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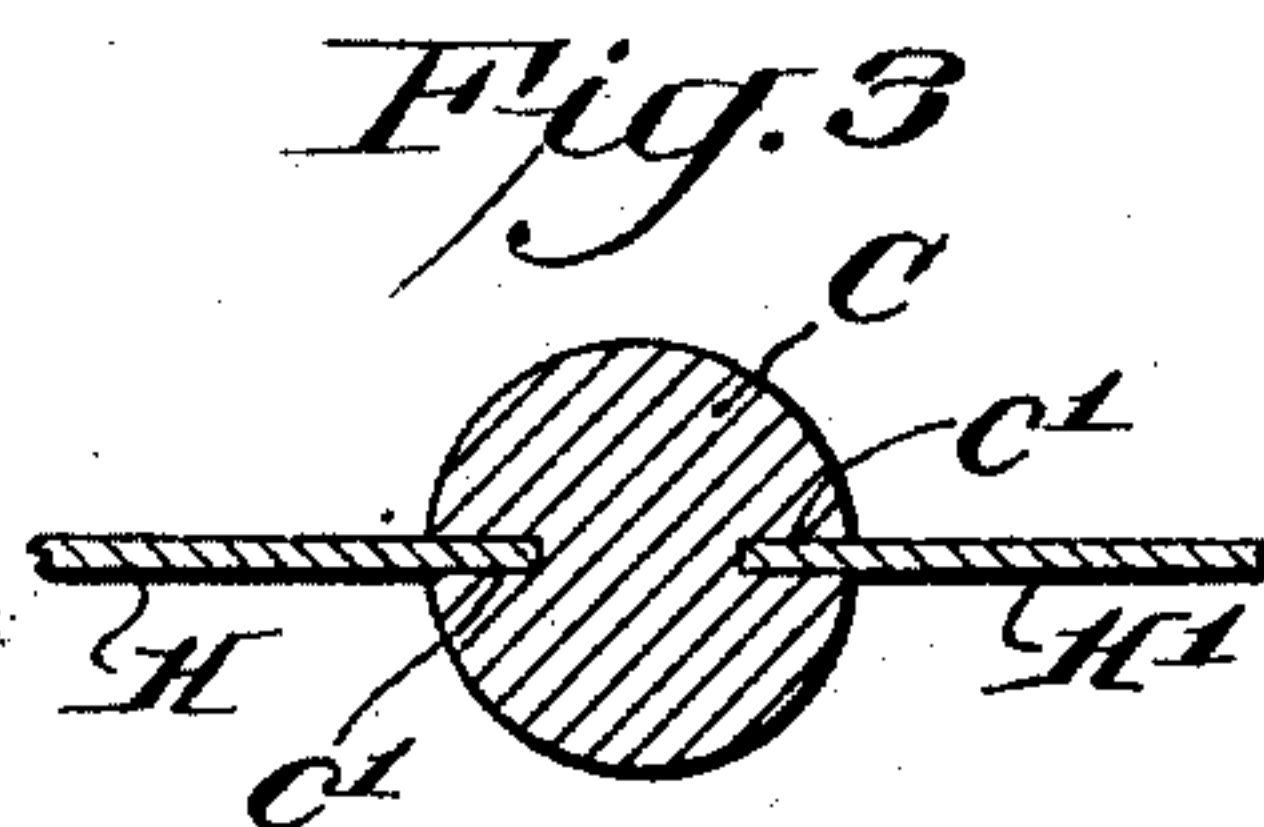
