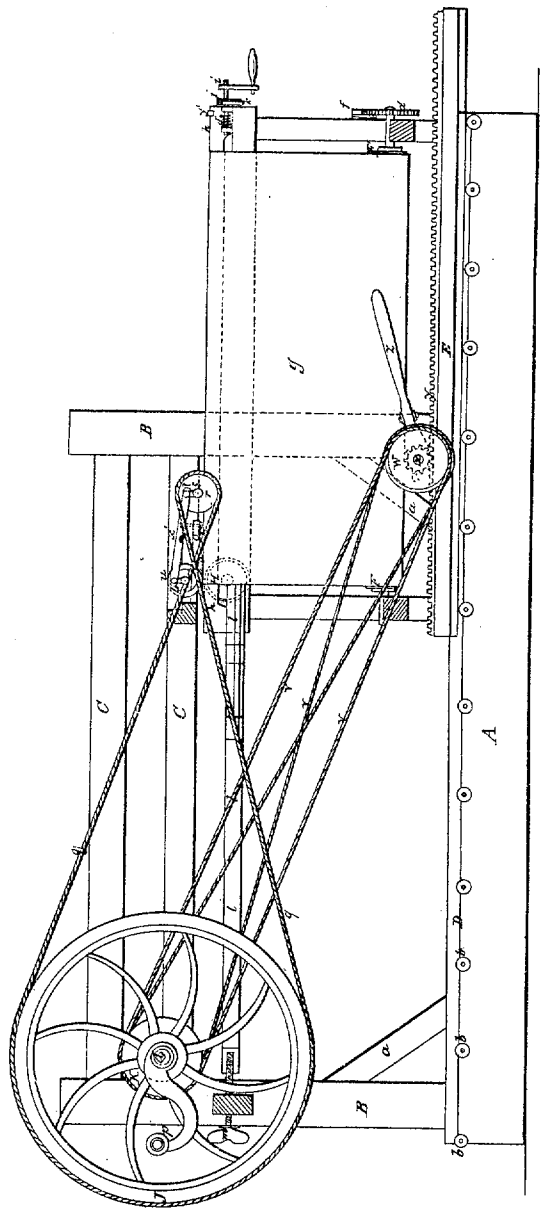
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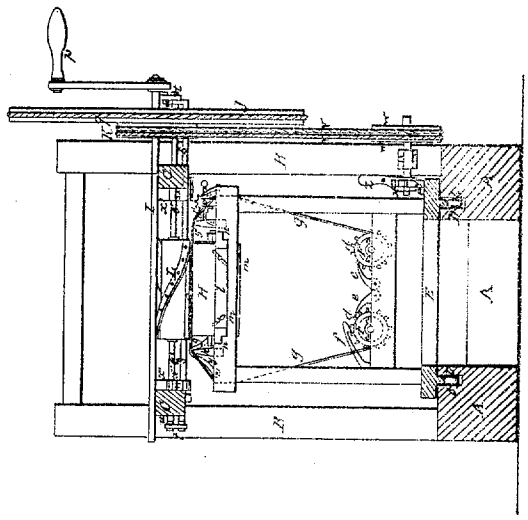
Sheet 1-2 Sheets.

B. Swift.

Cloth Shearing Mach.

Patented Jul. 1, 1814.





