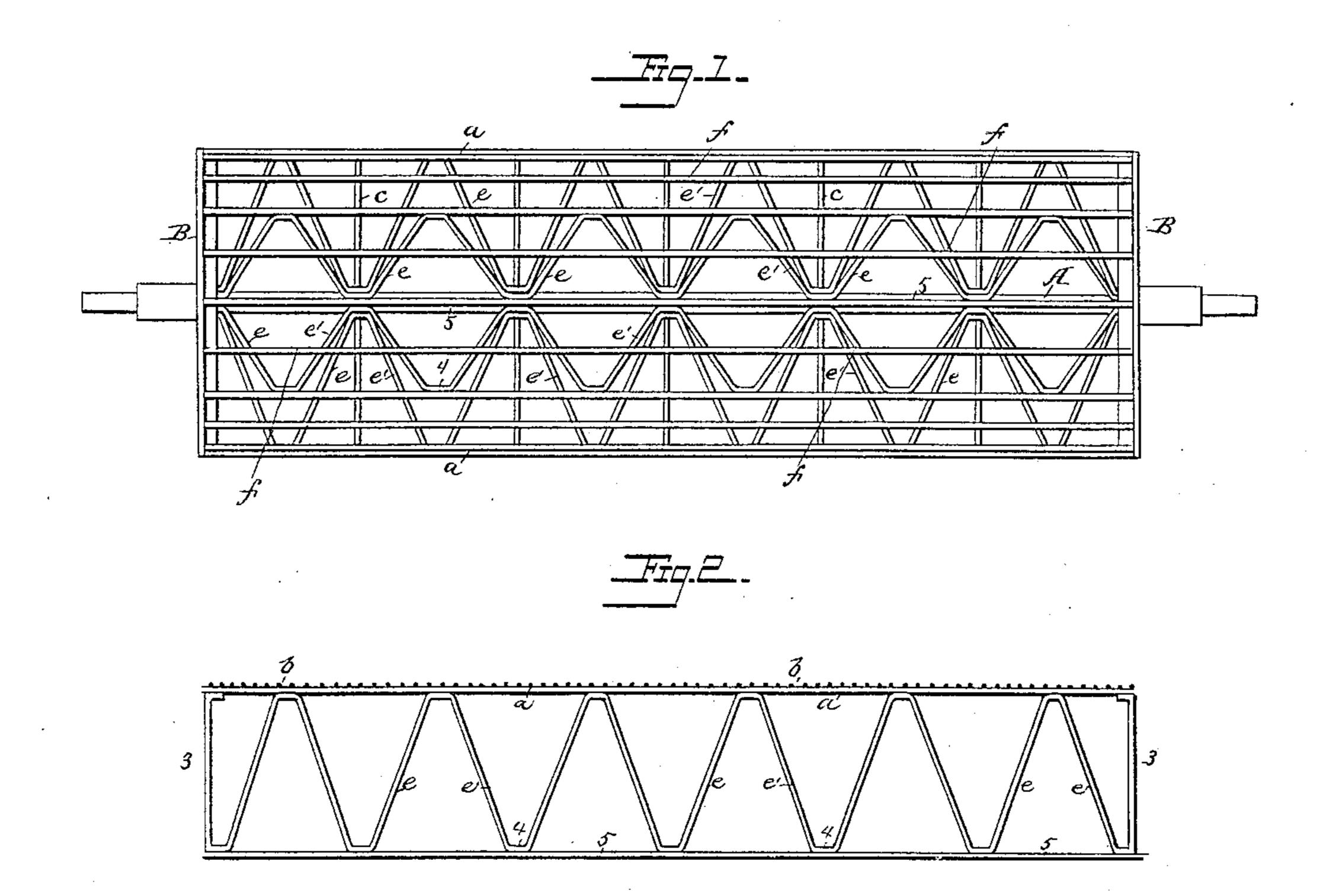
(No Model.)

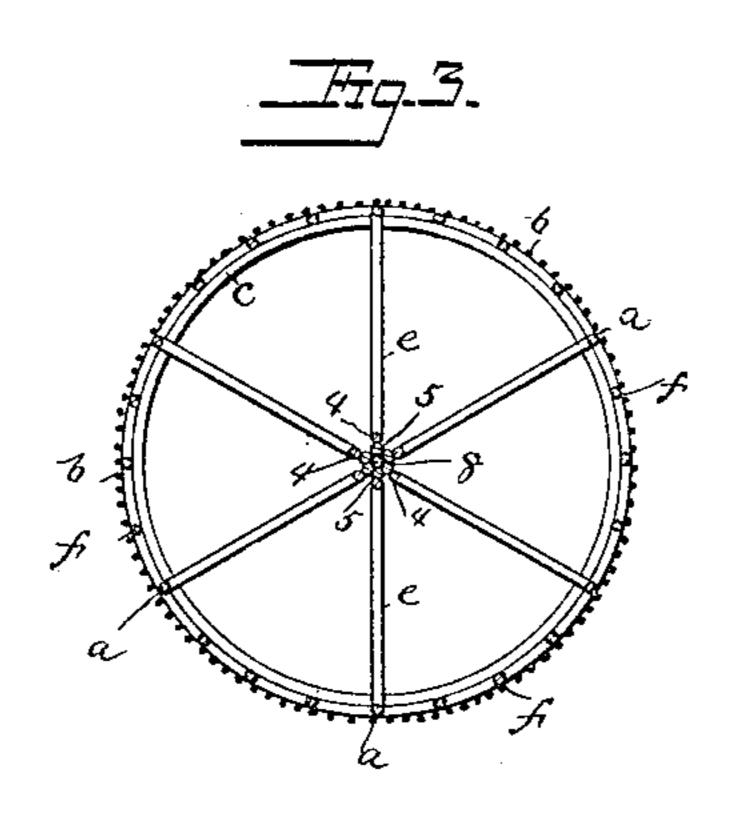
J. J. SELLERS.