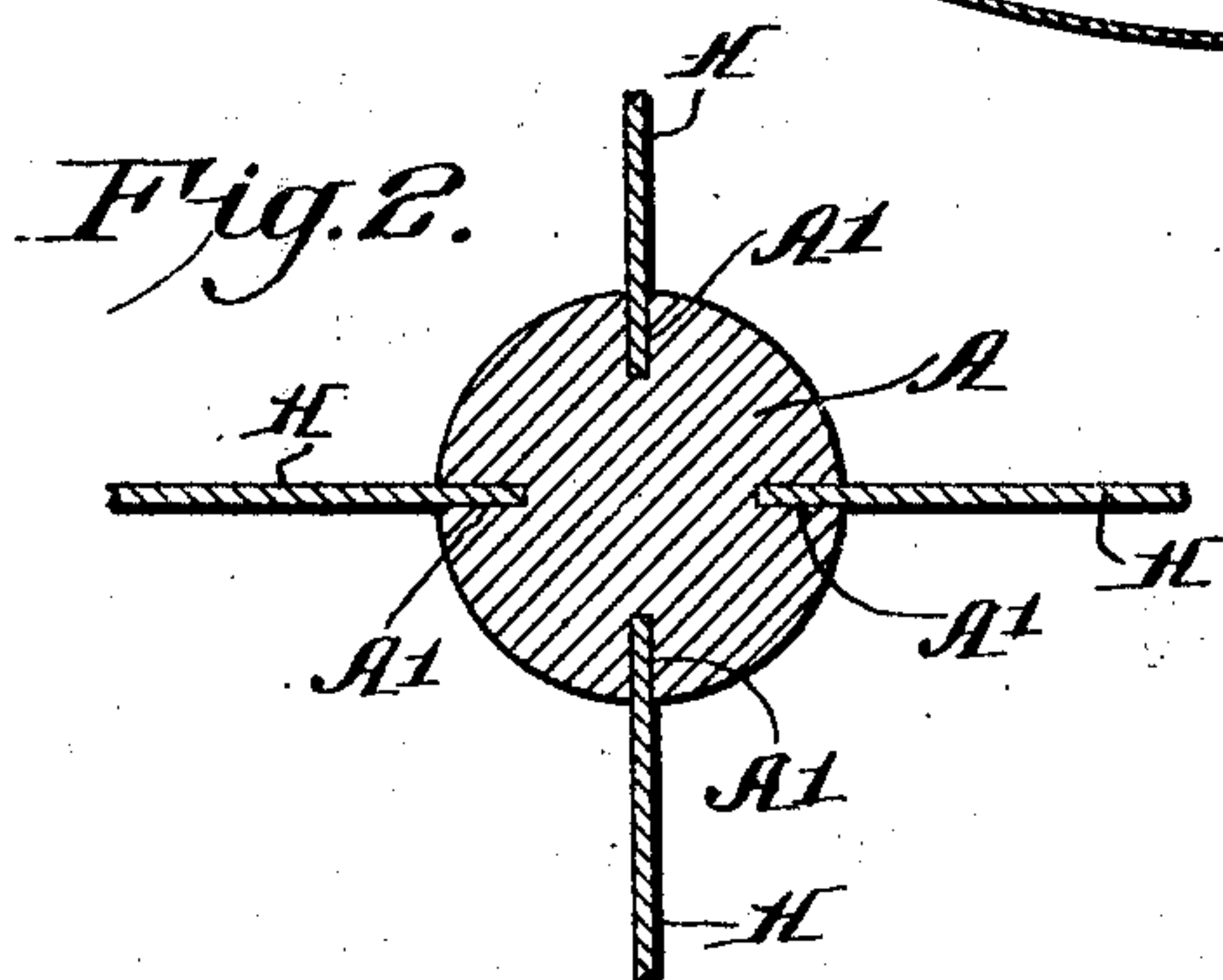
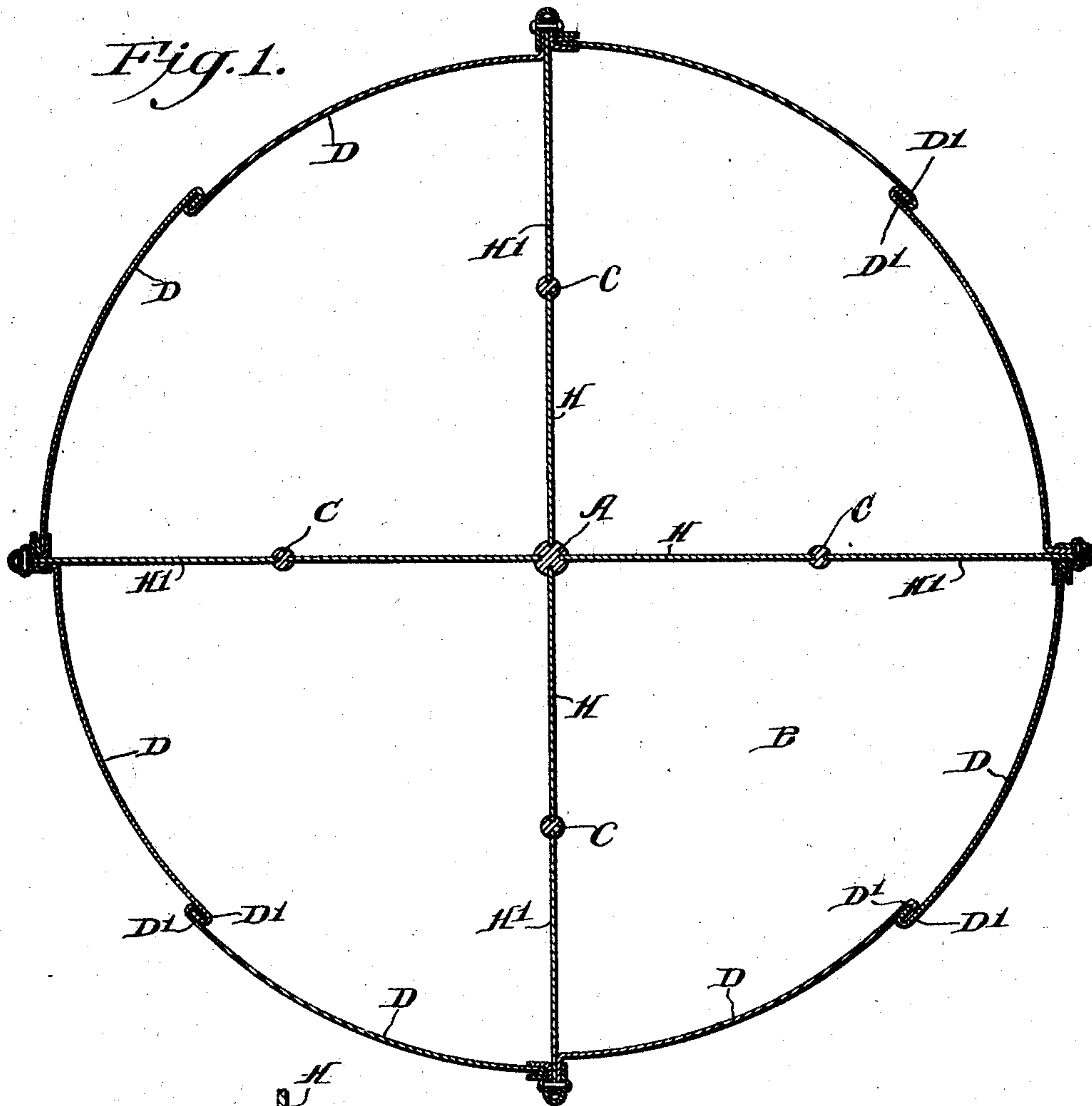
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1,777,774

