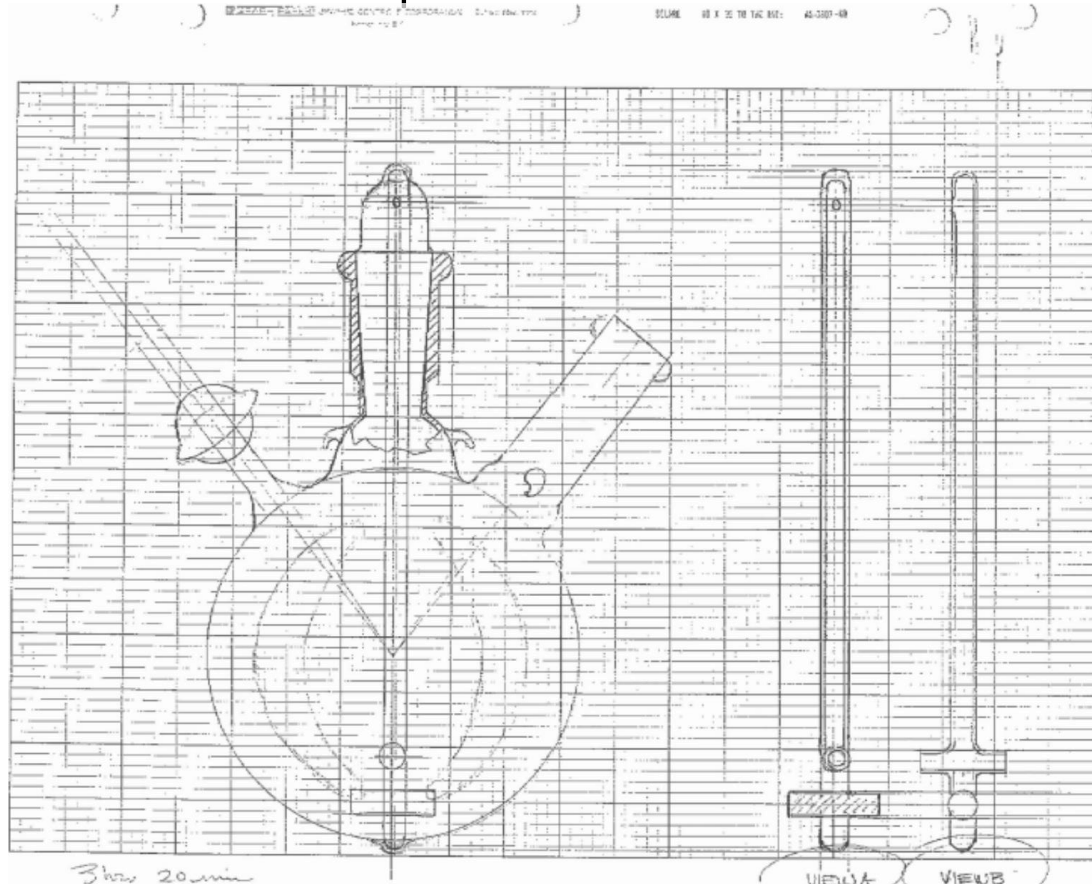


# Gas Circulation Apparatus

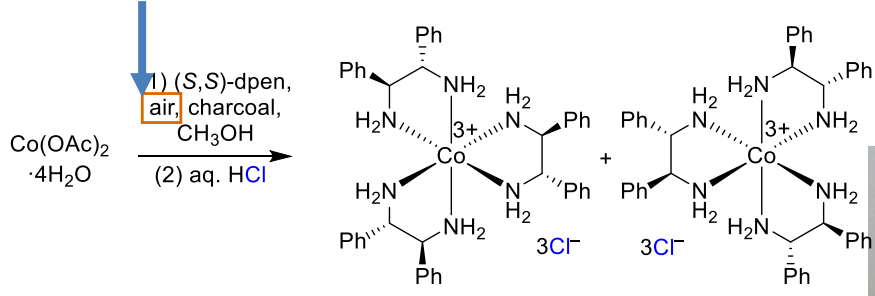
updated 2022-08



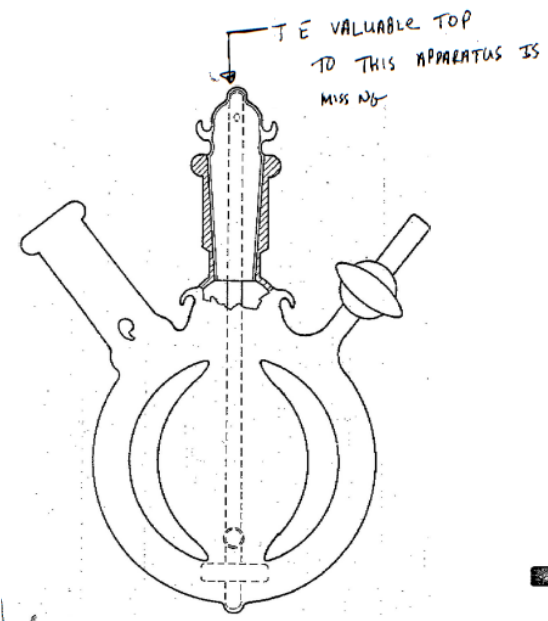
Aaron Wegener

# Gas Circulation Apparatus

- Incorporates a continuous stream of bubbles into a solution
- Mostly used 'open,' during the synthesis of cobalt(III) Werner complexes



- Other gases can be used via the stopcock/gas source



↑  
Gas inlet

# Gas Circulation Apparatus



- Make sure that all parts (flask, stirrer, and lid) are labeled with the same letter. This signifies that they all belong together.
- Once contents are in flask (may be easier to “pre-dissolve” to prevent contents burying the stirrer), make sure solvent level is above T-shape, begin stirring slowly, and ramp up to at least 500 rpm to induce bubbling of solvent in the flask.
- If apparatus is not stirring smoothly, one can wedge a Kimwipe or Teflon ring in between the stopper and flask to relieve pressure between the stopper and stirrer.
- Applying a small amount of silicone grease to the top of the stirrer and cap reduces noise

Video provided courtesy of Dr. William Maximuck

For repairs: take the broken flask  
and the blueprint to Bill Merka

*Thank you!*