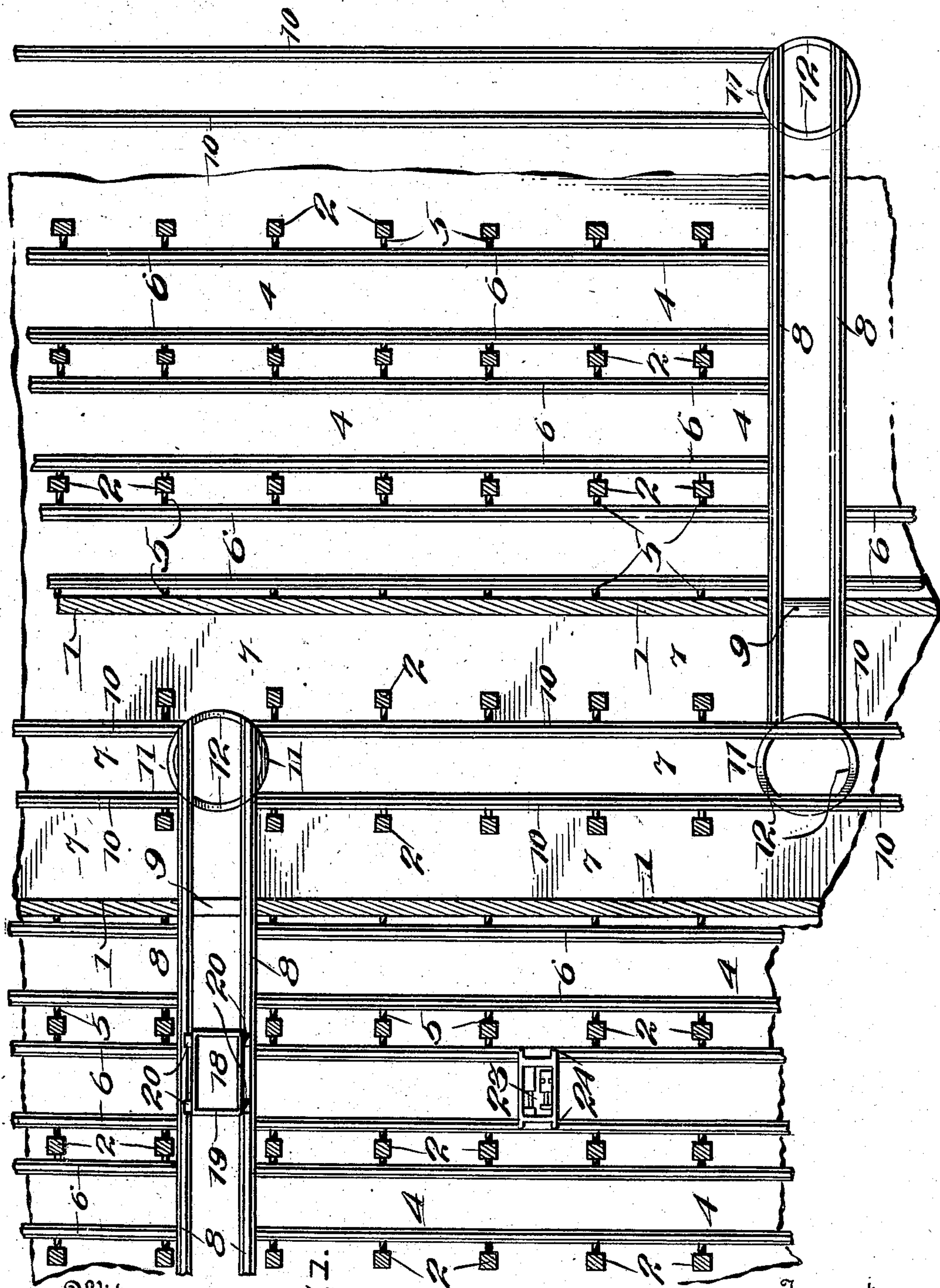


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PATENTED MAR. 10, 1908.

