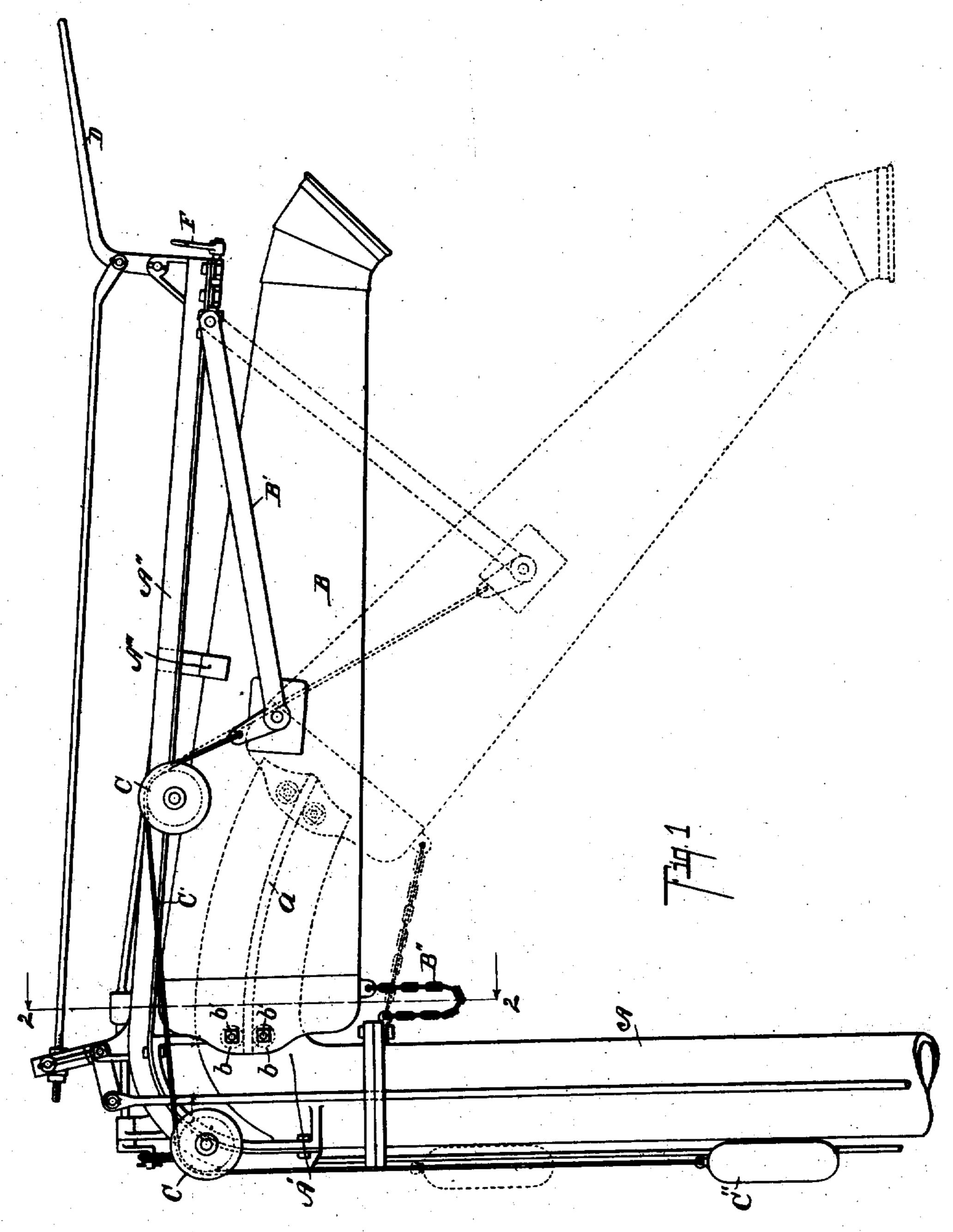
## F. N. WHITESELL. STAND PIPE. APPLICATION FILED JUNE 11, 1908.

900,141.

