

Richard D. Lindgren
6006 Greentree Road
Madison, Wisconsin, 53711-3126
Telephone: (608)271-4494
Cell: (608)332-8312
Email: rdind@charter.net

August 29, 2020

To Bruce, Steve, Jon L. and Chris

Re: Hay loaders, manure spreaders, and Grandpa's patent

A Hay loader is an implement that is behind a hay rack that is usually pulled by horses. If you look up Hay loaders on the internet, and find a picture of how the Amish put up hay, you can find a picture of a hay loader. I was not able to copy the picture.

I found the patent description of Frank's application. It was for a stacker for hay, and had to be able to lift fairly high to make the stack. It was made mostly of wood. He took the pulley off the tractor on the early ones and put chain sprocket on. One had to put the pulley in gear, and then run the cables up to lift the load. Later, he used a belt, and put clutch on the front part. The one could then run the pulley all the time. I don't think he sold many, if any stackers. It was also called a buck according to the patent, but I don't remember that.

The manure loaders had to be less than seven feet high, so they could go into a barn. They were made of steel, and the lift mechanism is about the same. He had some castings made in Fort Dodge. He initially made them for F-20 Farmalls, but then made them for other tractors. I think he may have made one hundred loaders.

He was good at figuring how to do things. He really liked mechanical work and know how to weld and fabricate things.

The rotary lawn mower used a horizontal engine, and the belt was turned 90 degrees. He used the front hub of a car to fasten the pulley and blade.

This is interesting.

Dick Lindgren

Feb. 24, 1942.

F. LINDGREN

2,273,970

COMBINATION HAY BUCK AND STACKER

Filed Nov. 19, 1940

4 Sheets-Sheet 4

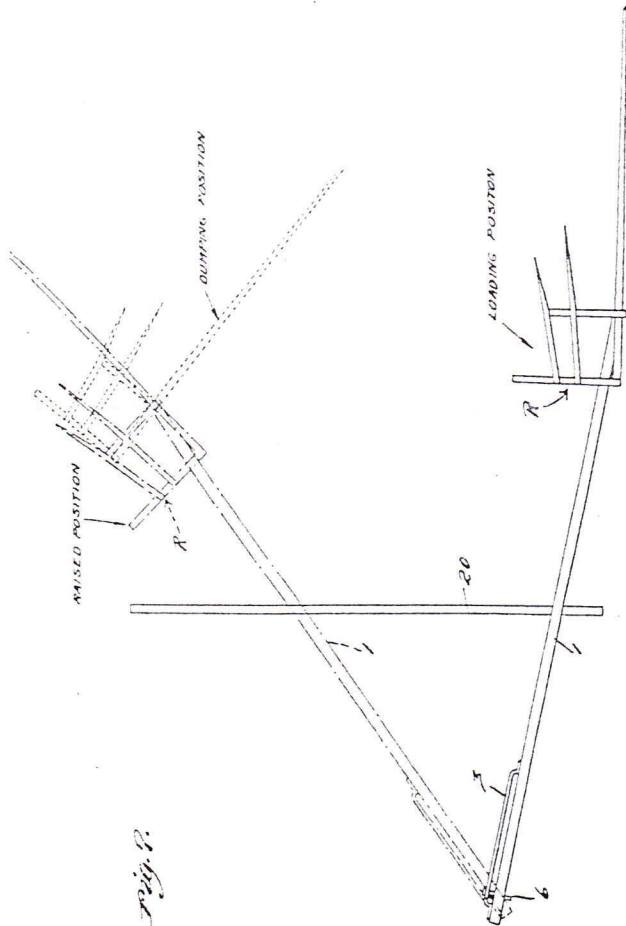


Fig. 8.

Inventor

Frank Lindgren

By

Clarence A. O'Brien

Attorney

Feb. 24, 1942.

