

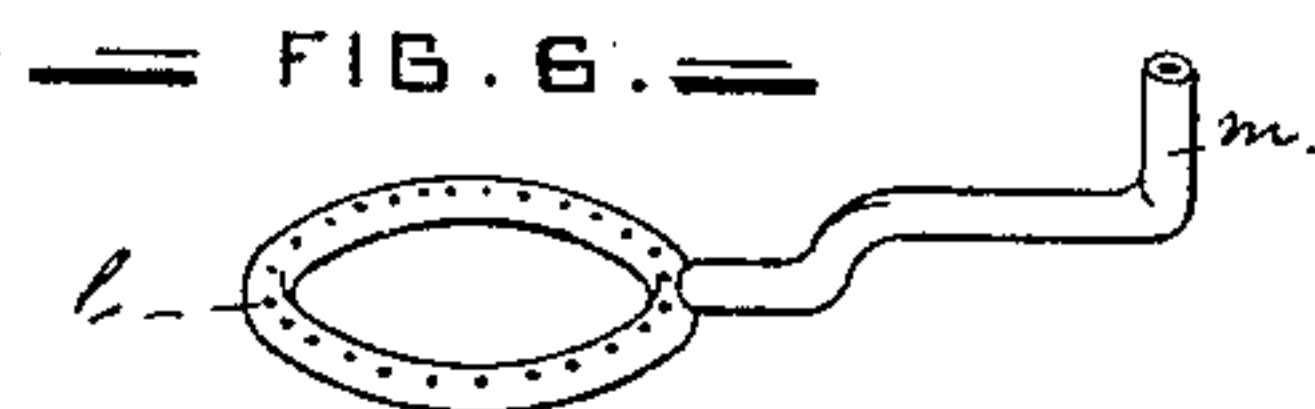
