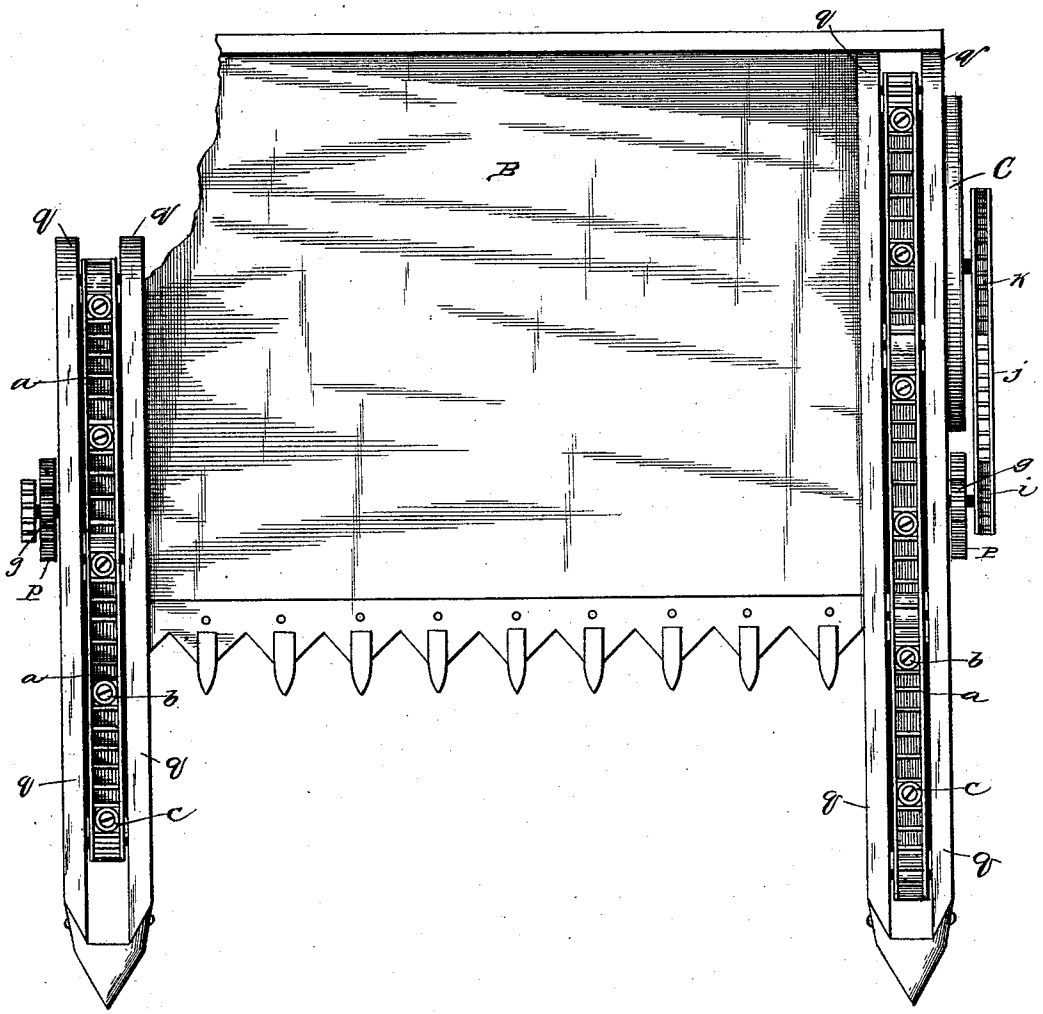
(No Model.) 2 Sheets—Sheet 1.

S. W. McALISTER.

DIVIDER FOR HARVESTING MACHINES.

No. 393,774. Patented Dec. 4, 1888.

Fig. 1.



Witnesses.
Harry S. Rohrer.
Wallace Greene.

Inventor,
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By his Attorney
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N. PETERS. Photo-Lithographer. Washington, D. C.

(No Model.) 2 Sheets—Sheet 2.

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DIVIDER FOR HARVESTING MACHINES.

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Fig. 2.

