UNITED STATES PATENT OFFICE.

EDWIN G. EVENSTA AND HENRY J. ANDERSON, OF MINNEAPOLIS, MINNESOTA, AS
SIGNORS TO E-Z MANUFACTURING CO., OF MINNEAPOLIS, MINNESOTA, A COR
PORATION OF MINNESOTA.

LAUNDRY-TRAY FAUCET.

Application filed February 26, 1923. Serial No. 621,231.

Patented Dec. 23, 1924. 1,520,018

To whom it may concern:

Be it known that we, EDWIN G. EVENSTA and HENRY J. ANDERSON, citizens of the
United States, residing at Minneapolis, in the county of Hennepin and State of Minneso
ta, have invented certain new and useful Improvements in Laundry-Tray Faucets; and we do hereby declare the following
be a full, clear, and exact description of
the invention, such as will enable others
skilled in the art to which it appertains to
make and use the same.

Our invention relates to faucets of the
type having swinging nozzles, and provides
extremely simple and highly efficient means
for detachably securing the same to a mul
tiple compartment laundry tray. Said in
vention further provides a longitudinally
extensible and contractible nozzle mounted
to complete rotation over the laundry tray
to which it is attached for delivery into any
one of the several compartments of the
tray and to be positioned to leave the tray
free for the attachment of a wringer there
and for delivery from the nozzle into a
receptacle at one side of the laundry tray,
such as a washing machine, a pail, boiler,
tub, or the like.

Generally stated, the invention consists
of the novel devices and combinations of
devices hereinafter described and defined
in the claims.

In the accompanying drawings, which il
strate the invention, like characters indi
cate like parts throughout the several
views.

Referring to the drawings:

Fig. 1 is a view principally in vertical
section showing the improved faucet at
ached to a two-compartment laundry tray;

Fig. 2 is a view principally in elevation
with some parts sectioned on the line 2—2
of Fig. 1;

Fig. 3 is a view principally in plan, with
some parts sectioned on the line 3—3 of
Fig. 1;

Fig. 4 is a modification showing a differ
ent water supply head, nozzle and attach
bracket;

Fig. 5 is a view principally in plan with
some parts sectioned on the line 5—5 of
Fig. 4;

Fig. 6 is a view corresponding to Fig. 4
but showing another form of water supply
head; and

Fig. 7 is a view partly in elevation and
partly in section showing another form of
the attaching bracket.

The numeral 7 indicates a laundry tray
which has two compartments located on op
posite sides of a dividing partition 8. Re
ferring first to the invention as illustrated
in Figs. 1 to 4, inclusive, the numeral 9 in
icates a faucet head provided with a mixing
chamber 10 which receives hot and cold
water, respectively, from depending water
supply pipes 11 and 12. Applied to the de
livery ends of the pipes 11 and 12 are nip
nels 13 aligned with nipples 14 formed with
the head 9 and detachably connected thereto
by unions 15. The nipples 14 and cham
ber 16 have communication with the
mixing chamber 10 through ports 17 nor
mally closed by valve heads 18 on the inner
eends of handle-equipped valve stems 19.
These valve stems 19 have the customary
screw-threaded engagement with stuffing
boxes 20 applied to tubular extensions 21 on
the head 9. At its central portion the
faucet head 9 is provided with a depending
nipple 22 into which the mixing chamber
10 empties, and which depending nipple ter
minates above the back of the laundry tray
7 at the partition 8.

A nozzle head 23 is provided with an up
standing nipple 24 aligned with the nipple
22 and detachably connected thereto by a
union 25 which affords a swivel joint that
connects the nozzle head 23 to the water
supply head 9. Attached to the nozzle head
23 is a longitudinal extensible and contrac
tible nozzle 26 comprising telescopically
connected pipe sections and stuffing boxes
27 which afford tight joints between the
several sections of said nozzle to prevent
leakage. To further prevent leakage be
between the members of the nozzle 26 and also
guide the sliding members thereof, packings
28 are applied to the inner ends of said
sliding members. The delivery end of the
nozzle 26 is curved downward, expanded
and screw-threaded at 29 to receive a hose
connection, not shown.

A depending trunnion 30, aligned with the
nipple 24, is screwed into the recessed lower
d of the nozzle head 23 and journaled in a
bearing sleeve 31 formed with one of the members of a longitudinally divided attaching bracket 32 which rests directly on the back of the laundry tray 7. Below the bearing sleeve 31, the trunnion 30 is conically expanded, as indicated at 33, and mounted in correspondingly formed half seats 34 in the members of the brackets 32. In the lower end of the trunnion 30 is a polygonal socket 35 adapted to receive a wrench for screwing the trunnion 30 into the nozzle head 23 or removing the same therefrom. Formed with the nozzle head 23 is an annular flange 36 which extends over the upper end portion of the bearing sleeve 31 to cover the joint between said bearing sleeve and nozzle head 23 and to prevent water from getting therein.

Formed with the members of the bracket 32, at each end thereof, is a pair of depending clamping fingers 37 arranged to engage opposite faces of the back wall of the laundry tray 7. Hinged joints connect the two members of the bracket 32 with freedom to permit lateral adjustment thereof and the opening and closing of the clamping fingers 37 onto the back wall of the laundry tray 7. Each of these hinge joints comprises a perforated upstanding lug 38 and a cooperating tongue 39 loosely extended therethrough.

