

(No Model.)

F. G. SARGENT.
FIBER WASHING MACHINE.

No. 561,180.

Patented June 2, 1896.

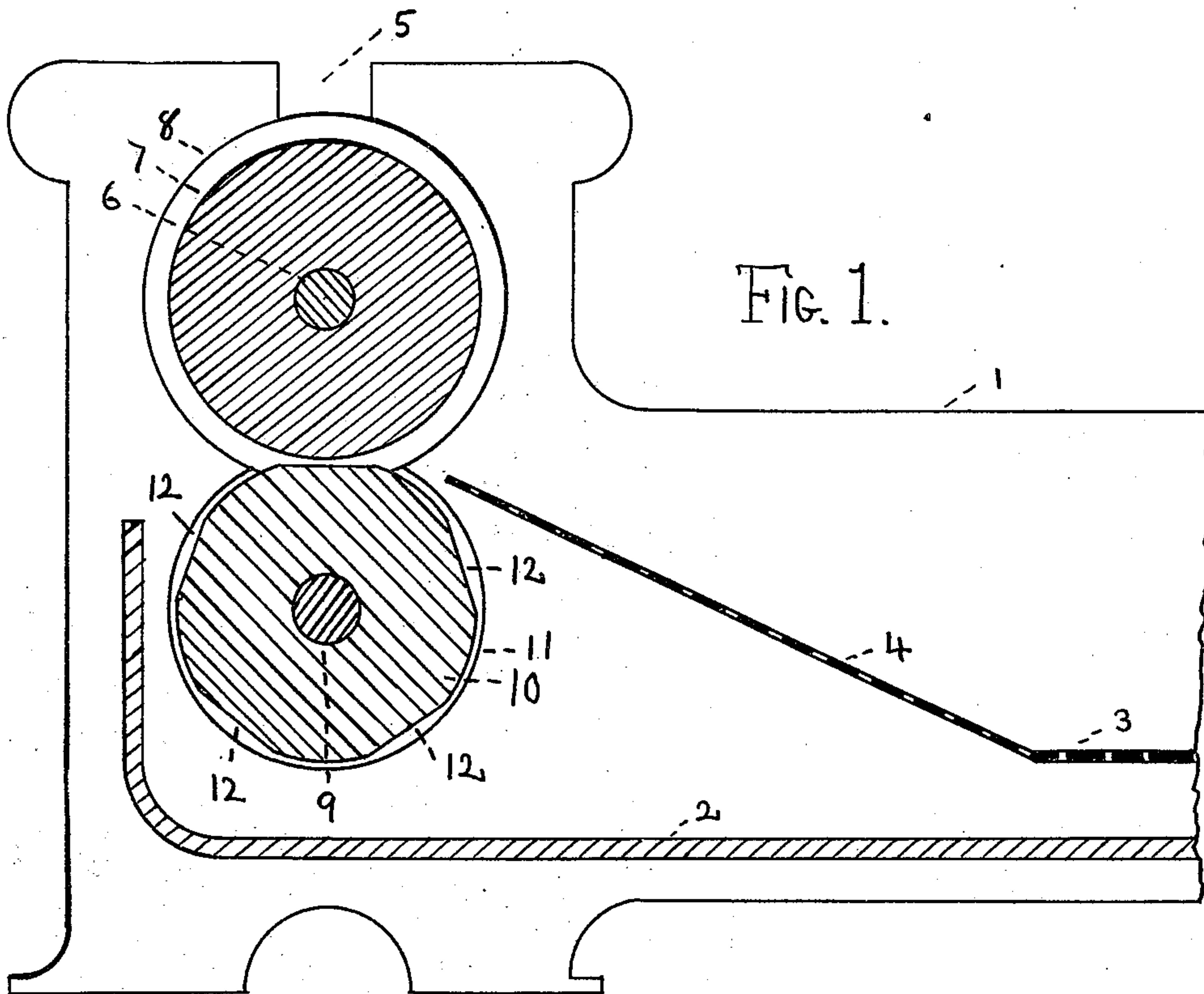


FIG. 1.

