Livermore Heritage Guild's 1920–26 Dalton Adding Machine



Rev. A - 11/13/2013 Harry Briley

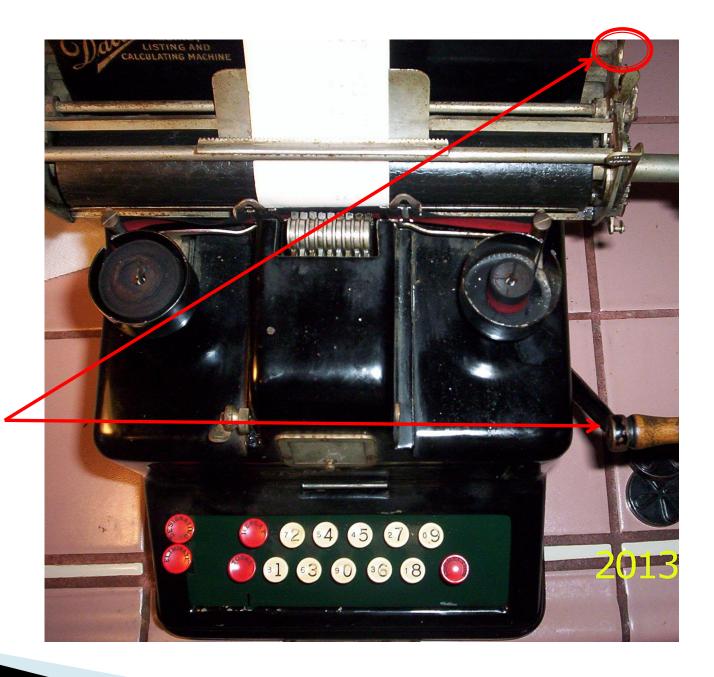
Disassembly for Cleaning

Remove three screws to remove case straight up

- Two in back
- One in front

Do not remove carriage. It is tricky to reinstall.

The carriage moves freely when handles pulled forward.





Simple Tools for Cleaning:

For Refurbishing:

- White Grease (minimal need)
- WD-40 Solvent (interior gears)

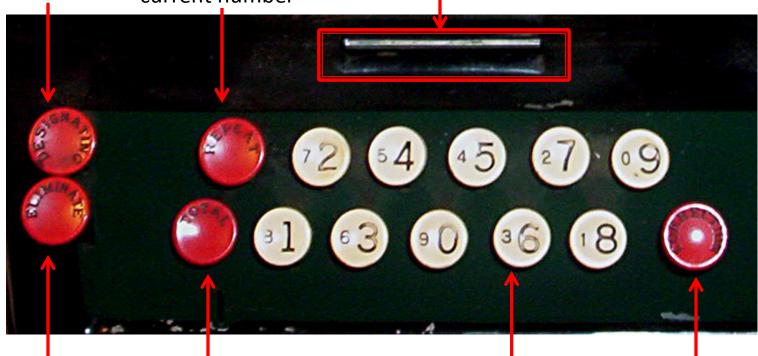
For Maintenance:

- 10W-30 Oil (not Pennzoil)
- FLAT Screwdrivers, one with a screw-holder feature
- Large Magnet to hold screws
- Cardboard mat to catch oil

Reattached Handle Spring

 Paperclip crimped in half to replace aged cotter pin Prints an 'E' on paper Before pulling handle, hold down to repeat current number

Digit tally window is merely a painted stick with dots that slides back and forth!



