



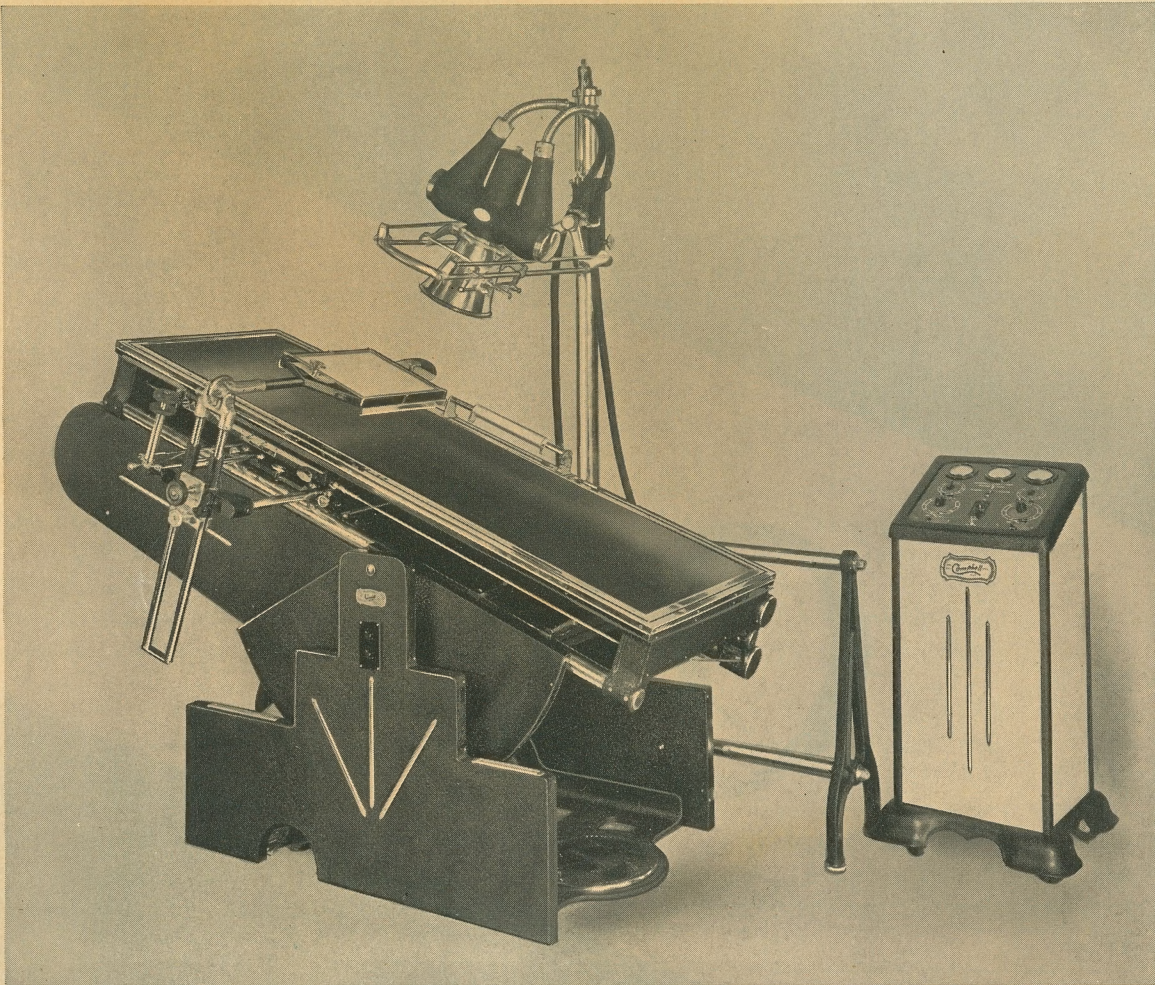
Medal of Honor
X-RAY APPARATUS

TRADE MARK
Clinix

Shock **T**UBE
ILT
ABLE Proof

COMPLETE DIAGNOSTIC X-RAY OUTFIT
FOR PHYSICIAN OR HOSPITAL

Clinix

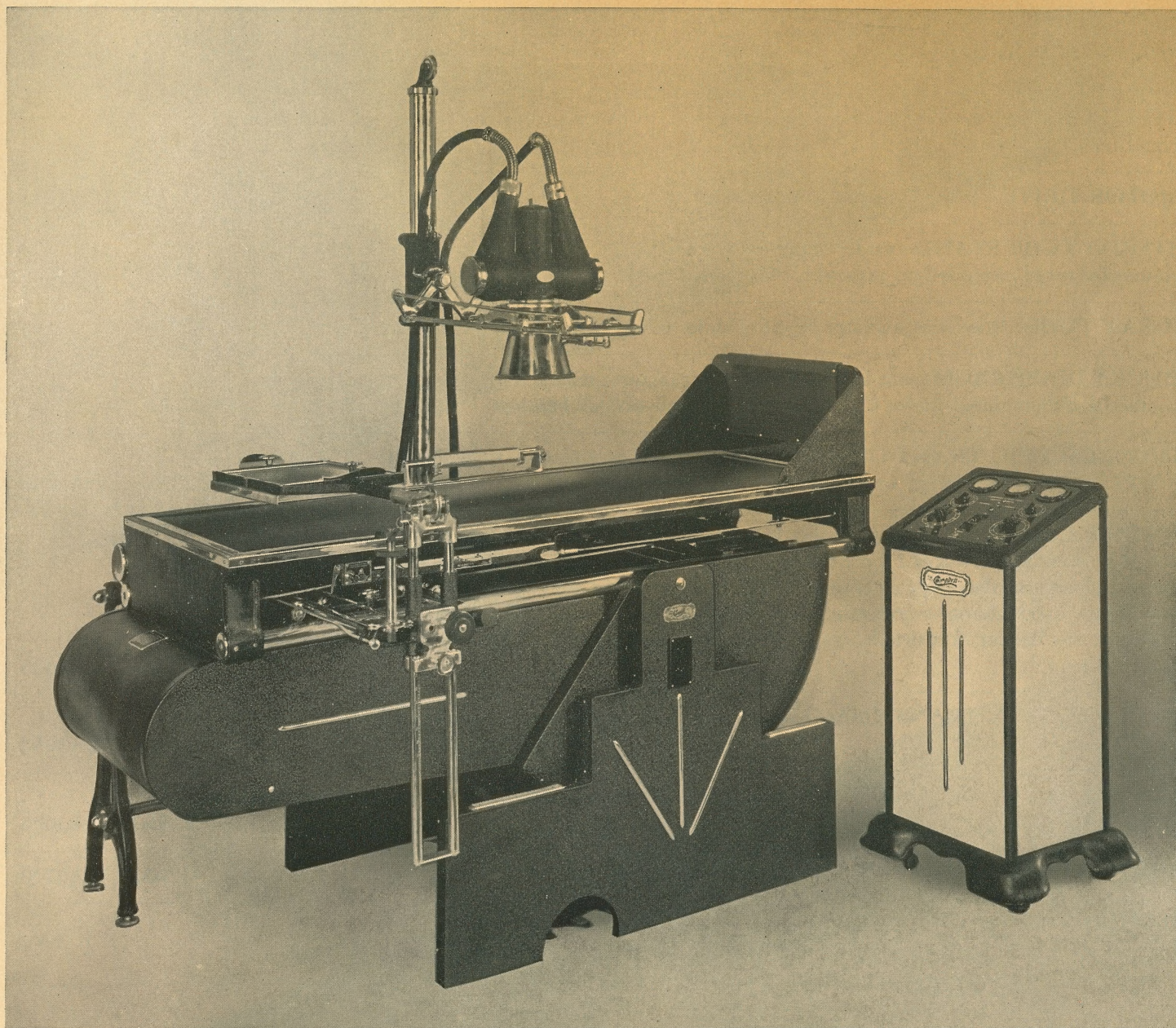


Tilts from Trendelenburg to Vertical with stops at all intermediate positions.

The FIRST practical tilting x-ray table was a Campbell, placed on the market about 25 years ago. The Campbell Clinix complete x-ray plant with self contained transformers, one on tube-stand and one attached to under side of table top, with motor drive, followed about five years later and was the fore-runner of present day self contained tilt table x-ray units.

Now after twenty years the Clinix type of diagnostic x-ray table is the accepted standard of construction.

