with black flints, as may be seen in several towers of churches. This irregular manner remained until bricks came into gen eral use, when they began to use the Flem ish manner of conding them. Towards the latter end of the reign of Henry VII. and beginning of that of Henry VIII. the mansions began to lose their real castellated character, though still retaining many of its peculiarities. Small windows, thick walls, base courts, turrets and a sort of embattled parapet still continued. Layer Marney Hall, in Essex (built temp. Henry VIII., appears to be of this description. Chequered compartments of flint and diagonal lines of dark glazed brick were frequently introduced into the fronts of buildings about this period. There was a large court in the centre and a towered gateway. About the year 1530 Hans Holbein built a beautiful gate opposite the Banqueting House, Whitehall, in the chequered style of brick and stone and black flints, and ornamented the fronts with busts in circular recesses, with mouldings around them of baked clay, in proper colours, and glazed in the manner of delft ware. Buildings of deep red bricks, chequered with others glazed and darker. window frames of stones, or bricks covered with plaster are of this age; and during the reigns of Mary and Elizabeth the ornaments of Grecian architecture were frequently imitated in burnt clay, and laced the fronts of houses, and covered the shafts of chimneys. For this purpose fantastical figures were introduced and continued till the reign of James I., when they began to make plainer chimneys (because, perhaps, no longer erected for memorials), and these moulded bricks were laid aside. In this and the preceding reign the walling was very bad, being mere rubbish, or even turf or peat, between two thin shells of brick. Inigo Jones introduced a better method, and Sir Richard Crispe, the patriotic friend of Charles I., is said to have been the inventor of the art of making them as now practised.

Rogers & Hamilton, plumbers, Hamilton, Ont., have dissolved partnership.

A case is reported in La Semaine des Constructeurs of several cases of poisoning on board a ship which followed the use of water contained in a tank, the in-

vor of which was painted with red lead. The municipal laborater of Paris warned the ship owners that in order to avoid similar danger in future they must paint the interior of the tank with coal tar or mineral pitch dissolved in turpentine or benzine.

CEMENTING LEATHER TO IRON.—To cement leather to iron, cut the leather roughly to shape, allowing about one inch per foot in the width of the pulley soak the leather in water until it is wet through. Now stretch it well in the direction of the circumference of the pulley and cut it to exact shape and length. should next be sewn up butt to butt with a shoemaker's awl and thread, and the leather, having been stretched in the direction of circumference only, will, as it gets dry, have a tendency to resume its former shape, thereby shortening in cir cumference and "clip" to the pulley A shallow groove might be made for the stitches to sink in.

SCORIA PAVING BLOCKS Are the Best Paving Material yet discovered.

W. H. KNOWLTON & CO., Dealers in Contractors Supplies, 36 King St. E., Toronto

EVERY ENGINEER AND CONTRACTOR

Should possess a copy of the Second Edition of the Canadian Contractors' Hand-Book, a compendium of useful information for persons engaged on works of construction, containing upwards of 150 pages. Price \$1.50; to subscribers of the CANADIAN ARCHI-TROT AND BUILDER, \$1.00.

C. H. MORTIMER, Publisher,

Confederation Life Building, TORONTO,

MONTREAL PIPE FOUNDRY CO., LTD.

DRUMMOND MCCALL PIPE FOUNDRY CO., LGD. Manufacturers of

GAST IRON WATER >

and General Water and Gas Special Castings.

Prices on Application.

Offices, Canada Life Building, MONTREAL.

TAREE RIVERS, P. Q.

Montreal Office: IMPERIAL BUILDING.

iron ater and Gas

of best quality, from 2 inches in diameter.

HYDRANIS, VALVES and GENERAL CASTINGS.

Manufacturers of

Salt-Glazed

Vitrified

SEWER

Double Strength Railway Cul-vert Pipes, Inverts, Vents,

GOODS



ALL KINDS OF FIRE CLAY

ALEX. GARTSHORE, President.

J. G. ALLAN, Secretary and Treasurer.

Jas. Thomson, Vice-President and General Manager.

Lianufacturer: of

Flexible and Flange Pipe, Special Castings and all kinds of Waterworks Supplies.

3 inches to 60 inches diameter.

For Water, Gas, Culvert and Sewer

HAMILTON, ONT.

MUNICIPAL DEBENTURES wanted for foreign clients. We can place Debentures direct with foreign clients without charge to municipalities. : : : Commission allowed to persons introducing new business : : : :

ÆMILIUS JARVIS & CO. Stock and Bond Brokers. Investment agente. 23 King St. West, TORONTO

ELECTRIC RAILWAY BONDS PURCHASED.

STOCK EXCHANGE ORDERS PROMPTLY EXECUTED