hold them a sufficient length of time to melt the solder, have insurance companies that all new structures, and particularly the other pair of tongs warmed to about the heat of a sad factories and shops where wood is to be used, shall be made iron; now carefully draw the hot tongs off toward the back of fire-resisting or slow burning. The plan suggested is worthy the saw, having the back rest firmly against supports so that of attention, because it often happens that if the fire can only the saw cannot move edgewise; have another person follow be confined to the interior of the building for even a few moup the hot tongs with those merely warmed; hold the grip ments, much property, and perhaps many lives, can be saved, with the warm tongs until the joints are fairly set, when For the floors it is proposed to use heavy timbers 30.5 centinothing remains to be done more than file off the surplus references (12 by 14 inches), and or these to determine the country of the same to be done more than file off the surplus references (12 by 14 inches), and or these to determine the country of the same to be done more than file off the surplus references (12 by 14 inches), and or these to determine the country of the same to be done more than file off the surplus references (12 by 14 inches), and or these to determine the country of the same to be done more than file off the surplus references (12 by 14 inches), and or the same to be done to the same to be done to the same to be done to the same solder. The above process will be found much better than lay matched planks 7.6 centimetres (three inches) thick. cooling off the joints with water, as it is liable to harden and Over these planks is to be a layer of roofing-felt, or mortar, crack the blade. The soldering and cooling tongs should be and in this mortar is to be bedded flooring boards of the made heavy and strong. The cooling tongs should not be usual thickness. Such a floor would burn, but so slowly that used entirely cold, as the sudden chilling will harden the the fire would be a long time eating its way through. The plate. If the process be properly performed the saw will be aim is to gain time, for time is the one element of safety at of the same temper at the splices as other parts.—Industrial all fires. For the roof the supporting beams are to be of the World.

buildings. It is therefore proposed by one of the leading fire beams.—American Manufacturer.

same size, and the top is to be of matched planks 7.6 centimetres thick, and covered on the outside with any form of roofing that may be desired. The ends of the beams are to FLOORS FOR FACTORIES.—So long as wood must be used pass through the outer walls, and to be finished as brackets for floors and roofs there can be no such thing as fire-proof to support the planking that is carried to the ends of the

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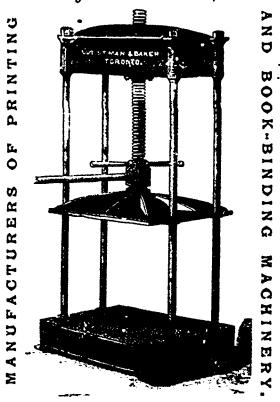
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