WASHING MACHINE CYLINDER

Filed May 1, 1929

2 Sheets-Sheet 1



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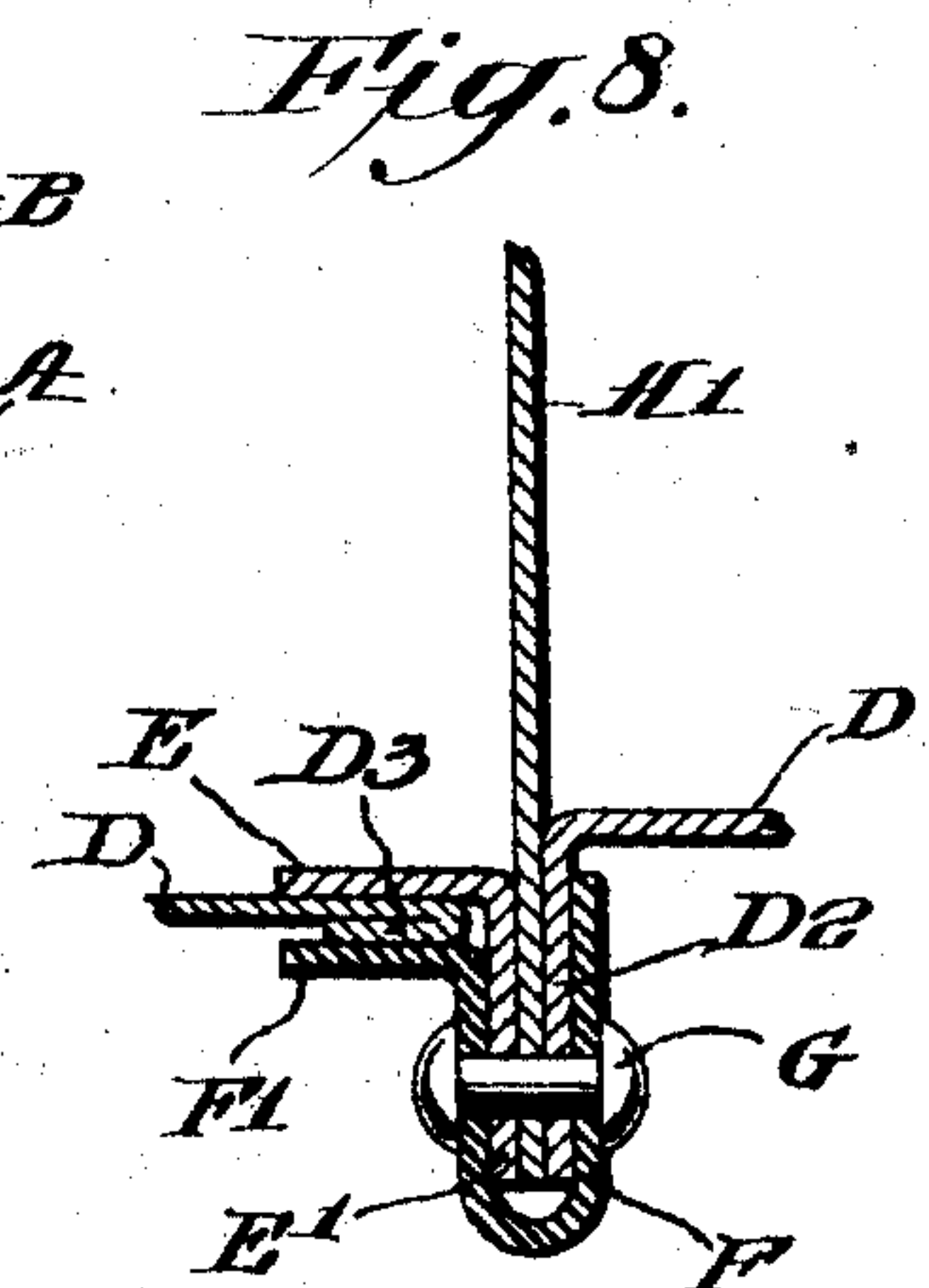
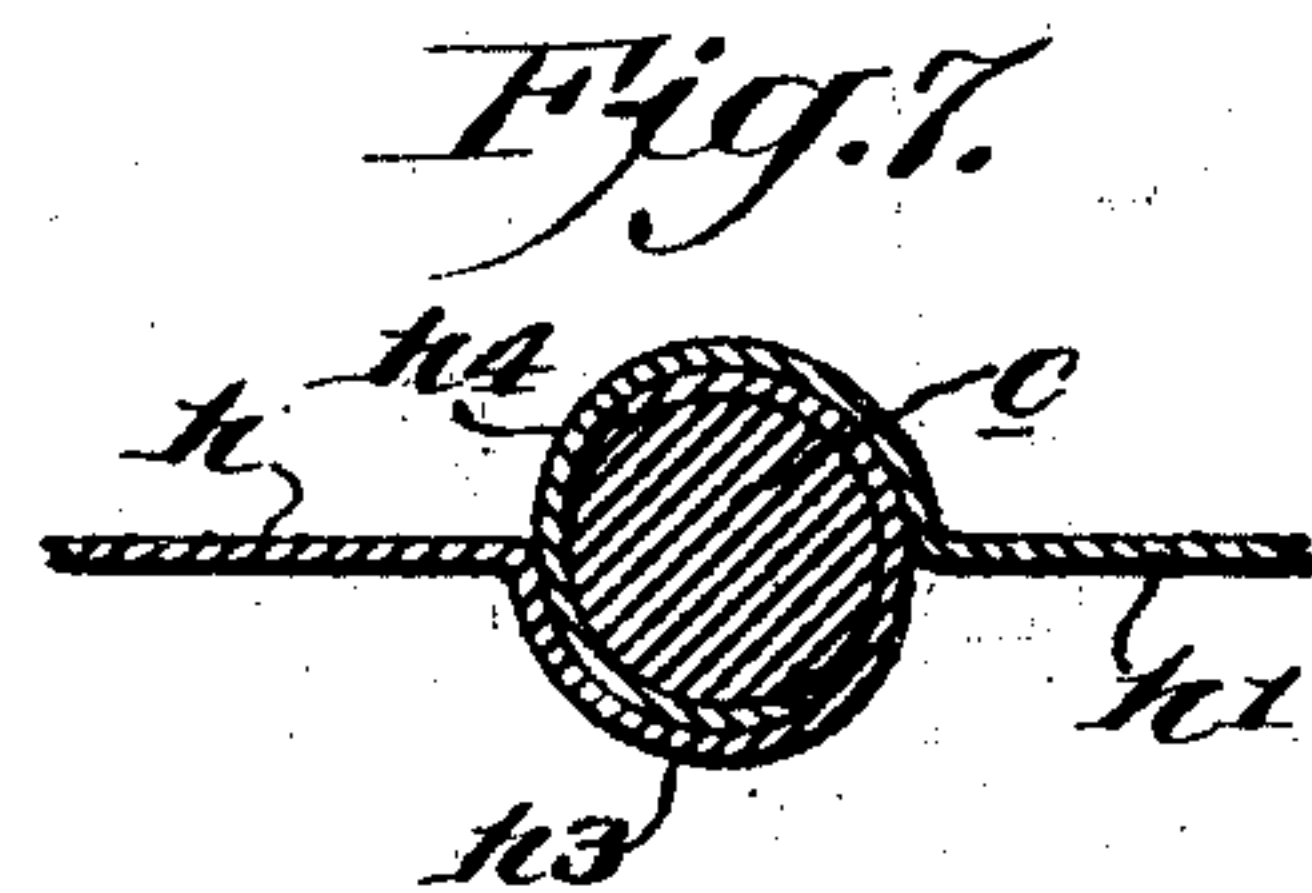
