

(No Model.)

G. DEAN.  
RUBBER ERASER.

No. 413,599.

Patented Oct. 22, 1889.

FIG. I.

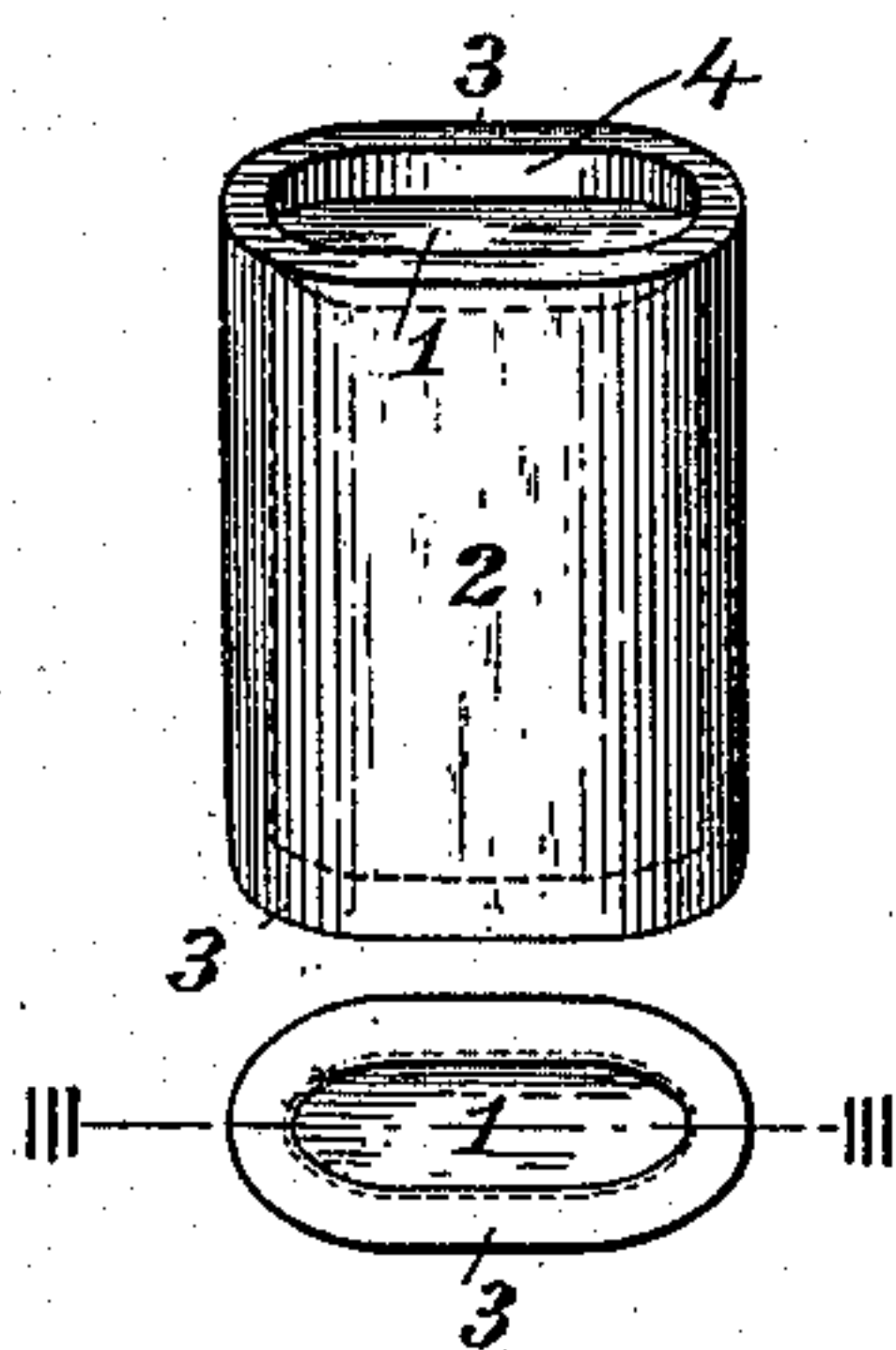


FIG. II.