Clinix



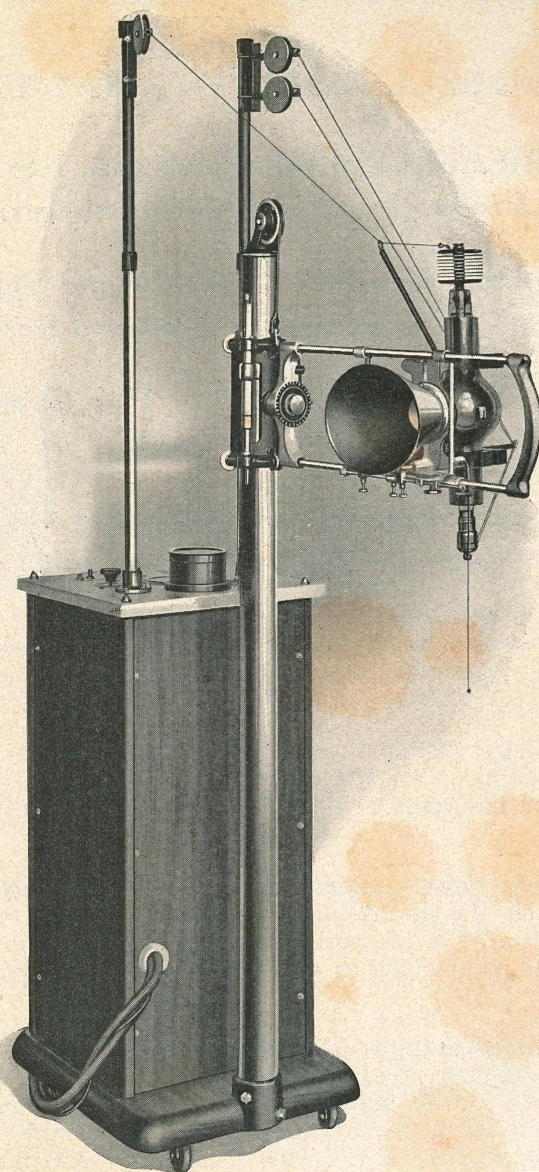
CAMPBELL CLINIX SHOCK-PROOF TUBE TILT TABLE.
A complete Diagnostic X-Ray Outfit.

The MODERN CLINIX — contains improvements of the past score of years, such as the double focus oil immersed shock proof line focus tube, electrically operated Bucky diaphragm, ultra brilliant fluoroscopic screen, button technique control in one K.V.P. steps, split second timer, increased transformer capacity, overload circuit breaker, relay contactor, quick change over switch from fluoroscopy to radiography, modernistic steel shock proof enclosures, baked crystal lacquer, bakelite and chromium finish and many other refinements.



ITEMS	Item Catalog Number	Assembly Catalog Number
TILT TABLE —for fluoroscopy, with turn table, ultra brilliant fluoroscopic screen and lead glass. Hand tilt	C1150	
MOTOR DRIVE —with wiring and control switches	C 250	CA1400
STEREO TUBE STAND —under slung truss type, for shock proof or non-shock proof tube, counterbalanced, mounted on rails with ball bearing rail castings, Bucky and rail locks	C 225	CA1625
X-RAY TUBE —line focus, radiator type for under or over table with lead glass shield	C 125	CA1750
BUCKY DIAPHRAGM —size 17" x 17" flat, with magnetic release, compression device, exposure contact and illuminated timing dial. Mounted in table on ball bearings	C 260	CA2010
FLUOROSCOPIC TRANSFORMER —for attachment to underside of table top— 30 M.A., 90 K.V.P. for either fluoroscopy or radiography with under tube	C 240	CA2250
MOBILE CONTROL —equipped with button technique auto transformer control in steps of 1 K.V.P. from 30 to 90 K.V.P., pre-reading voltmeter, pre-reading filament ammeter, milliamperemeter, filament regulators, relay contactor, combination main switch and overload circuit breaker, pilot lights, quick change switch from fluoroscopic to radiographic current, Bucky control button, exposure test button, footswitch, connecting cables and terminal board for adjusting to voltage of electric supply	C 375	CA2625
RADIOGRAPHIC TRANSFORMER —for shelf, floor or tubestand mounting. 100 M.A.—90 K.V.P.	C 425	CA3050
DOUBLE FOCUS SHOCK-PROOF X-RAY TUBE with grounded metal sheath shock-proof cables, focus changing switch and limit resistance	C 550	CA3600
SYNCHRONOUS MOTOR X-RAY TIMER —1/20 to 14 seconds	C 100	CA3700
CURRENT SUPPLY —200 to 250 v. 60 cy. If direct current only is available, a rotary converter is necessary, of capacity to suit the load.		

