(12) **United States Patent**
Holt

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(54) **LOOM, REEDS**

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Horace Hall Rutland Township Ohio

Sellers Patent

To whom it may concern Be it known that I Horace Hall of Rutland Township & Meigs County and State of Ohio have made an improvement in Knitting Stays or Ruffles for weaving which is described as follows. 1st The frame This is made by tenoning and mortising together the side pieces about five feet long; the end pieces about two feet long & Stand on legs about thirty inches high

2d The Carriage is of the same length and width of the frame. The working head or guide is the same as that in common use But the feed instead of being regulated by a Spring and pawl, is done by a screw called the feeding screw having a catch or Spring rod working in the threads of the screw at the end of the Carriage which carries forward the carriage. The end of this screw is supported and works in an upright at the end of the frame; and the other has a rest having a cog wheel on it and which works into a cog wheel on the flyer. When the carriage is to be moved back the Spring rod is disengaged from the screw, & instead of the Spring rod a female screw placed in the end of the carriage into which the male screw may work and draw the screw forward.

Operation. The needs of the loom cut and shaped are put in between the rib & side pieces by hand, and the threads which give the Vibratory motion are worked by the foot in the usual way: and the screw which conveys the carriage regulates the shedding and beating up of the thread as heretofore with the utmost exactness. At each traction of the foot a stitch is put in by the hand, and the stocking or thread passed round in the perpendicular by the operation of the machine.

The improvement which I claim as my invention consists in the feeding screw as above described in regulating the shedding and beating up instead of the Spring rod

Witnesses