This machine was sold to a farmer near Mason City, Iowa, and delivered in July of that year on his farm between Mason City and Clear Lake. It was used by the owner to operate his threshing outfit throughout that season and for several subsequent seasons, and on retiring from farm work he sold it to a neighbor who continued to use it for threshing and other farm work. The last time we heard from this machine, a year or two ago, it was installed in a repair shop and factory and furnishing the power for running the machinery.

In the second year of their work in the tractor line, 1903, the company built and sold fifteen tractors. One of these was sold in the vicinity of Charles City and has operated a threshing outfit throughout every threshing season since its sale and is capable of continuing that work this season.

It was during the year 1903 that the company developed their plowing tractor and perfected the adaption of the oil cooling system to the tractor and a number of these machines are reported being still in use and giving good service today.

When the facts become generally known of the convenience and safety afforded by the oil cooling system on the tractors and the great economy af-

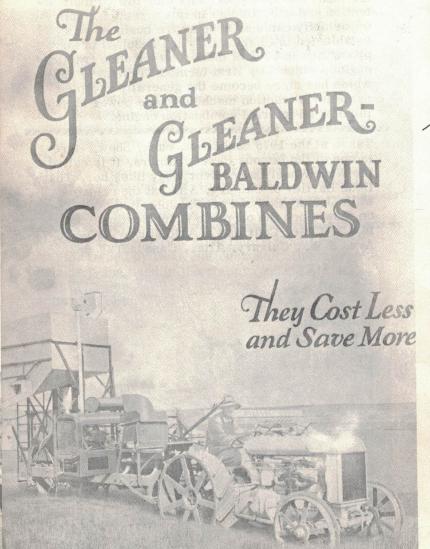
fected by using this form of power for plowing threshing and other farm work, the demand the machines exceeded the ability of the com to produce them.

This made necessary the dropping of the engines and the devotion of the entire force energies of the plant to the production of tra

The plant was operated night and day, an ditions made to buildings and facilities as ra as possible in the effort to supply their trad

Soon after getting their tractor upon the ket came a raise in the price of gasoline and mors regarding a diminishing supply. This ed the attention of the company to the use of fuels. They therefore conducted experiment perfected their design so that their tractors operate just as successfully upon kerosene tilate for fuel as upon gasoline, and since the time all Hart-Parr tractors have been built develop just as much power and operate jus successfully upon these cheaper, lower gra fuels, as upon the more expensive gasoline

The History of the Hart- Parr will contin in the December - January 1980 issue





BOX 512 . MILWAUKEE, WISCONSIN

Promotion Services

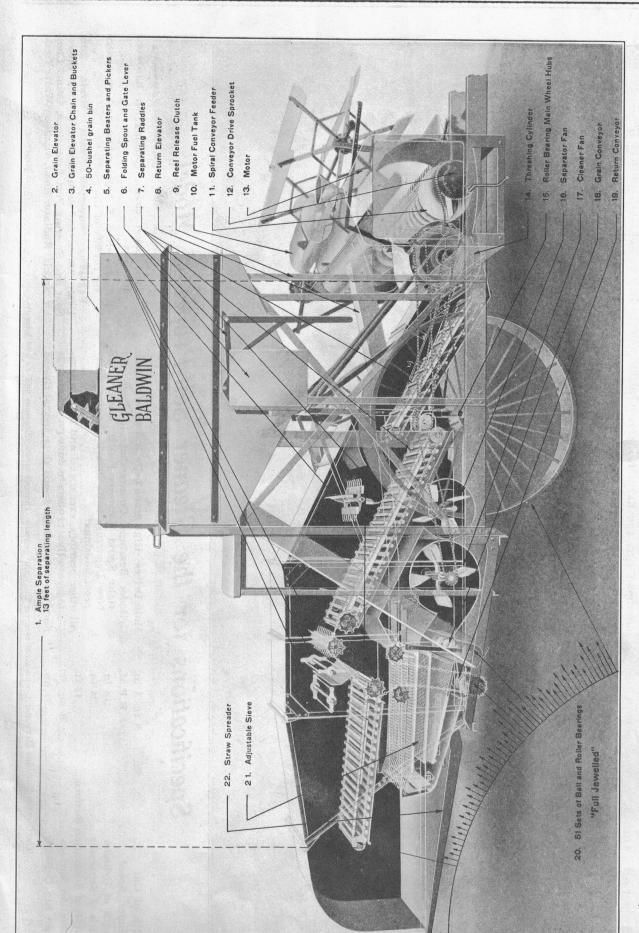
Courtesy of Joe Samson, Route 2 Box 86A, Oberlin, Kansas 6

