

G. D. COOPER.
SEWING MACHINE STAND.
APPLICATION FILED APR. 6, 1905.

Fig. 2.

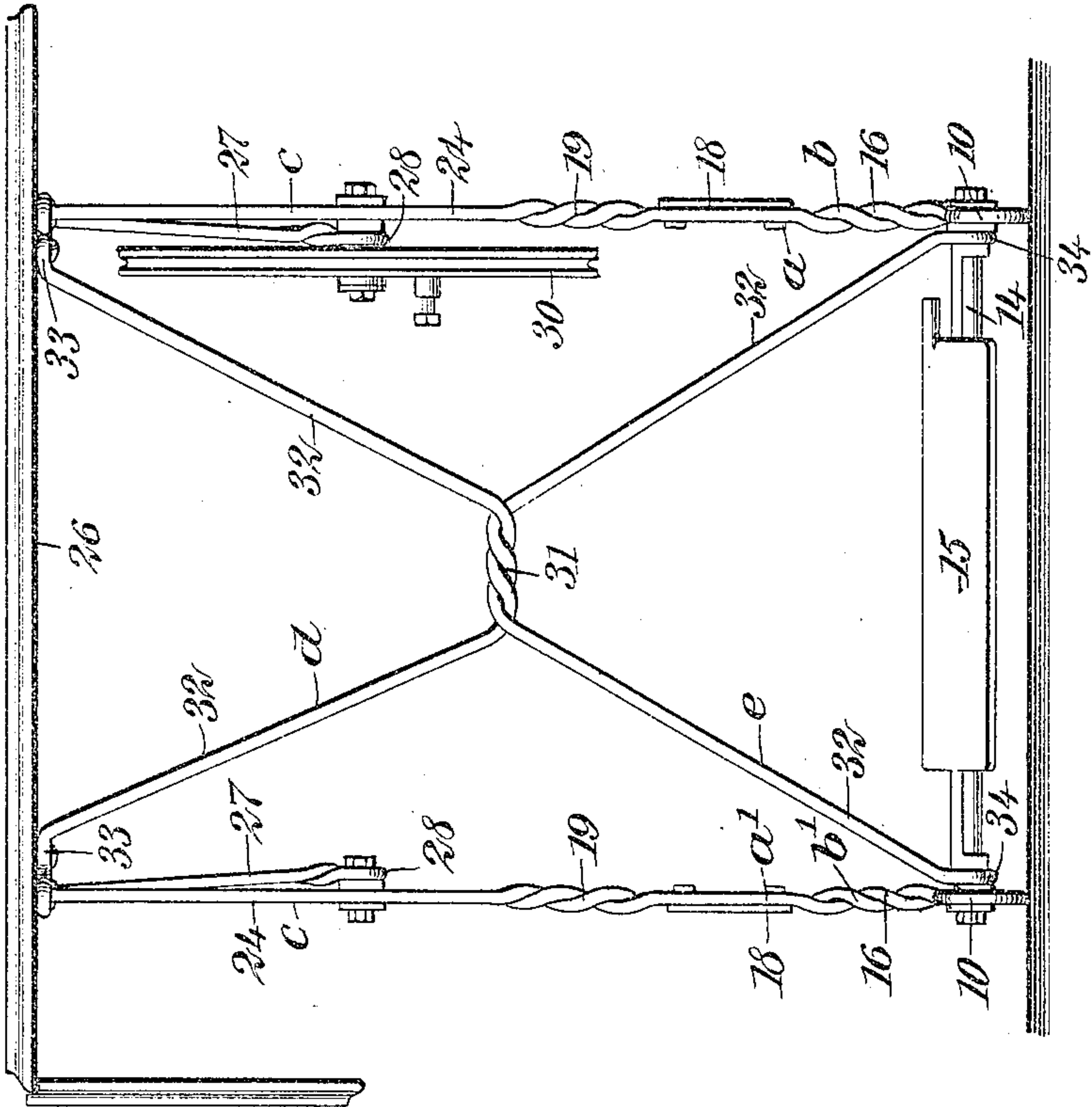
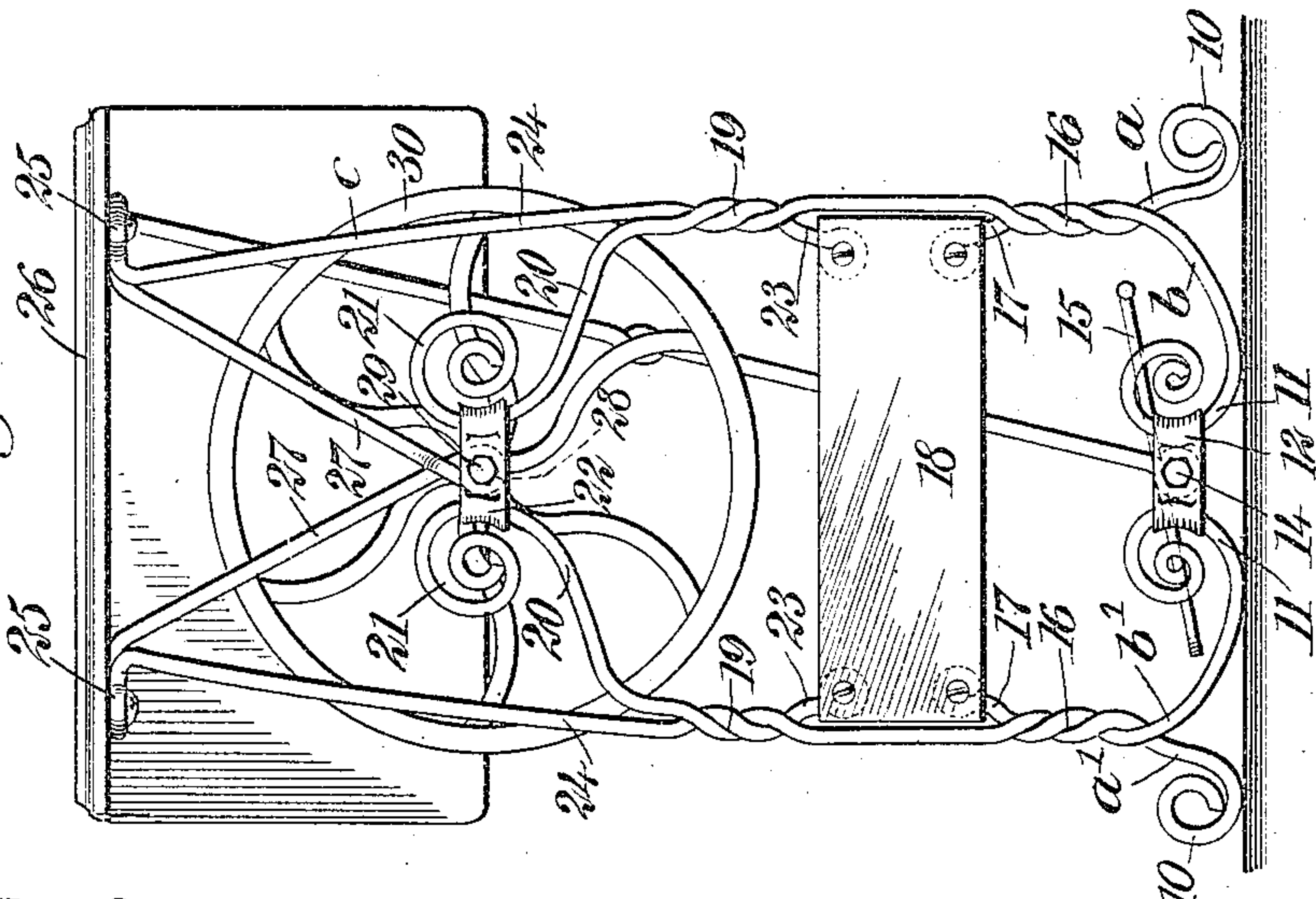


Fig. 1.