G. P. BALDWIN.
TRANSFER TRACK SYSTEM.
APPLICATION FILED JULY 16, 1907.

5 SHEETS—SHEET 1.



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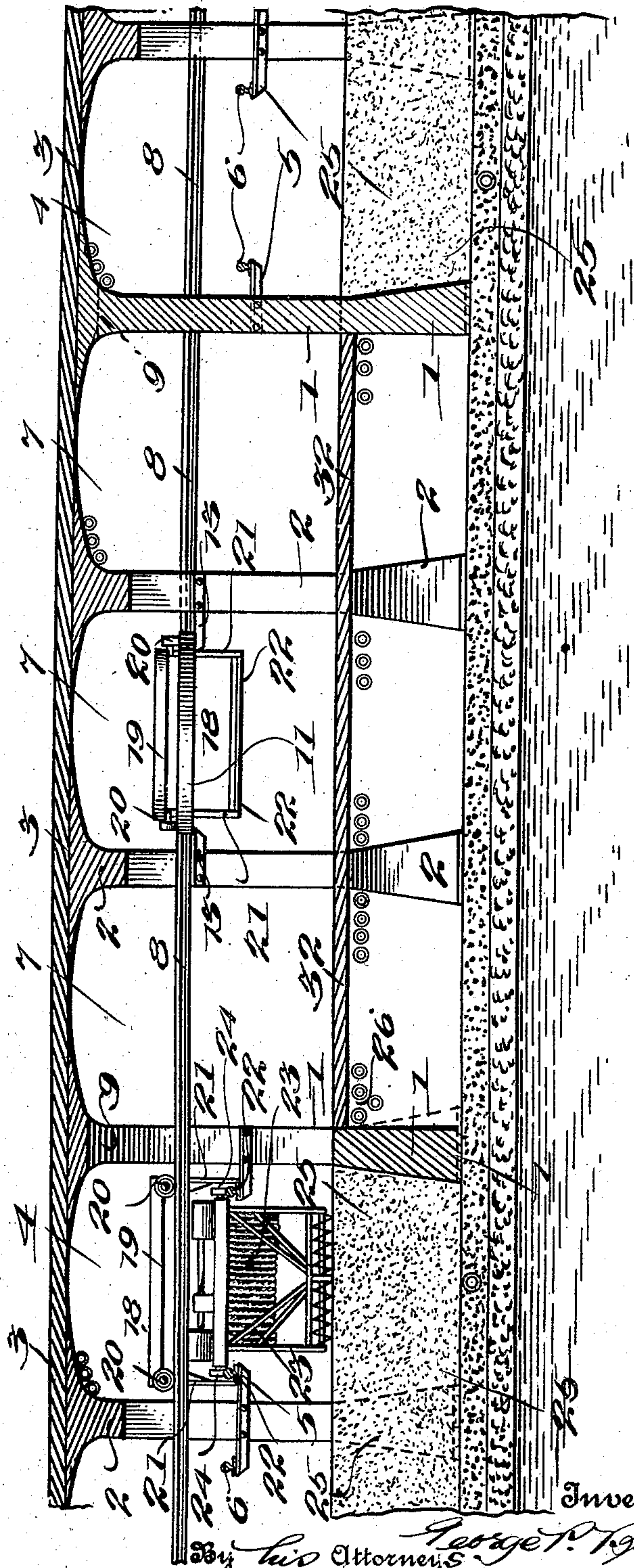
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5 SHEETS—SHEET 2.

Fig. 2.



