



Factory of the American Watch Co.-Waltham, Mass.

**John Segsworth & Co.,**  
 23 SCOTT ST., - TORONTO, ONT.,  
 IMPORTERS OF  
**DIAMONDS, WATCHES & JEWELRY**

JUST RECEIVED A LARGE LINE OF  
 SWISS WATCHES IN GOLD, SILVER & NICKEL.  
**GOOD VALUE. INSPECTION INVITED.**

Canadian Agents for Waltham Watches.

The power of modern guns is illustrated by experiments made in Italy October 1, 1884. An Armstrong 100-ton breech-loading gun, having a calibre of 17 inches, was fired, with charges of 772 pounds of powder and forged steel projectiles weighing 1,841 pounds, against targets distant about 100 yards, one of which was a solid steel plate 19 inches thick backed by 20 inches of teak. The other targets varied only in material. Each target was perforated in the first round, the projectile passing through with a considerable surplus of power.

In two recently excavated houses at Pompeii the paintings on the wall are as fresh as if just put on, and the halls are rich with decorations. Some of the marble tables are still standing the fountains in the atrium and peristyle, with their pretty little statues and mosaics, look as if they might begin to play at any moment; the kitchen hearths, built like ranges, seem ready

for their pots and kettles; a few flower pots are still set in the gardens, in the storerooms are some oil jars and wine jars; it is as if one might begin house-keeping to-morrow and invite one's friends to dinner the day after.

A machine is said to have been invented by a mechanic for the generation of heat in buildings where power is used, without fire. It consists of an iron cylinder about a foot long and a foot in diameter. The bottom of the cylinder is a hardened plate upon which another plate of the same diameter turns—the pressure being regulated by a screw, according to the power that is to be applied and the amount of heat desired. All the space not taken up by the wheel and shaft is filled with water. As soon as the wheel is set in motion the water is brought up to a high temperature, and the cylinder becomes a stove, which radiates heat from the whole of its exterior surface.

Each of the various countries on the Continent where glass is manufactured produces an article peculiar to itself and unlike its neighbors, and one of the specialties of Austrian glass-making is the manufacture of various fabrics for ladies' wear from spun glass. The glass is spun into threads, like ordinary silk or cotton, and woven into different colored fabrics, sometimes entirely of glass and sometimes with a warp of silk or cotton. Collars, neckties, cords and tassels, fringes, pin-cushions, feathers, belts, etc., are all made of this material. At the Paris Exhibition in 1878 a bonnet made entirely of spun glass, with feather and ribbons lined with silk, was shown, as well as cloaks and other articles of wear. This spun glass is also used for watch chains, brushes, etc. Glass flowers are also made to a considerable extent, but it is difficult for these to compete with those made from china.

W. G. A. HEMMING.

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