DANDY ROLL.

No. 362,790.

Patented May 10, 1887.





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Joseph J. Sellers

_Inventor:

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United States Patent Office.

JOSEPH J. SELLERS, OF PHILADELPHIA, PENNSYLVANIA.

DANDY-ROLL.

SPECIFICATION forming part of Letters Patent No. 362,790, dated May 10, 1887.

Application filed July 30, 1886. Serial No. 209,569. (No model.)

To all whom it may concern:

Be it known that I, Joseph J. Sellers, a citizen of the United States, and a resident of Philadelphia, Philadelphia county, Pennsyl-5 vania, have invented certain new and useful Improvements in Dandy-Rolls, of which the following is a specification.

My invention relates to dandy-rolls; and it consists of a roll the frame of which is built to up from a central continuous rod or shaft, heads, connecting-rods, and diagonal braces, as fully set forth hereinafter, so as to be strong, light, and rigid and free from a multiplicity of joints.

In the drawings, Figure 1 is a longitudinal external view of a dandy-roll frame embodying my improvements. Fig. 2 is a detached view of the central shaft or rod, an outer rod, and connecting-braces. Fig. 3 is a transverse 20 section of the frame.

Dandy-rolls have heretofore been made withbodies being sustained by the latter alone, but imperfectly, and being liable to sag and bend 25 in use. Other rolls have been made without shafts, the bodies being supported and braced by diagonal braces; but such rolls have proved inefficient because of their liability to twist and their lack of strength. Other rolls have been 30 made with ring-shaped braces and with shafts; but these are heavy and their manufacture is expensive in consequence of the number of soldered joints, and the shaft does not support the heads, but supports the braces and outside 35 longitudinal wires, which are in turn soldered to and support the heads.

To avoid the defects specified I construct a roll, using a continuous central shaft, which, in connection with radial braces, strengthens 40 the structure and prevents the sinking, twisting, or change of form of the cylinder.

A is the shaft; BB, the heads, which support between them a series of longitudinal rods | or ribs, a, to which are soldered rings c, sup-45 porting-wires f, and upon the latter the wiregauze cylinder b is supported in the usual manner.

The structure is braced by means of diagonal braces ee', radiating from the shaft and ar-50 ranged in pairs converging toward the periphery of the cylinder. These braces may be | central continuous shaft, heads, longitudinal

soldered or otherwise secured to the shaft and to the rods a; but I prefer to form each line of braces from a single rod, as shown in Fig. 2, each end being bent up to form a radial 55 brace, 3, and the remaining portion being bent to form pairs of converging braces e e' and longitudinal connecting-sections 4. The sections 4 may be soldered to the shaft, or they may constitute, with a single light rod, 5, the 60 shaft itself, which thus consists of a series of parts forming a very light but stiff support for the frame or body of the roll.

In the actual construction of the roll, as shown, I proceed as follows: The two wires a 65 5 are arranged parallel to each other a proper distance apart, according to the size of the dandy-roll desired, and between the wires I solder a wire bent to form radial braces e e', as shown. I take a number of these thus formed 70 and solder the wire 5 to another wire, 8, and to each other in such a manner as to form the out shafts which supported the heads, the | central shaft, with the braces radiating from the center at equal distances apart.

> To the inside edges of the wires a, and be- 75 tween each pair of radial braces, I then solder rings c, to which I in turn solder the longitudinal wires f, forming additional supports for the wire-gauze cylinder. Thus the shaft A, in connection with the radial braces, the rings c, 80 and the longitudinal wires f, supports the heads B B, which are securely fixed thereto, thus forming a frame for the support of the wire-cloth. The frame thus constructed has but comparatively few joints, it is light in 85 weight, the braces prevent any sagging of the body, while the rods support the gauze-cylinder, and the shaft to which all the braces and the heads are connected effectually prevents the body from twisting.

Without limiting myself to the precise construction and arrangement of parts shown, I claim—

1. A dandy-roll frame consisting of a central rod or shaft, heads secured to the shaft, a 95 series of rods, each bent to form a series of pairs of diagonal braces, e e', and connected with the shaft, rings c, and longitudinal rods connected to the braces and to the rings and heads, substantially as described.

2. The combination, in a dandy-roll, of a

ribs extending between the heads, and radial diagonal braces connecting the shaft and rods,

substantially as described.

3. The combination of the central rod, 5, the series of rods, each bent to form a series of radial braces, e e', and longitudinal connecting-sections 4, the latter and the rod constituting a compound shaft, and heads and connecting-ribs, substantially as described.

4. The combination of the shaft, heads, ribs, and series of rods, each bent to form radial

braces 3 and radial and diagonal braces e e', and all secured to the shaft and ribs, substantially as described.

In testimony whereof I have signed my name 15 to this specification in the presence of two subscribing witnesses.

JOSEPH J. SELLERS.

Witnesses:
WM. H. CHILDS,
EDGAR ARMENT.