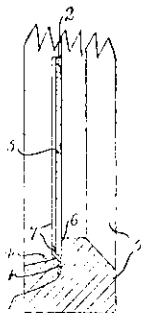
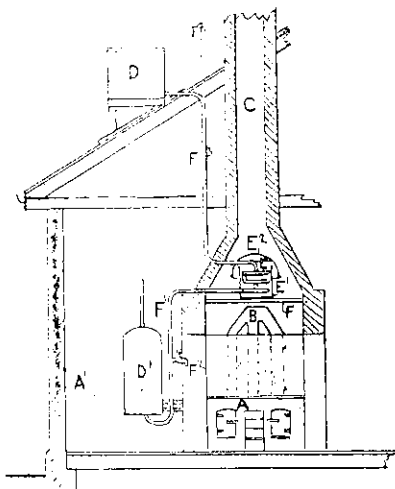


GLASS-SECURING IN WINDOW-SASHES, DOORS, ETC.—A patent, No. 41128, has been taken out by Harry V. Mooney, of Wellington. According to this invention, instead of using the ordinary method in which glass is finally secured by means of putty or the like, a groove is provided in the sash when the sash is being constructed, into which a soft metallic plate or strip is inserted. This metal plate is bent outward to enable the glass to be inserted against a ledge



in the sash, and the metal is then pressed inwards upon the glass for the purpose of retaining it. Preferably a filling of white-lead or other suitable substance is inserted into the groove in the frame and upon the portion of metal which is inserted into the said groove, and a similar filling is inserted along the edges of the glass, and upon the metal surface that is turned in upon the glass, and upon the ledge, with a view to making the windows weather-proof.

WATER-HEATER—A patent, No. 41149, has been taken out by William John Dyas, of Maseburgh, Dunedin. According to this invention a number of coils of metal tubing are connected up and encased in a cylinder, and preferably have a



bafling-hood over them. These are placed immediately above the range or fire flues in a convenient part of the usual chimney and water so heated is led down to the usual hot-water cylinder, or otherwise as preferred.

ARTIFICIAL STONE—A patent, No. 39968, has been taken out by James H. C. Hunter, of Auckland. Portland cement, hydrated lime, and pulverized alum are put separately through a fine flour-sieve, and then mixed together. After being mixed the ingredients are again sieved. The mixture is then added to the following ingredients: Boiling water, hard soap, cold water. The soap is allowed to dissolve in the boiling water before the cold water is added. When cool the water and soap are added to the above mixture of Portland cement, hydrated lime, and pulverized alum until a thin paste is formed. Any desired colouring-matter may be added.

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