Ignore - Subtraction is complicated to do

Pull lever to clear, Press Total, Pull lever to total, Pull lever to clear

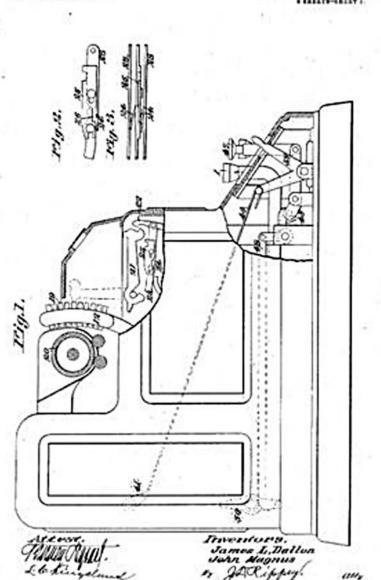
Use BIG digits for typing in a number. Lightly touch, digit occurs upon release

Press correct ALL the way down the clear an unwanted number

ADDING AND WRITING MACRINE.

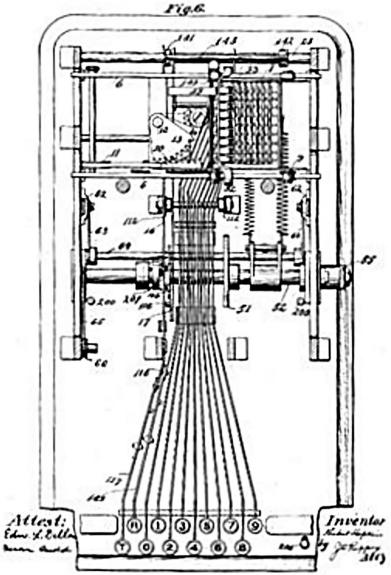
1,049,057.

Patented Dec. 31, 1912.



1,039,130.

Patented Sept. 24, 1912. in negation-negation of



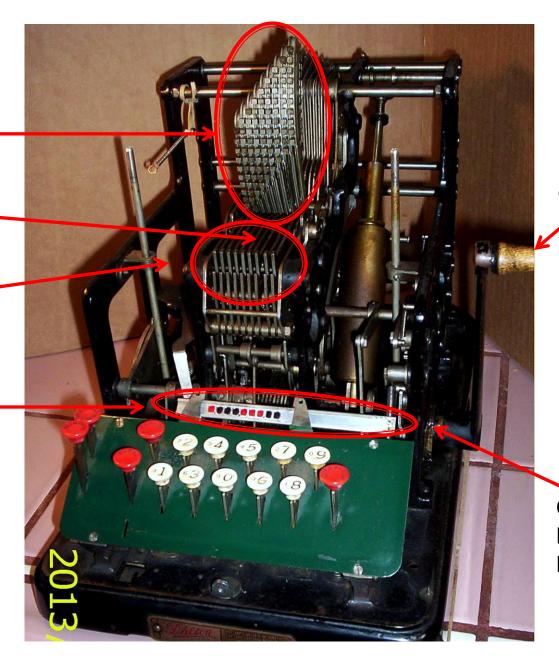
Digit Casing Sliders

Spray WD-40 into interior here

Hammers

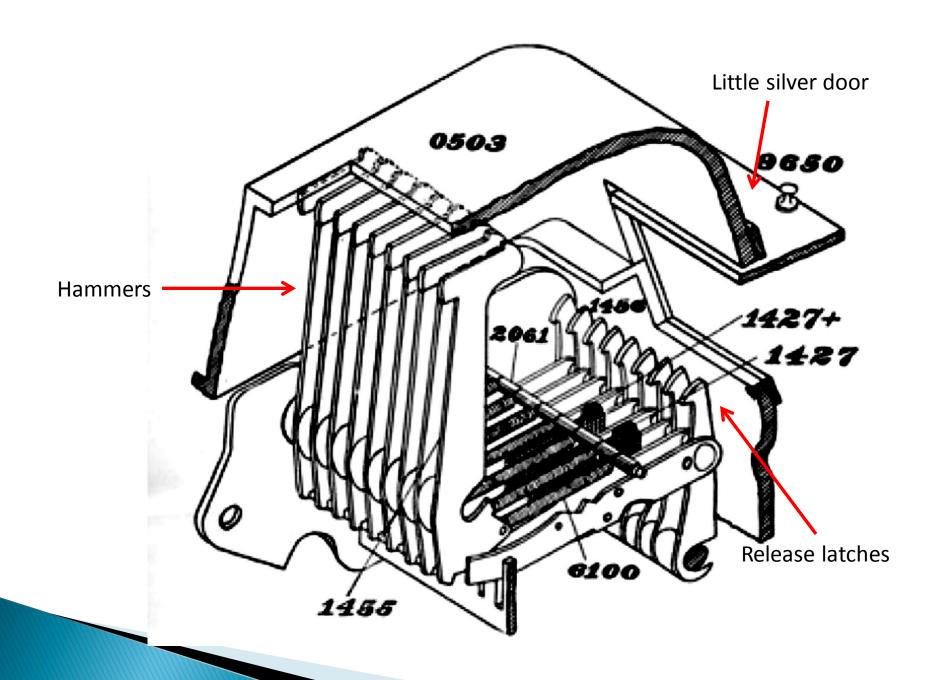
Sliding painted stick that counts digits —