Patented Oct. 6, 1908.
2 SHEETS-SHEET 1.



Witnesses: Lulu & Guenfield Close & Braden Inventor. By Chappell Cash. Att'y.

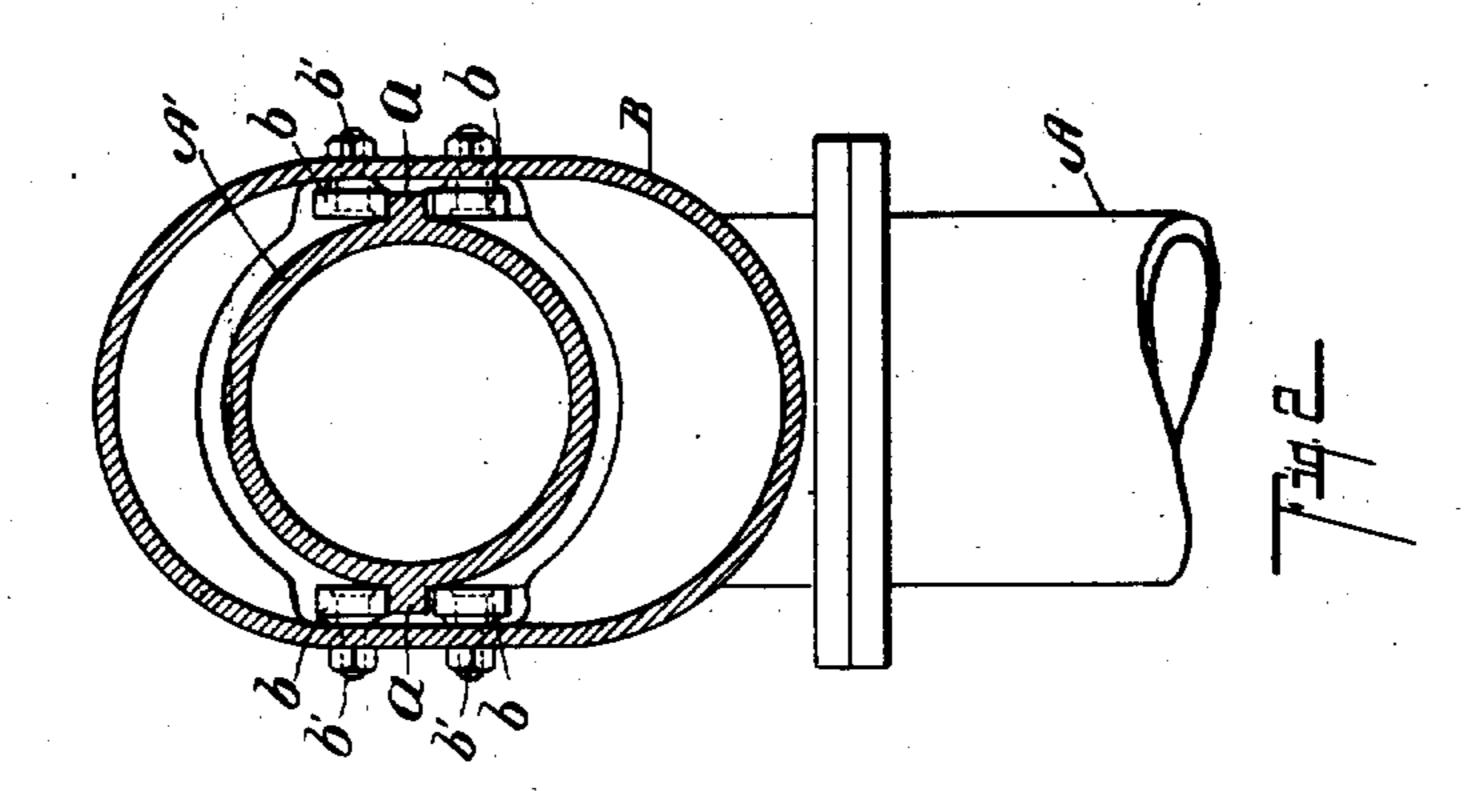
## F. N. WHITESELL. STAND PIPE.

