ch had been are foreyard y Mr. Thomas ham Thomas, ered; the fordays before. expeditions. seas; while equisition, so iralty for the re discbarged

n given, and

d Mr. Bootb, n board, with I we sailed at taking in our he Admiralty ng been the our steam, at it for a pilot, nery, Messrs. ot being dis-weighed at 6 rough which, argate under rate of going a fishing boat took leave of r separation, should ever

t have been, irly embark. on my mind: on than our en conjecturional forcing to be worked fresh water ared, even on ssible for the k, in a place lthough they e exhausted. them, whom fore he could et to be con-

when, about recze sprung our paddles nich, passing scharged our creased, and finding, that ery, the ship two pumps : orary incone doubling of on a former Crent, that it d, during the

consolation s well as any we were off ively smooth f the Isle of ff the Bill of uch, that we uence of her es in this deccure her by er, we again

reached smooth water under the Bolthead, where she was ef-

The wind continuing in the same quarter, but being more moderate, we passed close to the Lizard, cleared the Rundlestone a little before daybreak, May 27, and hauled up for the Longships, the wind being now directly against us. These last days had been employed by the engineer in exempling the days had been employed by the engineer in examining the machinery, and it was thus discovered that one of the guide wheels of the piston rod on the starboard side was so much where so the piston for on the starboard sho was so made worn, as to require a piece to be brazed to it, to restore its thickness, while the connecting keys of the main shaft were also found to be loose. It was plain that these defects were or ought to have been known to the manufacturer, who had a constalled to inform up of these and his connecting nevertheless omitted to inform us of them, and his concealing his negligence in not supplying spare keys, or any mode of re-medying the impending evil, of which he must or ought to have been fully aware, was in my opinion most unjustifiable.

Holding on, we, on the 28th, passed between the Long hips and the Wolf rock, and standing to the westward, observed the from iron, which, as might have been expected, gave way very shortly; so that it was not till after two days, and having made three new keys, that we were enabled to replace the machinery in what we hoped to prove a workable condition.

By our observations we we found that we had gained The ship, as I had expected, had now some less leaky, and boat from Kinsale, from which we procured a supply of fish.

The thirtieth, being Sunday, was made a day of rest hy us, as it had been made such by nature herself, since it was an also-olig asteadily adversal. lute calm; our latitude being 50° 43', and our longitude, west,

so that we were obliged to give up our hopes for such expedi-sactter ourselves from the increasing gale. ents, with all further attempts at repairing the evil in our present situation. Independently of this, the performance of the engine was most unsatisfactory. Even with a pressure of forty-five pounds on the inch, we could never obtain more than fifteen edge of the paddles had no greater velocity than five mires in the hour, that of the vessel could not possibly exceed three. The hoilers also continued to leak, though we had put dung and potatoes in them, by Mr. Erickson's direction. The men were moreover as fatigued by the work required at the extra were, moreover, so fatigued by the work required at the extra pump, for the supply of the boiler, that I contrived to get it

less attempts to remedy the evil inflicted on us by the discreditable conduct of our engine manufacturers. Finding, further, that the condensing apparatus was defective, inasmuch as the air pump always drew a quantity of water, and the feeding pump was insufficient to supply the boiler, we disconnected the whole apparatus, exce t the latter, which we proceeded to supply the supply with a smitt of wind on the coloring morning, which we proceeded to supply by a cock, and has a led the steam from the eduction us to weigh our anchor at six o'clock, with a breeze from the pipe, by tubes and hose to the upper deck, we put the engine in motion, and thus, by means of a pressure of forty-seven falling light, made little progress, though working the engine, obtained a velocity of sixteen strokes in as wo had attempted to do hefore, without the condensing apparatus was in action. It was thus shown that power had been strokes in the minute, and being unable to make some intended wasted, partly in this part of the contrivance, and partly through the vacuum pump; but whatever our correction was, it could have availed us nothing at sea, from the great loss of adverse. water to which it gave rise.

In addition to these unproductive corrections, we next tried the effect of disengaging the great bellows; yet though we saved considerable power in this manner, we found that it did not last, and that the small one was quite incapable of malataining the requisite heat, while it was now also plain, that they were wearing so fast as to threaten to become utterly useloss in no long time. Every thing, in fact, was imperfect, since even the cylinders were too small to perform the duties required of them, so that, if I had not been satisfied of it hefore, I was now convinced that we had little to expect from the as-sistance of an engine which, at the best, could, if acting alone, scarcely move our ship three miles in the hour, and was therefore utterly inadequate to ald us in taking in tow our consort the John, as had been contemplated in planning this expedition; or could not at least bave towed her faster than her own

In blaming the execution and workmanship of this engine, I must, however, do justice to the principle, which was judici-I must, however, do justice to the principle, which was judicious, and, under a careful execution, might have rendered this machinery of great service to us on many of the occasions which occurred in our voyage. The diminutions of weight, and the removal of inconvenience, caused by the omission of a funnel, and the Wolf rock, and standing to the westward, observed the latitude at noon in 50° 24′ N. On the 29th, another observation at the same hour gave us 50° 21′ N., and as we were nearly in the same longitude, we found, that during the last twenty-four hours, we had lost three miles in beating against a steady foul wind. The engine being, however, supposed eapable of being again used, we put on the steam, and as the wind had shifted to the ENE, began to make some way to the north. In the night, however, it was repeatedly stopped, by the keys of the main shaft hecoming loose; and on the 30th, at 4 a. M., the machinery correct, even to superfluity, since we were enabled the might, however, it was repeatedly stopped, by the keys of the main shaft becoming loose; and on the 30th, at 4 a.m., the machinery correct, even to superfluity, since we were enabled whole machine useless. On examination, it was found to have been formed of a bad piece of steel; and there heing none on beard sufficiently large to make a new one, we constructed one to the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft, such construction of the sea, above and below the shaft and sea, above and below the shaft and sea, above and sea, and the sea, a deck would not let out the water from that and from the pumps, without also letting in the sea, we were obliged to invent a remedy hy carrying a pipe from the pump to the scupper, which proved effectual.

at we were beaten by every The three new iron keys being ready, and the weather moderate, the fires were lighted and the engine again set to work derate, the fires were lighted and the engine again set to work after about an hour's trian, the fires were lighted and the engine again set to work after about an hour's trian, and fire the fire of Mann in time to get under its lee and the first ourselves from the increasing gale.

On this morning, June 4, we came to anchor in Douglas bay; when still desirou; to make another attempt with our engine, I here procured proper materials, so as to construct two new keys for the shaft; writing also to London and to Liverpool for strokes in the minute; and as it thence followed, that the outer supply of other spare ones, in case we should at all succeed in carrying this machinery further on our destination. We were here detained two days! yet losing nothing by the detention, since it blew a storm from the north-west the whole time, while we were thus also enabled to lay in a supply of beef, vegetables, and water.

wrought from the lower deck; though, even with this alteraof our rigging during our passage, we found that our present
tion, the labour continued too severe to be endured. ment. I therefore purchased some spars, together with some canvas, to replace the square sail, which we had lost during our voyage; here also receiving the visits of many friends, and others, all more or less interesting themselves in our success. Every thing being completed on the evening of the fifth, we waited for a change of weather, which accordingly took place strokes in the minute, and being unable to make some intended repairs while the engine was at work, we had once more to depend on our sails alone, and against a wind which was now

On Sunday, June 7, we were off the harbour of Peel, when