charging trigger, in the same manner, in every respect, as the cock of the common gun lock, by the discharging trigger operating on the sear, or dog, which, by pressure, is disengaged from the notch in the cocking trigger. The cocking trigger may be either within or forward of the trigger guard, or playing through a slit cut for the purpose in the forward part of the guard. The same principle is intended to be applied to pistols and to double barrelled guns.

JOEL NEWBURY.

A, guard. B, trigger plate. C, main spring. D, feather spring. E, cocking trigger. F, discharging trigger. G, sear, or dog. H, bill, or cone. I, tube which screws into the touch hole.

Specification of a patent for an improvement in the art of making Glue, by evaporating the water commonly called the foot water, or the liquor after boiling the bones of all kinds of animals, to a proper consistence for cutting, drying, and making into Glue, by means of a double floored evaporating basin. Granted to PETER COOPER, City of New York, April 29th, 1830.

THIS improvement consists in having an ordinary furnace made of brick work; from this runs a horizontal chimney or flue half the width, and running the whole length, on which it is intended to construct the evaporating basin, it is then returned on the other side back to the furnace where the flue terminates in a perpendicular chimney. Across these two flues are to be laid at proper distances, iron bars of about an inch in breadth, to support the lower basin; upon these is laid one extended sheet of lead, or other metallic substance, and upon the edge of this is placed a wooden curb from six to twelve inches deep. To the outside of this wooden curb the sheet of lead is to be nailed all round, and so as to be water tight.

Upon the bottom of this basin are laid three or four longitudinal strips of boards about two or three inches in width, and terminating about a foot short of the inside of the curb at the end furthestmost from the furnace. Across these, and about an inch, or an inch and

a half apart, are slats of about an inch thick, and an inch high, and nailed to the longitudinal strips on which they rest.

At the point where the longitudinal strips terminate, at the far end of the curb, and about one foot from it, is a piece of board going across the basin and grooved to the inside of the wooden curb aforesaid, this board is to be constructed about half an inch higher than the surrounding curb, and about two inches less in depth.

Upon these slats is another sheet of lead extended, or other metallic substance, the edge of which is to be bent up, and nailed to the inside of the curb and the board aforesaid, and so as to be impervious to the water.

This completes the construction of the evaporating basin; water is now to be poured in the open end of the lower basin, which is beyond the board aforesaid, until it fills up all the space that is between the two basins. Fire is then put to the furnace until the water boils, and then the foot water or the liquor remaining after boiling the oil from the bones and feet, is to be run into the upper basin, and the fire kept up until the foot water is evaporated to a proper consistence to be taken out and put into cooling troughs, where it afterwards is cut and spread on nets to dry. This completes the process.

The improvement for which your petitioner claims an exclusive right, is the construction of the double floored evaporating basin, and the application of it to the purposes of making glue, described as aforesaid, whereby the foot water, or liquor after boiling the bones of all kinds of animals, is evaporated into a proper consistence to preserve it, and make it into glue.

PETER COOPER.

Specification of a patent for an improvement in that part of the Ingrain Carpet Loom, which is called the Engine. Granted to JOSIAH R. CLARK, South Coventry, Tolland county, Connecticut, May 7th, 1830.

THIS improvement consists in substituting a rotary sheet of paste-board, parchment, painted canvass, or any other suitable substance, perforated with holes in such a manner as to form the figure required, in lieu of the barrel or cylinder with wire cogs, or staples, set in it, (somewhat resembling the barrel of a hand organ) which is commonly used; and also as a substitute for, and an improvement on "the Jay Card Machine," so called, or as it is sometimes called, "the Paper Machine;" and also as an improvement on the canvass apron with cogs or strips of wood attached to it, and with staples set in these cogs, which has been recently brought into use. The sheet of paste-board, &c. required, will be of various size, according to the design of the figure to be laid out upon it, but always of a breadth about equal to the length of the cylinders, or cylinder, around which the sheet is to operate, and on this sheet is to be laid out the design for the figures to be woven by it in the same manner as the surface of the cylinder, or barrel, is usually laid out for the setting of the wire