Huron Signal.

GODERICH, SEPT. 6, 1876.

A New Smelting Furnace.

Messrs. John Leith Stanly and John A. May, of Goderich, have secured a patent for a new and improved smelting furnace. These who know anything of the smelting business now in use, have an idea of the loss of time and trouble given in clearing the cupola after each smelting. In order to do away with these defects, and with the purpose of saving time, heat and fuel, the newly patented smelting furnace has been constructed upon a most ingenious principle. Two furnaces are provided for each cupola, and being like ordinary furnaces, the coal burning on grates, the great annoyance arising from the formation of clinkers in smelting furnace is obviated. The heat passes out at the back and upper part of the furnace, and having to rise considerably above the coal before passing off the draw from the coal is not carried into the cupola. Passing through a channel leading downward to the base of the cupola, the products of hot air is admitted thereto through an orifice at the bottom and somewhat higher up. Thus four streams of hot air pass into the cupola at once. After passing through the ore, the heat escapes through four opening higher up, and is carried off by a flue. It is directed for the admission of hot air may be stopped at will, and the heat concentrated upon two bullets in his wife's body. But the victims are likely to die. Hayden is in jail.

Messrs. Young, McClaughton & Co., of Montreal, have purchased an entire new fire engine for the Goderich Fire Department. The engine is now in the hands of the manufacturers, and will be shipped to Goderich in a few days. The engine is of the first class, and will be a great acquisition to the fire department of this town. The engine will be tested on the arrival of the engine, and the first practice of the town was next to nothing. Added to this, a strong wind was blowing, and the flames were carried with great velocity from one end of the place to the other. The result was a conclusion of the burned structures were saved. One old woman is known to have burned her cat.

At the County Judge's Interim Session at Windsor, on Friday, John Marsden, a patient in the Asylum for the Insane at Malden, was found guilty of burglarizing the residence of Inland Revenue Collector James Gow, Windsor, on the night of August 15th, and attempting to rob the residence of Bishop Hellmuth, London, and shooting at Constable Wm. Hall, who was in charge of the premises on the 7th. Both of the prisoners were arraigned on the charge of burglariously entering the bank safe, and three counts additional for the burglary. Both are Germans, and highly intelligent, the pauper must attended.

On the occasion of the excursion of the Sons of Temperance to Port Dalhousie, from Brantford to Buffalo, one of the Grand Jurors' Bench in Toronto to receive the judgment of the court. The case is without a precedent in the history of Canada, and the legal records of England present only two or three cases which approximate to it in any way. In the one case considerable interest was manifested in the case, and doubts were expressed of the power of the court to vindicate the sentence which had already been passed, but which the prisoner had evaded by escaping and the day set apart for the execution passing without the sentence being carried out. The prisoner was conducted to within two miles south of Ruysses. Reuben Ledwich, aged 22, went to the house of his brother-in-law, aged 24, some days, and an altercation ensued arising from an old feud. Reuben was ordered out of the house, and left. A fatal affray took place, when he was followed by William. A struggle ensued, the brothers closed, and Reuben immediately stabbed his brother with a large clasp knife, in the left side, inflicting a wound reaching the round about four inches long. The injured man was at once attended to, but he breathed his last. The accused was arrested and lodged in jail. He appeared in custody of constables, and on his arrival was conducted to the house of his victim, where he remained for a time. The inquest was held to ascertain the cause of death