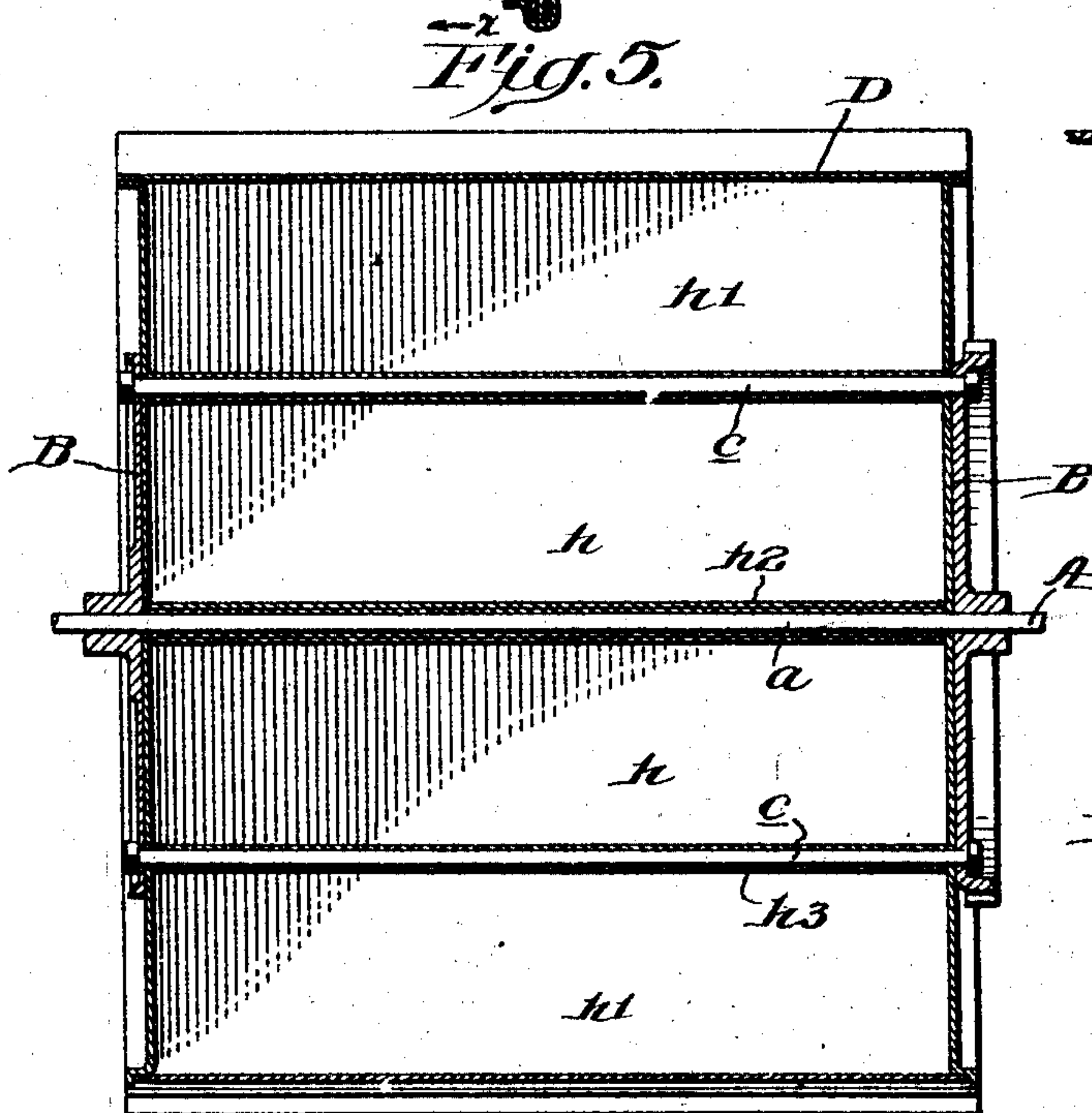
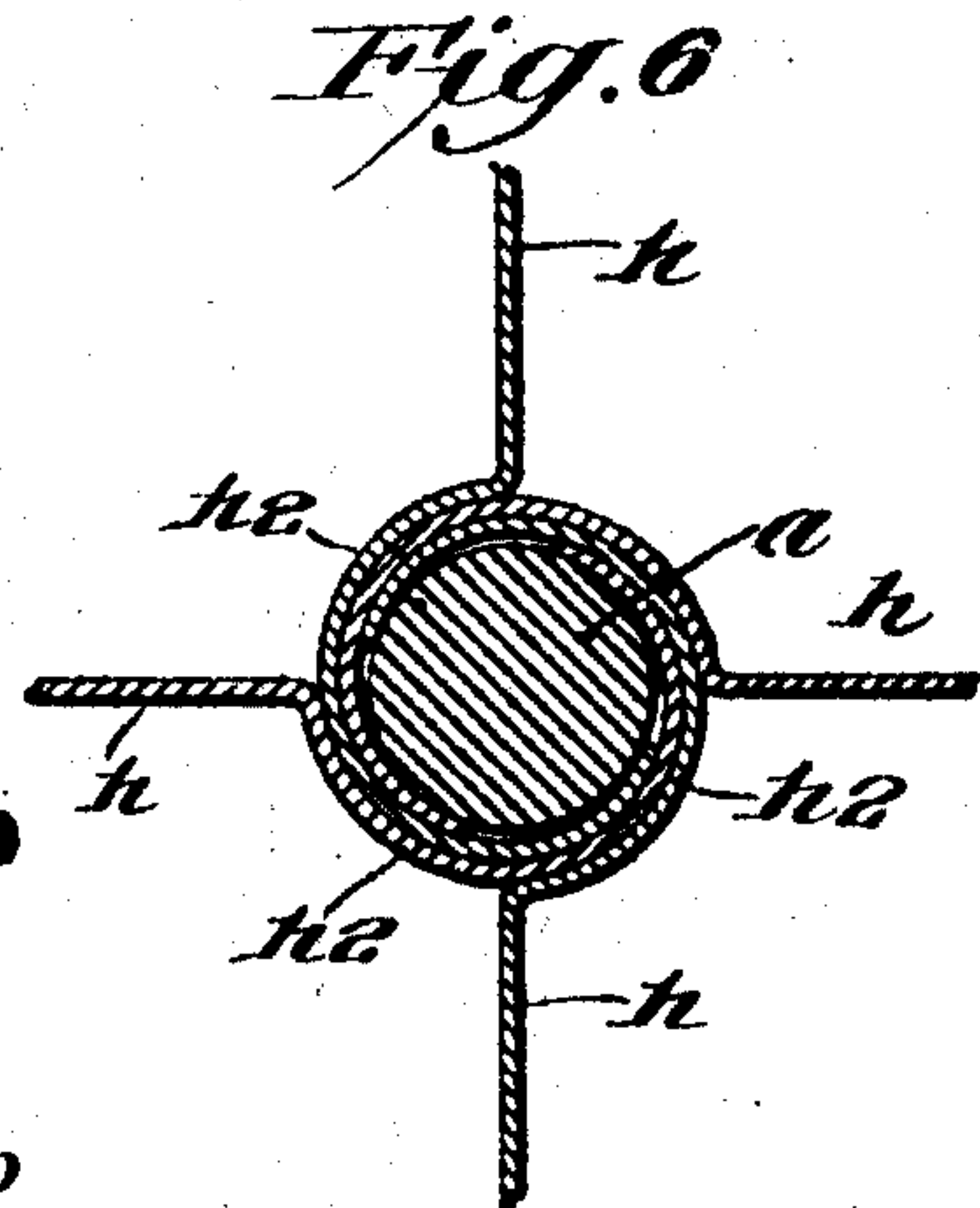
