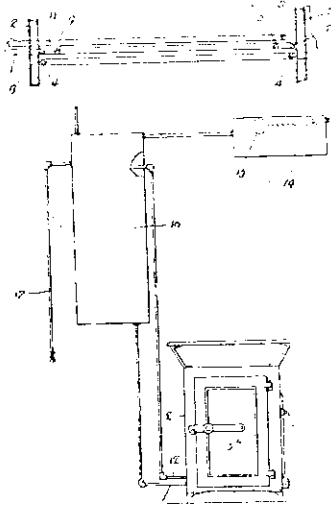
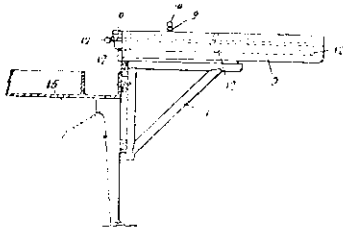


way and at the same level as the doubled portions at the other side. The pipe then assumes a slightly higher level and commencing at the back of the oven is passed once round the latter, the side portions of the pipe at the higher level being located over the spaces between the doubled portions of the pipes at the lower level. The flames from the oven-burners come in contact with three sections of the



pipe at each side of the oven, whereby a maximum area of heating surface is obtained. The hot water passes from the pipe at the higher level at the rear of the first-mentioned side and in close proximity to the inlet. The pipe passed around the interior of an oven as described is connected up to a supply-tank and a cistern, from which the hot water is drawn off.

Tile-Colouring Device.—A patent, No. 42,489, has been taken out by G. Penman, 35 Ascot Avenue, and W. M. Jeffery, both of Remuera, Auckland, which comprises a drawer with a perforated bottom, slidable in a frame supported on a bracket secured to the tile-making machine, and adapted to be drawn out so that colouring-material placed in the drawer can be worked through the bottom and spread evenly over a tile beneath. Horizontal slips or runners at the sides of the drawer are rebated in both the latter and the frame, and are secured to drawer, said slips or runners being longer than the drawer and extending behind same, so that when the drawer is pulled out it is supported by said slips. The drawer is provided with guide-



pieces on the upper edges of its sides, and has a cover or lid hinged at the back, spaces being left at the sides to permit uprights from a drag or agitator within the drawer to project therefrom and be connected by a cross-bar with a handle therein by means of which the drag can be moved backwards and forwards in the drawer to work the colouring-material through the perforated bottom. Friction-rollers recessed in the lower edges of the drawer-sides run on wearing-strips secured on rails below the drawer, and facilitate the moving of same into and out of the frame. A tray is provided in the frame to catch colouring-material likely to escape from the drawer when the latter is in the frame and not over a tile.

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