

automatic action necessary to the weaving of the various grades of wire. The fine wire cloth being of a more pliable material than that of a coarser grade, is woven upon looms having a very ingenious copp shuttle, which throws the weft to and fro with the same certainty as does the cotton loom.

It was the hard and coarser steel wire that tried (in the most pronounced sense) the genius of the inventor; but even this difficulty has been overcome.

There is a limit to the application of the automatic principle in the weaving of wire, which is reached when the wire is too coarse and stiff to be wound upon a spool.

The coarser grades of wire therefore remain to be shot through by hand, but the proportion is small in comparison with the whole. Passing over the intermediate grades of wire, we at length reach the heaviest and strongest of the series.

The power and strength of this one is enormous, which is shown in the ease with which (by the aid of a pair of powerful cams) it thrusts the wire into proper place, under