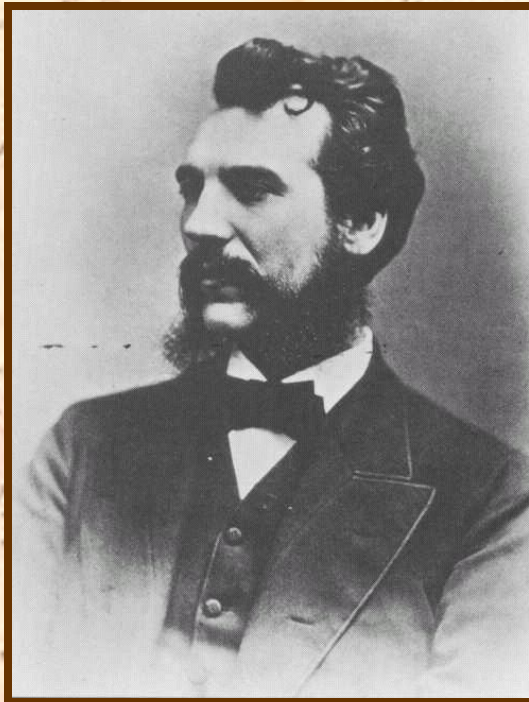
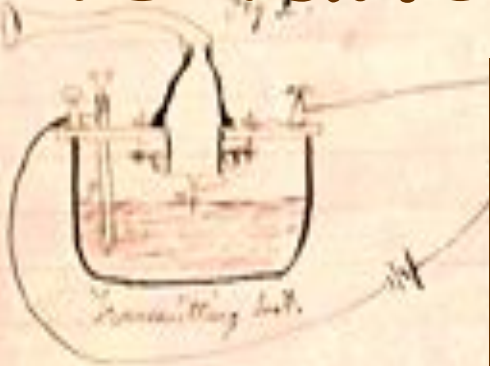


Alexander Graham Bell



Inventor of the Telephone

1. The improved instrument shown constructed this morning and used P in a brass pipe and W the M the mouth piece and S the Receiving Instrument.

Mr. Watson was stationed with the Receiving Instrument. He pressed his ear closely against S and closed his other ear with his hand. This instrument was placed in a chamber room and the doors of both rooms were closed.

I then blurted into M the following sentence: "Mr. Watson - Come here - I want to

see you" To my delight he came and declared I had said "Mr. Watson - Come here - I want to see you" I asked him to repeat the words - He said "You said 'Mr. Watson - come here - see you'" Mr. Watson changed and I listened at S while Mr. Watson read a passage from a book into the ear M. It was certainly the case late sounds proceeded from S. The sound but indistinct and muffled: I read beforehand the passage given to him I should have recognized it. As it was I could not hear it - but on occasions the words were quite distinct. I heard at "to and out" and "farther" and finally the sentence "Mr. Bell - Do you hear?" The words "Mr. Bell - Do you hear?" came quite clearly and intelligibly. He heard me audible when the armature S was removed.

Alexander Graham Bell

*Born: March 3, 1847

- Alexander Graham Bell designed the telephone in 1876.
- He wanted a faster way to talk to others who were not nearby.
- His success allowed for all people to communicate quickly!