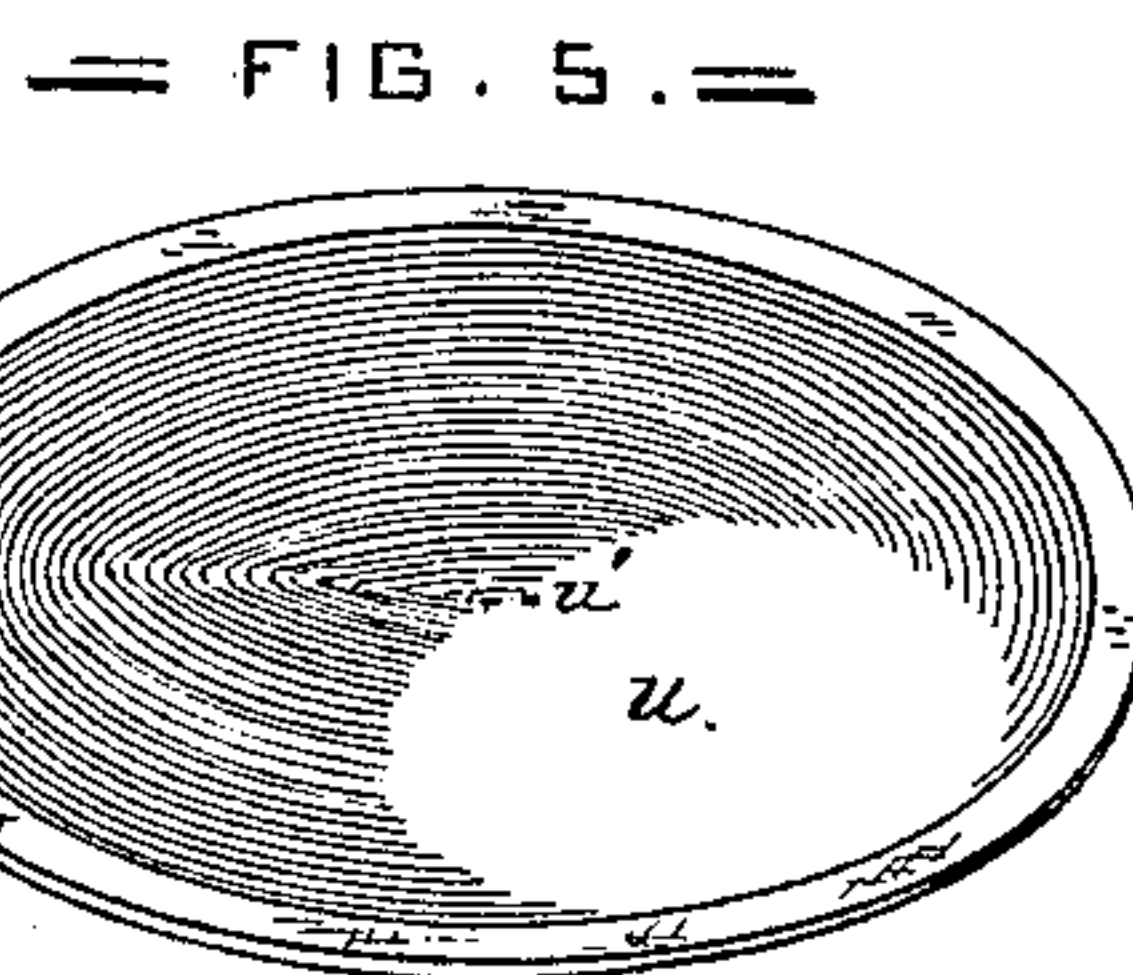
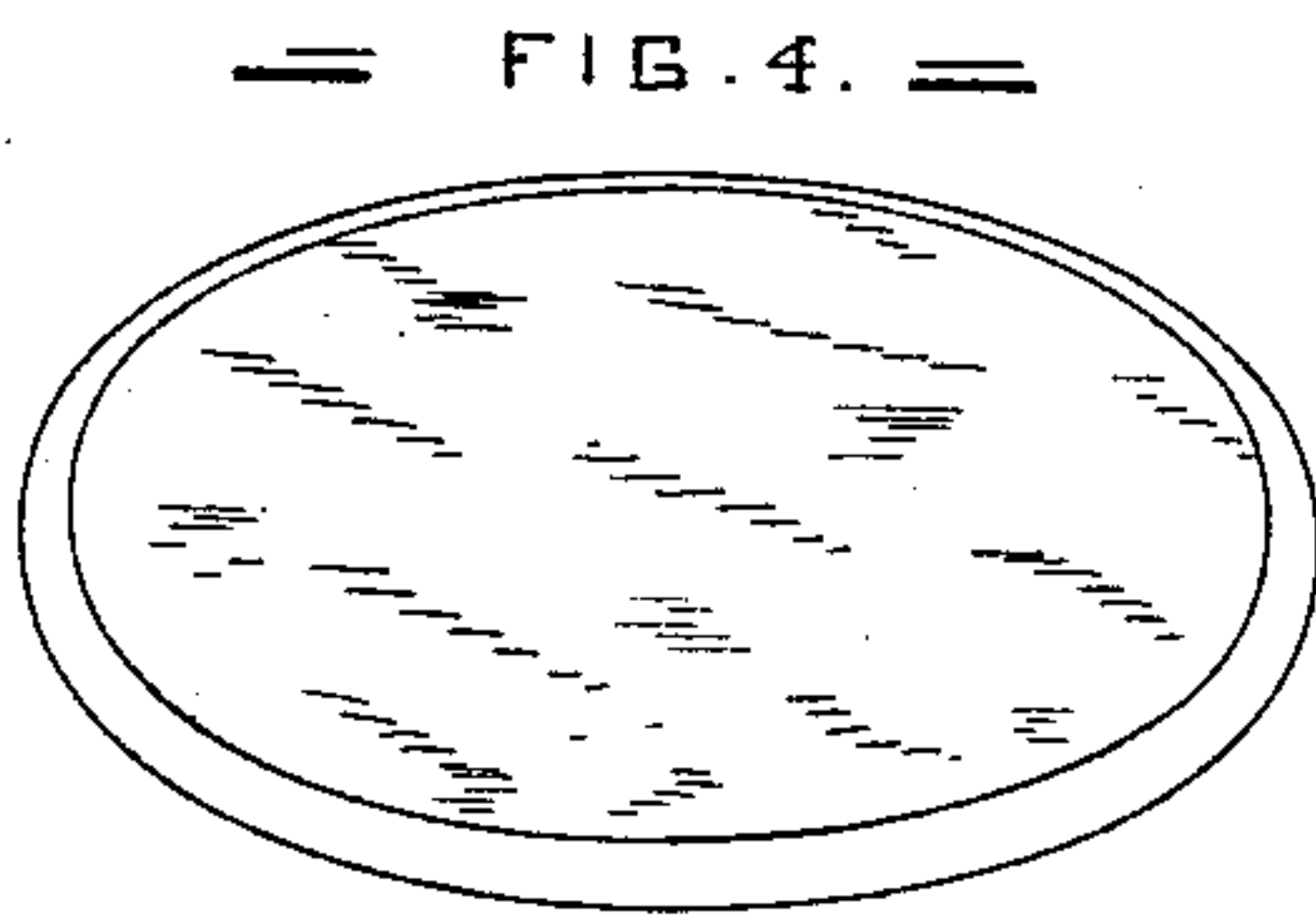