In 1923, in a Wichita, Kansas machine s the Baldwin brothers built a combine that w radically different. It was so different that Kansans called it a gleaner instead of a "co bine harvester", the popular name of the ti The unique concept and basic design have of come the changing times since 1923.

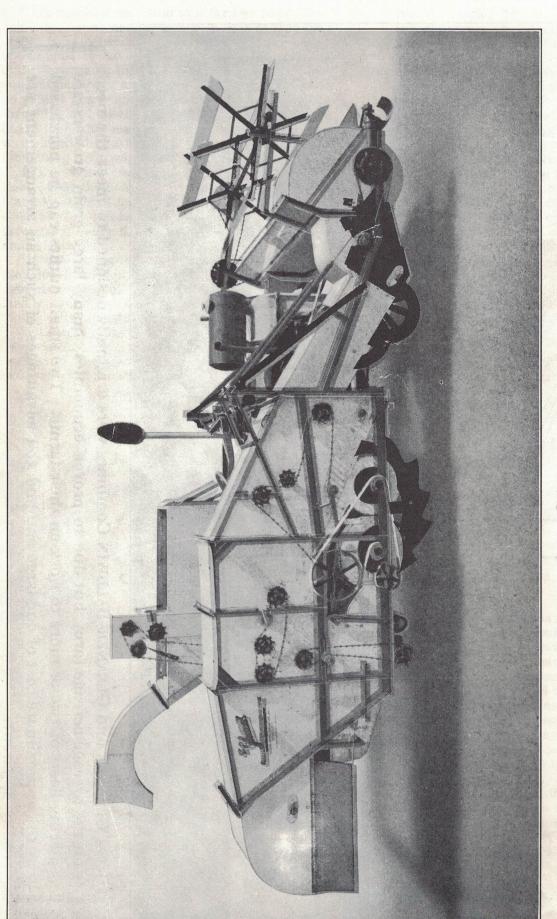
Until the Baldwin design came along, al bines had to be pulled by four-footed hay be The first Baldwin Gleaner was motor drive self propelled. In 1926 the Gleaner Manufa Co. went to pull types. They continued var sizes and models until the self propelled w introduced in 1951 with the model A.

The early combines used canvas to conv stalks into the cylinder, the Baldwin broth developed the auger system. The other con used a spiked tooth cylinder the Baldwin us

The Gleaner combine was acquired by A Chalmers in 1955. They still use the basic sign of the Baldwin Brothers.



on the average acreage farm, but due to proven economies, many large grain growers are placing fleets of two or more to work on their farms. Two small outfits can be purchased at the approximate cost of one large one and the advantages of such an arrangement are GLEANER and GLEANER-BALDWIN Combines were originally designed to meet the need readily apparent.



# Specifications for the Gleaner Self-Propelled Model bottoms Main Drives-High grade belts and roller chains. .8 ft. 3 in. 1200 R.P.M.

Main Drives—High grade belts and roller chains. Cylinder Bearings, Countershaft Bearings and right Spiral Conveyor-Feeder Bearing are New Departure balls in self-aligning dustproof housings

.18 in.

24 in.

