(No Model.) 2 Sheets—Sheet 1.

T. J. CLEARY.

POLISHING OR BUFFING WHEEL.

No. 520,515. Patented May 29, 1894.

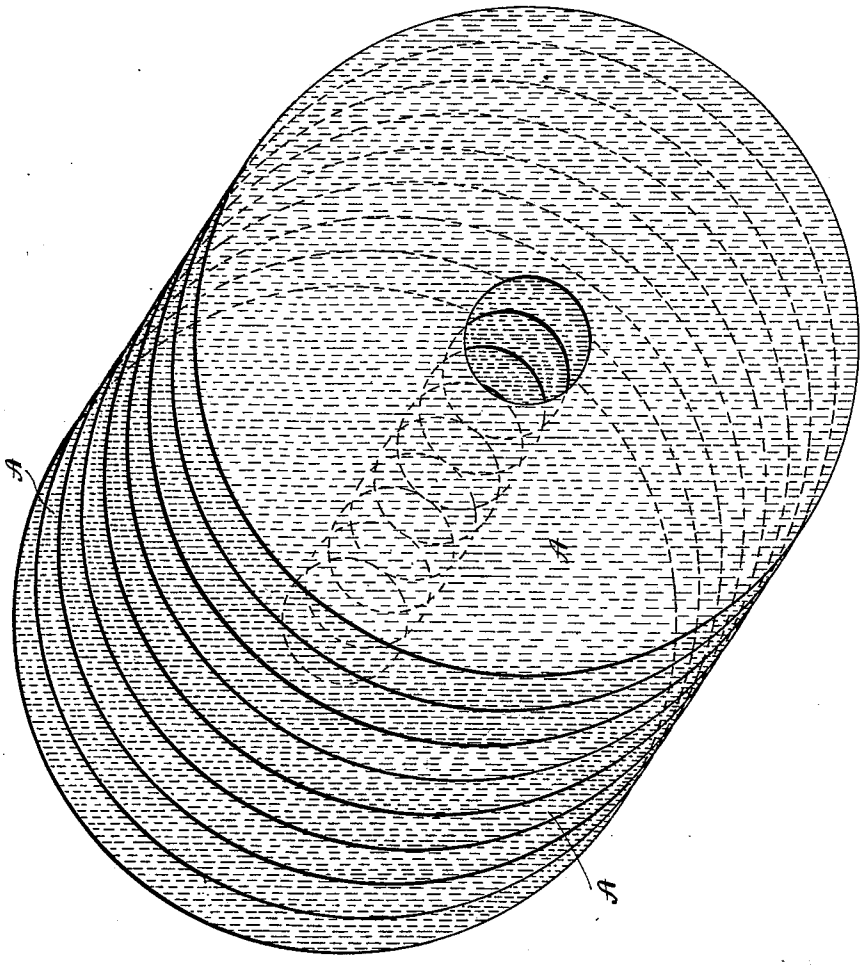

Fig. 1.

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(No Model.) 2 Sheets—Sheet 2.

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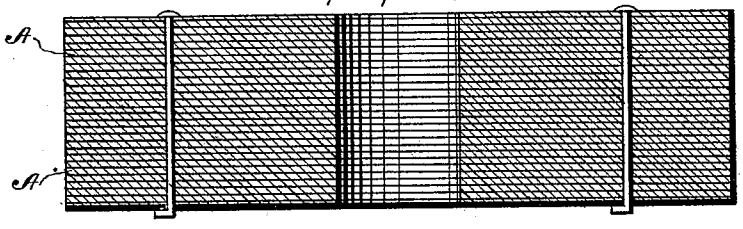
Fig. 2.



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UNITED STATES PATENT OFFICE.

THOMAS J. CLEARY, OF WESTFIELD, MASSACHUSETTS.

POLISHING OR BUFFING WHEEL.

SPECIFICATION forming part of Letters Patent No. 520,515, dated May 29, 1894.

Application filed June 13, 1893. Serial No. 477,425. (No model.)

To all whom it may concern:

Be it known that I, THOMAS J. CLEARY, a resident of Westfield, Hampden county, and State of Massachusetts, have invented a certain new and useful Improvement in Polishing or Buffing Wheels, of which the following is a full, clear, and exact specification.

My invention relates to improvements in polishing or buffing wheels particularly of that class which are built up of disks of paper and consists in the novel arrangement of said disks which are suitably secured together in the wheel.

The object of my invention is to construct a strong and serviceable buffing-wheel, the polishing surface or periphery of which shall present a very strong grain.

My invention is illustrated by the accompanying drawings, in which—

Figure 1 is a perspective side elevation of a series of paper disks used in the wheel, the fiber of the paper being indicated by the dotted lines throughout the several disks. Fig. 2 is a cross-section through the center of a completed buffing-wheel.

Similar letters refer to similar parts throughout both views.

A A are disks of paper. The paper used by preference in this wheel is a heavy rope manila. My invention consists in placing the several disks of paper together in such a manner that the fibers of the paper of the several disks shall all run in the same direction. By preference a paper is used which has a strong or well-defined fiber.

I am aware that wheels have been built heretofore of disks of paper, but the important feature of placing the fiber of the several disks of paper in the same direction has never been appreciated, nor has its value been known.

It has been practically demonstrated that a wheel constructed as above described will present a periphery or cutting-surface of very strong and pronounced grain that will not wear down rapidly, or fray out, or soften or become useless, while, on the other hand, it has been practically demonstrated that a wheel built of exactly the same material in which no care has been taken to lay the fibers of the several disks in the same direction, but which are indiscriminately arranged, will very quickly fray out, soften and become useless, upon being rapidly revolved against any hard substance such as it is common to polish with wheels of this character.

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

A polishing or buffing wheel built up of disks of paper securely held together, the fibers of which all run in substantially the same direction, substantially as and for the purpose described.

THOS. J. CLEARY.

Witnesses:
GEO. R. BOWERS,
H. M. SKINNER.