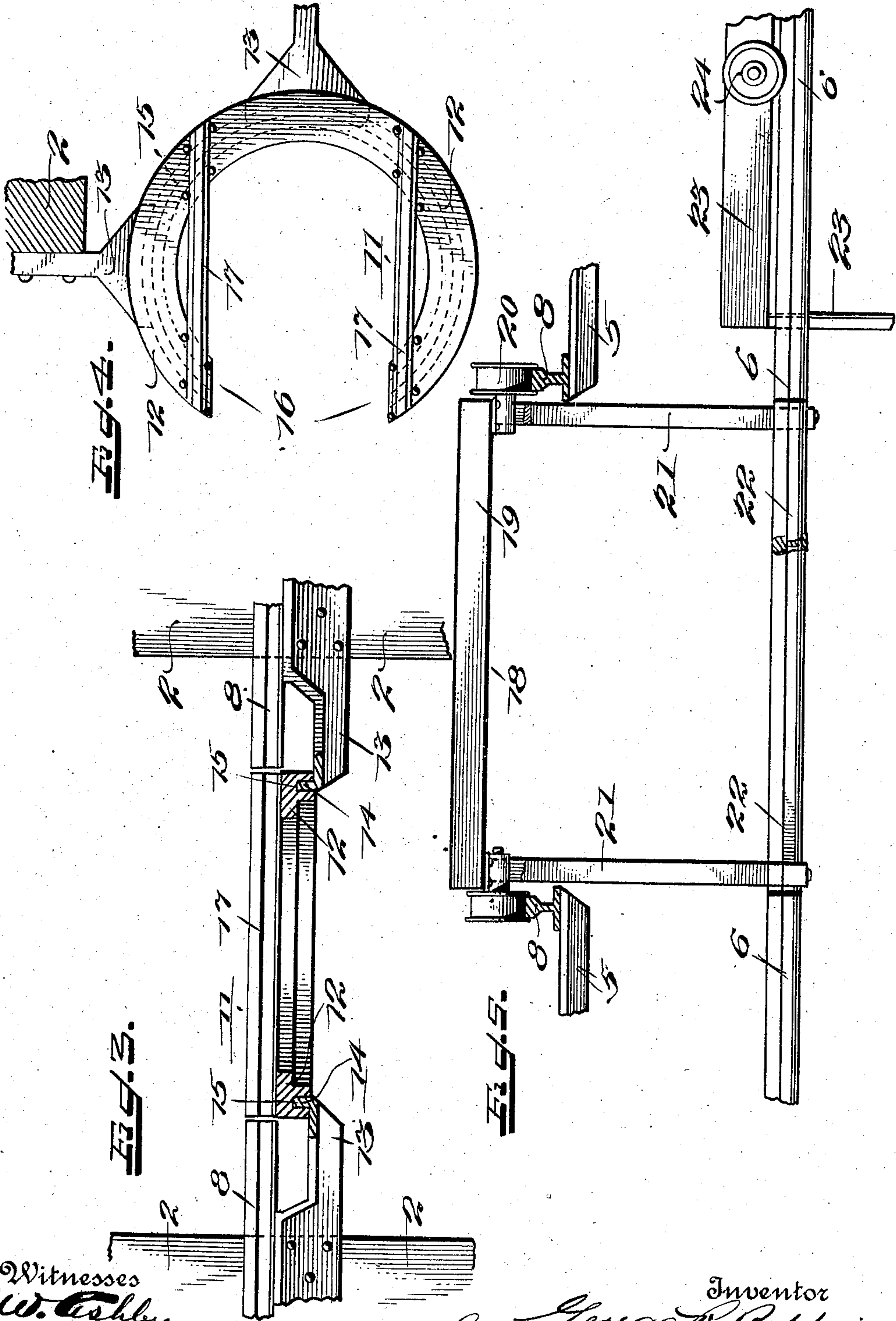
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No. 881,454.