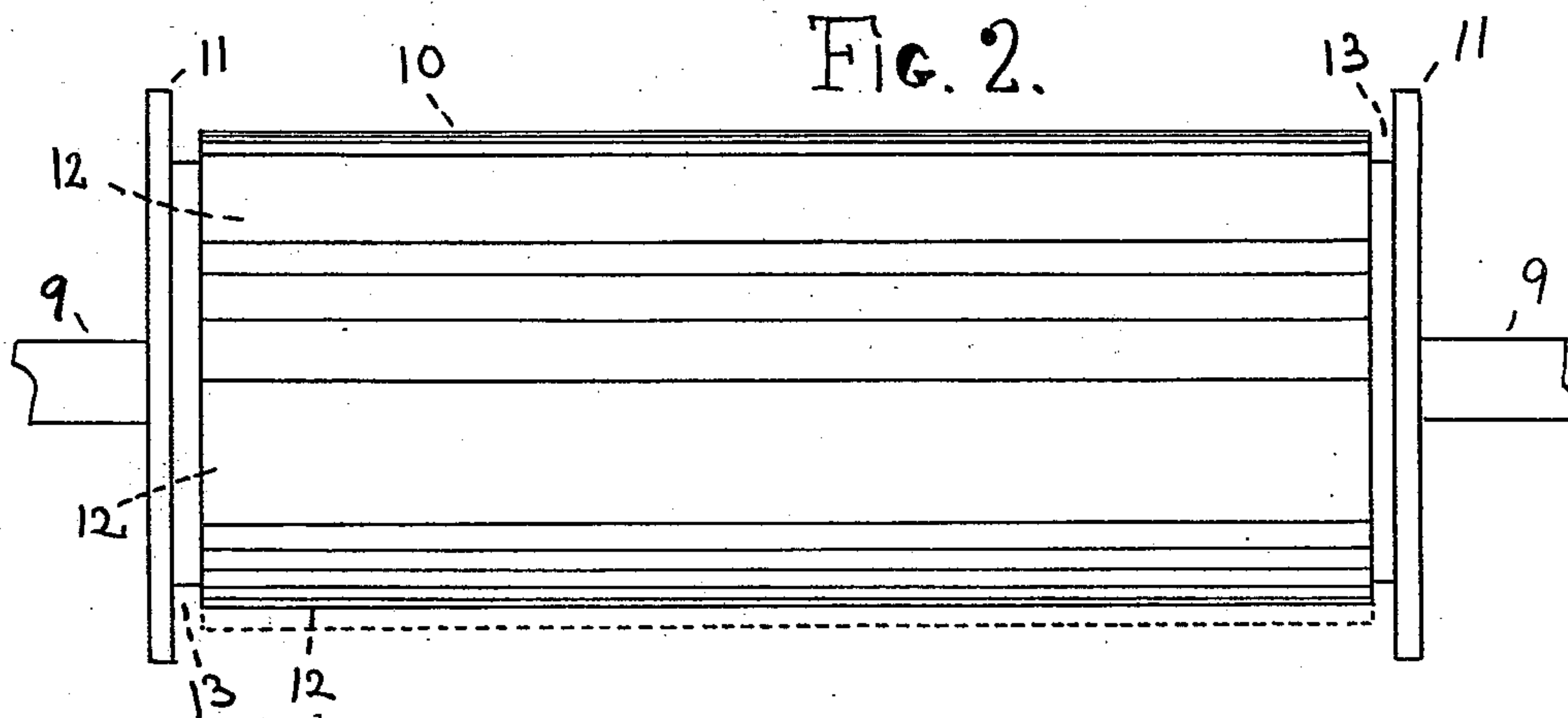


FIG. 2.

WITNESSES:

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FREDERICK G. SARGENT, OF GRANITEVILLE, MASSACHUSETTS.

FIBER-WASHING MACHINE.

SPECIFICATION forming part of Letters Patent No. 561,180, dated June 2, 1896.

Application filed October 22, 1895. Serial No. 566,454. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK G. SARGENT, of Graniteville, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Fiber-Washing Machines, of which the following, taken in connection with the accompanying drawings, is a specification.

In the drawings, Figure 1 is a middle vertical longitudinal section of the delivery end of a fiber-washing machine containing my improvement. Fig. 2 is an elevation of my improved roll.

My improvement relates to the form of the roll. Hence I have in my drawings omitted all the other working parts, as they may be any of the well-known mechanisms. The wringer-rolls are shown in their usual position at the delivery end of the machine.

1 is the sheet-metal side of the machine. 2 is the bottom of the bowl part, and 3 is the false bottom, having its forward end 4 inclined and leading up to the wringer-rolls. These are journaled in a slot 5 in each side of the machine, in which their shafts 6 9 may rise and fall. The upper roll 7 has a flange 8 at each end, which runs in a channel 13 in the lower roll 10, formed between the main part of the roll and a flange 11. All this is old. It is found, however, that when short and greasy fiber is being handled and has been

brought up the inclined bottom to the rolls they fail to take hold of it, and it merely accumulates, and finally, perhaps, goes through in a mass, thus both injuring the machine and delivering the fiber soggy and tangled.

It is the object of my invention to construct a roll that will take such fiber uniformly as it comes up and wring it thoroughly, and I accomplish this purpose by planing off the surface of the roll longitudinally, so that a cross-section of the same shows a perimeter of alternate arcs and chords, as seen most clearly in Fig. 1. In practice I use a roll of twelve inches diameter and plane off about ten strips each about one and one-half inches wide, disposed at equal distances around the roll. The resulting flat areas are numbered 12 in the drawings. Of course I may so treat either roll or both.

I claim—

A wringer-roll whose surface consists of alternate longitudinal flat and curved sections.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 17th day of October, A. D. 1895.

FREDERICK G. SARGENT.

Witnesses:

CHAS. G. SARGENT,
ANDREW B. MCGOWN.