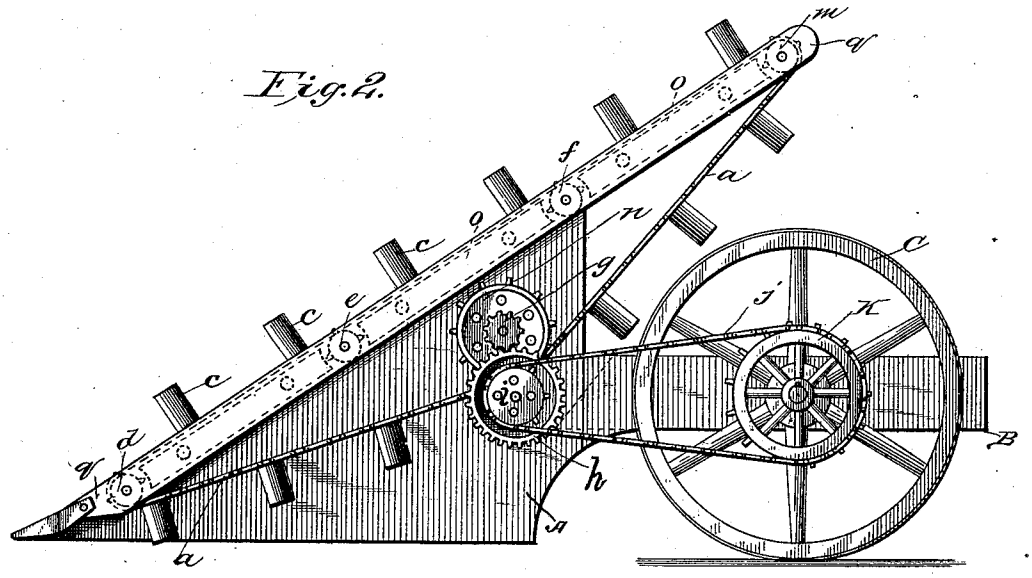
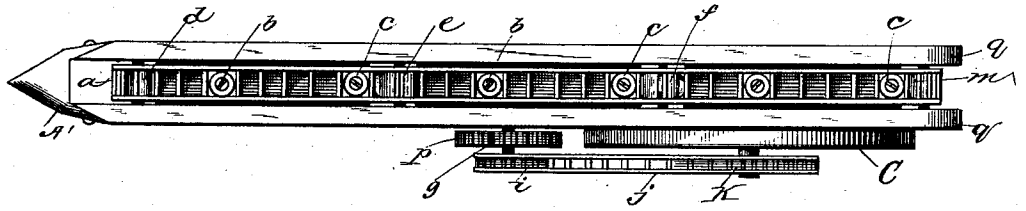


Fig. 3.



Witnesses.

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Scott W. McAlister,

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UNITED STATES PATENT OFFICE.

SCOTT W. McALISTER, OF UNION BRIDGE, MARYLAND.

DIVIDER FOR HARVESTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 393,774, dated December 4, 1888.

Application filed June 16, 1887. Serial No. 241,573. (No model.)

To all whom it may concern:

Be it known that I, SCOTT W. McALISTER, a citizen of the United States, residing at Union Bridge, in the county of Carroll and State of Maryland, have invented a new and useful Improvement in Dividers for Harvesting-Machines, of which the following is a specification.

The invention consists in means for separating the standing grain just before cutting from the standing grain to be cut in the next round of the machine and for bringing it at the same time into a plane parallel to the machine's line of motion, so that when cut it may fall in proper position upon the platform or carrier behind the cutting devices.

In the accompanying drawings, Figure 1 is a plan of a portion of a harvester provided with my devices. Fig. 2 is a side elevation of the outer dividing mechanism. Fig. 3 is a plan of the mechanism shown in Fig. 2.

In the drawings, A represents vertical divider-walls at the inner and outer sides of an ordinary grain-receiving platform, B, whose outer edge is supported by the usual grain-wheel, C. At the top and front edge of this wall are fixed two parallel inclined rigidly-joined bars, *q*, between which are mounted a series of sprocket-wheels, *d e f m*. These sprockets engage the links of a chain, *a*, which when the device is in operation passes constantly upward and rearward between the bars *q*. The chain, which is endless, receives its motion from a sprocket-wheel, *n*, mounted beneath the bars *q* upon the wall A and itself driven from the wheel C by means of the sprocket K, rotating with the wheel C, the chain belt *j* transmitting motion to the sprocket *i* and rigidly-connected gear *h*, mounted upon the wall A and meshing with a gear, *g*, fixed upon the shaft of the sprocket *n*. Studs *c*, fixed to the chain at intervals and perpendicular to the plane of the links to which they are attached, serve to engage the uncut grain that may fall obliquely or transversely upon the dividers, and as they pass upward and rearward to straighten it by a comb-like action and bring it into a plane approximately parallel to the dividers or the machine's line of motion. For securing these studs to the chain, certain links of the latter are made solid or with an integrally-formed web, *l*, extending from side to side of the link, and into these are firmly screwed gudgeons *b*, upon which as axes the stud *c* may revolve. The heads at the outer ends of the gudgeons *b* are preferably sunk in closely-fitting recesses in the outer ends of the studs, as shown in Fig. 5.

The bars *q* are united by transverse bolts passing through both the bars and intervening blocks *o* between and in the plane of the sprockets *d e f m*, and also at their lower ends by a pointed shoe, A′, which passes along the surface of the ground and lifts such stalks or straws as may be fallen and at the same time divides the grain to be cut an instant later from that to be cut during the next round of the machine.

The description thus far applies principally to the outer dividing mechanism; but the mechanism employed at the inner end of the cutting devices is precisely similar and receives its motion from any suitable shaft of the machine.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with the cutting mechanism and platform of a harvester, of the vertical divider-wall A, inclined bars *q*, fixed to its upper edge, sprocket-wheels *d e f m*, mounted between said bars, sprocket-wheel *n*, mounted upon the side of said wall, sprocket-chain *a*, bearing the studs *c*, the latter revolubly mounted upon the gudgeons *b*, fixed in the links of said chain, and gearing connecting the chain with the grain-wheel, whereby the advance of the machine may cause the rotation of the sprocket-wheel *n*, substantially as described.

In testimony of said invention I have hereunto set my hand.

SCOTT W. McALISTER.

Witnesses:

WILLIAM H. LEASE,

SOLOMON W. BOHN.