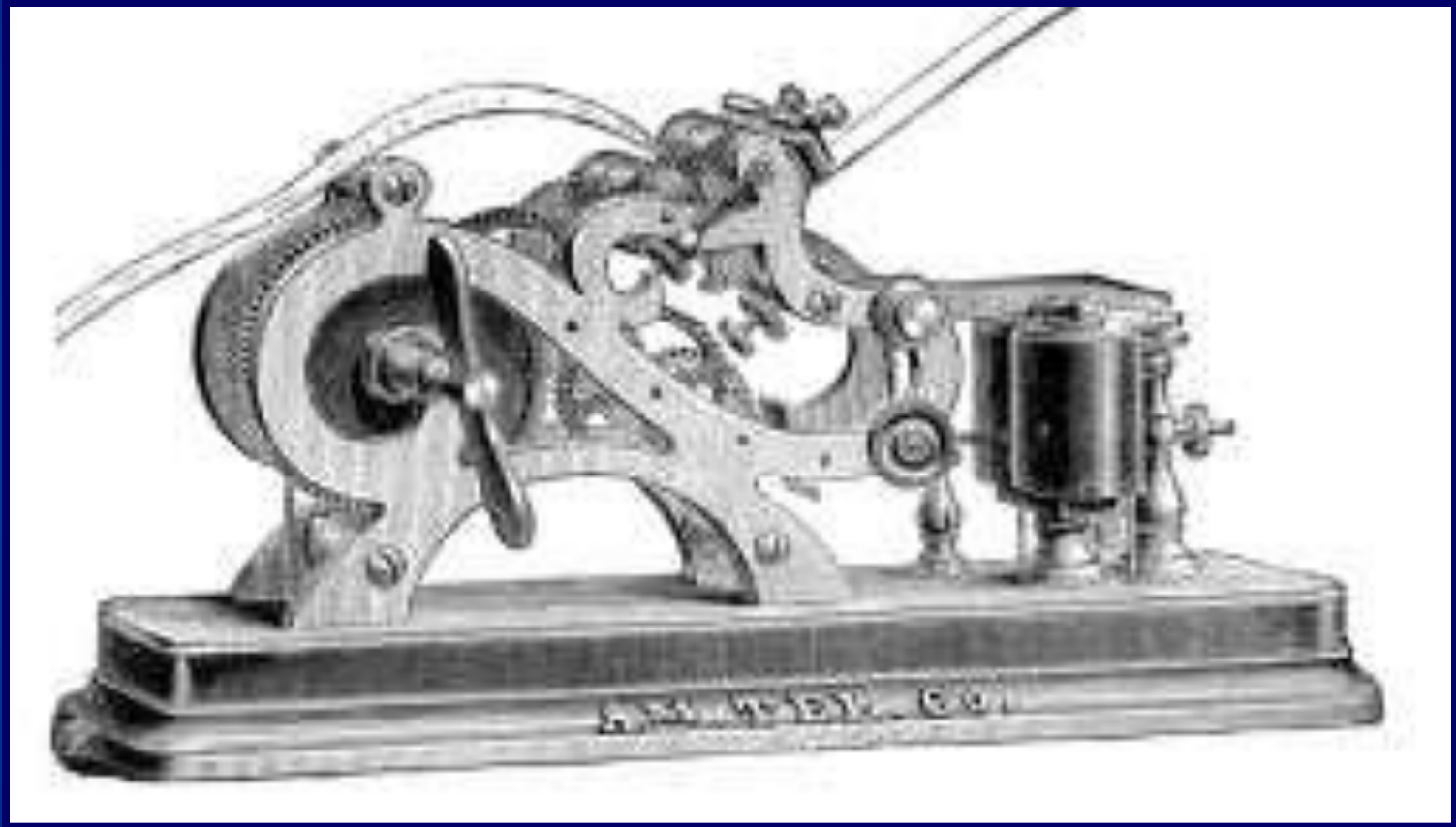
Herman von Helmholtz

Bell read books in the library about Herman von Helmholtz, a German scientist who experimented with electrical vibrations to make vowel sounds.



He researched his experiments so that someday he might be able to reconstruct them in his own home.

