



[Reported Officially for the Scientific American.]

LIST OF PATENT CLAIMS Issued from the United States Patent Office FOR THE WEEK ENDING JULY 18, 1854.

STEAM BOILER—W. E. Bird, of Cahawba, Ala.: I claim the combination of the lower boiler or boiler, and the upper boiler or boiler with each other and with the furnace, in such a manner that the top of the furnace will be formed by the upper boiler or boiler, and the rear of the furnace be principally formed of the lower boiler or boiler, while the flue space from the said furnace passes between the said upper and lower boilers, and communicates with the flues returning through the lower boiler or boilers, as set forth.

of fineness (the object being to facilitate by the use of said stems, the advantageous cutting of the leaf itself.) the mixed mass then to be cut up together to the requisite fineness, and then the stems to be separated from the cut leaf, which is then ready for use.

I also claim the so combining the spring with the peg-wood carrier, peg driver, and gauge lever that it shall not only serve to support the pegwood or constitute a bottom to the carrier, but also to force up the pegwood after it has been depressed either by the peg driver, or the gauge lever as specified.

able arrangements with some well known concern engaged in the manufacture of copper, for the purpose of supplying ships with fixed and reliable conductors, which, if generally adopted, will save many lives and much property.