*Campbell
Coelidge
Clinical*
X-RAY UNIT



CAMPBELL CLINICAL X-RAY UNIT

*Cat. No. 12135
with Foot Switch*

CAMPBELL ELECTRIC MFG. COMPANY
LYNN, MASSACHUSETTS



CAMPBELL CLINICAL X-RAY UNIT

**3-inch gap, 1 to 30 milliamperes; 4-inch gap, 1 to 30 milliamperes;
5-inch gap, 1 to 30 milliamperes.**

**Ample capacity for all Radiography and Fluoroscopy.
Silent — Always ready — Uniform Results.**

**(Capacity — Any work within the range of 1 to 30 milliamperes with 3"
to 5" spark gap)**

**No Physician's, nor Hospital's equipment is complete without a
Campbell Clinical X-ray Unit.**

The greatest hindrance to more universal use of X-Ray has been the inability of the average operator to readily master the adjustment of the apparatus in order to obtain satisfactory results.

In the Campbell Coolidge Clinical X-Ray Unit the **Current** and **Voltage** (which regulate time of exposure and penetration) are **Fixed Quantities** instantly ready for use by pressure on the switch, and without the annoyance of the noise and adjustments of spark gaps, tube vacuum, etc.

The apparatus is especially constructed with sufficient capacity and suitable regulation for operation of either the ten milliamperes or thirty milliamperes Coolidge Radiator self-rectifying X-Ray tube with a 3" to 5" spark gap, which is sufficient to radiograph or fluoroscope any part of the body, thus approaching as nearly as possible all the advantages of the SureX interrupterless transformer.

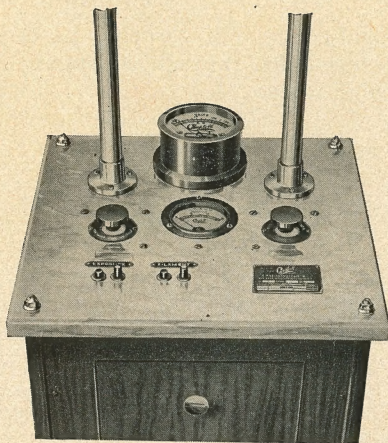
One of the principal advantages of this apparatus, which is fully covered by U. S. Patents, is that by slight adjustment of the voltage and current regulators the current may be changed to any volume from 1 to 30 milliamperes at a 3", 4" or 5" gap, always maintaining the selected voltage at the tube terminals regardless of the load which in the ordinary apparatus would cause fluctuation in the penetrative value of the X-Rays, uniform maintenance of which is so necessary in order to establish the exposure technique which in results marks the difference between the expert Roentgenologist and the one who is rated as of mediocre attainment.

This equipment in connection with Eastman Dupli-Tized films and double intensifying screens, one on either side of the film, will produce wonderfully rapid work. For Dental and the majority of other work, no screen is needed.

The entire apparatus is one complete unit easily moved about and is instantly ready for use by connection to the ordinary electric light circuit for use with ten milliamperes in the tube, but for use of the thirty milliamperes tube it is advisable to connect to a special circuit of No. 6 or 8 wire on account of fire underwriters' regulations relative to carrying capacities of wiring circuits,



The whole outfit is the evolution of many years of combined research work, and is a model of efficiency, beauty and durability such only as this company of twenty years' experience in the manufacture of all kinds of X-Ray apparatus for the physician, dentist and hospital will offer to the profession.



The Control Board

SPECIFICATIONS

Cabinet. Fireproof, entirely of metal, beautifully finished, with black bakelite top, polished nickel trimmed. All parts of cabinet are interchangeable so that in case of injury a new panel, corner, base, or bakelite top may be quickly replaced without expense of an entire cabinet. This method of construction allows the ready removal of all four side panels, thus leaving all internal parts of the apparatus easily accessible, very rigid, and absolutely fireproof.

Equipped with ball-bearing casters attached to the cast base.

The regular finish is Mahogany or black.

