| The content of the

W. McLeod, Churles J. Melick, Stephen Whitte-kir, and Thomas Hatheway.

ordinary circumstances 50 to 100 lbs. of pressure on the square inch is the senal expansive power of steam, but in head winds, or foving heavy vessels, or racing they may work and we believe they do, up to from 100 to 200 lbs. The low pressure steam of samy of these boats is raised to between 20 and 307 lbs. per inch, and is properly called high low pressure steam; in this is to be found the true cause of the frequency of the dreadful accidents which have happened.

We shall be fold that high pressure steam or high low pressure steam is as easie as the low pressure, been set the boilers are made strong in proportion—the when builers are new, a scale of proportion is (frequently) resorted to in the chickness of the boiler plate we very well know, and that a similar proportion is observed in the construction of low pressure boilers—but supposing these proportions be correct in the first instance, and raidly adhered to in the next, which we know is not always so, who will be found to argoe that a boiler calculated to instain the pressure them new, of 100 lbs. for he inch or even of 200 lbs. will retain the same capability for even of 200 lbs. will retain the same capability for another revolution arises, no with a steam boiler there as a period when its power of resistance fails, and bursting is the necessary consequence. This we know applies equally to the low pressure boilers—but experience has amply proved that when a low pressure boiler does burst, the dreadful consequences strondant upon the bursting of a high pressure policy able to call the engine low pressure so of the entire in the first place, and to save appearance, by being able to call the engine low pressure of 50 horse power; a low pressure engine costs from £40 to £50 per horse power engine costs from £40 to £50 per horse power engine costs from £40 to £50 per

er worked by steam of 4 to 7 lbs on the inch, necessarily costs more than a 50 horse power engine worked by steam of 25 lbs. to the square inch, and in these two causes are to be found the result bold to high pressure steam, and to high low pressure steam, as well as the abundonment of the old low pressure engine which to eminently combines other than the steam of th

Disonscept, Riot is Philadelphia.—The Philadelphia Gazette of Monday evening, gives the following account of a terrible tiot in that city on an

Philadelphia Gazette of Monday evaning, gives the following account of a terrible riot in that city on that day:

"This morning, between ten and eleven o'clock, a most alarming riot and fight, attended with much personal injury and bloodshed, took place between white and black persons, in the vicinity of South and Seventh streets. All ages and sizes and colored persons of both seesawere engaged in it.

The affray began in Shippen street, between Fourth and Fifth, in consequence of an attack made by several white boys upon a procession of temporance colored men and boys who were marching through the streets, intending to participate during the day in a temperance festival over Schrylkill.

Soon after the onset, the fight became general and missiles of every doscription and intended to the neighbor lound of South and Sixth to Seventh and through St. May's street, where for a time the melse was of the meat violent character. All the houses in the Aminty occupied by black persons were attacked, and in a few moments thousands of brickbats burtled through the air, back and forth, with the greatest profusion and violence.

A large number of white and black persons were stacked, and in a few moments thousands of brickbats burtled through the air, back and forth, with the greatest profusion and violence.

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The city police officers with the Mayor soon arrived, and the combatants were dispersed. A number of the riplecaders were areas and stores in the vicinity were closed and the innates sought refuge within doors.

The city police officers with the Mayor soon arrived, and the combatants were dispersed. A number of the riplecaders were arrested and put in confinement. Officer Whisner, of Meyamensing, arrested one desperste character, who, it is believed, stabled one of the white men.

Between twelve and one o'clock, although the throng was im

The houses in the neighborhood windows. A small church in St. Mary street, suffered somewhat in the breaking of windows.

The Evening Journal says that the colored procession independent of the temperance festival, were celebrating the anniversary of the liberation of slaves in the Island of Januaica, and had one or two banners which it is alleged gave offence and ansed the difficulty.

AThe United States Gazette of yesterday morning Twillat as night drew on the riot was renawed,—windowses in Lombard street were attacked, the of colored of furniture destroyed. Great numbers for safety. To be field to the other side of the river

Some twenty the af the rioters were arrested in the evening.

A large building in Lombard street, new and handsome, but not finished, was set on fire and destroyed. It was erected at the cost of a weating colored man, engaged in the humber business. An impression prevailed that it was intended for the use of abolition societies.

Soon after, a meeting-house in St. Mary 'street was attacked, and in like minner destroyed. The firemen played on neither of these buildings, but saved the adjoining houses. At midnight all was quiet. The Gazette says that the forces of the white mobbites was beyond all pracedent.

The recent melancholy accident which befel the Shamrock steam freight boat, in Canada, has prompted a member of Parliament to frature a Bill for introduction during the approaching session, calculated to check the employment of high pressure engines—and thus secure travellers from a recurrence of such casualties.

Hatipax, August 10.—Two Companies of the 76th Regt, with shout 80 invalids from the Regiments in this Command, will, we understand embark on board the Premier, Transport, in the course of next week.

bark of board the Fremer, Transport, it is of not week.

The Java, Troopship, may be hourly looked for from Bermuda, with the Head Quarters of the second Batalion Rithe Brigade.

Lt. Col. Mercer, R. A. who has been relieved by Lt. Col. Jackson, will proceed to England in the

the Garrison upon the Mercer.

A Private of the 52d Regiment shot himself while in a fit of temporary insanity.

Communications. Mn. Epiron.--With your permission I will re-ume the subject of steam and steamboats as inti-

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