13 ft. 26 sq. ft.

Length of Separation Surface.

Separation Surface...

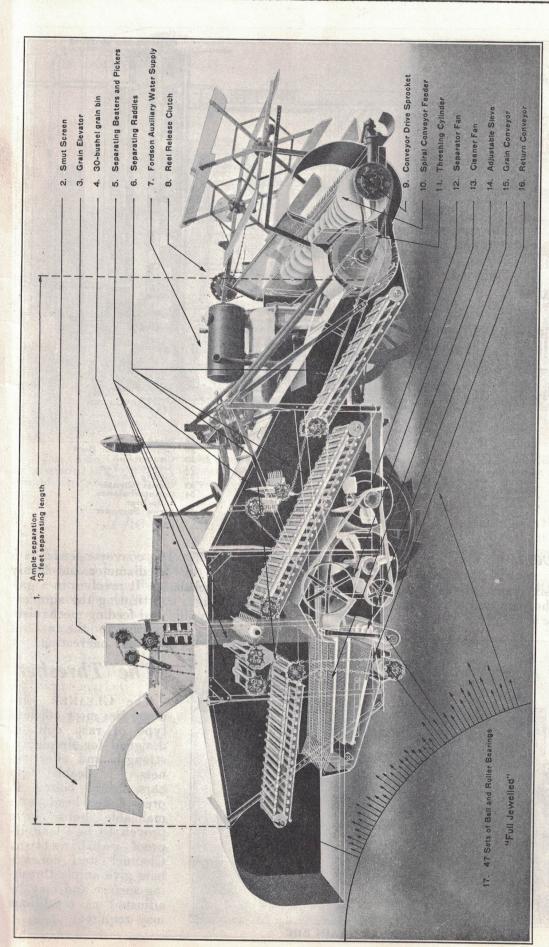
Length of Cylinder... Width of Separator...

Width of Cut Cylinder Speed... All other bearings, except reel and blower bearings, are Hyatt rollers in dust-proof housings

to Jackson chain, running on hardwood bottoms
Shafts—S. A. E. high carbon steel, warranted

All Shafts—S. A. E. high carbon steel, warranted for the life of the machine
Regularly equipped with Grain Bin,

Grain Blower and Smut Screen, Exhaust Elbow,



# The Gleaner---The Ideal Harvester-Thresher

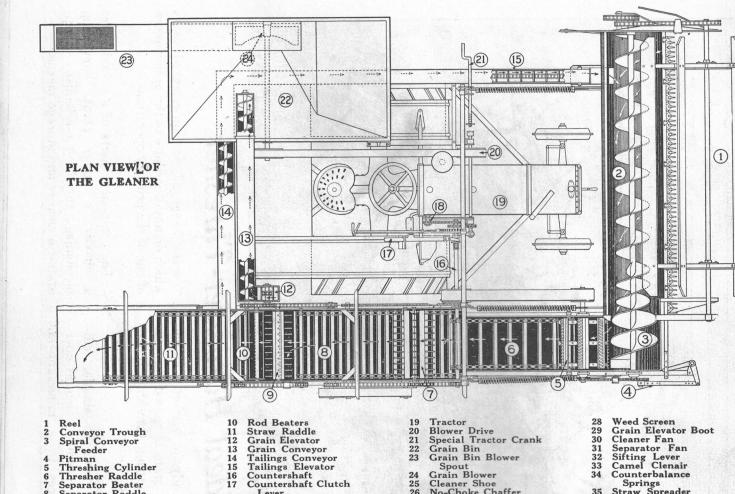
The GLEANER, mounted upon and propelled by a Fordson tractor, constitutes an ideal type of harvester-thresher. It applies to the process of combine harvesting all the power furnished by the tractor. The primary object of the harvesting operation is to remove the grain from the ripe standing stalks and transfer it to a

truck or wagon ready for market. To accomplish this the grain is passed through the processes of cutting, threshing, separating, cleaning and storing.