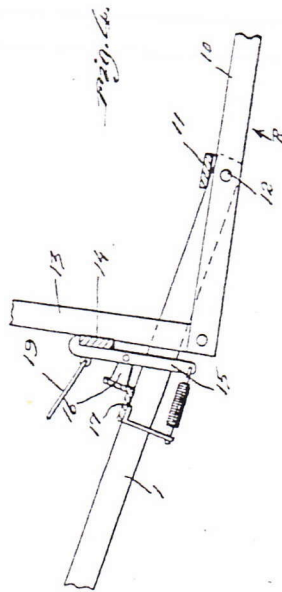
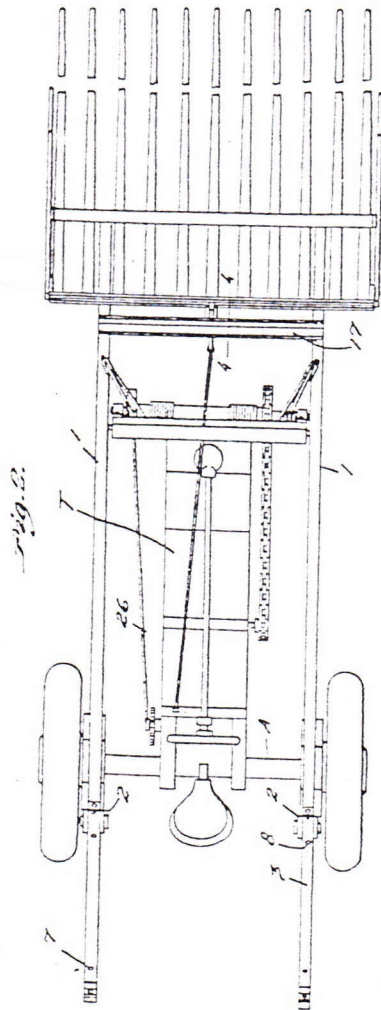
F. LINDGREN

2,273,970

COMBINATION HAY BUCK AND STACKER

Filed Nov. 19, 1940

4 Sheets-Sheet 2



Inventor

Frank Lindgren

By *Clarence A. O'Brien*

Attorney

Feb. 24, 1942.

F. LINDGREN

2,273,970

COMBINATION HAY BUCK AND STACKER

Filed Nov. 19, 1940

4 Sheets-Sheet 1

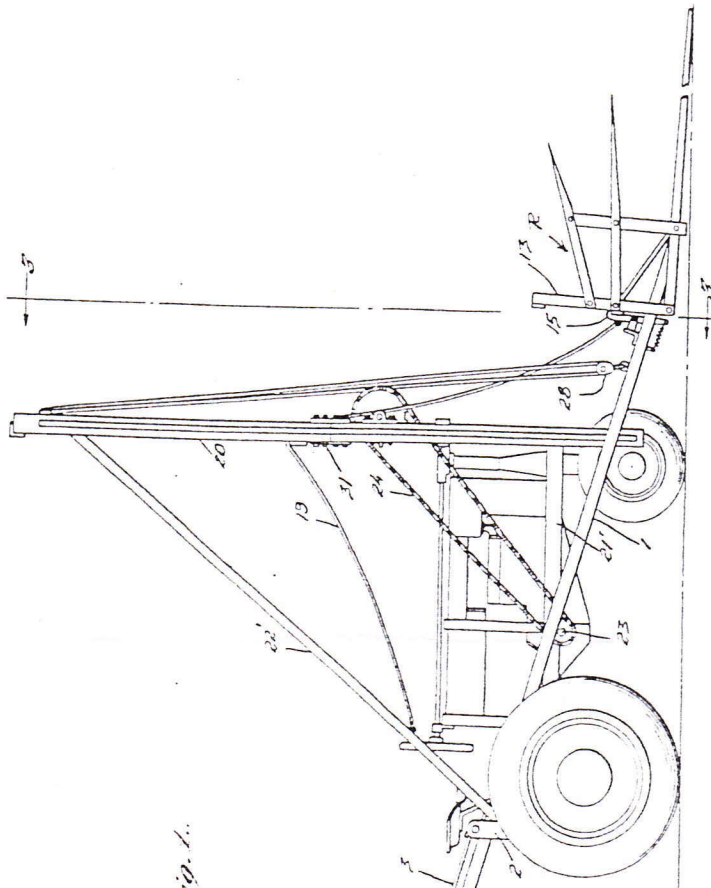


Fig. 1.

Inventor

Frank Lindgren

By

Clarence A. O'Brien

Attorney