Control Board. Black Bakelite equipped with spark-meter; milliamperemeter; spark regulator; filament regulator; auto transformer control; high tension masts with grounded metal casings; filament switch and main switch.

High Tension Transformer. Secondary 65,000 volts. Closed core, compensated type, oil insulation, metal tank. Sufficient capacity to deliver 1 to 30 milliamperes to the X-Ray tube with 3" to 5" gap.

Filament Transformer. A separate transformer mounted in same case with high tension transformer. Oil insulated. Stabilized.

Auto Transformers. Compensates for difference in line voltage, with adjustments 3" to 5" spark in $\frac{1}{4}$ " steps.

Control. Voltage and volume are simultaneously regulated by turning a regulator handle located on Control Board. This method of control compensates for rise and fall in line voltage and consequent fluctuation of penetrative value of the X-Rays. Filament current may also be very finely controlled by turning a regulator handle on front panel of cabinet. Auto Transformer is adjusted by Voltage Regulator on control board. By adjusting this regulator until the spark meter reads properly, the spark gap desired is assured with any load, if line capacity is sufficient. Lack of line capacity may be quickly determined by noting whether or not sparkmeter indicates drop in line voltage when load is turned on.

Reels. For Connecting Wires. Self-Winding, mounted on high tension masts.

Hand Timer. Standard 0-12 Second Type with Circuit Breaker.

Current Required. Operates on alternating current of from 100 to 120 volts, 40 to 60 cycles, 6 to 35 amperes, according to current used in tube. Also on direct current by addition of rotary converter mounted in bottom of cabinet for the ten milliampere tube. For the thirty milliampere tube, it is necessary to mount the converter, on account of its large size, separate from the cabinet.



Tube Stand. Counterweighted. Wide range of adjustment of tube, vertical and horizontal. Highly finished in polished nickel plate. Mounted in heavy cast base of cabinet.

Protection from X-Ray. The standard and approved Coolidge special heavy glass tube shield completely enclosing tube. Made of lead glass equivalent in protection to approximately 1/16" metallic lead.

Protection to Apparatus, Patients and Operator. No exposed current carrying parts on Control Board. Mica High Tension Masts with Metal casings grounded through resistance. Standard approved cut-out in bottom section of cabinet with cartridge fuses.

Tube. Self-rectifying Coolidge Radiator type, either the ten or thirty milliamperes.

Patents. This apparatus is protected by U. S. patents issued December 19, 1911, April 22, 1912, and August 7, 1917. Other patents are pending.

Circuit Breaker. Oil insulated, Positive type.

OUTFIT COMPLETE

Cat. No.