G. P. BALDWIN. PATENTED MAR. 10, 1908.
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5 SHEETS—SHEET 3.



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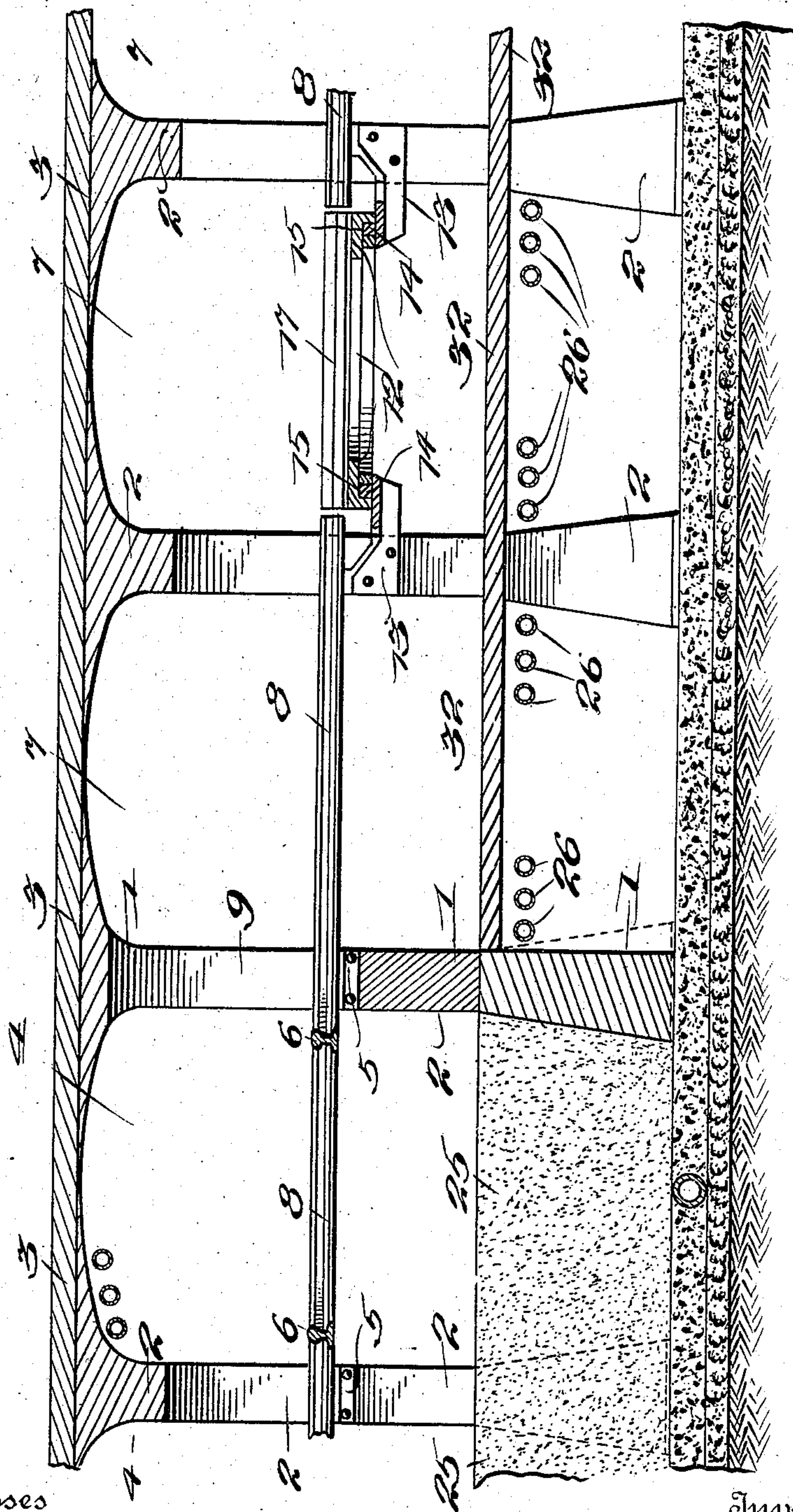
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5 SHEETS—SHEET 4.

Fig. 6.