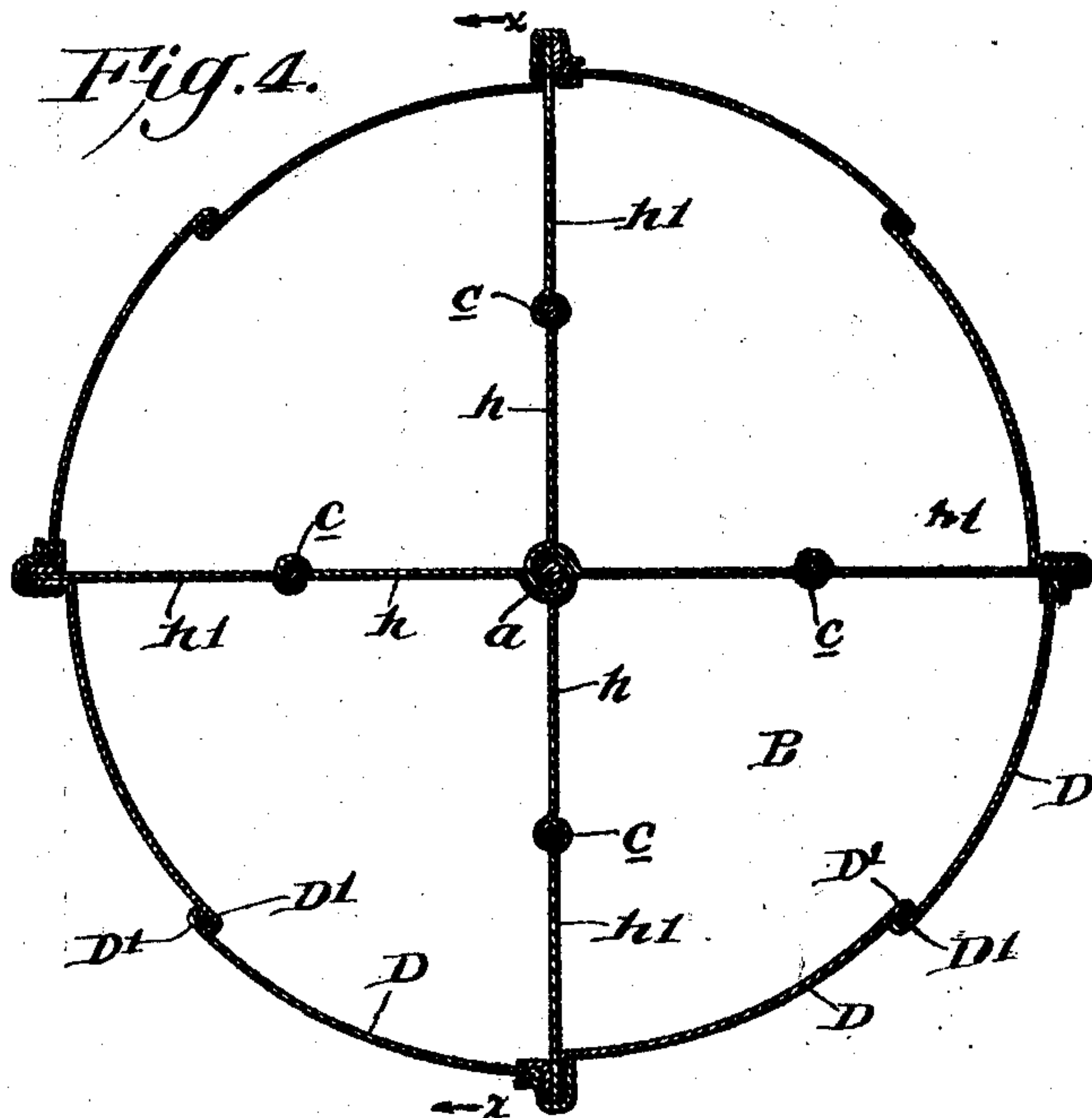
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1,777,774