The hinge tongues 39 have upturned ends which engage the hinge lugs 38 to limit the separating movement of the members of the bracket 32. These hinge joints, however, may be separated by a folding movement of the members of the brackets 32 to separate the clamping fingers 37 at and the same time draw said members apart. The members of the bracket 32 are connected by a pair of draw bolts 40 loosely extended through bores in one of the members of the bracket 32 and have screw-threaded engagement with the other of said members to draw said members together and clamp the fingers 37 onto the back of the laundry tray 7.

Formed with the inner edge of one of the members of the bracket 32 is a pair of lugs 41 arranged to engage the other member of said bracket and hold said members spaced, as shown in Fig. 3. These lugs 41 act as fulcums during the clamping of the fingers 37 onto the laundry tray under the action of the draw bolts 40.

From the above description it is evident that the union 25 and trunnion 30 connect the nozzle head 23 to the water supply head 10 and bracket 32 for complete rotary movement between said head and laundry tray 7 and support the nozzle 26 for complete horizontal swinging movement, whereby either of the compartments of the trays may be filled from said nozzle or said nozzle turned into a position over one back of the tray so as to be out of the way and permit the use of the full length of the partition 8 in attaching a wringer thereto which is especially important in narrow laundry trays. Said nozzle may also be swung into a position to discharge outside of the tray for use in filling a washing machine, pail, boiler, tub or the like.

Referring now to the modification shown in Figs. 4 and 5, the nozzle head 42 is of the same construction as the nozzle head 23, and its upstanding nipple 43 is swivelled by a union 44 to a depending nipple 45 on a U-shaped water supply head 46 having unions 47, to which may be attached hot and cold water faucets, not shown. The nozzle head 42 supports a nozzle 48 for complete horizontal swinging movement over the laundry tray 7. A trunnion 49, identical with the trunnion 30, is attached to the nozzle head 42 and journaled in a bearing sleeve 50 and seat 51 formed with an attaching bracket comprising a one-piece body plate 52 having pairs of clamping fingers arranged to loosely embrace the back of the laundry tray 7. The inner members of the fingers 53 are clamped onto the back of the laundry tray 7 by set screws 54 which have screw-threaded engagement with the outer fingers 53 and impinge against said laundry tray.

The faucet and attaching bracket shown in Fig. 6 are identical with the construction shown in Figs. 4 and 5 with the exception that a T-shaped water supply head 46, to which may be attached hot and cold water supply faucets, not shown, is substituted for the water supply head 46, and its depending nipple is attached to the nozzle head 42 by the union 44.

The attaching bracket shown in Fig. 7 comprises a single flat body plate 55 supported on and attached to the back of the laundry tray 7 by expansion bolts 56, and has integrally formed therewith a bearing sleeve 57 and seat 58 adapted to receive either the trunnion 36 or the trunnion 49.

What we claim is:

1. The combination with a water supply head, of a bearing adapted to be attached to a laundry tray, and a swinging nozzle-equipped head having a trunnion journaled in said bearing and held thereby against removal therefrom, said two heads having nipples connected by a swivel joint.

2. The combination with a water supply head, of a bracket adapted to be attached to a laundry tray and having a seat and a bearing sleeve, and a swinging nozzle-equipped head having a trunnion journaled in the bearing sleeve and provided with an expanded portion mounted in said seat for holding the trunnion against removal from the bearing sleeve, said two heads having nipples connected by a swivel joint.

3. The combination with a water supply head, of a two-part clamping bracket adapted to be attached to a laundry tray, one member of said bracket having a bearing
sleeve, and a nozzle-equipped head having a trunnion journaled in said sleeve, said two heads having nipples connected by a swivel joint.

4. The combination with a water supply head, of a two-part clamping bracket adapted to be attached to a laundry tray, said bracket having formed with the two members thereof cooperating half seats, a bearing sleeve formed with one of the members of the bracket, and a swinging nozzle-equipped head having a trunnion journaled in said bearing sleeve and provided with an expanded portion mounted in said half seat, said two heads having nipples connected by a swivel joint.

5. The combination with a water supply head, of a bearing adapted to be attached to a laundry tray, a swinging nozzle-equipped head, and a trunnion having screw-threaded engagement with said nozzle-equipped head and journaled in said bearing, said trunnion having a socket for the application of a wrench, said two heads having nipples connected by a swivel joint.

6. The combination with a water supply head, of a bracket adapted to be attached to a laundry tray, comprising a two-part body having depending clamping fingers, draw bolts connecting the members of said body, and a swinging nozzle-equipped head swivelled to the water supply head and bracket.

7. The combination with a water supply head, of a bracket adapted to be attached to a laundry tray, a two-part body, the members of which are connected by a hinge joint and provided with depending clamping fingers, draw bolts connecting the members of said body, and a swinging nozzle-equipped head swivelled to the water supply head and bracket.

8. The structure defined in claim 7 in which the members of the hinge joint are separable.

9. The combination with a water supply head, of a bracket adapted to be attached to a laundry tray and comprising a longitudinally divided body, the members of which are connected by a separable hinge joint and provided with depending clamping fingers, means holding the members of the body laterally spaced with freedom for movement on their hinge joint, draw bolts connecting the members of said body, and a swinging nozzle-equipped head swivelled to the water supply head and bracket.

10. The combination with a bearing sleeve adapted to be attached to a laundry tray, of a water supply head above the bearing sleeve, and a swinging nozzle-equipped head between the bearing sleeve and water supply head and having a trunnion journaled in the bearing sleeve, said head having a depending flange surrounding the upper end of the bearing sleeve, said two heads having nipples connected by a swivel joint.

In testimony whereof we affix our signatures.

EDWIN G. EVENSTA.
HENRY J. ANDERSON.