

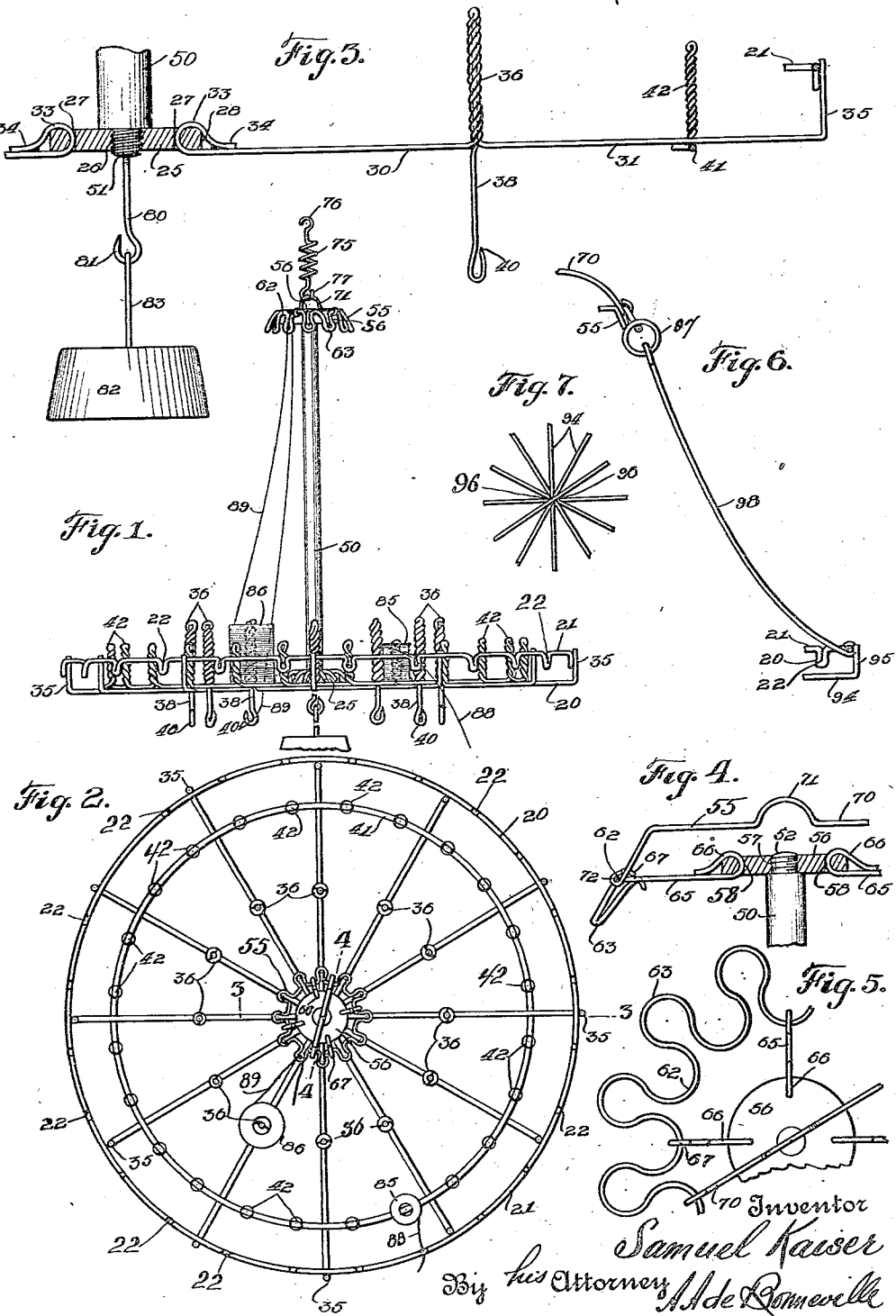
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SPOOL HOLDER

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UNITED STATES PATENT OFFICE

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SPOOL HOLDER

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This invention relates to a spool holder.

The object of the invention is the production of a holder for spools of thread and the like and with which spools can very easily be connected thereto and detached therefrom. The second object of the invention is the production of a holder for spools of thread, whereby the thread of any of the spools can be easily drawn therefrom while the spools are in place upon said holder. The third object of the invention is the production of a spool holder wherewith the spools are detachably segregated from one another and located in plain view and accessible.

In the accompanying drawings Fig. 1 represents an elevation of an exemplification of the spool holder; Fig. 2 shows a top plan view of Fig. 1; Fig. 3 indicates an enlarged section of Fig. 2 on the line 3, 3; Fig. 4 represents an enlarged section of Fig. 2 on the line 4, 4; Fig. 5 indicates a top plan view of Fig. 4; Fig. 6 shows an elevation of a modification and Fig. 7 represents a fragmentary plan view of the modification.

The holder in this instance consists essentially of the main cylindrical wire frame designated in its entirety by the numeral 20, the central column designated in its entirety by the numeral 50 and the upper wire suspending frame designated in its entirety by the numeral 55.