WASHING MACHINE CYLINDER

Filed May 1, 1929

2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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WASHING-MACHINE CYLINDER

Application filed May 1, 1929. Serial No. 359,456.

My invention relates to the construction of cylinders such as are used in washing and dyeing machines and has for its object to provide a simple, strong and economical construction for such cylinders.

Cylinders, such as I have in view, are constructed with end plates and a shell generally made up of sheet metal plates and are provided with radial partitions dividing the cylinder into compartments. By my construction I provide a centrally located longitudinal shaft or rod and a series of parallel tie rods connecting the end plates and located between the central shaft and the shell, preferably midway, and I form the partitions of the two series of plates, one connected at their inner ends to the central shaft and at their outer ends to the tie rods and the other set of plates connected at their inner ends with the tie rods and at their outer ends to the shells of the cylinder. This, broadly speaking, is the leading feature of my invention and by preference I provide the centrally located shaft with a series of radial slots and the tie rods with diametrically oppositely located slots and secure the inner set of partition plates in the slots of the shaft and tie rods and the outer set of partition plates I secure in the oppositely located slots of the tie rods at their inner ends and to the shell at their outer ends.

Reference being now had to the drawings which illustrate constructions involving my invention

Figure 1 is a cross sectional elevation of a cylinder constructed in accordance with the preferred form of my invention.

Figure 2 is an enlarged sectional view of the central shaft and the ends of the partition plates secured thereto.

Figure 3 is an enlarged sectional view of one of the tie rods and of the partition plates secured thereto.

Figure 4 is a sectional elevation of a modified form of my construction.

Figure 5 is a longitudinal sectional view of the construction shown in Fig. 4.

Figure 6 an enlarged sectional view of the central shaft and of the inner ends of the partition plates secured thereto.

Figure 7 is an enlarged sectional view of one of the tie rods showing the mold in which the partition plates are secured thereto and

Figure 8 is an enlarged sectional view showing the preferred mode of attachment of the outer partition plates to the shell.

A, Figs. 1, 2 and 3, is a centrally located shaft or rod extending between the end plates of the washing machine cylinder and formed, as shown, with four radial slots, indicated at A^1, A^1 , etc. B indicates the end plate of the cylinder; C, C, etc. a series of tie rods securing the end plates together at points approximately midway between the central shaft and the shell of the cylinder and formed with diametrically opposite slots, as indicated at C^1, C^1 .

D, D, etc. are a series of curved metal plates, making up the shell of the cylinder, these plates, as shown, being provided with hook-like joints D^1, D^1 by which they are secured together in pairs. The other ends of the plates, as is best shown in Fig. 8, are formed one with an outwardly turned flange D^2 and the other with a folded over straight flange, indicated at D^3 . These ends are secured together and to the ends of the partition plates H^1 by means of an angle plate E, E^1 , and a U-shaped clip F, having a flange F^1 , between which and the portion E of the angle plate the end D^3 of one of the plates is secured. Bolts G secure the structure together. This joint is shown as a good one for the purpose indicated, and not as forming a part of my present invention, which permits of any desirable mode of attachment of the plates together and to the partition plates.

In the construction shown in Figs. 4, 5, 6 and 7, a indicates an unslotted centrally located shaft connecting the end plates B, B and c, c , etc., a series of unslotted tie rods also connecting the end plates and located approximately midway between the shaft and the shell of the cylinder. In this construction the inner ends of the inner set of partition plates indicated at h are bent into eyes, as best shown at h^2 . Fig. 6, these eyes extending around the shaft a and interengaging with each other, as shown in Fig. 6, the outer ends of the inner series of partition plates h and

the inner ends of the outer series of partition plates *h* are also bent into eyes, as best shown in Fig. 7, these eyes partly surrounding the tie rods *c* and partly around each other, as shown, the outer ends of the outer series of partition plates being secured to the shell, as indicated in Fig. 8.

It will be seen that in either of the two described constructions a simple, strong and inexpensive structure is provided for which permits comparatively light partition plates to be used and at the same time provides a strong partition capable of resisting all the strains to which such partitions are subjected.

Having now described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A washing machine cylinder having end plates and a cylindrical shell, the combination therewith of a central longitudinal shaft, a series of parallel tie rods connecting the end plates and located between the shaft and the shell, a series of partition plates attached at their inner sides to the central shaft and at their outer sides to one of the tie rods and a second series of partition plates attached at their inner sides to a tie rod and at their outer sides to the shell.

2. A washing machine cylinder having in combination a central radially slotted shaft, a series of stay rods located between said shaft and the shell of the cylinder in radial alignment with the slots of the shaft, said stay rods having diametrically oppositely located slots formed in them, a series of partition plates held in slots of the shaft and oppositely located slots in the stay rods and a second series of partition plates secured at one side in the outer slot of the stay rods and at their other sides to the shell of the cylinder.

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