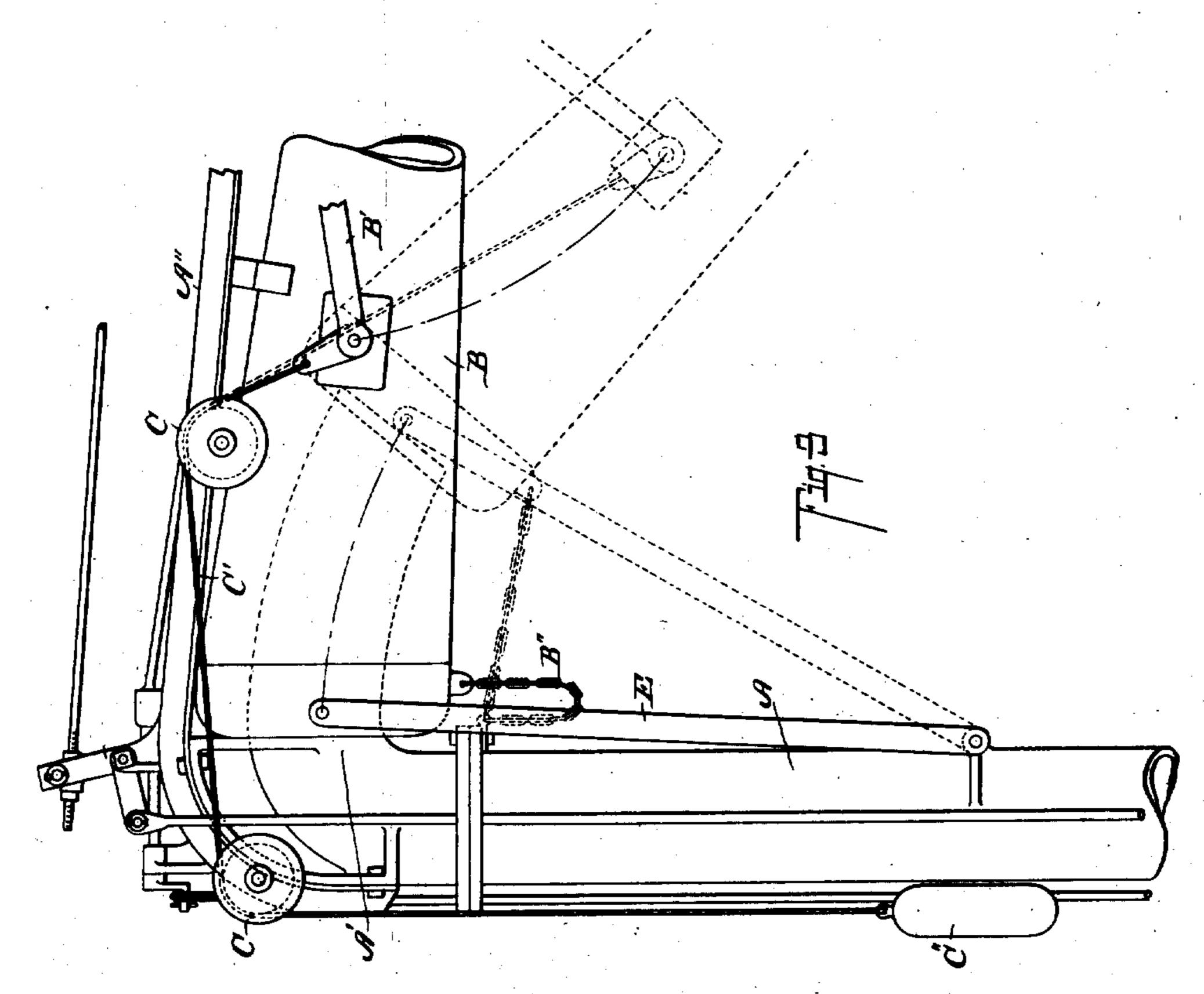
APPLICATION FILED JUNE 11, 1906.