12130 TRANSFORMER. A.C., 110 Volt, 60 Cycles, including Cabinet, Transformers, Regulators, Meters, etc., No. 12131.

12132 TUBE STAND. Counterweighted.

12119 HAND TIMER. 0-12 Second range.

12110 CIRCUIT BREAKER. Oil insulated.

12125 GLASS SHIELD. Lead protective.

12112 COOLIDGE TUBE. Radiator Type.

12107 FOOT SWITCH. Positive Type.

12136 Outfit Complete, Boxed for Shipment. As listed above.

Prices Quoted on Request

Special Finishes Extra

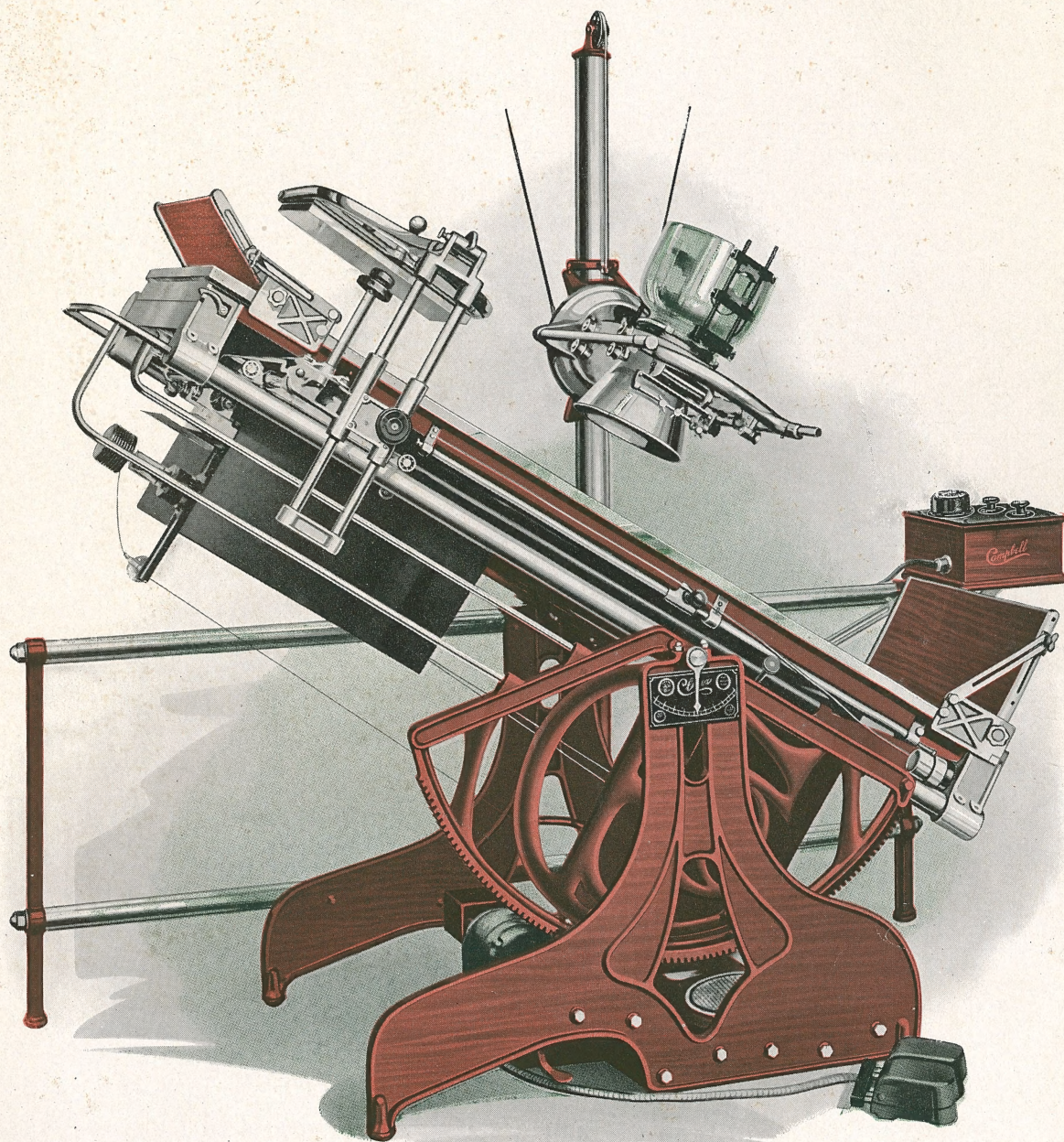
Manufactured by

CAMPBELL ELECTRIC MFG. COMPANY

LYNN, MASSACHUSETTS



TRADE MARK
Clinix



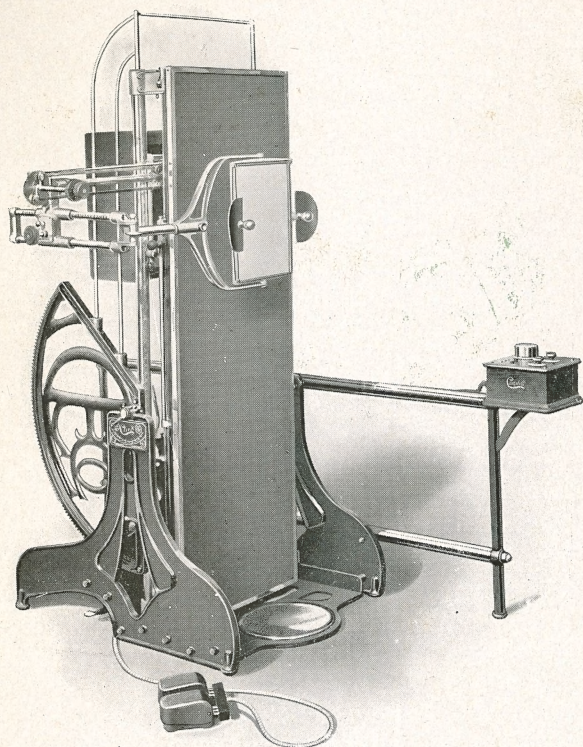
Campbell "Clinix" X-ray Plant

Tube Tilt Table. Motor Driven. Transformer attached to under side of table.
Also furnished with Transformer mounted on top of Tube Stand.
Both High Tension Transformers operated by the one Auto Transformer Control Case.
1 to 30 Milliampères, 2 to 5-inch Spark Gap.

