Mr Brunel
requests Sir
see a few plans under
a such Appointment as
he thinks

7 Portland Street,
(Mrs King's,)
Commercial Road East
Tuesday, Mar 30/58.

R. Brunel, Esq.,

Sir.

I am exceedingly desirous of a personal interview with you at your offices to-morrow (Wednesday,) at any hour you can possibly arrange for such, to shew to you certain perfect steam safety valve arrangements I have patented, and concerning which I would preface the following special remarks. Your compliance will very much and especially oblige —

Sir,

Most respectfully

Peter Arrivé.

18 Duke St. Westminster.

Steam Safety Valves.

Boiler Proprietors believe to receive supplied from the engineer and boiler-maker maximum means of safety from safety valves supplied with their boilers; they will receive minimum instead, with the ordinary or common valve, which is single-seated. This patent is, variously arranged, the same valve to act doubly seated, employing the original seat, or, constructs another, a like valve, which seated upon several thin and flat silver rings becomes practically more certain of action than any other two distinctive valves each single-seated; less costly than two such; whilst it fully assures the safety action also of both, more certainly, inasmuch as no ordinary number of valves, which are only the generative steam safety valves, can prevent explosion occurens from the large volumes of steam which may become suddenly generate within the boiler; wherefore we are to suppose them of one perfect valve, one of sufficient capacity is req.

These patent valves then stand upon the undeniable position that every other of valves are imperfect, first, because lacking unfitting parts, and

uses the basis of the Flexible Disc's construction for movement, appropriates power for movement unlimited but by expediency. The first is afforded from annular flat silver rings, the latter from the practical application of the well known 'hydrostatic paradox'. As concerns this, the weight of quicksilver or mercury is employed preferably, and the tube of iron 3-8 ths of an inch diameter containing the same, as employed for loading the valve, may be conveyed away to any distant locality, or it may be stood upright, and of which the absolute weight of fluid mercury contents equal to resist steam pressure of 25 lb. to the square-inch is 2¾ lb. only, with the height of 44¼ feet above the surface of the flexible disc; and continues so irrespective of any diameter of disc as well as of any diameter whatsoever of the valve. Such valve may be fixed to act wholly inside of the boiler for ships of war, and the tube alone constitutes all of the external arrangement. In the manner the quicksilver is employed it is incapable of overloading and of deterioration.

Peter Arrivi.

March 20/58.

Ebt. Polar Arrive
D. 30 march 1858