

T. S. Harris,

Tumbler Washer,

N^o 27,286.

Patented Feb. 28, 1860.

Fig: 2.

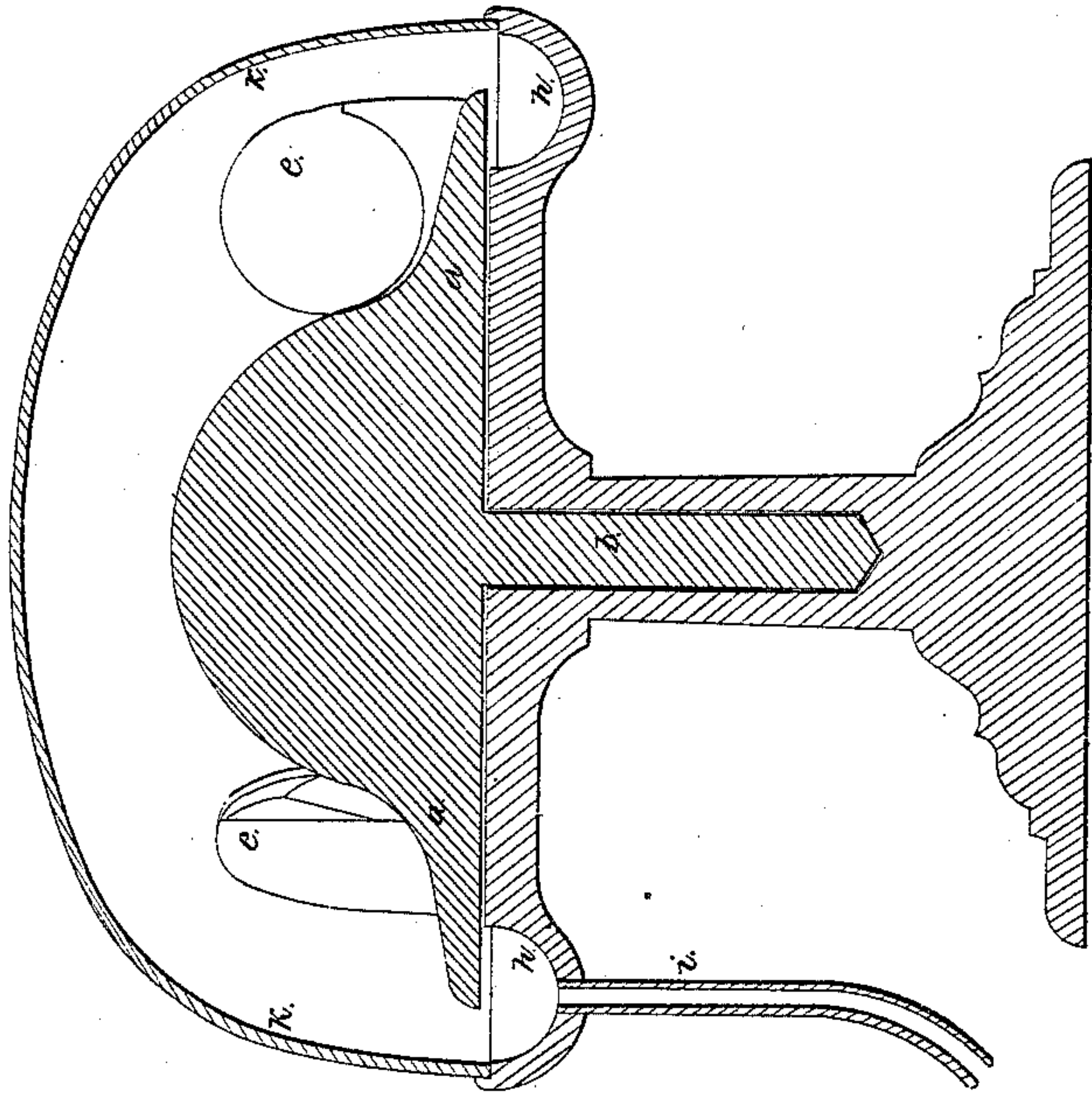
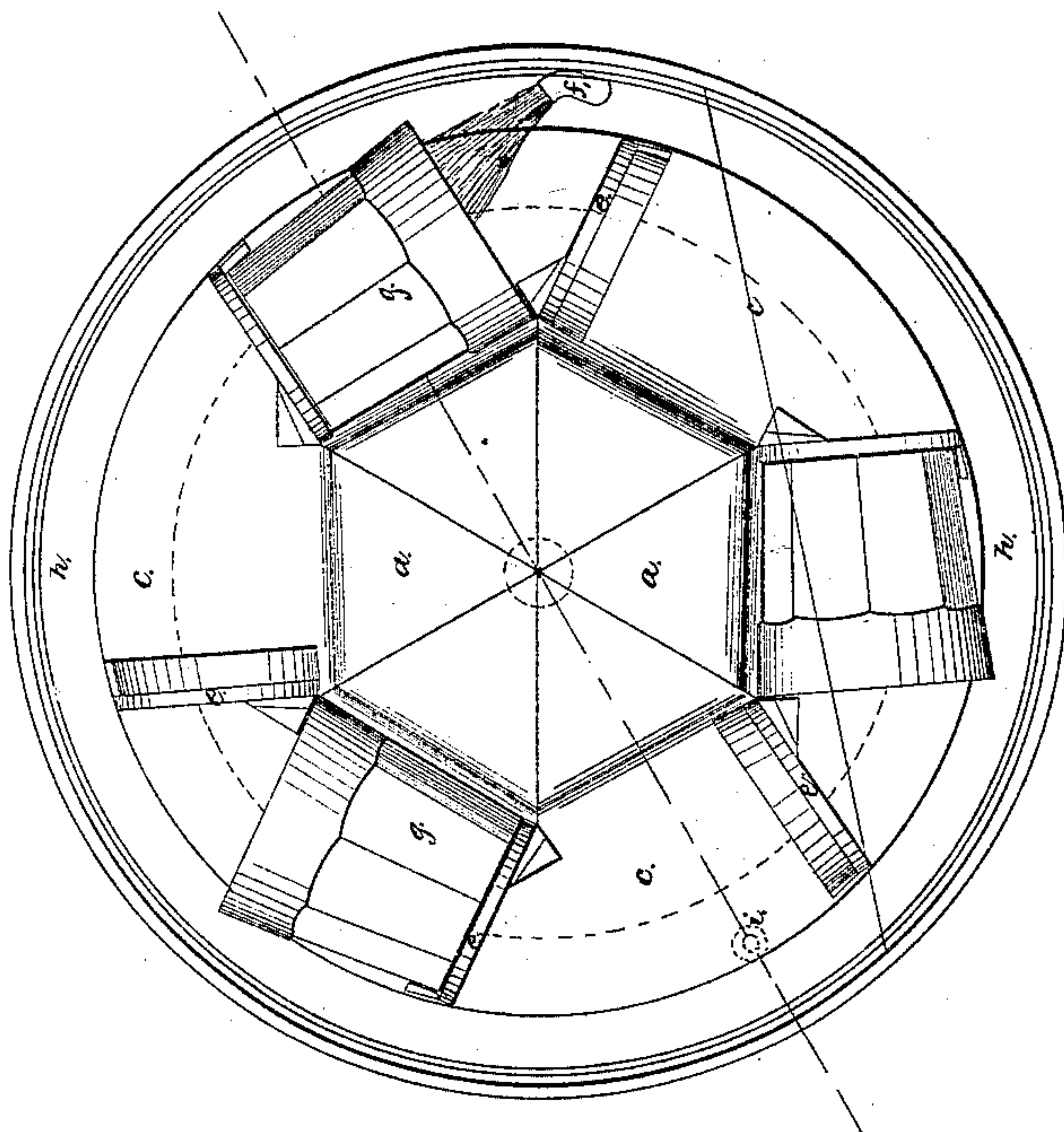