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SEWING-MACHINE STAND.

No. 816,300.

Specification of Letters Patent.

Patented March 27, 1906.

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To all whom it may concern:

Be it known that I, GARRETT D. COOPER, a citizen of the United States, and a resident of Providence, in the county of Providence and State of Rhode Island, have invented a new and Improved Sewing-Machine Stand, of which the following is a full, clear, and exact description.

The underlying object of my invention is to improve the ordinary cast-iron sewing-machine stand in point of lightness and durability, permitting the machine to be shipped with less freight rates and liability to breakage and producing a lighter machine, which may be moved about the house with greater ease than those ordinarily constructed. In attaining this end I construct the stand of iron rods or heavy wire, the parts of which are joined in a peculiar manner, producing a very light and strong structure at a cost materially less than that of the sewing-machine stand ordinarily employed:

Reference is to be had to the accompanying drawings, which illustrate as an example the preferred embodiment of my invention, in which drawings like characters of reference indicate like parts in both the views, and in which—

Figure 1 is a side elevation of the stand, and Fig. 2 is a front elevation.

The stand or frame is composed of two side sections, which are essential duplicates, and a back section or brace. According to the specific example of my invention here given, each side section is formed of five lengths of stout wire or rods, (designated *a*, *b*, *a'*, *b'*, and *c*, respectively.) The sections *a* and *a'* are duplicates, and each has one end coiled or turned to form a rounding foot 10, resting on the floor. The sections *b* and *b'* are also duplicates, and each of these sections has a turned or coiled end 11 lying between the coiled ends 10 and forming a rounding surface, also bearing on the floor. Above this rounding surface the coiled ends 11 approach each other and are joined by a clamp 12, formed, preferably, of pressed sheet metal. The clamps 12 of each side of the frame are connected by a horizontally-extending tie-rod 14, which serves also to carry the treadle 15 of the sewing-machine. It will be seen, therefore, that the frame furnishes at each side four bearing points or surfaces engaging the floor, which insures a firm base for the machine.

The sections *a* and *b* and the sections *a'* and

b' are twisted together, as indicated at 16, forming two stanchions for each side of the frame. The ends 17 of the section *a* branch from the twisted parts or stanchions 16 and are suitably fastened to side plates 18, which extend forward and backward in the plane of the side of the frame and serve the double purpose of bracing the frame and bearing the name of the machine. From the twisted parts or stanchions 16 the sections *a* and *a'* extend upward past the ends of the connecting-plate 18 and above this plate are twisted into the ends of the sections *c*, as indicated at 19, forming stanchion-like parts rising from the tie-plate 18. From the twisted parts or stanchions 19 the sections *a* and *a'* branch inward, forming limbs 20. The extremities of said sections *a* and *a'* above said limbs 20 are coiled, as indicated at 21, and are connected by a clamp-plate 22, similar to the clamp-plate 12.

The extremities of the sections *c* are suitably fastened to the tie-plate 18, as indicated at 23, and from the coiled parts or stanchions 19 the end portions of the sections *c* extend upward, forming side limbs 24, which terminate in eyes 25. These eyes are disposed horizontally and receive fasteningscrews by means of which the top or table 26 of the machine is fastened to the stand or frame. From the said eyes 25 the two limbs of the middle part of the section *c* are extended downward and inward, producing a V-shaped brace, at the angle of which an eye 28 is formed. The eyes 28 of each side of the frame are suitably fastened to the tie-plate 22, and at the right-hand side of the frame the eye 28 and tie-plate 22 serve also to carry the stud-shaft 29, on which is mounted the balance-wheel and pulley 30 of the sewing-machine, the same being connected with the treadle 15 to be driven therefrom, as will be understood from the prior art.