The main frame 20 comprises the outer upper wire ring 21, that has formed therein the plurality of guide loops 22. A lower central supporting block 25 has formed therein the central threaded opening 26, and a plurality of openings 27 adjacent to its outer circumferential edge 28. A plurality of supporting arms are indicated each as having the members 30 and 31. The inner end of each member 30 has formed therewith a loop 33 which engages one of the openings 27 and the end 34 of each loop is soldered to the member 30. The outer end of each member 31 has formed at right angles thereto the upright portion 35. The latter are soldered or otherwise fastened to the wire ring 21. The adjacent ends of the members 30 and 31 are twisted about each other and form thereby the spool spindles 36. A stem 38 has its

upper end entwined by each of the spindles 36 and has formed at its lower end the guide loop 40.

An inner lower wire ring 41 is soldered to or otherwise fastened to the members 31 and has formed therewith a plurality of spool spindles 42, which are made by twisting portions of the ring 41 around each other. Each of the spindles 42 is in a line extending through the axial center of the supporting block 25 and one of the guide loops 22.

The central column 50 has formed at its lower end the threaded shank 51, and at its upper end the threaded shank 52. The threaded shank 51 is in threaded engagement with the threaded opening 26 of the lower central supporting block 25.

The upper central suspending frame 55, comprises the upper central block 56, having the axial threaded opening 57, and a plurality of openings 58 adjacent to its outer circumferential edge. The threaded shank 52 of the column 50 is in threaded engagement with the threaded opening 57.

The wire frame 55 is indicated with a plurality of guide loops having the upper portions 62 and the lower portions 63. Supporting arms 65 have each formed at their ends the loops 66 and 67 which respectively engage the openings 58 and the upper portions 62 of the upper wire central suspending frame. The ends of the loops 66 and 67 are soldered to the arms 65.

A suspending arm 70 has formed in its central portion the loop 71 and in its ends are formed the loops 72, which latter engage the portions 62 frame 55.

A suspending spring 75 is indicated with the upper loop 76 and the lower loop 77. The loop 77 engages the loop 71, and by means of the upper loop 76 the spool holder is suspended from a ceiling or other support.

A hanger 80 having the loop 81 at its lower end extends from the threaded shank 51, and a cake of wax 82 is suspended from the loop 81 by means of the cord 83. Spools of thread 85 are rotatably and removably supported on the spindles 42, and spools of thread 86 are rotatably and removably supported on the spindles 36. The thread 88 from each of the

spools 85 leads through and is guided in the guide loops 22, and the thread 89 from each of the spools 86 leads up to and is guided on the lower portion 63 of each of the loops of the upper frame 55, and then leads through the guide loop 40 below the spool spindle 36. By this disposition of the spools and their threads the latter are kept from entangling with one another and are always ready for use to have a length taken from them for immediate use.

In the modification indicated in Figs. 6 and 7, a fragmentary portion of the upper wire suspending frame is again indicated at 55 with its suspending arm 70. The central block 56 with its arm 65 is dispensed with. The lower central supporting block 25 is also dispensed with. The main frame 20 is again shown with the wire ring 21 having the guide loops 22 and in place of the supporting arms having the members 30 and 31 there are substituted supporting arms 94 each with an upright portion 95, which latter are soldered or otherwise fastened to the main frame 20 as already described. The arms 94 overlap each other and are soldered to each other as indicated at 96. A plurality of rings 97, in this instance four, are suspended from the loops of the upper wire suspending frame 55 and supporting arms 98 connect the rings 97 and the ring 21. It is to be understood that instead of the spools of thread 85 and 86, spools with other material wound thereon may be used.

Various modifications may be made in the invention and the present exemplification is to be taken as illustrative and not limitative thereof.

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

1. In a spool holder the combination of a main frame, an upper suspending frame having loops formed therewith, means connecting the frames, spindles extending up from the main frame, said main frame having guide loops formed therewith adjacent to some of said spindles, and a guide loop located below each of the other spindles of the main frame, some of said spindles having spools of thread rotatably and removably supported thereon with the threads thereof leading through the guide loops of the main frame, the other spindles having spools of thread rotatably and removably supported thereon with the thread of each leading to one of the guide loops of the upper frame and then leading through one of the guide loops below the main frame.

2. In a spool holder the combination of an upper suspending frame having guide loops formed therewith, an upper central block for said suspending frame having an axial threaded opening, supporting arms connecting said guide loops and said block, a central column having a threaded shank at its upper

end in threaded engagement with the threaded opening of said block, said column having a threaded shank at its lower end, a main cylindrical frame having guide loops formed therewith, a lower central supporting block for the main frame, supporting arms having each one end fastened to the lower central supporting block and their outer ends fastened to the outer circumferential portion of the main frame, a plurality of spool spindles formed with the supporting arms of the main frame, stems extending from and below some of said spool spindles, guide loops formed at the lower ends of said stems, said spool spindles each adapted to rotatably and removably support a spool of thread, guide loops in the main frame adapted to guide threads leading from said spools, and the guide loops in the upper suspending frame also adapted to guide threads extending from said spools, the latter threads leading to and through the guide loops extending from said stems.

Signed at the borough of Manhattan, city of New York, in the county of New York and State of New York, this 31st day of May, A. D. 1928.

SAMUEL KAISER.

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