900,141.

Patented Oct. 6, 1908.

2 SHEETS-SHEET 2.





Witnesses: Lulu & Guenfield Clos & ander

Predrick h. Whitell
By Chapfell Carl
Att'ys

## UNITED STATES PATENT OFFICE.

PREDRICK N. WHITESELL, OF THREE RIVERS, MICHIGAN, ASSIGNOR TO THE SHEFFIELD CAR COMPANY, OF THREE RIVERS, MICHIGAN.

## STAND-PIPE.

No. 900,141.

Specification of Letters Patent.

Patented Oct. 6, 1908.

Application filed June 11, 1906. Serial No. 321,177.

To all whom it may concern:

Be it known that I, FREDRICK N. WHITEsell, a citizen of the United States, residing at Three Rivers, county of St. Joseph, State 5 of Michigan, have invented certain new and useful Improvements in Stand-Pipes, of which the following is a specification.

This invention relates to improvements in

stand pipes or water columns.

10 The objects of this invention are: First, to provide an improved stand pipe or water column which may be raised or lowered to accommodate locomotive tenders of varying heights, and also so that it may be elevated 15 out of the way, the discharge end of the delivery spout remaining in substantially the same vertical plane, throughout its adjustment. Second, to provide an improved water column or locomotive stand pipe 20 which embodies the above advantages, and which is very simple in structure, easy to operate, and not likely to get out of repair.

Further objects, and objects relating to structural detail will definitely appear from

25 the detail description to follow.

by the devices and means described in the following specification.

The invention is clearly defined and point-

30 ed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing forming a part of this

specification, in which,

Figure 1 is a detail side elevation of my improved stand pipe or water column. Fig. 2 is a detail vertical section taken on a line corresponding to line 2-2 of Fig. 1, showing structural details. Fig. 3 is a detail side 40 elevation of a modified construction of my improved stand pipe or water column, the track a for the discharge spout being omitted and the link E being provided for guiding and supporting the inner end of the 45 spout.

In the drawing similar letters of reference refer to similar parts throughout the several:

views.

Referring to the drawing, A is the vertical 50 upright portion of the stand pipe, which is openings of the locomotive tenders and may provided at its upper end with a laterally be raised out of the way of passing locomoturned discharge nozzle A'. The delivery tives. The discharge end of the spout is ar-

spout B is telescopically arranged over this discharge nozzle as clearly appears in the drawing. The inner end of the discharge 55 spout is, as illustrated, considerably larger in diameter than the discharge nozzle in the vertical direction so that it may be swung. freely up and down thereon. On the sides of the discharge nozzle A' are formed tracks 60 or ways a, the same being curved downwardly; see Figs. 1 and 2.

Arranged within the discharge spout B are rollers b adapted to engage this track a, whereby the inner end of the discharge 65 spout is supported and guided. The rollers b are preferably secured to the discharge spout by suitable bolts as b', which serve as journals therefor. The rollers b are arranged in pairs and engage both sides of 70 the track. The discharge spout B is further supported and guided by the link B', which is pivoted thereto at a point preferably near its center of gravity and to the bracket-like arm A", which projects outwardly from 75 the vertical portion of the stand pipe. The bracket arm A" projects outwardly above the I accomplish the objects of my invention | discharge spout and the link B' is pivoted to the outer end thereof, the lower end of the link being directed inwardly. By thus 80 arranging the supports for the discharge spout they coact so that the spout is positively guided in its movement and the outer end caused to swing in a substantially vertical plane. The outward and downward 85 movement of the discharge pipe is limited by the chain B", which is connected to the inner end thereof and to the vertical pipe A. The counterbalance C" is preferably provided for the discharge spout, the same be- 90 ing connected thereto by the cable C', which is arranged over the pulleys C, one of which is mounted upon the bracket A" above the spout, and the other upon the vertical pipe A at the rear.