The back or brace of the frame is formed with two sections *d* and *e* of metallic rods or wires, and the same are twisted together at their middle portions, as indicated at 31, from which the end portions 32 of said sections *d* and *e* branch to the four corners of the frame, where they are formed with eyes 33 and 34, the eyes 33 being at the ends of the section *d* and being fastened to the under side of the table 26, while the eyes 34 are at the ends of the section *e* and encircle and are fastened suitably to the shaft 14. This produces, as is shown in Fig. 2, an essentially X-

shaped or cruciform brace which extends between and firmly connects the four corners of the frame or stand. It will be seen in this manner I am able to construct a stand which
 5 is much lighter than those constructed of cast metal, and owing to the resiliency of the material of which the stand is constructed breakage due to jar or vibration is entirely
 10 eliminated, the weight of the stand is greatly decreased, and the cost is materially lessened. Further, by constructing the stand of wire or rod sections twisted and fastened together opportunity is presented for the production
 15 of ornamental design which will give the stand a novel and artistic effect.

Having thus described the preferred form of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A sewing-machine stand or frame constructed of two side sections and a back or
 20 brace, each side section being formed of lengths of metallic rod or wire, means for joining said lengths together, including a clamp or tie-plate for each side section, and
 25 means for mounting the sewing-machine balance-wheel on one of said clamp or tie-plates.

2. A sewing-machine stand having two side sections and a back or brace, the side sections being formed of lengths of metallic rod
 30 or wire, means for fastening said lengths together, said means including a clamp or tie-plate, and means for mounting the balance-wheel of the sewing-machine on said clamp or tie-plate.

3. A sewing-machine stand or frame comprising side sections, a brace extending between them, the side sections being formed
 35 of lengths of metallic rod or wire, means for joining said lengths together, said means including a brace or tie-plate, means for mounting the fly-wheel of the sewing-machine on
 40 said brace or tie-plate, a tie-rod extending between the side sections of the frame or stand, and a treadle mounted on the said tie-rod.
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4. A sewing-machine stand comprising side sections and a brace or back extending between them, the side sections being formed
 50 of lengths of rod or wire, and means for fastening them together, and the sides of the frame each having four bent or rounding portions adapted to engage the floor to sustain the frame or stand.

5. A sewing-machine stand comprising
 55 side sections and a brace or back extending between them, the side sections and brace or back being formed of lengths of rod or wire, and means for fastening them together, and the sides of the frame each having four
 60 bent or rounding portions adapted to engage the floor to sustain the frame or stand.

6. A sewing-machine stand having side sections each provided with two lengths of rod
 65 or wire, means for fastening said lengths together at their lower ends, and an additional

length of rod or wire having its end portions joined respectively to the first-named lengths of rod or wire, the middle portion of the second-named length of rod or wire being extended down toward the center of the side
 70 sections, and means for joining said middle portion to the first-named lengths of rod or wire.

7. A sewing-machine stand having a side section comprising four lengths of rod or wire
 75 having their lower ends bent to form feet engaging the floor, said lengths of rod or wire being twisted together in pairs, one member of each pair being joined to a tie-plate extending between the two pairs, the remaining
 80 members of said pairs extending upward above the tie-plate, connections fastening said remaining members together, and an additional length of rod or wire having its ends
 85 joined to said tie-plate and extending upward from the same to engage the table of the sewing-machine, the middle portion of said additional length of wire being bent downward and inward and engaged with the
 90 connecting means for the said remaining members of the two pairs of rods.

8. A sewing-machine stand or frame having two side sections formed of lengths of metallic rod or wire twisted together, and two of
 95 said lengths being joined by a tie-plate or clamp, a tie-rod extending between said tie-plates or clamps from one side section of the frame to the other, a treadle mounted on the tie-rod, and a brace extending from the top
 100 of the frame or stand downward and connected to the tie-rod adjacent to the side sections.

9. A sewing-machine stand having side sections formed of lengths of rod or wire twisted into engagement with each other, each side
 105 section having end portions of said lengths of rod or wire located at the bottom of the section and bent rounding to form four portions arranged in line with each other in the plane of the side section and adapted to engage the
 110 floor and forming supports for the stand whereby the stand is given a firm and wide base.

