are richly colored, and have each of them a genuine sentiment. The terraced little town of Jesu Maria would be a brilliant picture among M. Sattler's picturesque Austrian Alps. Mr. Audubon appeals to the public for the continuance of this enterprise, but there can surely be no doubt of its success.

In the Committee on the Estimates in the House of Commons Lord Mahon suggested, with reference to some very trivial vote for the Fine Arts, that a National Gallery of British Portraits would be a noble and cheap acquisition to the country. The Chancellor of the Exchequer supported this suggestion,—but did not offer any money in aid of the undertaking.

COMPARATIVE STRENGTH OF PLAIN AND CORRUGATED METAL.

SOME experiments have been recently made in Philadelphia, to test the comparative strength of plain and corrugated metal. Two pieces of copper, of equal surface and thickness, were formed into arches of about 15 inches in length; the one had a flat surface, and the other two corrugated arches. The arch with the flat surface gave way under a weight of a few pounds, while the corrugated arch withstood the weight of two men, who violently surged upon it, without making the least impression. In another experiment, made upon a larger scale, and under equal conditions, the plain arch gave way with 3,126 lbs. of pig iron upon its crown, while the corrugated arch bore the weight of 16,094 lbs. of the same metal for 48 hours, without the least perceptible deflection. This was afterwards increased to 27,000 lbs., which also remained for 48 hours, without the least deflection perceptible to the eye.

MRS. GRUNDY'S GATHERINGS.

THE PARIS AND LONDON FASHIONS.

DESCRIPTION OF THE ENGRAVING.

Morning Walking Dress, suitable for the country or the sea-side.—High dress of printed jaconet muslin. The ground white and the pattern small pink sprigs. The dress is one of those printed in the new style, with a front trimming consisting of two rows of a running pattern, or wreath of pink flowers. The skirt is finished at the bottom merely by a broad hem, and the corsage is drawn in. Round the waist is worn a ceinture of pink ribbon, fastened in a small bow in front. The sleeves are open at the ends and finished with a border similar to that which runs up the front of the skirt. Under-sleeves of clear white muslin, drawn at the wrists on bands of needle-work. Bonnet of open fancy straw, lined with pink silk, and trimmed with pink ribbon. Under-trimming small bouquets of roses. Yellow kid gloves.

Costume for a little boy from three to six years of age.—Frock and jacket of nankeen. The frock very short, and finished at the bottom of the skirt by a few rows of narrow white cotton braid, of graduated widths. The jacket is trimmed in corresponding style, and is fastened in front by three white double buttons and loops. Waistcoat of white piqué, buttoned up to the throat by small white fancy buttons. The sleeves of the jacket are demi-long and sloped up in front of the arm. Under-sleeves of white cambric muslin, gathered at the wrists on plain bands. Short trousers of white coutil, edged with broad scalloped needle-work of an open pattern. Short white stockings, and boots of drab-coloured cashmere tipped with black leather. A round hat of Leghorn, with bows and strings of white sarcenet ribbon. A long white ostrich feather is fastened on the left side, and after passing across the front of the hat, droops on the right side.

A bonnet remarkable for its *distingué* effect,