On the under side of the arm A" is a rest A" against which the delivery spout B. rests when in its normal or upper position. With the parts thus arranged, the discharge spout may be very easily adjusted to bring 100 the same into proper position to the inlet

ranged in substantially the same vertical plane throughout its adjustment so that it properly registers with the inlet of the tank.

In the modified construction shown in 5 Fig. 3, the guide link E is pivoted to the discharge spout B at its inner end and to the vertical pipe A. This serves to guide the inner end of the discharge spout, causing it to swing in the arc of a circle as the spout is 10 adjusted. For manipulating the valves of the stand pipe or water column, levers D and F are provided. As these features form no part of this invention, they are not described in detail herein.

15 I have illustrated and described my improved water column or stand pipe in detail in the form preferred by me, although I am aware that it is capable of considerable variation in structural detail without de-

20 parting from my invention.

Having thus described my invention, what I claim as new and desire to secure by Let-

ters Patent is:

1. In a water column or stand pipe the 25 combination of a vertical pipe; a laterally projecting discharge nozzle therefor; a discharge spout telescopically arranged over said discharge nozzle; downwardly curved tracks or ways on the sides of said discharge 30 nozzle; rollers on said discharge spout arranged in pairs to engage the said tracks or ways whereby the inner end of said discharge spout is adjustably supported and guided; an arm projecting outwardly over 35 said discharge spout; a link pivoted thereto and to said discharge spout said link being connected to said discharge spout at substantially the center of gravity thereof; a counterweight for said discharge spout; a 40 cable connected thereto and to said discharge spout at substantially its center of gravity; guide pulleys for said cable, one of which is arranged on said arm above said discharge spout and the other to the rear thereof; a 45 rest on said arm for said spout when in its normal or upper position; and a chain connected to the vertical pipe and the inner end of the discharge spout to limit its outward movement, for the purpose specified.

50 2. In a water column or stand pipe the combination of a vertical pipe; a laterally projecting discharge nozzle therefor; a discharge spout telescopically arranged over said discharge nozzle; downwardly curved 55 tracks or ways on the sides of said discharge nozzle; rollers on said discharge spout arranged in pairs to engage the said tracks or ways whereby the inner end of said discharge spout is adjustably supported and 60 guided; an arm projecting outwardly over said discharge spout; a link pivoted thereto and to said discharge spout; a counterweight for said discharge spout; a cable connected thereto and to said discharge spout; a rest

on said arm for said spout when in its her- 65 mal or upper position; and a chain connected to the vertical pipe and the inner end of the discharge pipe to limit its outward

movement, for the purpose specified.

3. In a water column or stand pipe the 70 combination of a vertical pipe; a laterally projecting discharge nozzle therefor; a discharge spout telescopically arranged over said discharge nozzle; downwardly curved tracks or ways on the sides of said discharge 75 nozzle; rollers on said discharge spout arranged in pairs to engage the said tracks or ways whereby the inner end of said discharge spout is adjustably supported and guided; an arm projecting outwardly over said dis- 80. charge spout; a link pivoted thereto and to said discharge spout said link being connected to said discharge spout at substantially the center of gravity thereof; a counterweight for said discharge spout; a cable con- 85 nected thereto and to said discharge spout at substantially its center of gravity; guide pulleys for said cable, one of which is arranged on said arm above said discharge spout and the other end to the rear thereof, 90 for the purpose specified.

4. In a water column or stand pipe the combination of a vertical pipe; a laterally projecting discharge nozzle therefor; a discharge spout telescopically arranged over 95 said discharge nozzle; downwardly curved tracks or ways on the sides of said discharge nozzle; rollers on said discharge spout arranged in pairs to engage the said tracks or ways whereby the inner end of said dis- 100 charge spout is adjustably supported and guided; an arm projecting outwardly over said discharge spout; a link connected to said discharge spout; a counterweight for said discharge spout; a cable connected there- 105 to and to said discharge spout; for the pur-

pose specified.