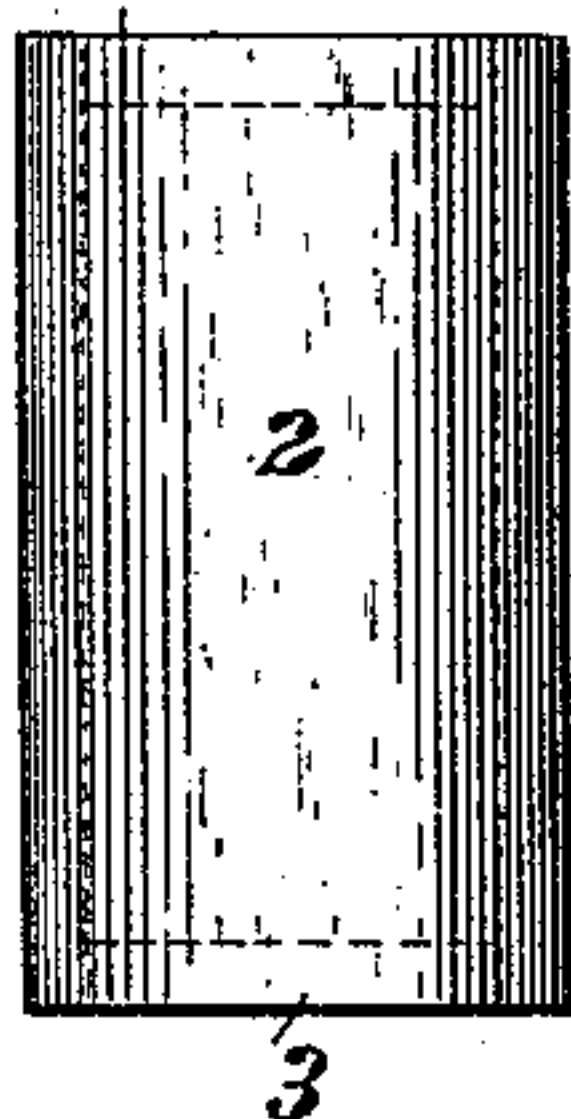


FIG. III.