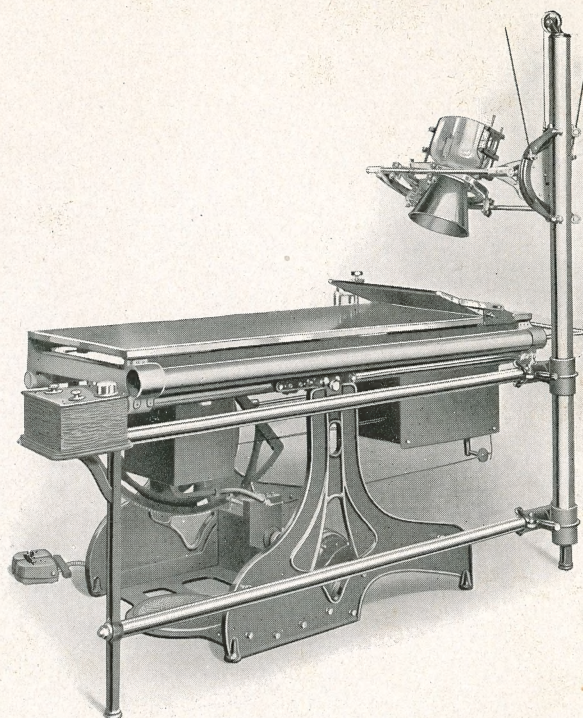
U. S. Patents
December 19, 1911; April 22, 1913; February 29, 1916;
August 7, 1917. Foreign Patents.
Other Patents Pending.

Cat. No. 2087

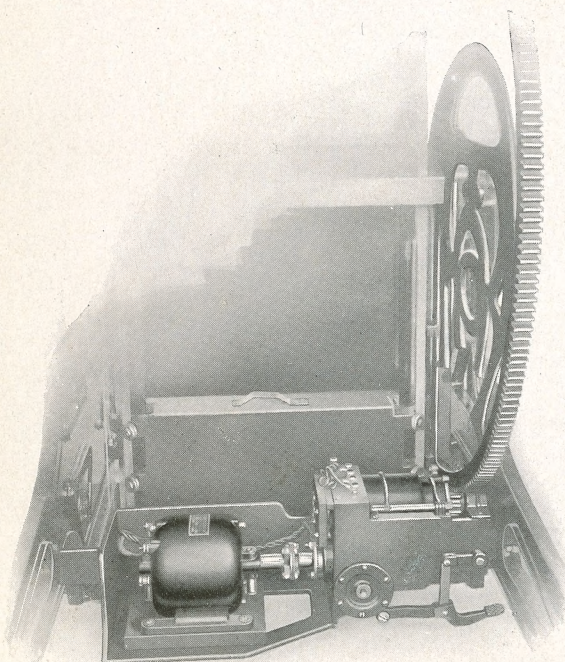
CLINIX



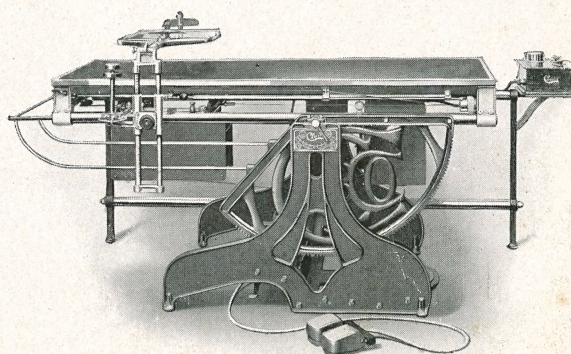
CLINIX IN VERTICAL POSITION



CLINIX IN HORIZONTAL POSITION
Rear view showing Transformer and Connections



CLINIX MOTOR DRIVE AND TRANSMISSION



CLINIX IN HORIZONTAL POSITION
Operating Side