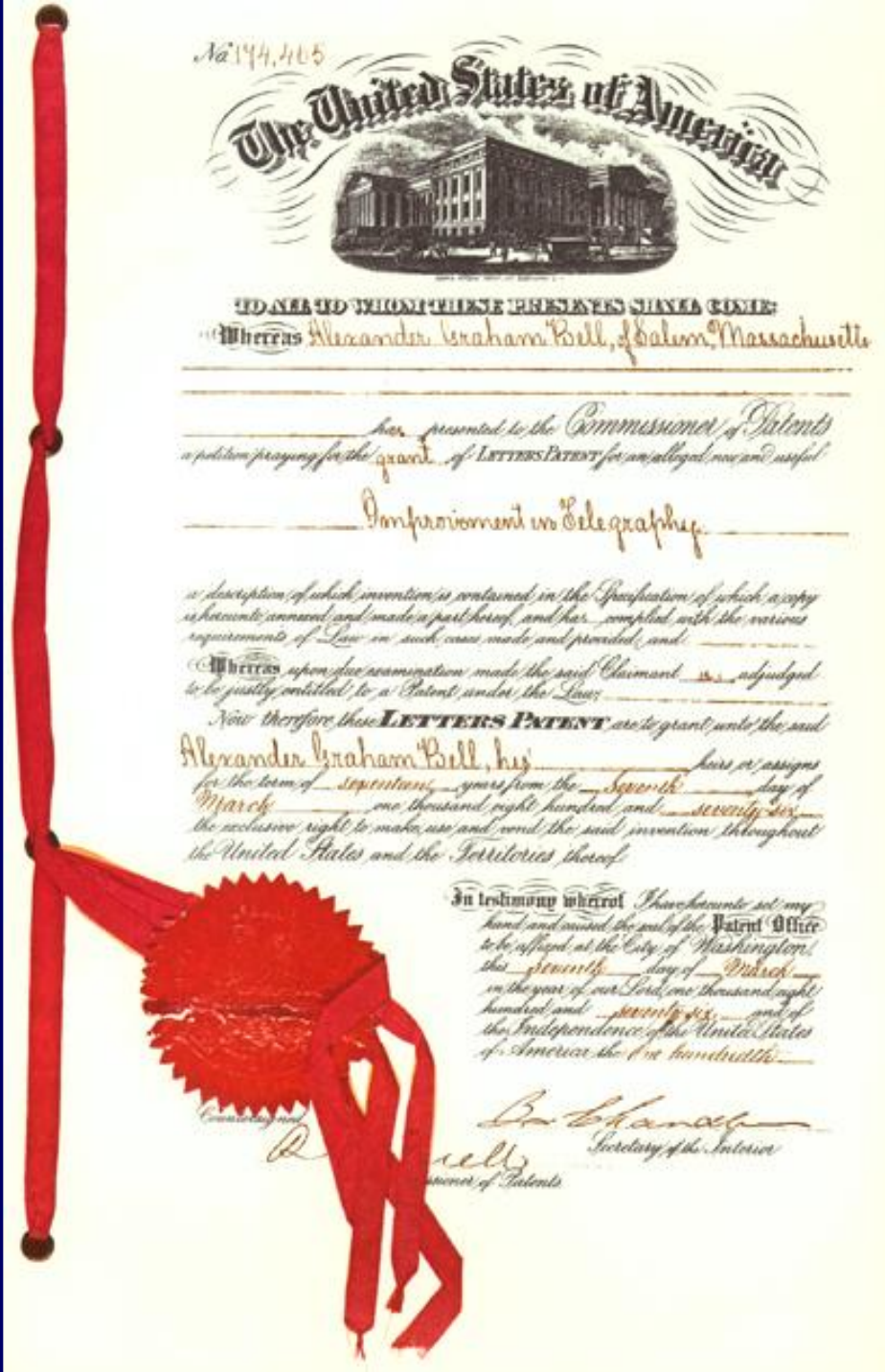
Boston University



While Bell was in Massachusetts, he invented the harmonic telegraph, an instrument that makes it possible to send multiple telegraphs on one line.

The Telephone is Patented

On March 7, 1876,
Bell received his
patent for the
telephone.



No 144,465



TO ALL WHOM THESE PRESENTS SHALL COME:

Whereas Alexander Graham Bell, of Salem, Massachusetts

has presented to the Commissioner of Patents
a petition praying for the grant of LETTERS PATENT for an alleged new and useful

Improvement in Telegraphy.

a description of which invention is contained in the Specification of which a copy
is herewith annexed and made a part hereof, and has complied with the various
requirements of Law in such cases made and provided, and

Whereas upon due examination made the said Claimant was adjudged
to be justly entitled to a Patent under the Law;

Now therefore these **LETTERS PATENT** are to grant unto the said
Alexander Graham Bell, his heirs or assigns
for the term of seventy years from the seventh day of
March one thousand eight hundred and seventy six
the exclusive right to make, use and vend the said invention throughout
the United States and the Territories thereof.

In testimony whereof I have hereunto set my
hand and caused the seal of the Patent Office
to be affixed at the City of Washington,
this seventh day of March
in the year of our Lord one thousand eight
hundred and seventy six and of
the Independence of the United States
of America the first hundredth.

(Commissioner)
(Secretary)
Secretary of the Interior
Commissioner of Patents

“Mr. Watson, come here, I want you.”