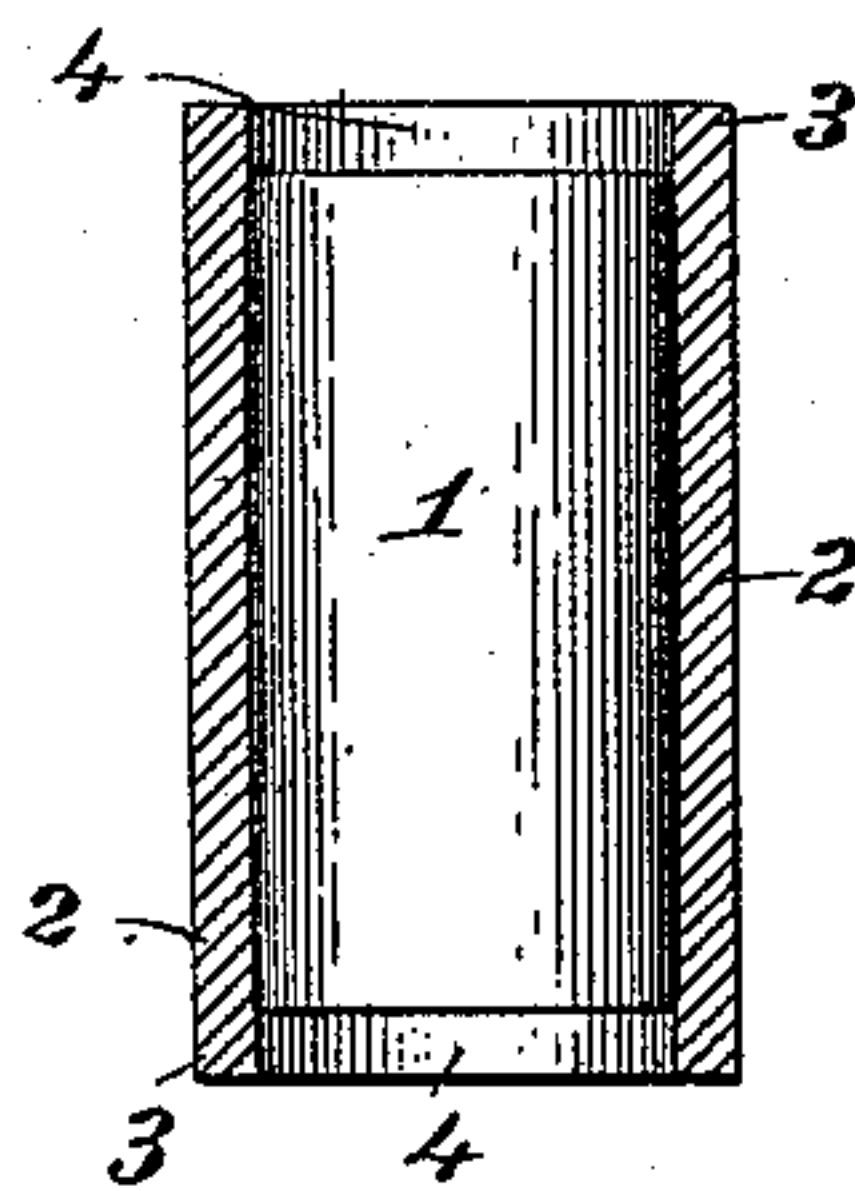


FIG. IV.

