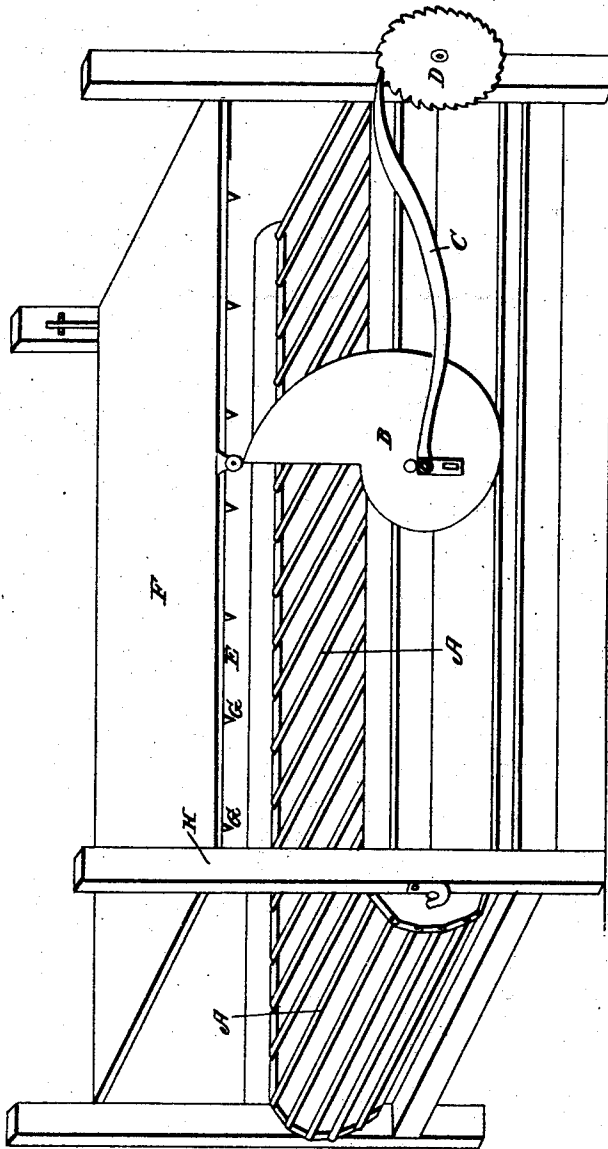


A. KYES.
Hemp Brake.

No. 671.

Patented April 4, 1838.



Witnesses:
Geo M. Hardwick
James S. Shurtlet.

Inventor:
Alvin Kyes.

UNITED STATES PATENT OFFICE.

ALVIN KYES, OF CRITTENDEN, KENTUCKY.

IMPROVED MACHINE FOR BREAKING HEMP AND FLAX.

Specification forming part of Letters Patent No. 671, dated April 4, 1838.

To all whom it may concern:

Be it known that I, ALVIN KYES, now a citizen of Crittenden, State of Kentucky, have invented a new and useful Improvement in Breaking of Hemp; and I do hereby declare that the following is a full and exact description of the construction and operation of said machine as invented and improved by me, to be known by the name of "A. Kyes's Endless Chain and Reacting Hemp-Brake," described as follows, to wit:

I have a frame made of wood and iron, H, (for one-horse power,) say two feet wide and six or eight long, three feet high, having grooves to admit the endless chain A to pass, forming a plane the length of the brake, said chain to be of wrought-iron, about one inch square or round, connected with links, so each bar forms a joint. Next, a shaft of iron passes through the middle of said frame. On the out ends are two cams, B, to raise the brake to a suitable height, then to let it fall once each revolution of said shaft. Next, a feed-hand, C, moved by main shaft. Next, a notch-wheel, D, to move the chain one bar each revolution. Next is the brake, made of cast-iron plate, covering the whole plane, having slats G or

bars on its face E' from one to three inches deep and tapered, so placed as to fall in every other mesh in said chain A. The hemp will be applied spread on an apron, similar to a carding-machine. The breaker F will fall first on the end of the hemp, and as it travels in it reacts by the breaker F falling in half of the spaces each time, so to lift out of the former mesh or sink, and so react over the bars, (as can be seen, no other plan appears to shift or raise the lint after pressed down once,) said lint to pass through said machine and received on an apron, as aforesaid.

What I claim as my improvement, and wish to secure by Letters Patent, is—

The so placing the slats G upon the breaker F at such distance apart as that they shall span over two bars of endless chain A, while the feeding is to the distance of one bar only, the slats then striking alternately between each bar, as the endless chain A is made to advance.

ALVIN KYES.

Witnesses:

E. CARTER,
WILL S. CLARKE.