

walls, outward pressure of roof and shear, due to unequal settling. In barns and other building in which large stock is kept, the crowding of the stock should always be considered in addition to the forms already mentioned in dwellings. In all out-buildings the different materials to be stored should always be considered.

In regard to the danger of stock crowding masonry walls, I was interested in finding a clay block blacksmith shop in the northern part of Iowa. This shop was some 30 feet wide and some 50 feet long. At the front end the walls were 12 feet high sloping to 9 feet at the back end. They were 8 in. thick and contained no reinforcement. Along side of this shop, and secured to the wall, were 13 tie rings. Frequently to all of these rings have been secured horses waiting to be shod. Halter pullers have repeatedly broken $\frac{3}{4}$ inch ropes secured to them and the wall has not been injured in any way.

Instead of an 8 in. wall in this shop a 5 ft. wall could have been made fully as strong and more cheaply by reinforcing it. In reinforcing a straight wall against flecture, there must be side supports. Joists may be utilized for tying walls together. In the absence of other supports reinforced pilasters may be built into the wall. All corners must be thoroughly tied into the wall with good wall ties.

Horizontal reinforcement may generally be placed in the mortar

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joints to the best advantage, but in some cases such as over windows and doors, a hole may be broken in each block at the top and steel extending through the blocks may then be secured by pouring the block full of concrete.

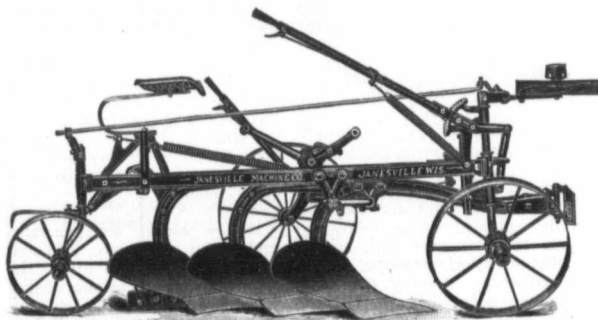
The most convenient size of reinforcement to use for mortar joints is No. 3 wire which is $\frac{1}{4}$ in. in diameter. Sometimes the greater availability of No. 9 wire may recommend its use and for reinforcing blocks which are fill-

ed with steel and concrete, any convenient size of steel may be used.

House Construction.

Clay blocks have been used to quite an extent in the construction of houses. The usual meth-

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In the first place, this Janesville gang is provided with extra heavy beams—both of which extend beyond the frame in front, allowing a very long cross clevis to be attached. This clevis gives you choice of four horse abreast—or four, five or six horse tandem hitch.

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