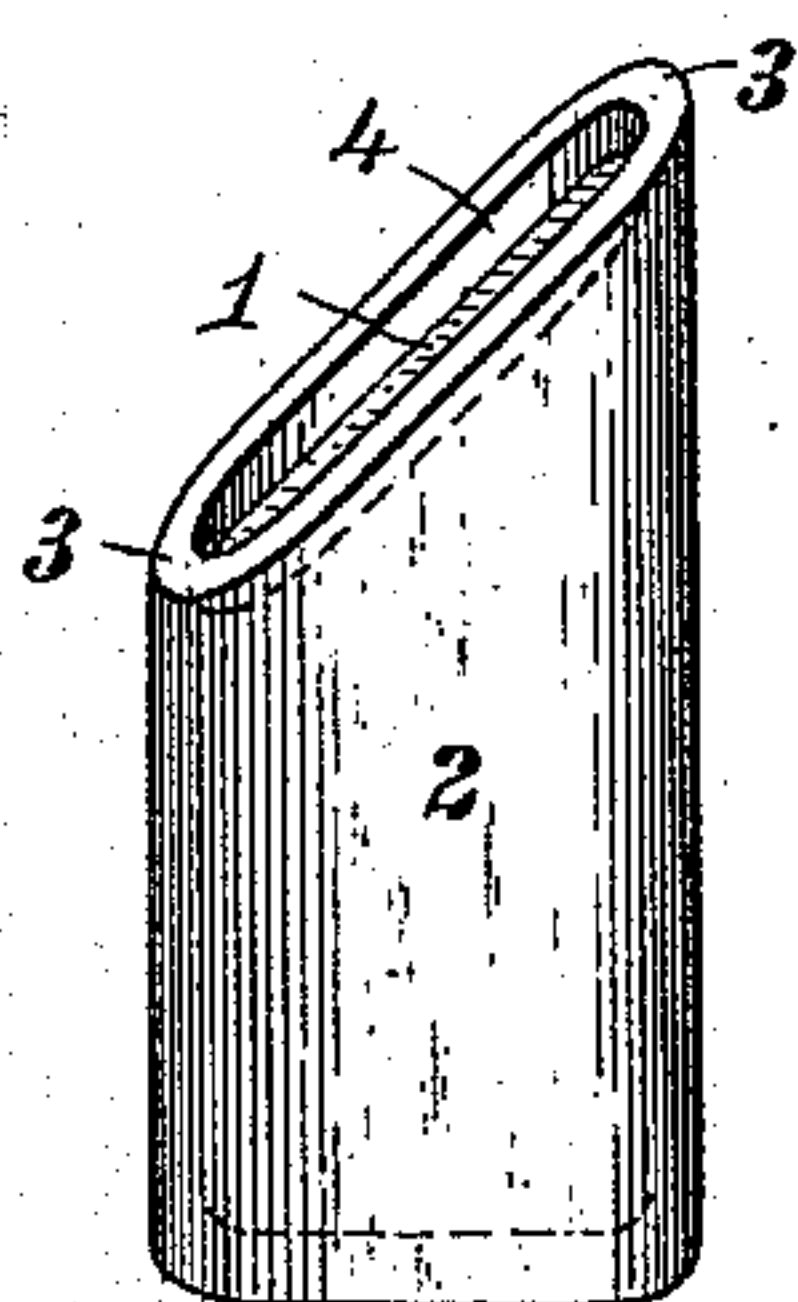


FIG. V.

