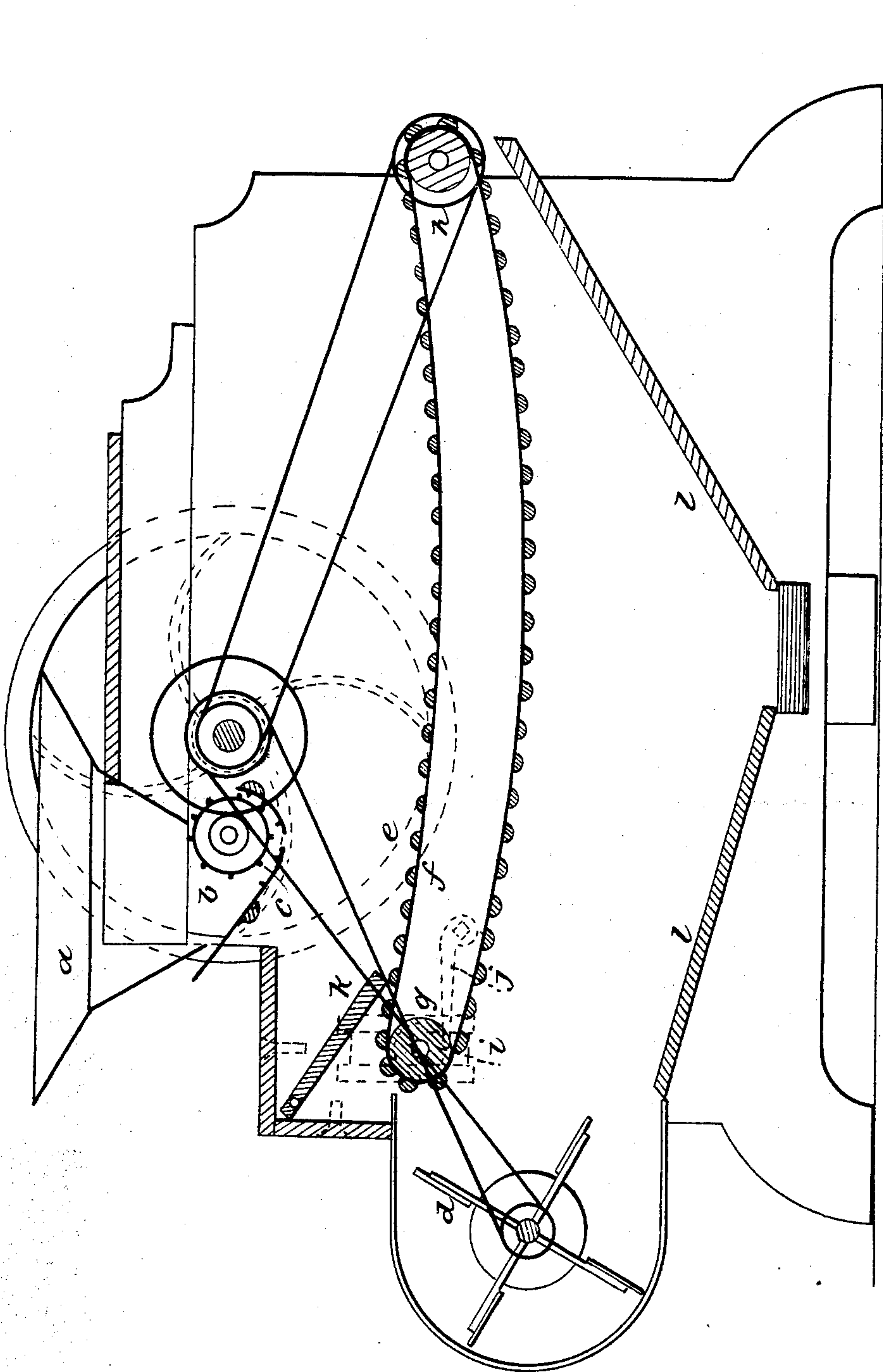


Corn Sheller.

Patented Aug. 29, 1854.



UNITED STATES PATENT OFFICE.

A. J. SMITH, OF PIQUA, OHIO.

CORN-SHELLER.

Specification of Letters Patent No. 11,620, dated August 29, 1854.

To all whom it may concern:

Be it known that I, ANDREW J. SMITH, of Piqua, Miami county, Ohio, have invented new and useful Improvements in Corn-Shellers; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the annexed drawing, making part of this specification, and in which my machine is represented by a longitudinal section.

My invention has for its object the cleaning the corn and separating the refuse in a more effectual manner than is usually the case in corn shelling apparatus.

The feeding hopper (*a*) shelling cylinder (*b*) concave (*c*) and fan (*d*) may be of usual construction.

(*e, f,*) is a continuous revolving apron, formed by a number of slats (*e*) attached to a pair of bands (*f*) in the manner common in conveying aprons. Of the two stretching rollers (*g, h,*) the rearmost one (*g*) is capable of sliding vertically in the frame. To the end of the shaft of this roller is attached a flattened cam (see dotted lines *i*) which impinging against a shoulder (see dotted lines *j*) is suddenly jolted up and down, and with it the roller and conveyer.

(*k*) is a board hinged to the frame at its rear edge and sloping obliquely forward,

having its front edge resting upon the rear portion of the apron. This board (*k*) yielding to every motion of the carrier and rising and falling with it constantly occupies or fills the varying interval over the rear portion thereof and forms an effectual guard or barrier to the escape of cobs over the rear end of the apron.

l are boards which conduct the corn to the spout.

I wish it to be distinctly understood that I do not lay claim to any of the parts of this apparatus except in their mutual application and relative construction, substantially as here combined; but

What I claim herein as new and of my invention is—

The yielding guard board (*k*) having its rear edge somewhat elevated and hinged to the frame and resting by its front edge upon the rear portion of the shaking continuous carrier, so as constantly to fill the varying interval between the said carrier and the “shelling concave” for the purposes described.

In testimony whereof, I hereunto set my hand before two subscribing witnesses.

ANDREW J. SMITH.

Witnesses:

H. R. HARDENBROOK,
FRANCIS REID.