5. In a water column or stand pipe, the combination of a vertical pipe; a laterally projecting discharge nozzle therefor; a dis-110 charge spout telescopically arranged over said discharge nozzle; means for supporting and guiding the inner end of said discharge spout whereby it may be telescopically adjusted over said nozzle; an arm projecting 115 outwardly over said discharge spout; a link pivoted to said arm and arranged with its lower end directed inwardly and pivotally connected to said spout in front of said supporting and guiding means for the inner end 120 thereof whereby said spout is positively guided in its movement and its outer end caused to swing in a substantially vertical plane; a counterweight for said discharge spout; a cable connected thereto and to said 125 discharge spout; guide pulleys for said cable, one of which is arranged on said arm above said discharge spout and the other to

the rear thereof; a rest on said arm for said spout when in its normal or upper position; and a chain connected to the vertical pipe and the inner end of the discharge spout to 5 limit its outward movement, for the purpose

specified.

6. In a water column or stand pipe, the combination of a vertical pipe; a laterally projecting discharge nozzle therefor; a dis-10 charge spout telescopically arranged over said discharge nozzle; means for supporting and guiding the inner end of said discharge spout whereby it may be telescopically adjusted over said nozzle; an arm projecting 15 outwardly over said discharge spout; a link pivoted to said arm and arranged with its lower end directed inwardly and pivotally connected to said spout in front of the said supporting and guiding means for the inner 20 end thereof whereby said spout is positively guided in its movement and its outer end caused to swing in a substantially vertical plane; a counterweight for said discharge spout; a cable connected thereto and to said 25 discharge spout; guide pulleys for said cable, one of which is arranged on said arm above said discharge spout and the other to the rear thereof; a rest on said arm for said spout when in its normal or upper position, 30 for the purpose specified.

7. In a water column or stand pipe, the combination of a vertical pipe; a laterally projecting discharge nozzle therefor; a discharge spout telescopically adjusted over 35 said discharge nozzle; means for supporting and guiding the inner end of said discharge spout whereby it may be telescopically arranged over said discharge nozzle; an arm projecting outwardly over said discharge 40 spout; a link pivoted to said arm and arranged with its lower end directed inwardly and pivotally connected to said spout in front of said supporting and guiding means for the inner end thereof whereby said spout 45 is positively guided in its movement and its outer end caused to swing in a substantially vertical plane; a counterweight for said discharge spout; a cable connected thereto and to said discharge spout; guide pulleys for 50 said cable, one of which is arranged on said arm above said discharge spout and the other to the rear thereof, for the purpose

specified.

8. In a water column or stand pipe, the com-55 bination of a vertical pipe; a laterally projecting discharge nozzle therefor; a discharge spout telescopically arranged over said discharge nozzle; means for supporting and guiding the inner end of said discharge 60 spout whereby it may be telescopically adjusted over said discharge nozzle; an arm projecting outwardly over said discharge spout; a link pivoted to said arm and arranged with its lower end directed inwardly

and pivotally connected to said spout in 65 front of said supporting and guiding means for the inner end thereof whereby said spout is positively guided in its movement and its outer end caused to swing in a substantially vertical plane; a rest on said arm for said 70 spout when in its normal or upper position, and a chain connected to the vertical pipe and the inner end of the discharge spout to limit its outward movement, for the purpose specified.

9. In a water column or stand pipe, the combination of a vertical pipe; a laterally projecting discharge nozzle therefor; a discharge spout telescopically arranged over said discharge nozzle; means for supporting 80 and guiding the inner end of said discharge spout whereby it may be telescopically adjusted over said nozzle; an arm projecting outwardly over said discharge spout; a link pivoted to said arm and arranged with its 85 lower end directed inwardly and pivotally connected to said spout in front of said supporting and guiding means for the inner end thereof whereby said spout is positively guided in its movement and its outer end 90 caused to swing in a substantially vertical plane; a rest on said arm for said spout when in its normal or upper position, for the

purpose specified.

