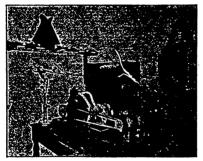
Scientific Discovery and modern invention.

HOW ELECTRICITY IS BEING ADAPTED TO SURGICAL AND OTHER HOSPITAL USES.

D URING the year St. Luke's Hospital, of New York, has moved into new quarters on Morningsido Heights. The building is constructed with all the recognized improvements for the best and safest treatment of hospital patients. The electric plant is of interest Lecause of the special nature of some of its departments.

The lighting plant itself is located in a separate power-station structure, and six electric elevators in the buildings, of the Ons type, and twelve large electrically driven ventilating fans. Besides these there are motors for driving the pipe organ bellows, and for other minor uses throughout the hospital. The switchboard provides for running

The switchboard provides for running the lights and motors in multiple or independently, as desired. There are two sets of bus bars, to either of which any machine ,can be connected by double-



X-RAY OUTFIT.

consists of four direct-connected units, the dynamos being 50-kr General Electro multipolar conspound-wound machines. The engines are of horizontal high-liped type, three of these tool the second second second second low Works. They all run at 230 rowlutions per minute. The engines are set at the four corners of a sput nat 230 rowdynamos all facing the inside of the square. Steam is supplied to the engines at 100 pounds prosenue by three return. These on its supplied to some 5500 liphts and many motorslocated throughout the different buildings. There are not the different buildings. There are throw machine switches at the bottom of the board. One large double-pole sangle-throw switch in the centre of the board throws these two exists of bus harr in multiple at will. In the daytime, with the board had in multiple one machine. At night, when the load is sufficient to tax soveral machines, this main switch is opened, and the moter load is separated from the lighting load. This gives closer regulation on the lighting circuits. The switchhoad is proinstruments in a row at the loop of the board. Three of these instruments are