The GLEANER employs simple, efficient means of performing essential operations and reduces to a minimum all

"excess baggage" or non-essential parts which do not contribute to the performance of one of the primary operations.

The component parts of a combine are a chassis, a power plant, harvesting mechanism, threshing mechanism, a separator, a cleaner and storage means.



### The Harvester

Countershaft Clutch

Lever Power Take-Off

The GLEANER reel has six blades and is driven by a detachable chain from the grain end of the conveyor-feeder. The reel may be shifted to any position

required to adapt it to varying conditions of grain. The reel drive grain. is provided with a safety clutch to avoid breakage. In operating, the reel is usually set lower and closer to the sickle than is the practice in canvas-equipped har-The sickle is vesters. driven by a pitman and bell crank and does a clean job of cutting the grain with a minimum amount of trouble. Grain cut by the sickle is forced by the reel between the coils of the spiral conveyorfeeder which carries it

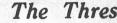
Separator Raddle Rear Picker

to the threshing cylinder. The conveyor-feed substantial steel auger 14" in diameter and fastened to a hollow steel shaft. It revolves in vanized sheet steel trough, constituting the six and most effective conveying and feeding mech

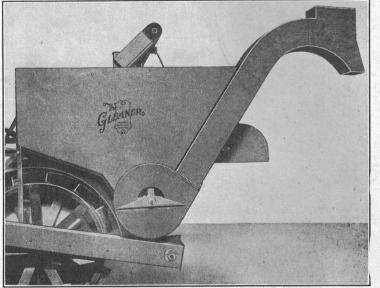
Cleaner Shoe No-Choke Chaffer Adjustable Sieve

known to the a combine harvestin

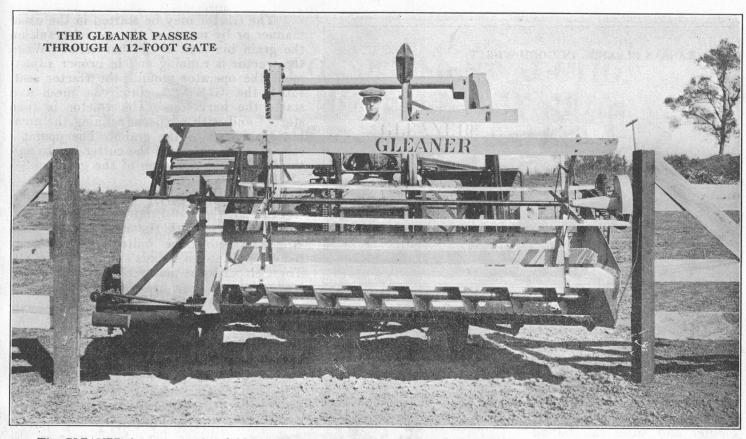
Springs Straw Spreader



The GLEANER ploys the most ef type of rasp cy designed for simp strength and effe Malleable bars firmly bolt pressed steel head malleable hubs proven to be a tr proof combina Channel steel co bars give ample t ing surface and m adjusted as cond may require.



THE GLEANER GRAIN BIN



The GLEANER does not need to fold its cutter bar to get to the field. It is out in the field harvesting while other machines are preparing to go through the farm yard gate. The GLEANER can harvest every foot of the field, saving grain that is usually wasted. It can back up, cut square corners or turn around in a very small space.

### The Grain Bin

The grain is cut, threshed, separated, cleaned and collected in the grain bin by the operation of the harvester. When the operator wishes to empty the grain bin he backs the harvester to his truck or wagon, shifts in gear the blower clutch, opens the grain gate

and the blower quickly transfers the contents of the bin to a truck or wagon, ready to be delivered to market.