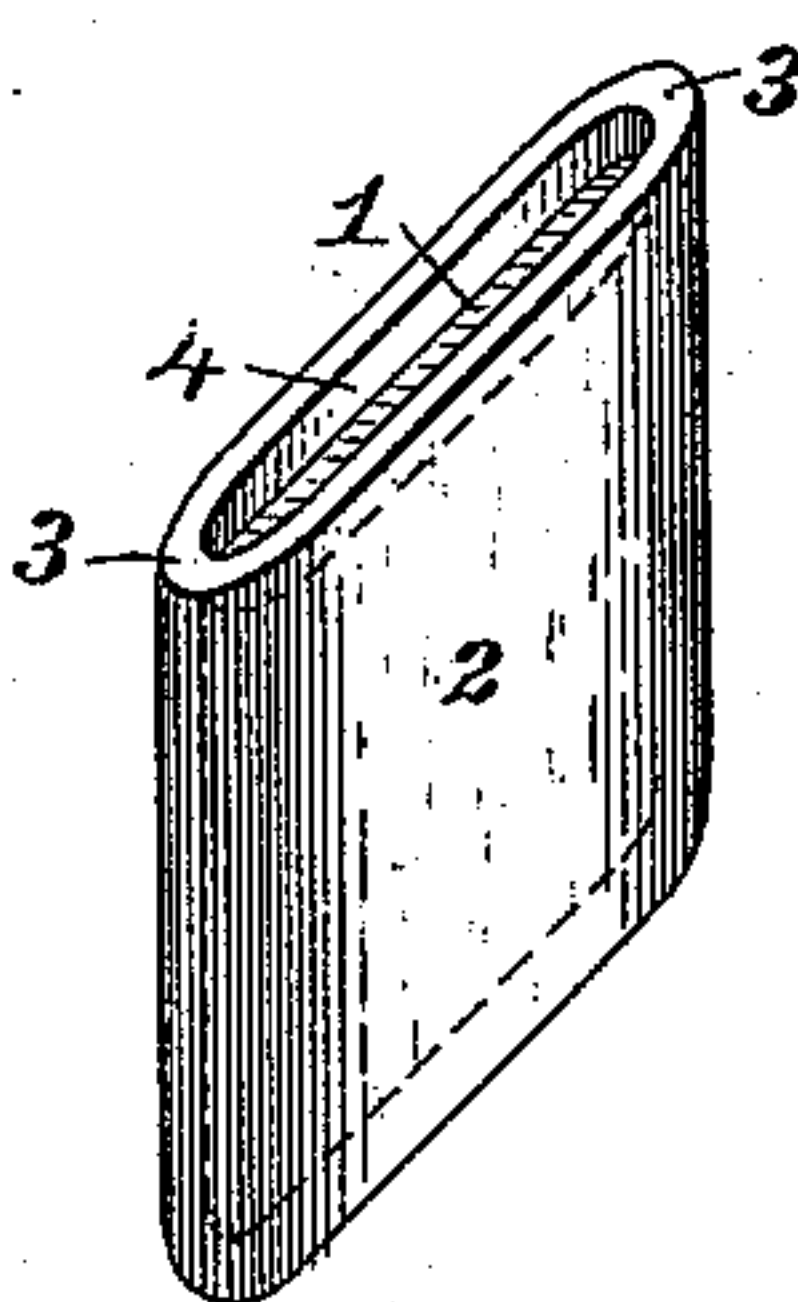
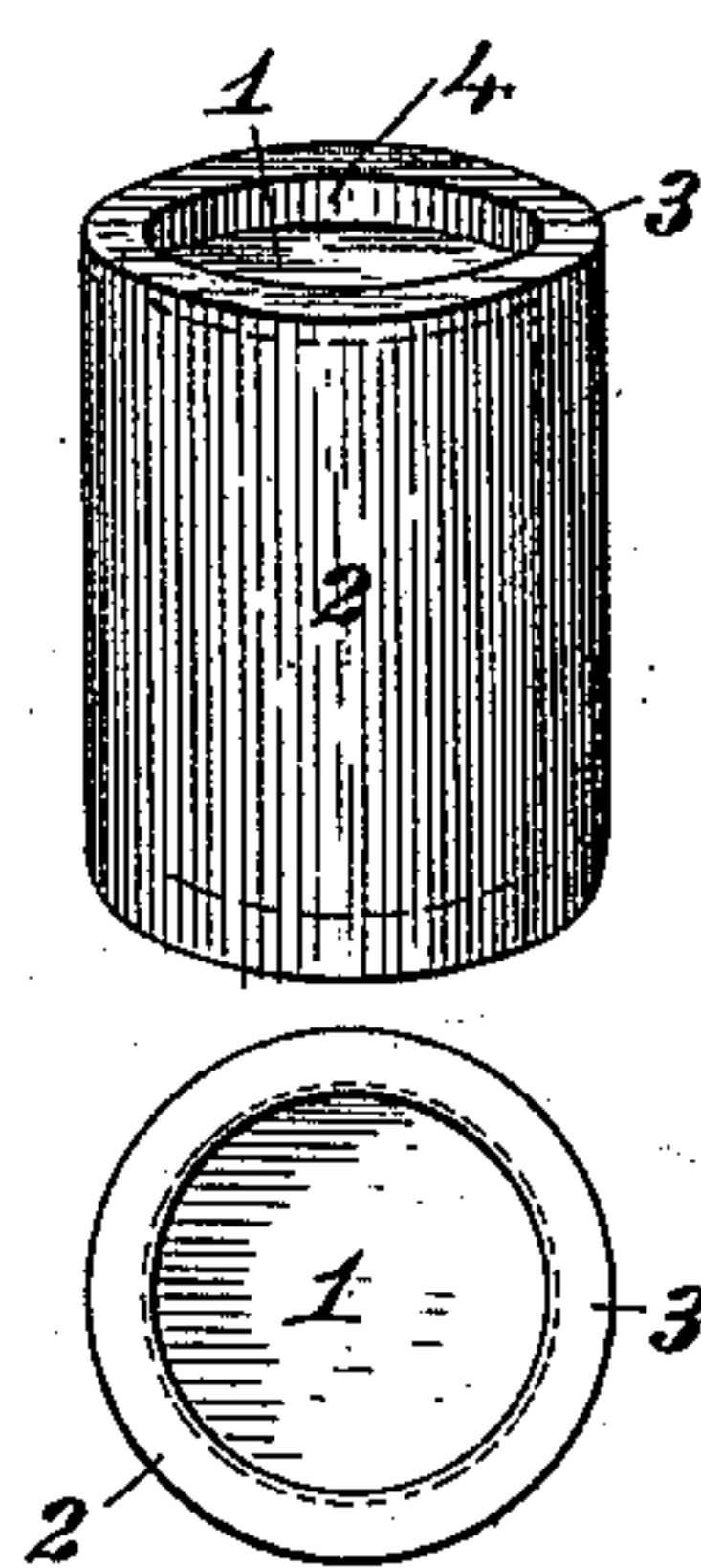


FIG. VI.