Fig: 1.



Witnesses
Joseph Garrett
Wm. J. Mayall

Inventor
Thos. S. Harris

UNITED STATES PATENT OFFICE.

THEODORE S. HARRIS, OF BOSTON, MASSACHUSETTS.

APPARATUS FOR CLEANING TUMBLERS, &c.

Specification of Letters Patent No. 27,286, dated February 28, 1860.

To all whom it may concern:

Be it known that I, THEODORE S. HARRIS, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Apparatus for Washing or Cleansing Tumblers or other Vessels, and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said invention by which it may be distinguished from others of a similar class, together with such parts as I claim and desire to have secured to me by Letters Patent.

The figures of the accompanying plate of drawings represent my improvements.

Figure 1 is a plan or top view of my new apparatus. Fig. 2 is a central vertical section of the same.

The present invention consists in a new mode of washing or cleansing tumblers and other similar vessels, by means of an apparatus, so arranged as to receive and hold the tumblers or vessels in position, and having such an automatic motion of any proper nature imparted to it by any suitable machinery or means, as to subject the said vessels to the action of water or any cleansing liquid. There are of course various forms in which this apparatus may be constructed, and its necessary motions may be obtained in many ways. Thus the apparatus containing the vessels or tumblers may be made to move by any suitable machinery in a vessel filled with the cleansing liquid, or the apparatus may be actuated by the force or motion of water or other liquid coming in contact with the same, and also acting upon the vessels to be cleansed.

The form and arrangement of apparatus that I prefer, are represented in the accompanying drawings, the apparatus consisting of a revolving platform having suitable compartments for the reception of the vessels to be cleansed, and made to revolve by the force of a stream or jet of water or any cleansing liquid, each vessel in its turn receiving the stream or jet of water. By this means, the desired result, viz: the rapid and thorough cleansing of the tumblers or other vessels, can be effected in a very simple manner.

A A in the drawings represent a revolving framework or platform turning with or on a shaft *b* having any suitable bearing.

The framework A A is divided into compartments C, C, &c. by partitions *e*, *e*, &c.

The tumblers or other vessels to be cleansed are placed in the compartments C, C, bearing against the partitions *e*, *e*, as many compartments being filled as may be desired. The water is let into the apparatus by a pipe *f*, its force being regulated at pleasure by a cock or any suitable means, and by its force, acting upon or within the tumblers *g*, *g*, &c., or upon the partitions as the case may be, imparts a revolving motion to the framework or platform A A and its contents, and at the same time rapidly and thoroughly washes and cleanses the tumblers.

h h is a gutter to receive and carry off the waste water, which escapes through an exit pipe *i*, and *k k* is a casing made of glass or other suitable material, cut away as shown for the convenient insertion and removal of the tumblers.

It will be obvious, that the tumblers or vessels may be held in position by means of adjustable catches or springs, so that the compartments may be adapted to receiving and holding tumblers or other vessels of various forms and sizes, and also that the apparatus may be made to revolve in a vertical instead of a horizontal direction.

From the foregoing description it will be seen that the essential feature of my invention consists in giving, by any suitable apparatus, so constructed as to hold the tumblers &c. the position, such an automatic motion by any proper means to the vessels to be cleansed, as to bring them in contact with and expose them to, the action of a body or a jet or shower of water or other cleansing liquid, and therefore, I shall not in my claims limit myself to the precise form and arrangement of devices herein described and shown in the drawings, as it will be evident that the apparatus can be very much modified without varying the main principles upon which my invention depends.

It may be further remarked that the speed of the apparatus can be easily regulated at pleasure by means of a brake, or any suitable arrangement of devices for accomplishing the desired result.

Having thus described my improvements, I shall state my claims, as follows:

What I claim as my invention, and desire to have secured to me by Letters Patent is,
1. An apparatus for washing and cleans-

ing tumblers and other vessels, so arranged
as to receive and hold the said tumblers, &c.,
in position, and having such an automatic
motion of any proper nature imparted to it
5 by any suitable machinery or means, as to
bring the vessels to be cleansed in contact
with, and expose them to, the action of a
body or jet or shower of cleansing liquid as
set forth.

10 2. The apparatus herein described and

shown in the drawings, the same consisting
essentially of a revolving platform, having
compartments and partitions for the recep-
tion and holding of the tumblers, &c., and
actuated by the force of a jet or shower of 15
water or other liquid as set forth.

THEOD. S. HARRIS.

Witnesses:

JOSEPH GAVETT,

THOS. J. NAZALL.