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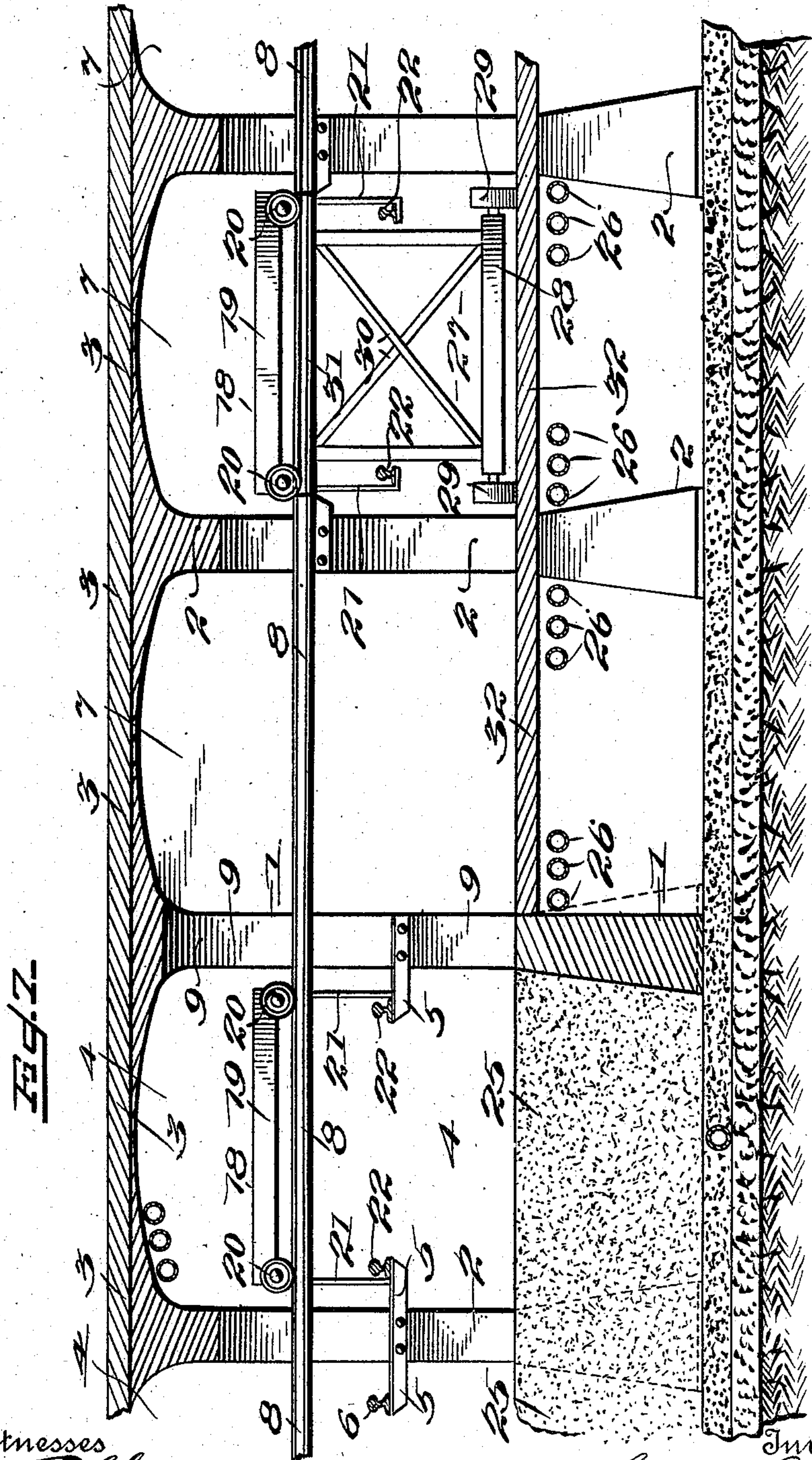
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TRANSFER TRACK SYSTEM.

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5 SHEETS—SHEET 5.



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UNITED STATES PATENT OFFICE.

GEORGE P. BALDWIN, OF LOS ANGELES, CALIFORNIA.

TRANSFER-TRACK SYSTEM.

No. 881,454.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed July 16, 1907. Serial No. 384,066.

To all whom it may concern:

Be it known that I, GEORGE P. BALDWIN, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Transfer-Track Systems, of which the following is a specification.

This invention relates to a transfer track system particularly adapted for use in covered filtration plants and has as its object the providing of means for the transporting or transferring of machinery, used to operate upon or cleanse the filter beds of covered filtration plants, from one series of filter beds to another without the necessity of lifting or lowering the machines from the tracks they run on and the subsequent raising of said machines into position to engage other tracks in other filter beds. Such machines are large and heavy and the ready handling and transferring of the same is most desirable.

In the following I have described in connection with the accompanying drawings one embodiment of my invention, with modifications, the features thereof being more particularly pointed out hereinafter in the claims.