*Attest:*

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# UNITED STATES PATENT OFFICE.

GEORGE DEAN, OF GRAND RAPIDS, MICHIGAN.

## RUBBER ERASER.

SPECIFICATION forming part of Letters Patent No. 413,599, dated October 22, 1889.

Application filed July 29, 1889. Serial No. 319,065. (No model.)

### *To all whom it may concern:*

Be it known that I, GEORGE DEAN, a citizen of the United States, and a resident of Grand Rapids, in the county of Kent and State of Michigan, have invented an Improvement in Rubber Erasers, of which the following is a specification.

The object of my invention is to produce a rubber eraser having flexible ends projecting beyond the body of the eraser substantially parallel therewith and providing inner as well as outer yielding edges.

My invention is an improvement on those rubber erasers which are formed partly of wood or analogous material and partly of rubber or other erasive material; and it consists in the construction hereinafter described, and pointed out in the claims.

In order that my invention may be fully understood I will proceed to describe it with reference to the accompanying drawings, in which—

Figure I is a perspective view of my improved rubber eraser in oblong form. Fig. II is a side elevation thereof. Fig. III is a vertical section on the line III III, Fig. I. Fig. IV is a perspective view of a modified form, showing one end of the eraser beveled. Fig. V is a perspective view of another modified form, showing both ends of the eraser beveled. Fig. VI is a perspective view of still another modified form, showing a cylindrical form of my eraser.

1 is a core or stiffener, of wood or other suitable material, and 2 is an endless band or tube, of rubber or other erasive material, surrounding the core or stiffener and held in place by its contraction around the latter, as indicated by dotted lines in Figs. I and VI, the core or stiffener being a little larger than the natural interior area of the band or tube. The ends 3 of the band or tube project beyond and substantially parallel with the core or stiffener, thus forming recesses 4, providing inner and outer yielding edges at each end. It will thus be seen that the core or stiffener is movable within the band or tube, so that when the rubber wears a portion can be cut off and the core or stiffener pushed back, making it equivalent to a new eraser.

In use the eraser is held in upright position, so that the inner and outer edges of the ends accomplish the cleaning operation.

The eraser may be made in different shapes to suit the position of the paper to be cleaned or the fancy of the user.

In Figs. I, II, and III, I show the eraser in the form of an oblong. In Fig. IV, I show it with one end beveled. In Fig. V, I show it with both ends beveled. In Fig. VI, I show it cylindrical in form.

The shape is not essential so long as the ends of the tube or cylinder project beyond the core or stiffener, so as to provide freely yielding inner and outer edges at each end.

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

1. An eraser consisting of a core or stiffener and a band or tube of rubber or other erasive material having flexible ends projecting beyond the core or stiffener substantially parallel therewith and providing inner and outer yielding edges, substantially as described.

2. An eraser consisting of a band or tube of rubber or other erasive material having flexible ends, and a core or stiffener movable therein, the said ends projecting beyond the core or stiffener substantially parallel therewith and providing inner and outer yielding edges, substantially as described.

3. An eraser consisting of a core or stiffener and an endless band or tube of rubber or other erasive material held in place by contraction on the core or stiffener, having flexible ends projecting beyond the core or stiffener, substantially parallel therewith and providing inner and outer yielding edges, substantially as described.

4. An eraser having recesses in its ends, providing inner and outer yielding edges, substantially as described.

GEORGE DEAN.

Witnesses:

SIMON LA GROU,  
HERMAN N. DOSKER.