

PLAN OF CATTLE BARN.

TO THE GAZETTE :

Under the head "Items," in your last issue, Curtis Holgate & Co., of Defiance, Ohio., write you regarding a plan of barn which you published in the first volume of your most valuable paper. Had frequently heard subscribers to THE GAZETTE speak of the plan referred to, and I should be very glad to get it. Have been a reader of THE GAZETTE since last June, and let me say that it would take considerable cash in hand to induce me to part with it. CHAS. E BENNETT.

REPLY —The barn alluded to by Messrs Curtis Holgate & Co., as well as Mr Bennett, is undoubtedly that of Mr. E. W. Payne, of Morrisson, Ill., illustrated by us April 6, 1882, from drawings furnished by the owner. It is seldom that we find space to publish anything that has previously appeared

lime. The sills are 8x8, and lower joints 2x8. The main barn is 32x80, and built after a design of my own. The bents of the frame are 10 ft. to centres, and each bent is constructed of two 2x6 studding for each outside post, and the inner posts, which slope slightly outwards at the top, with a tie joist reaching through from outside to outside, spiked between the two studding. These bents are fastened together by ribbons 2x6, gained in a half inch, and are gained into the studding $1\frac{1}{2}$ in., bringing the ribbons flush. The second joists are supported by a 4x4 cut between the inner posts and beveled on top to take the bearing of the joists, and are supported by three 2x6 studding for each 10 ft. set upon the sill and cut under the ribbon and 4x1, these short studdings being set at the same slope as the posts, and 3 ft. 4 in. to centres, which is the space allotted to each animal. The hay loft is clear from floor to peak, in which a track is constructed and Porter's hay carrier

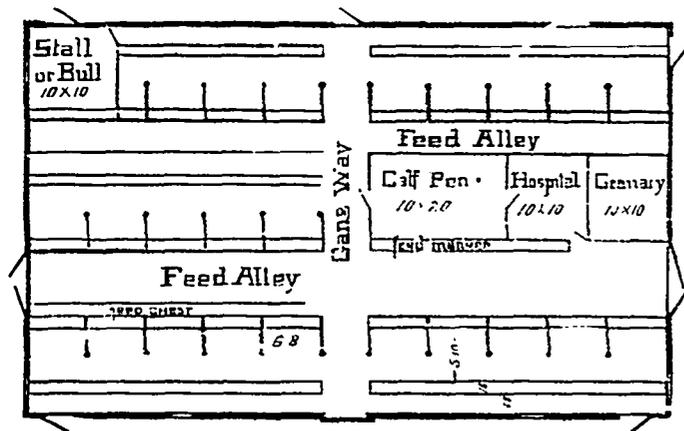


Fig. 1.

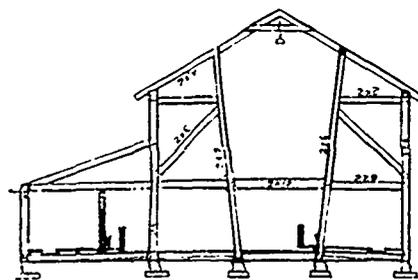


Fig. 2.

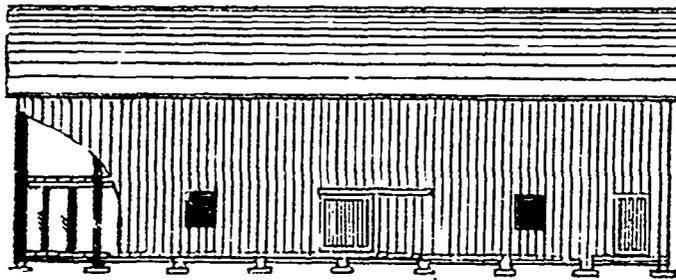


Fig. 3.

in our columns, no matter how long a period may have elapsed since the original publication was made; but the plan referred to above is of such a simple, practical nature, that we feel disposed to accommodate our present correspondent as well as hundreds of other new readers, by again inserting the plates with Mr Payne's description. This is rendered necessary from the fact that our edition of THE GAZETTE in which the plan originally appeared, is entirely exhausted. Mr. Payne's description is as follows:

It is strictly a cattle barn; is set upon concrete piers, made of cement and gravel, each pier standing upon a footing 2x3 feet, and 6 inches deep, made of best Portland cement to resist frost. These piers are 2 feet long, 14 in. thick at bottom and 10 in. at top and 18 in. high, standing 10 ft. to centres, and are made of Louisville and Akron cement and gravel. I think they cost more than stonework would have done, but the expense might have been lightened by using some quick-

used. The hay is mowed between the bents at the sides with very little labor. The track does not extend outside of the barn, and no difficulty is found in operating the carrier six feet to one side of the load. The floor is divided into double stalls 6 ft 8 in. to centre, and the partitions extend across the manger. Cattle are tied to chains attached to an iron staple at the side, upon which the chain can slide up or down sixteen inches. A feed alley runs through the whole length of the main barn, cattle standing with heads to the centre. There is on one whole side an addition of 16 ft. wide arranged in stalls and a box stall for a bull, which opens into a yard for exercise, as shown in the diagram.

OUR ENGRAVINGS.

Illustrations of Stacks, thatching, &c.
Mr Payne's Barn.