In the drawings Figure 1 is a plan view of a covered filtration plant illustrating the application of one form of my invention, the filter cover being removed and parts being broken away. Fig. 2 is an enlarged cross-sectional view of the structure shown in Fig. 1, parts being broken away. Fig. 3 is a cross-sectional view of a transfer table. Fig. 4 is a plan view of the structure shown in Fig. 3. Fig. 5 is a front elevation of a transfer truck. Fig. 6 is an enlarged cross-sectional view of a modified form of the system, and Fig. 7 is an enlarged cross-sectional view of the transfer means illustrating the use of an auxiliary transfer truck.

Similar numerals of reference indicate similar parts throughout the several views.

1, 1, indicate the side walls of two adjacent filter beds, supporting in conjunction with piers 2 the filter cover 3. The spaces between the piers within the filter form bays as at 4 and suitably supported within each bay, as by means of projecting angle bars 5 fastened to or embedded in the piers, are tracks comprising rails 6, 6. A passageway or space is left between the adjacent filter beds and as illustrated may comprise bays 7, 7, 7. A transfer track comprising rails 8, 8, suitably sup-

ported as in the manner described is arranged within the filter on a plane parallel to but preferably a little above the plane of the rails 6, 6, and preferably at right angles thereto, the rails 6, 6, being broken beneath the rails 8, 8, for the purpose hereinafter set forth.

9, 9, indicate sluice gates in the side walls 1 of the filter giving access to the interior of the filters and through which rails 8, 8, of the transfer tracks extend.

An auxiliary track comprising rails 10, 10, suitably supported as described, is arranged in one of the bays 7, preferably at right angles to and on the same level as transfer tracks or rails 8, 8. At the points of intersection of the auxiliary tracks 10, 10, and the transfer tracks 8, 8, are transfer tables 11 comprising a platform 12 suitably supported as by means of projecting plates 13 fast to piers 2, and carrying tongues 14 adapted to enter grooves 15 in the bottom of the platform. The transfer tables are cut away as at 16 for the purpose hereinafter set forth. Rail sections 17, 17, are suitably supported on transfer tables 11 and are adapted to register in turn with the transfer tracks or rails 8, 8, and auxiliary tracks or rails 10, 10.

18 indicates a transfer truck comprising a platform 19 having suitably mounted thereon wheels 20, 20, adapted to ride on transfer tracks or rails 8, 8, and auxiliary tracks or rails 10, 10.

A hanger frame 21 is supported by and depends from transfer truck 18 and carries rail sections 22, 22, adapted to register with and complete the tracks or rails 6, 6, beneath the transfer tracks or rails 8, 8.

23 indicates a machine adapted to work on the surface of the filter, such as a scraping, cleansing or sand restoring machine, provided with wheels 24, 24, adapted to ride on tracks or rails 6, 6.

25 indicates the filter bed of sand, gravel, or other suitable substance, on which the machine is designed to operate, and 26 water pipes and other connections for various purposes.

Fig. 6 of the drawings illustrates a system wherein the filter bay tracks 6, 6, transfer tracks 8, 8, and transfer table 11, are on one and the same plane the object of the system being to provide a means whereby the machines operating in the respective filter bays may be transferred without the use of a transfer truck.

Referring to Fig. 7 of the drawings filter

bay tracks 6, 6, and transfer tracks 8, 8, are located in the respective filter bays 4 and passageways 7, 7, 7, as described in connection with Figs. 1 and 2, the structural difference being the doing away with transfer table 11 and auxiliary tracks 10, 10, and utilizing in their places an auxiliary transfer truck 27 comprising a platform 28 having mounted thereon wheels 29, 29, said platform 28 being adapted to have mounted thereon a frame 30 carrying receiving track sections 31, 31, adapted to receive either the transfer truck 18 or its machine 23 as may be desired.

The operation of the means disclosed is as follows: The machine 23 having completed its work on one filter bed is run along rails 8, 8, onto rail sections 22, 22, supported from transfer truck 18. The sluice gate 9 is then opened and transfer truck is run along rails 8, 8, onto rail sections 17, 17, on transfer table 11, the depending machine 23 and its immediate supports entering the cut-away portion 16 of the transfer table. The transfer table is then turned so that rail sections 17, 17, register with auxiliary track or rails 10, 10. Transfer truck 18 is then run along said rails 10, 10, to the second transferring table whence by the same means, in the manner described, it is run into the second filter bay where the scraping or cleansing operation may be continued.