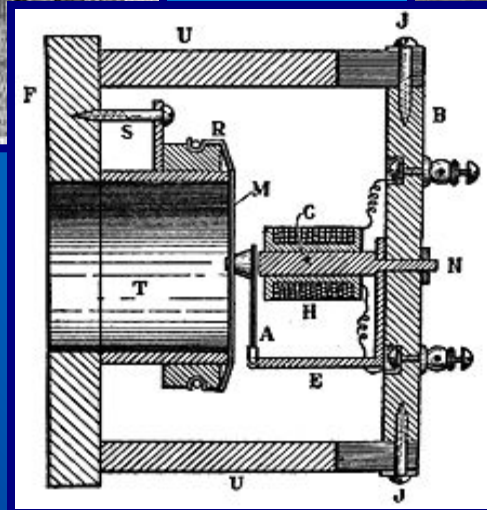
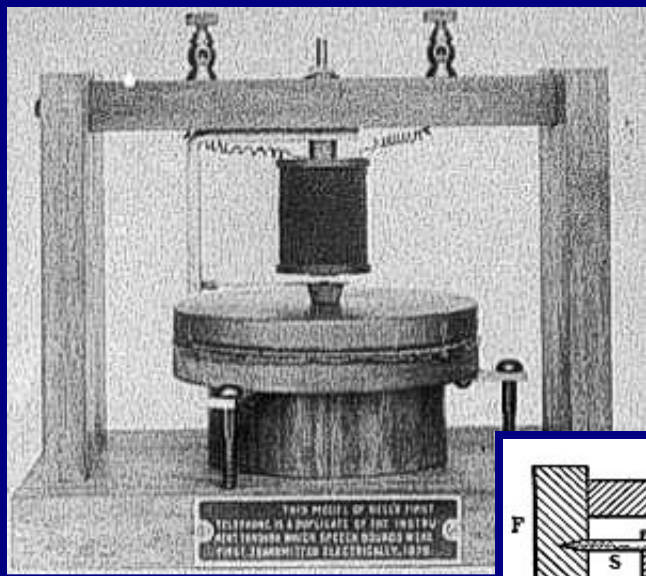
On March 10, 1876, Alexander Graham Bell was in his testing room with his partner, Watson.

Reeds



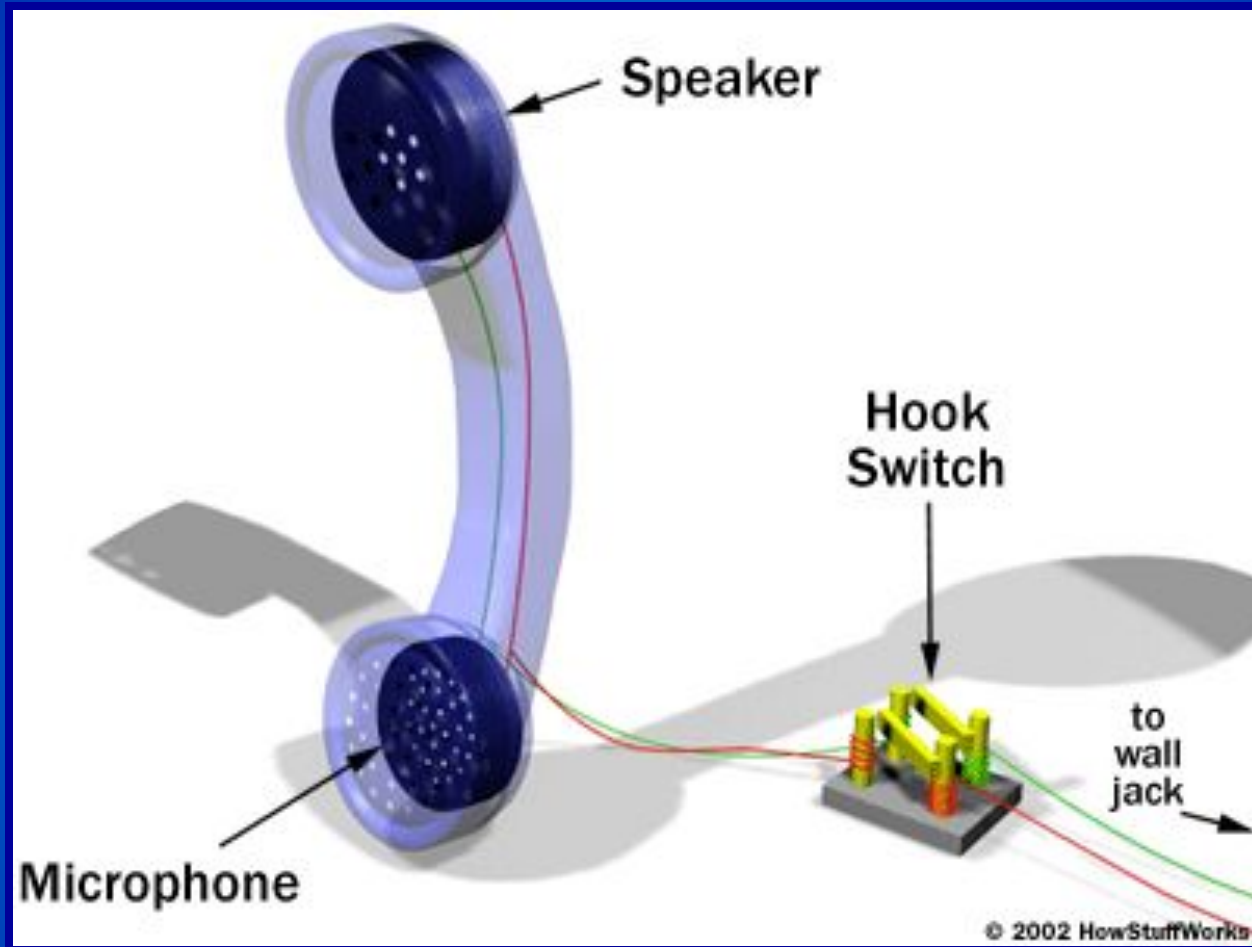
The experiment they were working with had reeds that were thin and steel. One of the reeds was stuck so Watson plucked it to try to fix it.