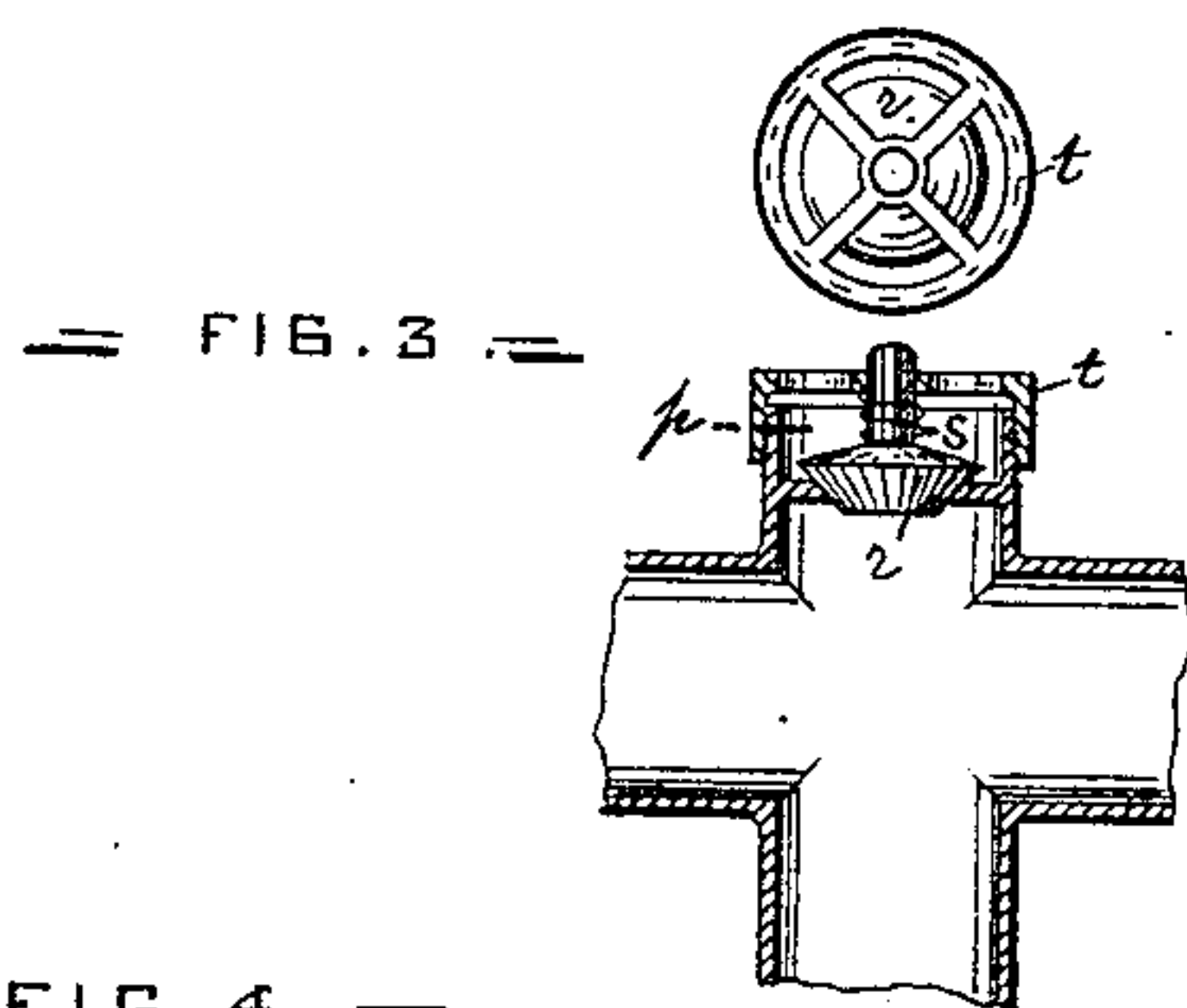