### The Separator

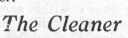
The raddle system of separation is best adapted to field thresher purposes. The rapid moving raddles keep the threshed materials spread evenly in a thin layer. The straw rides the raddle slats while the grain is carried along on the hardwood bottoms. Pickers and beaters a gitate the

straw and shake out the threshed grain. Thirteen feet of separating length extend from the cylinder to the straw exit at the rear of the separator.

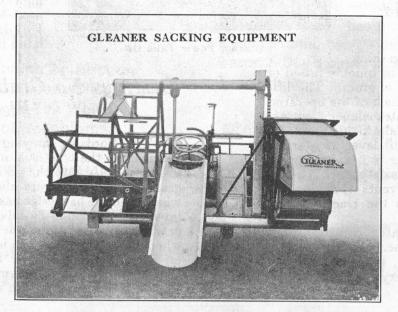
### **Elevators**

Partially threshed materials fall through the

chaffer comb to the tailings conveyor, pass through the return elevator to the harvester trough and are returned to the threshing cylinder.



The cleaner shoe of galvanized sheet steel is equipped with a no-choke chaffer, adjustable sieve, weed screen and adjustable tail board. The shoe is of the end shake type and is moved by a crank shaft and pitman. An ample supply of air for





cleaning is furnished by the cleaner fan. The air from the fan may be regulated by means of shutters at the fan entrance. The hang of the shoe may be shifted so it will have the desired amount of pitch to secure good results. The slope of the chaffer and sieve can be adjusted to suit conditions. The tail board can be raised or lowered or moved near or far from the sieves as conditions warrant.

Beneath the shoe the conveyor delivers the clean grain to the foot of the elevator, chain and buckets of the grain elevator carry it upward to the grain auger which passes it into the grain bin.

## Operation and Control

The harvesting and threshing unit of the combine may be quickly raised or lowered to suit the height of grain. The lifting lever is within easy reach of the operator. Long adjustable counterbalance springs equalize the weight and make lifting the cutter bar easy. The clutch shift lever for starting or stopping the harvester is near the workman's right hand. A safety lock on the tractor clutch lever prevents throwing the harvester in gear unless the tractor clutch is open.

The GLEANER operator controls every operation of the combine. Every morning the successful operator inspects and oils his harvester and has everything in readiness for continuous service.

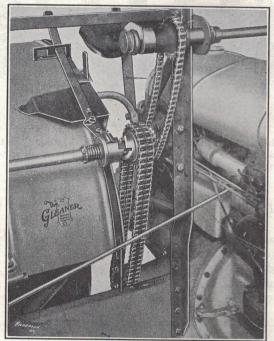
The tractor may be started in the manner or by means of the special created the grain bin side of the harvester. The tractor is running and in proper ment the operator mounts the tractor shifts the GLEANER clutch in me starts the harvester. The tractor is started and with all parts running the bine is driven to the grain. The oregulates the height of the cutter bar the height and condition of the grain

### The Fordson Power U

A Fordson with the strong boile GLEANER sub-frame bolted firmly body constitutes a chassis and a power These dependable power plants need troduction as they are known around world.

The tractor propels the bine across the field are nishes power for operational harvester-thresher. The son power take-off unit fers power from the tractional the harvester.

The Fordson power driven by a bevel gear main shaft of the tractor vance of the transmission The speed of the power dependent on the speed motor and is not affect shifting the tractor gears Fordson power unit th allows the harvester to o at a uniform speed w regard to whether the is moving on low, interm high or reverse gears. used for threshing purpo Fordson should be lated by a dependable government



Gleaner Power Take Off

### Destroys No Grain While Ope Fields

The Fordson carrying the harvester is as easily as the tractor alone. The combine in driven directly into the grain without destroying grain as the sickle cuts ahead of all tractor gwheels and the harvester has no others. The GLI lays out the lands to advantage, cutting the grain first and leaving the green patches to when ready. Advantage is taken of the lay land. Steep grades may be avoided. Lands be laid out to conform to the plow for thus avoiding trouble with rough ground.