

AN EFFICIENT

A SIMPLE yet efficient bale elevator designed and built by Mr. D. H. Hansen, Beeville, Taupiri, is described in the following article. All the welding and the greater part of the other work were done by Mr. Hansen working from a wheel chair. The elevator handled 600 tons of hay efficiently during last season.

THE elevator will stack up to a height of 12ft. 6in. before any further lifting of bales is required and will handle up to six bales a minute.

A good workshop is essential for the building of such a machine, and Mr. Hansen fortunately has both an acetylene and an electric welding plant and is adept in their use.

Fig. 1 shows construction in progress. The elevation is determined by passing a bar through holes drilled in a semi-circular plate.

Fig. 2 shows two bales on the elevator together, the maximum capacity being three bales at a time.

Fig. 3 shows the position of a 1½ h.p. petrol engine (cover raised) and also the manner in which bales are automatically picked up as they leave the press. The blocks fall clear in the gap between the chute of the baler and the skid-way on the elevator.

Fig. 4 shows the method of transport, with the forward leg support forming the tow-bar. When attached to a truck in a similar manner and set in operation while travelling, the elevator can be used for collecting bales left by a pick-up baler, one man being required to place the bales on the bottom of the elevator. To facilitate adjustment to a truck for the above purpose the tow-bar has been made extensible.

In Fig. 5 the method of attachment of the engine to the main frame is shown, the engine being arranged to be perpendicular when the machine is operating at an average working height.

