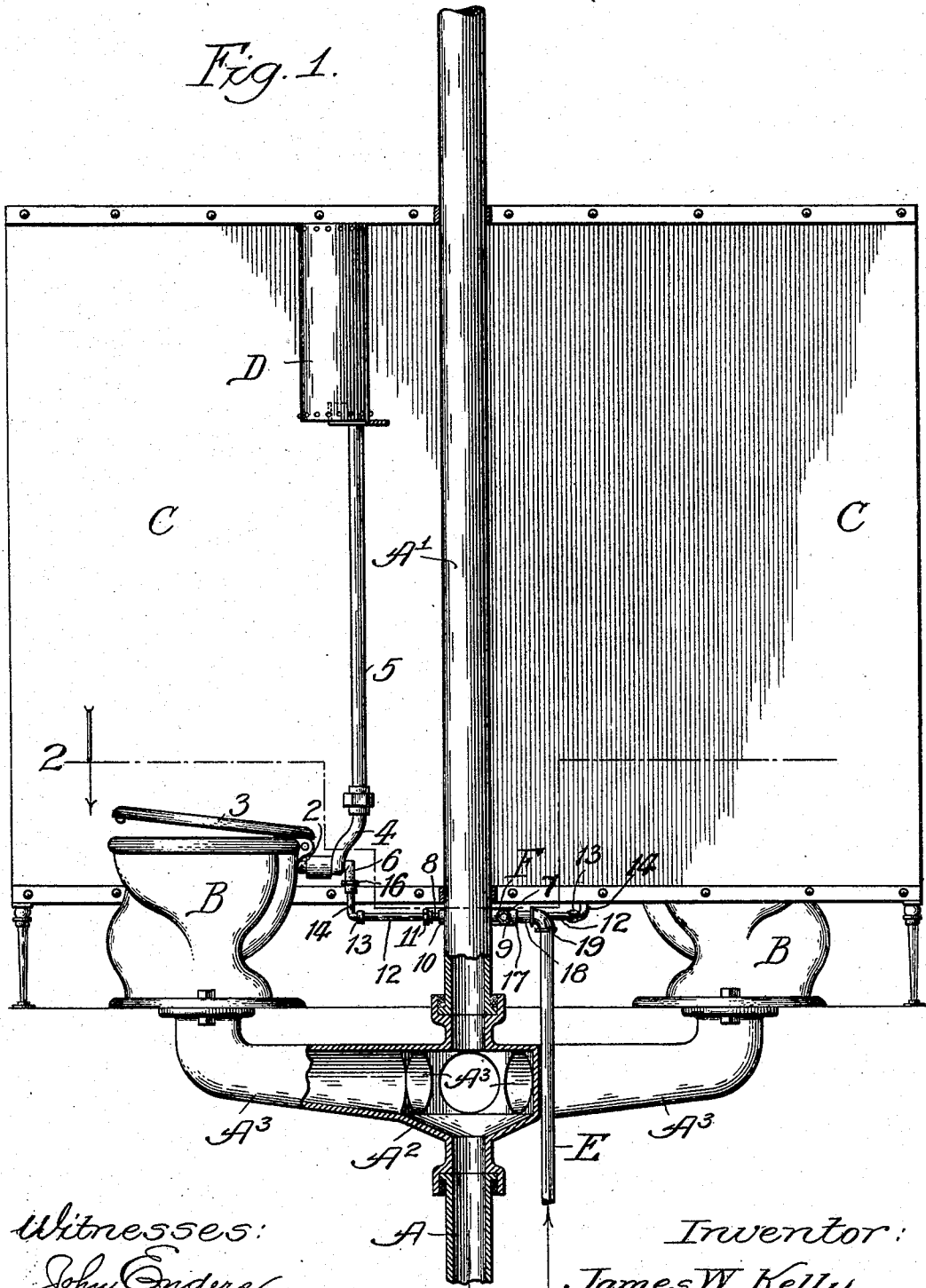


J. W. KELLY.
CLOSET CONSTRUCTION.
APPLICATION FILED APR. 30, 1909.

933,373.

Patented Sept. 7, 1909.
2 SHEETS—SHEET 1.

Fig. 1.