Successful!



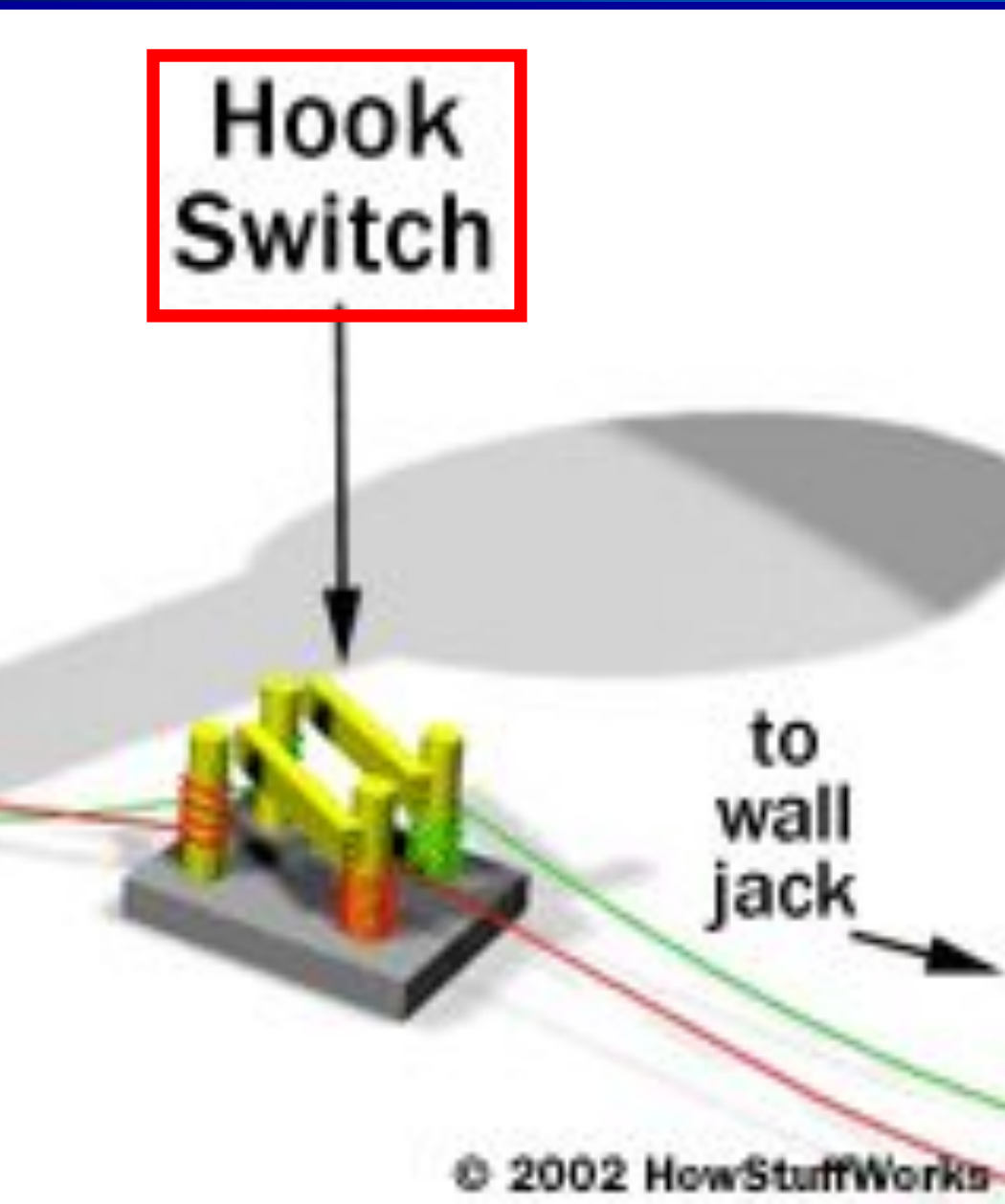
When he did, Graham heard the vibration clearly through the newly invented 'telephone'.