The operation of the modifications described and shown in Figs. 6 and 7 is obvious without further explanation. It is also obvious that by the system disclosed the machine for operating on the filter bed may be readily and easily run from one filter bay to another without the necessity of raising or lowering the same as has hitherto been the case.

The arrangements of tracks and parts and the details of construction may be considerably varied without departing from the spirit of the invention and I do not restrict myself to the details shown.

What I claim and desire to secure by Letters Patent is:—

1. A transfer track system for covered filters comprising a series of parallel tracks supported beneath the cover, a transfer track running at an angle to and on a plane parallel to but above said parallel tracks, a transfer table in the path of said transfer track and an auxiliary track, said transfer table being adapted to register in turn with said transfer and auxiliary tracks.

2. A transfer track system for covered filters comprising a series of parallel incomplete tracks supported beneath the cover, a transfer track running at an angle to and on a plane parallel to but above said parallel tracks, a transfer truck adapted to run on said transfer track, rail sections carried by said transfer truck to complete said incomplete par-

allel tracks, a transfer table in the path of said transfer track and an auxiliary track, said transfer table being adapted to register in turn with said transfer and auxiliary tracks.

3. A transfer track system for covered filters comprising a series of parallel tracks supported beneath the cover, a transfer track running at an angle to and on a plane parallel to but above said parallel tracks, a cut-away transfer table in the path of said transfer track and an auxiliary track, the cut-away portion of said transfer table being adapted to register in turn with said transfer and said auxiliary tracks.

4. A transfer track system for covered filters comprising a series of parallel tracks supported beneath the cover, a transfer track running at right angles to and on a plane parallel to but above said parallel tracks, a transfer table in the path of said transfer track, an auxiliary track running at right angles to said transfer track and a track section on said transfer table adapted to register in turn with said transfer and auxiliary tracks.

5. A transfer track system for covered filters comprising a series of parallel incomplete tracks supported beneath the cover, a transfer track running at right angles to and on a plane parallel to but above said parallel tracks, a transfer truck adapted to run on said transfer track, rail sections carried by said transfer truck to complete said incomplete parallel tracks, a transfer table in the path of said transfer tracks, an auxiliary track at right angles to said transfer track and track sections on said transfer table adapted to register in turn with said transfer and auxiliary tracks.

6. A transfer track system for covered filters comprising a series of parallel incomplete tracks supported beneath the cover, a transfer track running at right angles to and on a plane parallel to but above said parallel tracks, a transfer truck adapted to run on said transfer track, rail sections carried by said transfer truck to complete said incomplete parallel tracks, an auxiliary track running at right angles to said transfer track and means for transferring said truck from the transfer track to the auxiliary track.

7. A transfer track system for covered filters comprising a series of parallel tracks supported beneath the cover, a transfer track running at an angle to and on a plane parallel to the plane of said parallel tracks, a transfer table in the path of said transfer track and an auxiliary track, said transfer table being adapted to register in turn with said transfer and auxiliary tracks.

8. A transfer track system for covered filters comprising a series of parallel incomplete tracks supported beneath the cover, a transfer track running at an angle to and on a plane parallel to but above said parallel

tracks, a transfer truck adapted to run on
said transfer track, rail sections carried by
said transfer truck to complete said incom-
plete parallel tracks and an auxiliary transfer
5 truck adapted to receive said first named
transfer truck.

9. A transfer track system for covering fil-
ters comprising a series of parallel incom-
plete tracks supported beneath the cover, a
10 transfer track running at an angle to and on
a plane parallel to but above said parallel
tracks, a transfer truck adapted to run on
said transfer tracks, rail sections carried by

said transfer truck to complete said incom-
plete parallel tracks, an auxiliary transfer 15
truck and tracks carried by said auxiliary
transfer truck to receive the first named
transfer truck.

In testimony whereof I have hereunto
signed my name in the presence of two sub- 20
scribing witnesses.

GEORGE P. BALDWIN.

Witnesses:

ROBERT W. ASHLEY,
H. G. LE ARD.