- Lightly apply silver fine-tip paint pen
- Red/Black markers for dots as seen



Rub Olive Oil into wood handle, buff off excess

Oil holes on both ends of handle shaft



H. HOPKINS. ADDONS AND WRITING MACRINE.

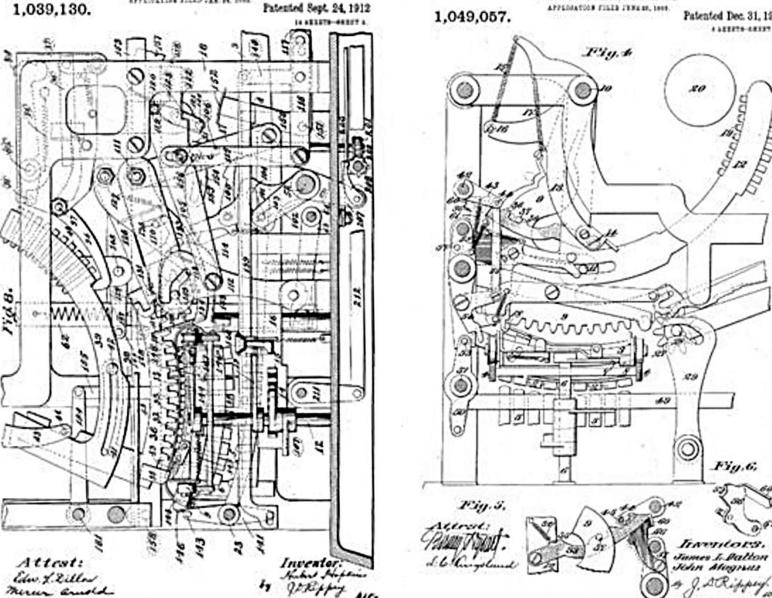
APPLOPATION TILED PAR. 94, 1944. Patented Sept. 24, 1912

J. L. DILTON & J. MIGNUS. ANDERSO AND RECORDENS WARRING. APPENDATION FILTS PERSON, 1806.

1,049,057.

Patented Dec. 31, 1912. * AEEETO-GE127 A.

