

[undated]

A Description of the Machinery in Her Majesty's Tambour Table.

This Table is composed of a mahogany frame with 4 hollow legs with a mahogany box's frame over it about 4 Inches deep whose top is like unto the lid of a box the front whereon the lock is fix'd has 2 bolts one on the right hand side & the other on the left which latch into 2 side pieces when these bolts are unlatch'd & the lock unlock'd the front of the frame falls down & suspends by hinges also the lid or top is turn'd over which shows the upper machinery. This Table is so contriv'd as to raise the upper part higher or lower at pleasure by 4 racks which move up & down in 4 sockets in the afore said legs these racks communicating to a train of 7 wheels & a pinion 5 of which wheels & the pinion are in an Iron frame on the right hand side which range horizontally & extend from rack to rack. 2 of the most remote of these 5 wheels dip into the racks too these 2 remote wheels are added 2 long spindles the length of the Table with the 2 remaining wheels one to each spindle which communicate to the 2 racks on the left hand side in the same manner as those on the opposite side & consequently to the 4 racks in the 4 legs & to the arbour of the aforesaid pinion which goes through the Iron plate of the frame to the outside is a wheel of 3 Inches in diameter too it is added a second of an Inch & half & again a third of $\frac{3}{4}$ of an Inch on the arbour of this pinion on the under side is a ratch wheel, & on the other end of the arbour is a square to receive the winch which winds up the top part from the lower frame 12 Inches higher than the frame (or to regulate its height at pleasure) to this ratch wheel a steel stop plays in the teeth occasioned by a spring which continually keeps the ratch wheel lock'd & prevents the racks when rais'd from returning into the legs, but if desired it's only pressing down a brass knob fix'd on the reverse end of the stop at the front of the frame & the ratch wheel is unlock'd & may lower the upper part at pleasure by returning the winch. To the top of the aforesaid racks are riveted 4 Iron plates with screw holes in them to screw the racks to the under board of the top frame (or box) wherein is fix'd the upper Machinery which consists of 2 mahogany rollers parallel to each other & turning upon their own axis on each end of these rollers are brass ferrils & brass circular plates of 3 Inches diam^r to keep the work in its place the outer roller being fix'd in one situation

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though turned by a winch at pleasure. The periphery of the circular plate on the right hand side is cut into a ratch wheel with a stop playing in the teeth to lock it by means of a spring pressing against the stop & at the reverse end of the stop is a small knob which by being pressed it unlocks the ratch wheel & rolls the same pressure of this knob throws the stop into a second spring ratch & holds the stop out of the teeth of the wheel, & gives liberty for the roller to turn either way at pleasure & on the other end of the spring ratch is a second small knob which by pressing the small knob on the side it lets the stop fall again into the teeth of the wheel. On the right & left hand sides of the mahogany frame are 2 Iron frames covered with brass plates (wherein the axis of the above roller turns) from within side these frames by the assistance of a winch's turning a long spindle the width of the Table with a pinion at each end & 2 brass wheels one on each side communicating to 2 ratch fix'd at the bottom of 2 rests by the turning of the winch it winds out both the rests & by a spring pressing a stop in the teeth of the brass wheel on the right hand side it is stop'd at pleasure from returning & by pushing a small knob that's under the ratch it unlocks the wheel & another spring with its ratch holds back the stop out of the wheel & gives liberty for the rests to return by the assistance of the winch (as before) These ratch rests are hollow & composed of 4 pieces of Iron in each 3 of which are rivetted together & at right angles & the 4th or remaining piece is screwed into the top & bottom in order that it may occasionally be taken a sunder. Out of these square truncated rests are drawn 2 solid rests with little square holes cut in the sides at about $\frac{2}{3}$ of an Inch distance & at the upstream ends of the truncated rests are 2 spring stops (as before) which fall into the holes of the solid rests & lock them in order that they may not return, these spring stops have knobs at the reverse ends & by pressing these knobs down throws these stops into 2 other springs which holds the stops back (as before) & by pressing 2 other knobs on the sides of these springs it frees them & they again fall into the holes. at the upstream ends of these solid rests are fix'd 2 circular brass bores, in the center of which are 2 pivot holes to carry the 2^d mahogany roller & parallel to the former with 2 forreels & 2 circular plates (one at each end). In the right side circular brass bore & on the arbour of this mahogany roller is a ratch wheel with a spring & stop to lock the roller from returning & by pressing a knob at

at the reverse end of the stop which appears upon the periphery of the brass box it throws it into a spring notch which gives liberty for the roller to return & by pressing a second knob on another part of the periphery of the brass box lets the spring stop into the notch wheel as before.

On the outside of the round box & on the arbour of the roller is a square tray to fit the winch & by turning the winch the reverse way will wind the work of the inner (or fixed) roller upon the nearer roller. - and by moving the winch to the inner roller and winding forward will draw the work of the moveable roller upon the fixed roller, & also the whole frame into the table to be lock'd up. *ae*

To expences of workmanship and materials in finishing on the neatest manner the many various parts of the above described machinery	£ 51-2-0
To 2 four jointed brass Swing Candlesticks for the above table	4-0-0
To a fine lock to the above table	0-18-0
	£ 56-0-0

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