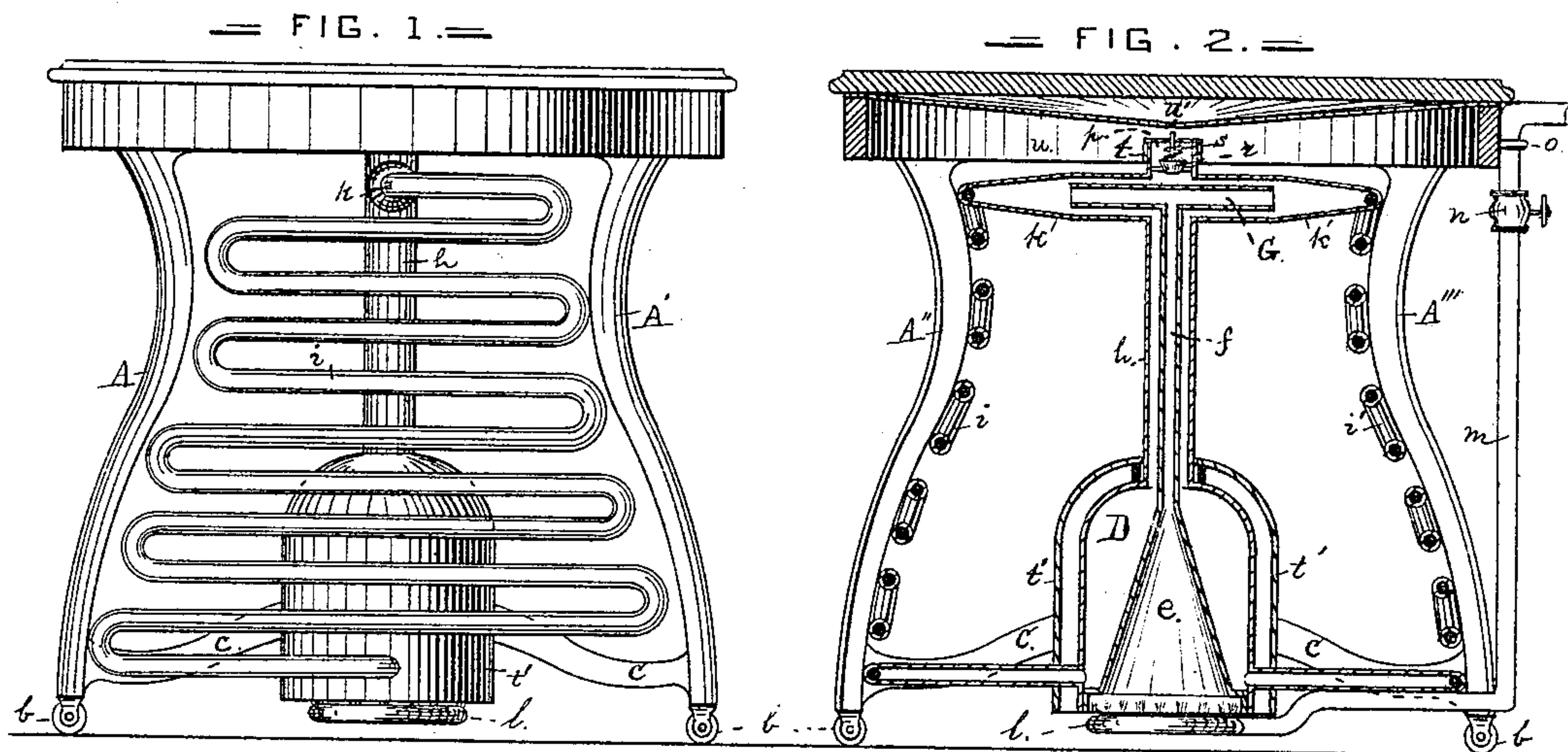
(No Model.)