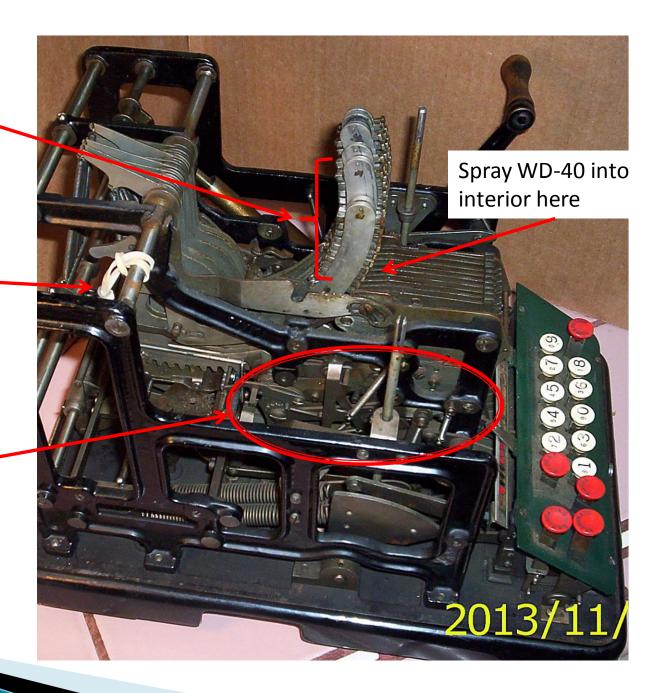
Fig.6,



Digit Casing Sliders Oil each digit until springs back easily

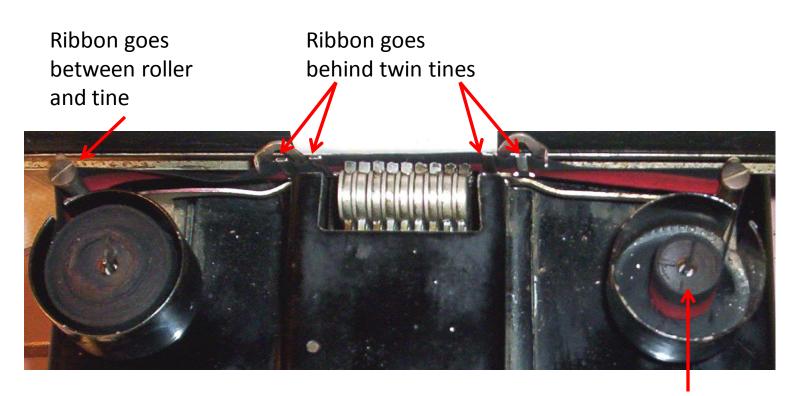
Spare spring hanging by a rubber band

Lightly oil all pivot points





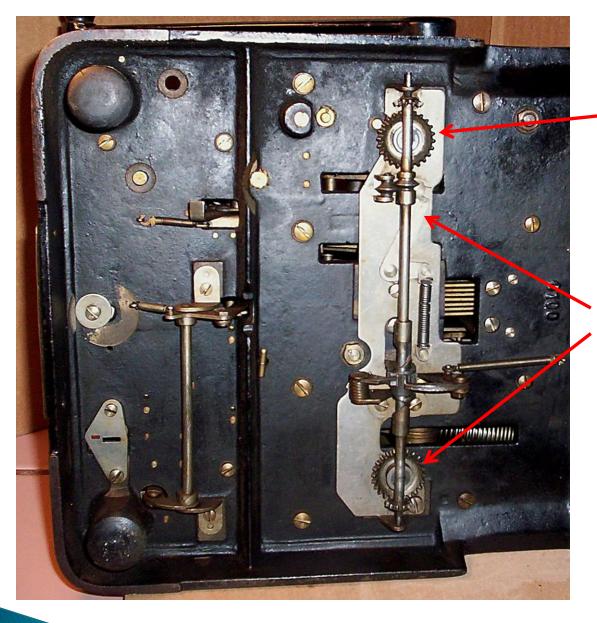
Handle spring is <u>very</u> awkward to reattach. Remove cotter pin to do it.



Press Total Button and pull the handle slightly forward until the ribbon tines rise up. This makes it easier to thread the ribbon.

Metal clip on end of ribbon slides fully into wooden spool and into slot of turning shaft.

When ribbon does not auto-reverse, turn machine on side, push away latch, and slide shaft to engage gears on opposite end (See next slide)



Ribbon rotation Gear

If ribbon does not auto-reverse:

- push away latch
- slide shaft to engage gears on opposite end
- return latch to locked position

Dalton Calculator - Repair History

• 11/12/2013 Harry Briley Unfroze with WD-40, Oiled, Made fresh cotter pin to attach return-spring to Handle

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