10. A sewing-machine stand having side sections formed of lengths of rod or wire
 115 twisted into engagement with each other, each side section having end portions of said lengths of rod or wire located at the bottom of the section and bent rounding to form four portions adapted to engage the floor and
 120 forming supports for the stand whereby the stand is given a firm and wide base, a tie-plate extending between and connecting two of said rounding end portions of the rod or wire on each side section of the stand, a tie-
 125 rod extending between said tie-plates from one side section to the other, and a back or brace extending between the side sections of the frame and joined to said tie-rod directly adjacent to the tie-plates.
 130

11. A sewing-machine stand having side sections formed of lengths of rod or wire twisted and joined together, each side section having at its bottom end portions of the said rods or wires bent rounding to engage the floor and sustain the stand, a tie-plate extending between and connecting two of said end portions at each side section of the stand, and a tie-rod joined to and extending between said tie-plates, the tie-rod being adapted to carry the sewing-machine treadle.

12. A sewing-machine stand having side sections formed of lengths of rod or wire twisted and joined together, each side section having at its bottom end portions of the said rods or wires bent rounding to engage the floor and sustain the stand, a tie-plate extending between and connecting two of said end portions at each side section of the stand, a tie-rod joined to and extending between said tie-plates, the tie-rod being adapted to carry the sewing-machine treadle, and a back or brace extending between the side section and joined to the tie-rod directly adjacent to said tie-plates.

13. A sewing-machine stand having side sections formed of lengths of rod or wire twisted and bent together, tie-plates extending between portions of said rods or wires to join them together, and a fly-wheel mounted on and sustained by one of said tie-plates.

14. A sewing-machine stand having side sections each being formed of five lengths of rod or wire, two of said lengths being twisted together in pairs and having their lower ends bent rounding to engage the floor and support the stand, means for joining together said pairs of rods or wire at the bottom of the stand, the fifth section of rod or wire having its ends twisted into one member of each of said pairs of rods and having its intermediate portions extending upward into connection with the table, and thence downward toward the center of the stand, means connecting the said downwardly-extending portion of the fifth length of rod or wire with members of said pairs of rods, and an additional means connected to the end portions of the fifth length of rod or wire and to members of said pairs of rods, said additional means extending across the side section from one of said pairs of rods to the other.

15. A sewing-machine stand having side sections each being formed of five lengths of rod or wire, two of said lengths being twisted together in pairs and having their lower ends

bent rounding to engage the floor and support the stand, means for joining together said pairs of rods or wire at the bottom of the stand, the fifth section of rod or wire having its ends twisted into one member of each of said pairs of rods and having its intermediate portions extending upward into connection with the table, and thence downward toward the center of the stand, means connecting the said downwardly-extending portion of the fifth length of rod or wire with members of said pairs of rods, an additional means connected to the end portions of the fifth length of rod or wire and to members of said pairs of rods, said additional means extending across the side section from one of said pairs of rods to the other, a tie-rod extending between said side sections of the stand and joined to the first-named means connecting the two pairs of rods or wires together, said tie-rods serving to mount the treadle of the sewing-machine, and a back or brace extending between the side sections and joined to the tie-rod directly adjacent to the side sections.

16. A sewing-machine stand having side sections each being formed of five lengths of rod or wire, two of said lengths being twisted together in pairs and having their lower ends bent rounding to engage the floor and support the stand, means for joining together said pairs of rods or wire at the bottom of the stand, the fifth section of rod or wire having its ends twisted into one member of each of said pairs of rods and having its intermediate portions extending upward into connection with the table, and thence downward toward the center of the stand, means connecting the said downwardly-extending portion of the fifth length of rod or wire with members of said pairs of rods, an additional means connected to the end portions of the fifth length of rod or wire and to members of said pairs of rods, said additional means extending across the side section from one of said pairs of rods to the other, and a fly-wheel mounted on means for connecting members of said pairs of rods with said downwardly-extending intermediate portion of the fifth section of rod or wire.

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

GARRETT D. COOPER.

Witnesses:

CHAS. F. RICHARDSON,
WM. L. WEBER.