10. In a water column or stand pipe, the 95 combination of a vertical pipe; a laterally projecting discharge nozzle therefor; a discharge spout telescopically arranged over said discharge nozzle; means for supporting and guiding the inner end of said discharge 100 spout whereby it may be telescopically adjusted over said nozzle; an arm projecting outwardly over said discharge spout; a link pivoted to said arm and arranged with its lower end directed inwardly and pivotally 105 connected to said spout in front of said supporting and guiding means for the inner end thereof whereby said spout is positively guided in its movement and its outer end caused to swing in a substantially vertical 116 plane; a counterweight for said discharge spout; a cable connected thereto and to said discharge spout; guide pulleys for said cable, one of which is arranged on said arm above said discharge spout and the other to 115 the rear thereof; and a chain connected to the vertical pipe and the inner end of the discharge spout to limit its outward movement, for the purpose specified.

11. In a water column or stand pipe, the 120 combination of a vertical pipe; a laterally projecting discharge nozzle therefor; a discharge spout telescopically arranged over said discharge nozzle; means for supporting and guiding the inner end of said discharge 125 spout whereby it may be telescopically adjusted over said discharge nozzle; an arm projecting outwardly over said discharge

and the second of the second o

BANG CON INDIVIDUAL TO A SECTION AND A STATE OF THE CONTRACT O

Militaria fili gibraria in in in in interpet de la literation di cari de la companya de la companya de la comp

n servició será tento que mais se trata de procedit de mais tente de mais de mais de mais de mais de mais de m O servició será tento que mais se trata de procedit de mais tente de mais de mais de mais de mais de mais de m

ANNERS OF FRANKSING A VERNING OF THE PARTY AND SEAL SOLD OF THE OWNER OF THE SEAL OF THE PARTY.

augungen blieb dem under beiten dem ziel dem ziehen bei dem dem dem ziehen zu dem ziehen dem dem ziehen dem

nava benggan ur gilimiga masak dianga mganthi kangle, ikita kira di dalah as isa benga di sa

dig telember state of grant is spirited with the state of the environment of the filler of

application for the second of the second of the first of the second of the second of the second of the second of

Had a straigh was admit. Since when the order of being both of the constant of the straight of

agist Mississon zwierien in der Greiche der Amerikans in der Amerikans auf der Amerikans der Amerikans in der

Maria Latin data marine greinisme tens militari i etterni alli da eli erritari de la come di especialisme di e

The property of the property of the second of the property of the property of the second of the seco

是外国大学,不可以不是一种,我们们可以有理解的人类。<del>我</del>们们的一种,这个人的一种,我们们的一种,我们们们们们们们的一种。

em a jez jednikam esperažema en jednikam marijenje na jem kom jednikam in a jednikam jednikam jednikam jednika Prominara jednikam pomovnikam pojekam pojekam na pojeka, jednikam in a jednikam jednikam jednikam jednikam jed

rango de la la comencia de la la la compansión de la comp

John 1968 register, stiller state for opposite to be reserved to a combine of the combine of the

inger kann ni forganism af skilder løjerøp midne folker fil herbilde den kalled så de et side blere de

受伤,最高性性,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,1000年,

Esta passis est lais prominios per al tribusta de esta per esta en el como de la como en el como en el como en

· 1985 · 中国的大学的 1985 · 1985 · 1985 · 1985 · 1986 ·

ngt. Other Brighting beer risk beste risk bestern forbilde en en en en bereit beste still de biske en en

of the contraction of the contra

jāk siķt kaing kirmai jus sijastie arskiru ā tet āt 174 janus sijuliejus ta 1766 sijas nur ir kulis.

gradica propinsi da serian de completa de como propinsi de la completa de la completa de la completa de la com Completa de completa de la completa de como por la completa de la completa de la completa de la completa de la

spout; a link pivoted to said arm and arranged with its lower end directed inwardly and pivotally connected to said spout in front of said supporting and guiding means 5 for the inner end thereof whereby said spout is positively guided in its movement and its outer end can sed to swing in a substantially vertical plane, for the purpose specified.

In witness whereof, I have hereunto set my hand and seal in the presence of two wit- 10 nesses.

FREDRICK N. WHITESELL. [L. s.]

Witnesses:

M. J. Huss, R. B. Linsley.