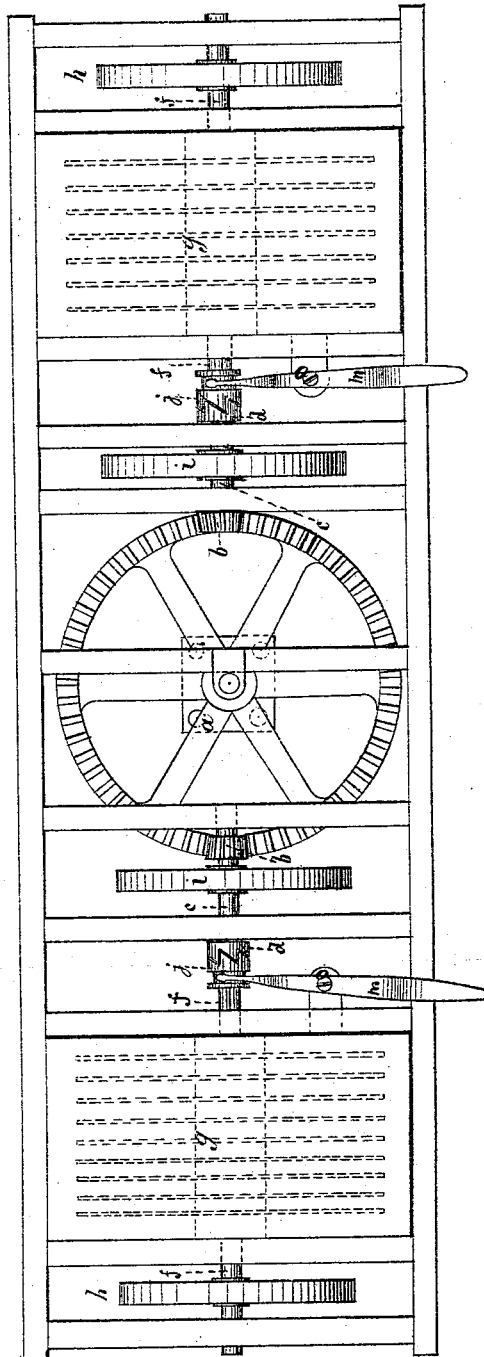


H. R. EASTERLING.  
Improvement in Gin Gearing.

No. 123,248.

Patented Jan. 30, 1872.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

HARRIS R. EASTERLING, OF BENNETTSVILLE, SOUTH CAROLINA.

## IMPROVEMENT IN GIN-GEARINGS.

Specification forming part of Letters Patent No. 123,248, dated January 30, 1872.

Specification describing certain Improvements in Gin-Gearing, invented by HARRIS R. EASTERLING, M. D., of Bennettsville, in the county of Marlborough and State of South Carolina.

The figure is a plan view.

This invention relates to the combination of two gins placed diametrically opposite each other, and gearing with a master-wheel driven by horse or other power, the connection between said gins and the pinions that gear with the master-wheel being effected by means of sliding clutches, so that either gin may be stopped without stopping the other gin or the master-wheel.

Referring to the drawing, *a* is the master-wheel aforesaid, driven by horse or other power. Gearing with this wheel at diametrically opposite points are pinions *b*, of the proper pitch, said pinions being placed upon shafts *c* properly mounted in boxes. On each of these shafts is secured a head, *d*, with recesses in its outer end. The gin-shafts *f* are placed in line with the shafts *c*, said shafts *f* bearing saws *g*, (shown in dotted lines,) fly-wheels *h* and *i*, and splines, which enter grooves in clutches *j* that slide on

the shafts *f*, being worked by means of forked levers *m* fitting circumferential grooves in the clutches *j*, and pivoted at *o*, so that by a lateral movement of the lever at its outer end the clutches *j* will be moved lengthwise along the shafts *f*, and either thrown into gear with the recesses in the ends of the heads *d*, in which case the gin-saws are revolved when the master-wheel *a* is revolved, or thrown out of gear with the heads *d*, in which case the gin-saws stop, whether the master-wheel stops or not. It is obvious that the clutches *j* can be worked independently of each other, so that the stopping of one does not necessitate the stopping of the other.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The master-wheel *a* combined with pinions *b*, shafts *c*, heads *d*, gin-shafts *f*, clutches *j*, and levers *m*, all as specified.

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