Witnesses:
John Enders
Chas. H. Bull

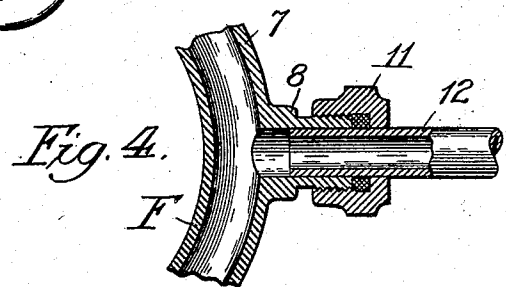
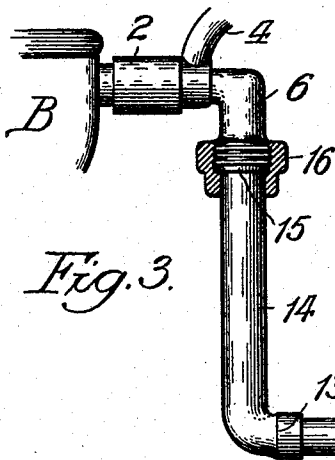
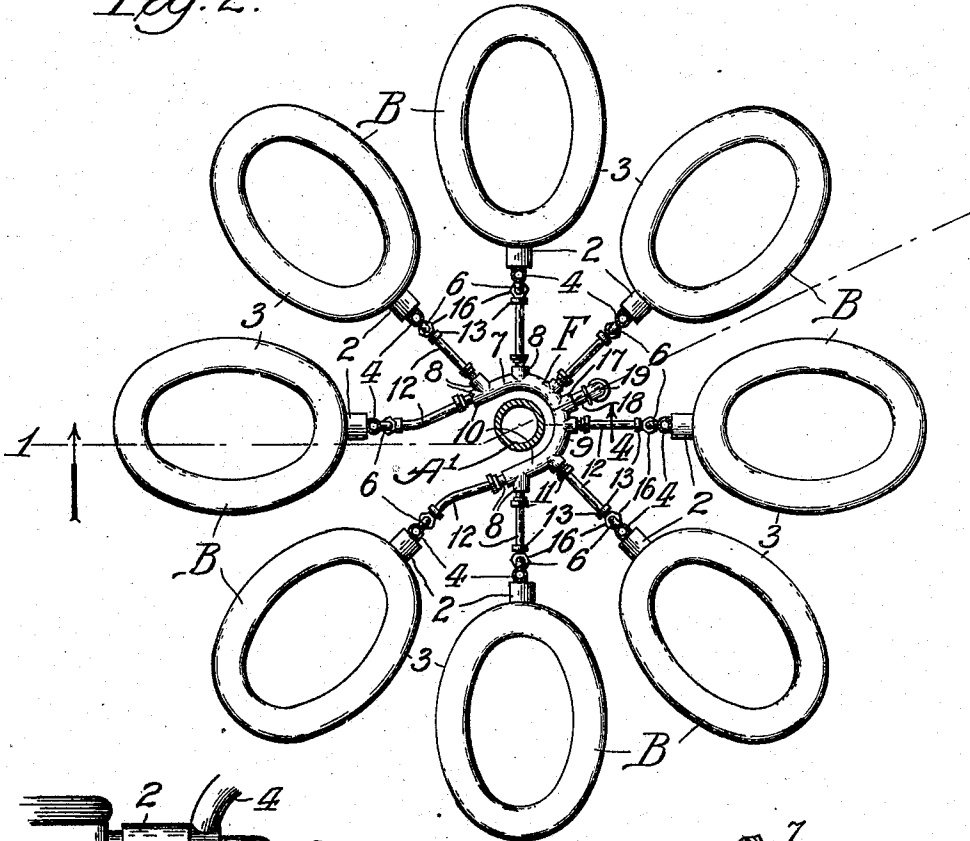
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Fig. 2.



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UNITED STATES PATENT OFFICE.

JAMES W. KELLY, OF CHICAGO, ILLINOIS.

CLOSET CONSTRUCTION.

933,373.

Specification of Letters Patent.

Patented Sept. 7, 1909.

Application filed April 30, 1909. Serial No. 493,200.

To all whom it may concern:

Be it known that I, JAMES W. KELLY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Closet Construction, of which the following is a specification.

My invention relates particularly to water-closets of the character described in my Patent No. 905,539, granted December 1, 1908.

My primary object is to provide simple, cheap and effective water connections for closets of the character indicated.

The invention is illustrated in its preferred embodiment in the accompanying drawings, in which—

Figure 1 represents a broken sectional view illustrating closet-construction embodying my improvements; Fig. 2, a plan sectional view taken as indicated at line 2 of Fig. 1; Fig. 3, a broken elevational view, partly in section, illustrating the connections between an improved pipe-fitting employed and the flush-tanks and closet-bowls; and Fig. 4, a broken plan sectional view, showing a detail of the connections between said improved pipe-fitting and the pipes radiating therefrom.

In the construction illustrated, A, A¹ represent aligned vertical soil-pipe sections; A², an interposed soil-pipe fitting having radiating branches A³ provided with upturned ends; B, closet-bowls grouped about the soil-pipe and mounted on the upturned ends of the branches A³ of the fitting A²; C, C, a series of closet-compartment walls radiating from the soil-pipe section A¹ with which they are connected; D, flush-tanks (one shown) supported between the walls C and connected with the bowls B.

