

between the bearings of S.E. by E. (round by the southward), and W.  $\frac{1}{2}$  S.; and coloured *red* towards the passage northward of the Beeves Rocks. Its height 40 feet over the level of the high water of spring tides.

Over top of the attached dwelling the tower is circular.

To steer southward of the rocks in the entrance to the River Fergus, keep southward or outside the limits of the *red* colour of the light.

The bearings stated are magnetic—Var.  $28\frac{1}{2}^{\circ}$  W.

By order,  
William Lees, Secretary.

Ballast Office, Dublin, 1st March, 1855.

#### NOTICE TO MARINERS.

*Kinsale Lighthouse, South Coast of Ireland.*

THE Port of Dublin Corporation hereby give notice, that on and after the evening of the 16th day of April, 1855, the *light* exhibited from the Lighthouse on the Old Head of Kinsale will be shown farther northerly within Courtmacsherry Bay.

*Specification given of the Light, as it will appear from Courtmacsherry Bay, by Mr. Halpin, Superintendent of Lighthouses.*

Kinsale Old Head Light is and will continue to be shown seaward and towards Kinsale Harbour as a *fixed bright light*; on the additional arc to be opened and lighted it will be *coloured red*, from a line across the entrance of Courtmacsherry Bay to the line of the Horse Rock; and farther within the bay, northward of that line, it will appear of the natural colour, a *fixed bright light*. Kinsale Light bears

From the Horse Rock (Courtmacsherry Bay), S.E. by E., distant 5 nautic miles.

From the Black Tom Rock, S.E.  $\frac{3}{4}$  E., distant 4 nautic miles.

From the Inner Barrels (east end), S.E.  $\frac{1}{2}$  S., distant  $3\frac{1}{2}$  nautic miles.

Vessels, unless trading to Courtmacsherry Harbour, should not pass into the bay within the limits of the *red colour* of the light.

Bearings stated are magnetic—Var.  $28^{\circ}$  W.

By order,  
William Lees, Secretary.

Ballast Office, Dublin, 15th February, 1855.

#### Patent Law Amendment Act, 1852.

Office of the Commissioners of Patents for Inventions.

NOTICE is hereby given, that provisional protection has been allowed

2661. To William Gilpin, of No. 2, Moorgate-street, London, and Abraham Bowen, of Stafford-street, Peckham, Engineers, for the invention of "a new method for the effectual consumption or prevention of smoke, and the more perfect combustion of coals and other fuel by means of a mechanical apparatus and furnaces of a certain construction; a portion of the same may be applied for raising water, and in furnaces where blast is required."

On their petition, recorded in the Office of the Commissioners on the 18th day of December, 1854.

126. To John Slack, of Manchester, in the county of Lancaster, Manager, for the invention of "improvements in the manufacture of velvets, velveteens, cords, and other woven

fabrics, in which floated threads or loops are formed, for the purpose of being cut."

On his petition, recorded in the Office of the Commissioners on the 17th day of January, 1855.

351. To Richard Archibald Brooman, of 166, Fleet-street, in the city of London, Patent Agent, for the invention of "a means of preparing the fibres of certain plants of the bean species, in order to form them into pulp, and to fit them for other manufacturing purposes."—A communication.

On his petition, recorded in the Office of the Commissioners on the 16th day of February, 1855.

432. To Thomas Helliwell, of Greenhirst Hay, near Todmorden, in the county of York, Cotton Spinner and Manufacturer, and Joseph Barker, of Houghstone Mill, near Todmorden aforesaid, Manufacturer, for the invention of "preserving pickers and picker-sticks, and for preventing cops being knocked off the spindle in the shuttle during the process of weaving in the powerloom."

On their petition, recorded in the Office of the Commissioners on the 28th day of February, 1855.

541. To Alexander Clark, of Gate-street, Lincoln's-inn-fields, in the county of Middlesex, Engineer, for the invention of "improvements in the construction and manufacture of celestial and terrestrial globes for the study of astronomy and geography."

543. To John Hughes, of Uskside Iron Works, Newport, Monmouth, for the invention of "an improvement in bushing the touch-holes of cannon."

544. To Charles Heaven, of Hull, for the invention of "improvements in machinery used for embroidering fabrics."

545. And to Auguste Edouard Loradoux Bellford, of 32, Essex-street, Strand, London, Patent Agent, for the invention of "improvements in machinery for making butt-hinges of wrought iron or other metal complete at one operation."—A communication.

On their several petitions, recorded in the Office of the Commissioners on the 10th day of March, 1855.

547. To Joseph Malcomson, of Portlaw, in the county of Waterford, in Ireland, Merchant, and Robert Shaw, of the same place, Merchant, and William Horn, of Mark-lane, in the city of London, Engineer, for the invention of "improved expansion valves for steam engines."

549. To John Brookes, of Birmingham, in the county of Warwick, Manufacturer, for the invention of "a new or improved waistcoat."

551. To George Mosley, of Southwark, in the county of Surrey, Button Maker, for the invention of "an improvement in buttons."

553. To William Prockter Stanley, of Peterborough, in the county of Northampton, Agricultural Implement Maker, for the invention of "an improvement in or addition to clod crushers."

555. And to James Murdoch Napier, of the York-road, Lambeth, in the county of Surrey, for the invention of "improvements in the furnaces used in the manufacture of soda or alkali."

On their several petitions, recorded in the Office of the Commissioners on the 12th day of March, 1855.

559. To Thomas William Willett, of 25, Belsize-road, St. John's Wood, in the county of Middlesex, Civil Engineer, for the invention of "certain improvements in swimming belts."