N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

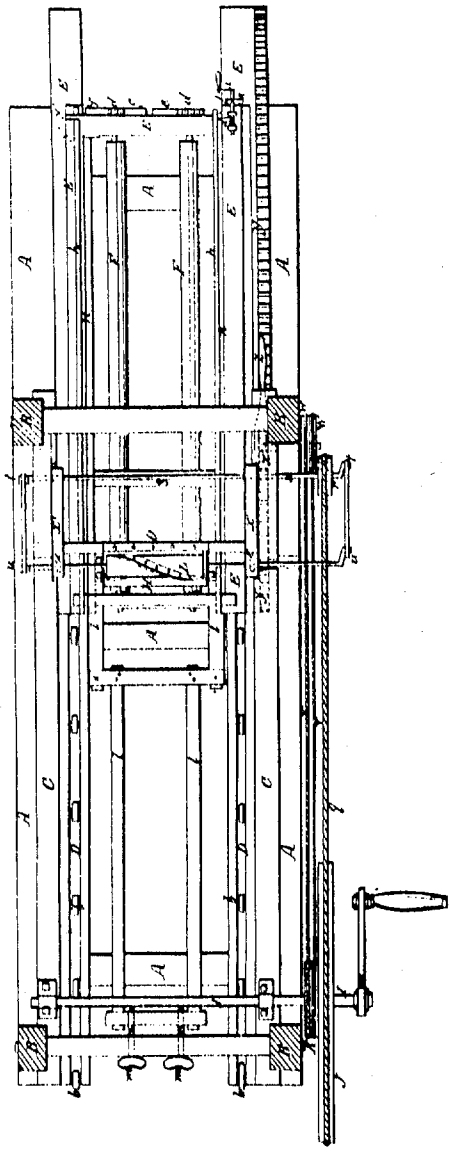
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Sheet 2-2 Sheets.

B. Swift.

Cloth Shearing Mach.

Patented Jul. 1, 1814.



Daniels Specification

2162 X

Called a Patent.

The schedule referred to in these Letters Patent and making part of the same containing a description in the terms of the said Daniel Specification himself of his Machine for Shearing Cloth.

This Machine consists of a frame of cast Iron seven feet in length and about four feet in breadth the bottom piece which is placed in a horizontal position and on which are four upright pieces with sockets to receive the main shaft and the wheel spindles through together with the thrust the carriage which moves within the said frame is intended to be about seven feet in length three feet in height and two feet six inches in breadth & which is constructed in the following manner the cylinders (each capable of receiving a whole piece of cloth) with top & side edges, pinions and hooks, are to roll the cloth on previous to the shearing thereof and from thence the cloth passes over cylinders over the top of the carriage when it is stretched between the said cylinders on the top of the cloth carriage and is tightened by means of a windlass which has a ratchet and stop fixed at the end of said carriage the brackets which are fastened two rods connecting each end of the shearing with the other of the ends are fixed to the carriage behind the grooved cylinder, the cloth then passes over the top of the carriage after it is thrown to the other cylinder on which it is rolled, at the fore end of the carriage

is a cylinder formed with several thicknesses of cloth bou
on pedestals at the end of a frame which runs lengthw
thereof by means of two cranks at the end of the main frame
to support the wooden cylinder to the shears, one which lengthw
frame works in a rabbet and is fast with the top of the
carriage the said wooden cylinder is raised one half of its
diameter above the top of the carriage to support the cl
cloth to the bed shear. The main shaft is put in motion
turning of a crank, to the shaft is fixed a large and
small wheel which the large one is connected by a
shaft or axle to a small wheel at the end of a small
shaft which gives motion by means of two unequal cra
connected to the steel spiral shear which said shear h
a vibrating motion over the edge of the bed shear by
means of two unequal cranks one which said shears a
immediately over the wooden cylinder and all of which
are fixed or dependent respectively on the carriage, the
small vertical wheel on main shaft is connected with
five other vertical wheels or staffs one of which
is on the axis of the pinion which gives motion to the
carriage by means of a rack fixed thereto, and with the fou
is to proceed the same operation gives motion to the spi
vibrating shears which thereby performs the operation of
shearing the cloth cross ways upon the bed shears
and a youth from ten or fifteen years of age can with
the machine perform four times the quantity
shearing that a good and experienced workman can turn
out of hand by means of hand shears; a spring cock is
fixed on the side of the main frame over the pinion
to throw it out of gear so that the carriage may be
moved back, the spiral shear and its shaft together
with the bed shear is fixed in a frame or two arms
with shaft hung on gudgeons so that the shears may

An account of the Mill race cracked over the
Culvert & repaired by the Masons &c.

Witness
Mr. Bridges
Geo. G. Hornbeck

Daniel Swift.

16th Nov. 1850.

Drawing Book
No. 10.