In a very severe trial of the Perkins marine engine and boiler, lasting for twelve hours, with four hundred pounds' pressure, the total consumption of fuel was 1.79 pounds per indicated horse-power per hour.

The Fitchburg Railroad is building improved passenger cars. The seats are upholstered so as to make a comfortable rest for the head, and fenders keep cinders from entering the windows. The cars are heated and ventilated by what is called the Spear System. Air is forced in by the motion of the car, passes through a furnace, and is distributed to registers connected with each seat. A new feature is the lavatory, which is placed at one side near the end of the car. Water is supplied from a tank with pressure derived from the air-brake system, and fifty feet of hose is attached for use in putting out fires.

The late issue of the present number was caused by the non-arrival of the cuts for the illustrated article; the delay being occasioned by bad weather interfering with the photo-engraving process.

Athletics.

Our foot-ball team played its second game with Harvard on Holmes Field, Nov. 27.

In the first innings the Institute men seemed to get utterly demoralized, the Harvards having it about their own way, and it was with little difficulty that two goals and four touch-downs were scored by the Crimson; zero for M. I. T.

In the second half the M. I. T. braced up and really did some good work, for it was only after a sharp and close struggle that Harvard at the end of the innings succeeded, by a lucky kick from the field, in obtaining another goal. Referee, Goodwin. Umpires, Keith for Harvard, Fiske for M. I. T.

The fall meeting of the H. A. A., which was held Oct. 28, on Jarvis Field, was well attended, but, with the exception of the remarkable running of Baker, was of no special interest.

The Harvard Freshmen recently with thirteen men beat the 'Varsity eleven two goals to four touch-downs.

The question of forming a lacrosse club at the Institute has for some time been agitated, and it is with pleasure that we observe that the answer has at last taken tangible form. Though no fixed association has as yet been established, twenty-five or thirty men are already at work in the field with their crosses, and we may hope to have a regular club at no very distant date.

At Montreal, Oct. 21, on the Shamrock L. C. grounds, R. McKennie, Toronto, L. C., threw the lacrosse ball 140 yards 2 feet. This is now the best record in the world, supplanting 135 yards 3 inches by F. Lally at Toronto, Sept. 30, 1882.

The Yale Game.

The game was called at 3 p.m. The toss was won by the Techs, who took the goal from which the wind was blowing. Yale had the kick-off, and the ball was sent at once to the Institute's end of the field. Yale's men were on the ball very quickly, and a goal was kicked from the field for them inside the first five minutes, by Richards.

The Techs then kicked the ball off, but the superior weight of the Yale team again carried the ball very near the Tech's goal. After some sharp playing by both sides Yale secured a touch-down, but failed to score a goal.

At the end of the first three quarters, during which the ball was forced very near Yale's goal, the score stood 4 goals and 1 touch-down for Yale.

At the beginning of the last three quarters the Techs had the kick-off, and the ball went down to Yale's end of the field. The Techs were too light to keep it there, and the play was soon forced to the centre of the field.

At the end of the game the score was 6 goals and 2 touch-downs for Yale, 2 goals being kicked from the field.

The Techs played well, and were highly complimented by the remarks of the spectators, the kicking of Haines being especially noticed.

The Institute team were ahead of Yale in throwing and catching the ball, and equal to them in tackling. In other points they were far behind, but with so little chance for practice it is not to be wondered at; in fact it is surprising that they play so well.

There are good grounds for the manifest dissatisfaction with the referee, many points which really ought to have been given to the Techs being given to Yale at critical points of the game. These decisions gave Yale a decided advantage, and made her score larger than it should be.

boss.