M. R. SPELMAN.

COMBINATION TABLE AND RADIATOR.

No. 273,905.

Patented Mar. 13, 1883.



WITNESSES.  
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# UNITED STATES PATENT OFFICE.

MARK R. SPELMAN, OF NEW ORLEANS, LOUISIANA.

## COMBINATION TABLE AND RADIATOR.

SPECIFICATION forming part of Letters Patent No. 273,905, dated March 13, 1883.

Application filed May 4, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, MARK R. SPELMAN, a resident of the city of New Orleans, parish of Orleans, and State of Louisiana, have invented a certain new and useful Improvement in Combination Table and Radiator; and I do hereby declare the following to be a full, clear, and correct description of the same, reference being had to the annexed drawings, making  
10 a part of this specification.

This invention consists of a table having connected therewith a radiator or heating apparatus, as is hereinafter fully described.

On the drawings, Figure 1 represents a side elevation of my invention, and Fig. 2 a vertical cross-section of the same. Figs. 3 are enlarged views of a part of the apparatus. Fig. 4 is a perspective view of the table-top; Fig. 5, a similar view from the upper side of the reflector, and Fig. 6 a like view of the burner employed.  
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The table is represented as having four legs, A A' A'' A'''; but it may be made with more or less without changing the character of my invention. These legs are mounted on casters *b*, so that the table may be easily rolled from place to place. Between the legs, and supported by branches or pieces *c*, extending therefrom, is a vertical boiler, D, the interior shell, *e*, of which is shaped somewhat like an inverted funnel, with pipe *f* extending upward from the smallest end thereof, said pipe terminating in a T-piece having open ends, as shown at G.  
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The outer shell of the boiler has a pipe, *h*, extending upward from the top thereof. This pipe is somewhat larger in diameter than *f*, and surrounds the same, leaving space between the two for the passage of steam. The steam and the condensation thereof are conveyed back to the boiler, into the lower part of which they are delivered by pipe-coils *i i*, the upper ends of which connect with the branches *k k'* of the pipe *h*. The flow of steam is somewhat accelerated by the current of heat which passes through the open ends of the T-piece G. The necessary heat is obtained from a gas-burner, preferably of the ring kind, which is fitted immediately beneath the boiler, as at  
45 *l*, and which receives its supply of gas through  
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a pipe, *m*, and valve *n*, the upper end of the said pipe being secured to the body of the table, as at *o*, so that a rubber or other connection may be made with the fixed pipes of the building. A cylindrical chamber, *p*, is constructed on the upper side of the T portion of the pipe *h*, in which is fitted a safety-valve, *r*, that is held to its seat by a spring, *s*, operating against a cap or cover, *t*, which is screwed on the top of the chamber *p*, or otherwise so connected therewith as to permit of removal for purposes of filling the boiler, or for gaining access to the valve, should the same require attention.  
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To prevent cool currents of air from reaching the boiler, and thus retarding the heating of the water therein, the said boiler is covered with a jacket, as shown at *t'*.  
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The top of the table is preferably made of marble, and a reflector of smooth or polished material, *u*, having its center somewhat depressed, as at *u'*, is fitted beneath the same, so as to insure the outward radiation of the heat.  
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Both the top and reflector are made removable, in order that access may be had to the piping and safety-valve.  
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Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—  
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1. A table, between the legs of which is supported a boiler, D, provided with heat-circulating pipes *i i'*, as described, and for the purpose set forth.

2. In combination with a table having a removable top and reflector, a boiler provided with heat-circulating pipes, all arranged to operate as described, and for the purpose set forth.  
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3. In a radiator, a boiler having an inner shell shaped somewhat like an inverted funnel, from the smallest end of which extends a pipe, *f*, having a T-head, said pipe and T-head surrounded by a similarly-shaped pipe, *h*, the lower end of which is connected with the outer shell of the boiler, and the upper ends (marked *k k'*) with circulating-pipes *i i'*, which connect with the lower part of the boiler, substantially as described.  
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4. The heating apparatus herein described,  
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consisting of the boiler D, having an inner shell,  
e, and pipes *f* and *h*, the latter provided with  
safety-valve *r* and cap *p*, and with branches  
*k k'* and pipes *i i'*, substantially as described,  
5 and for the purpose set forth.

5. The combination table and radiator herein  
described, the same consisting of a table hav-  
ing a removable top, also a removable reflect-  
or, *u*, pipe *m*, and burner *l*, boiler D, and pipes

*f h* and *i i'*, as described, and for the purpose 10  
specified.

In testimony whereof I hereunto sign my  
name.

MARK R. SPELMAN.

In presence of—

P. J. FINNEY,

H. P. SUMAN.