The soil-pipe fitting A² is described and claimed in the above-mentioned patent, and it is unnecessary to describe the same in detail in the present application. The bowls B and the compartment-walls C may be of any approved construction.

The tanks D are supported on brackets, or shelves, some distance above the closet-bowls and are grouped somewhat closely about the soil-pipe section A¹. The rear upper portions of the bowls B are equipped with pipe-fittings 2 which contain valves (not shown) which are operated by the seats 3 in a well understood manner. Each fitting 2 has an upturned branch 4 which communicates,

through the pipe 5, with the flush-tank above it; and each fitting 2 also has a downturned branch 6 through which water is admitted to the flush tank. The drawings illustrate eight closet-bowls grouped about the central soil-pipe, and in the preferred construction the number of flush-tanks correspond with the number of closet-bowls.

E represents a water-supply pipe which rises between two of the arms A³ of the soil-pipe fitting A²; and F represents an improved pipe-fitting which receives water from the supply-pipe E and has connections with the branch-pipes 6. The pipe-fitting F preferably comprises a hollow cast member of substantially U-form and nipples 8 cast integrally therewith and radiating therefrom. The body 7 of the fitting is preferably of tubular cross-section, and said body has a base-portion 9 and arms 10 embracing the soil-pipe section A¹. Two of the nipples 8 project from the extremities of the arms 10, as will be understood from Figs. 1 and 2. The nipples 8 are threaded and equipped with nuts, or glands, 11 through which extend the inner ends of the substantially radial pipes 12. The outer ends of the pipes 12 connect with the inturned elbows 13 of vertical pipes 14, whose upper ends are provided with collars 15 which are connected by nuts 16, with the downturned threaded ends of the branch-pipes, or nipples, 6. In practice, the nuts 16 are made to slip over the elbows 13 in assembling.

The base-portion 9 of the fitting F is equipped with a hollow internally threaded boss 17 which is connected, by a pipe-section 18, with an elbow 19 with which the upper end of the pipe E is fitted. It will be understood that the pipe-fitting F is supported in a substantial manner through the medium of its connection with the branch-pipes 6 and the supply-pipe E.

In operation, the valves with which the fittings 2 are equipped are opened through the medium of the seats 3, thereby to admit water to the tanks D, and the tanks operate to flush the closets in the usual manner.

The construction described is simple, cheap and durable, and the connections may be made expeditiously in the erection of the structure.

The foregoing detailed description has been given for clearness of understanding only. Hence, no undue limitation should

be understood therefrom, but the appended claims should be construed as broadly as permissible in view of the prior art.

What I regard as new, and desire to secure by Letters Patent, is—

1. In closet-construction, the combination of a soil-pipe, a plurality of closet-bowls grouped about said soil-pipe and having outlets communicating therewith, flush-tanks communicating with said closet-bowls, a hollow pipe-fitting having arms embracing said soil-pipe and having, also, nipples projecting from the fitting, pipes connected with said nipples and communicating with said flush-tanks, and a water-supply pipe connected with said pipe-fitting.

2. In closet-construction, the combination of a soil-pipe, a plurality of closet-bowls grouped about said soil-pipe, flush-tanks communicating with said closet-bowls, a hollow-pipe fitting having arms embracing said soil-pipe and having nipples radiating from the body thereof and nipples extending from the extremities of said arms, pipes connected with said nipples and communicating with said flush-tanks, and a water-supply pipe connected with said pipe-fitting.

3. In closet-construction, the combination of a soil-pipe, an interposed soil-pipe fitting having radiating arms with upturned extremities, closet-bowls mounted upon the

upturned extremities of said arms, flush-tanks communicating with said closet-bowls, a hollow pipe-fitting having arms embracing said soil-pipe, and having nipples cast integrally therewith, pipes connected with said nipples and communicating with said flush-tanks, and a water-supply pipe extending between two of the arms of said soil-pipe fitting, and connected with said second-named pipe-fitting.

4. In closet-construction, the combination of a soil-pipe, a plurality of closet-bowls grouped about said soil-pipe and equipped at their upper rear portions with fittings having an upturned branch and a downturned branch, flush-tanks grouped about said soil-pipe above said bowls, pipes connecting said flush-tanks with the upturned branches of said fittings, a curved hollow pipe-fitting having arms embracing said soil-pipe, and having integrally formed nipples, a water-supply pipe connected with said second-named fitting, and pipe-connections between said downturned branches of said first-mentioned fittings and the nipples of said second-named fitting.

JAMES W. KELLY.

In presence of—

A. U. THORIEN,
R. A. SCHAEFER.