The Simple Telephone



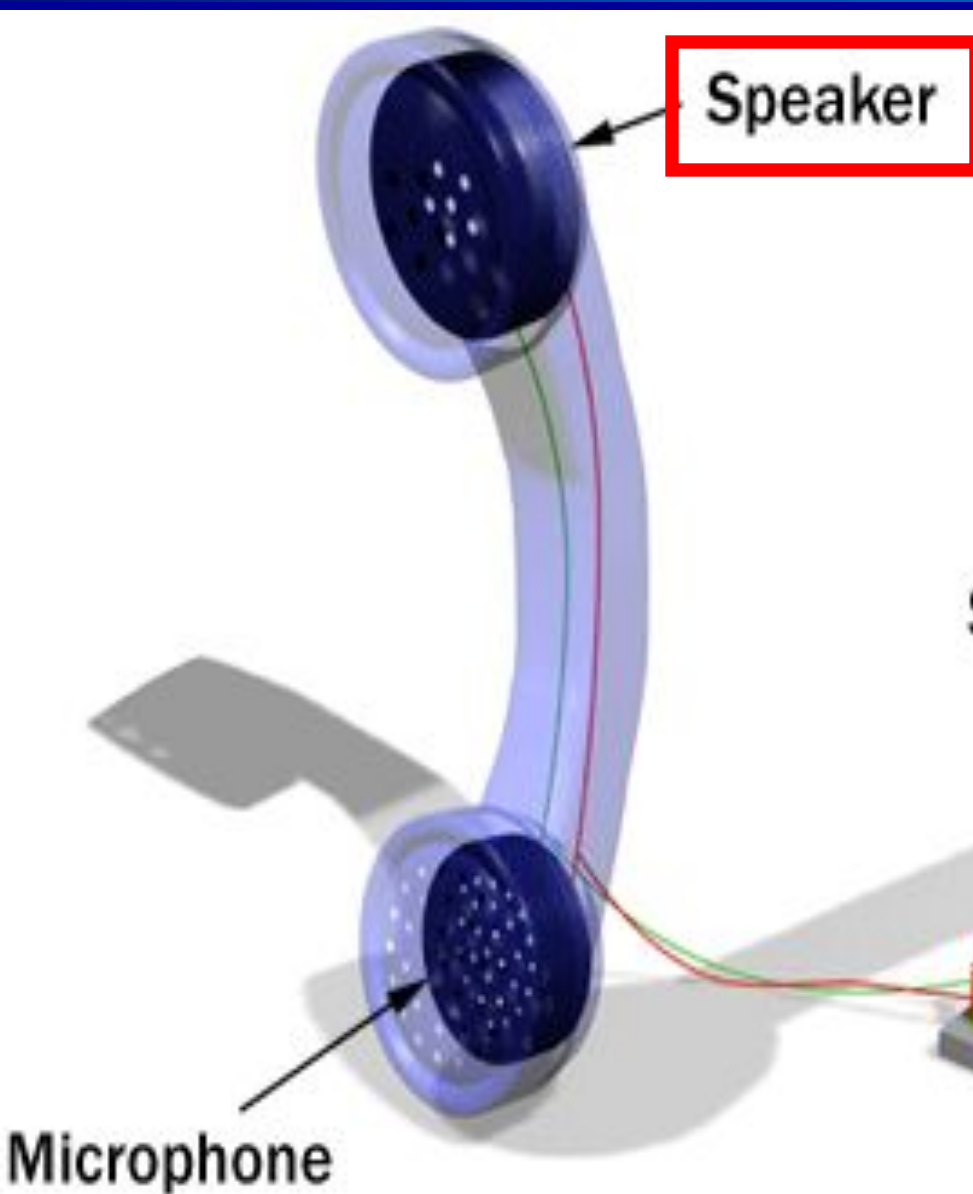
There are three parts to the simple telephone. The Speaker, the Microphone and the Switch, also known as the Hook Switch.

The Hook Switch



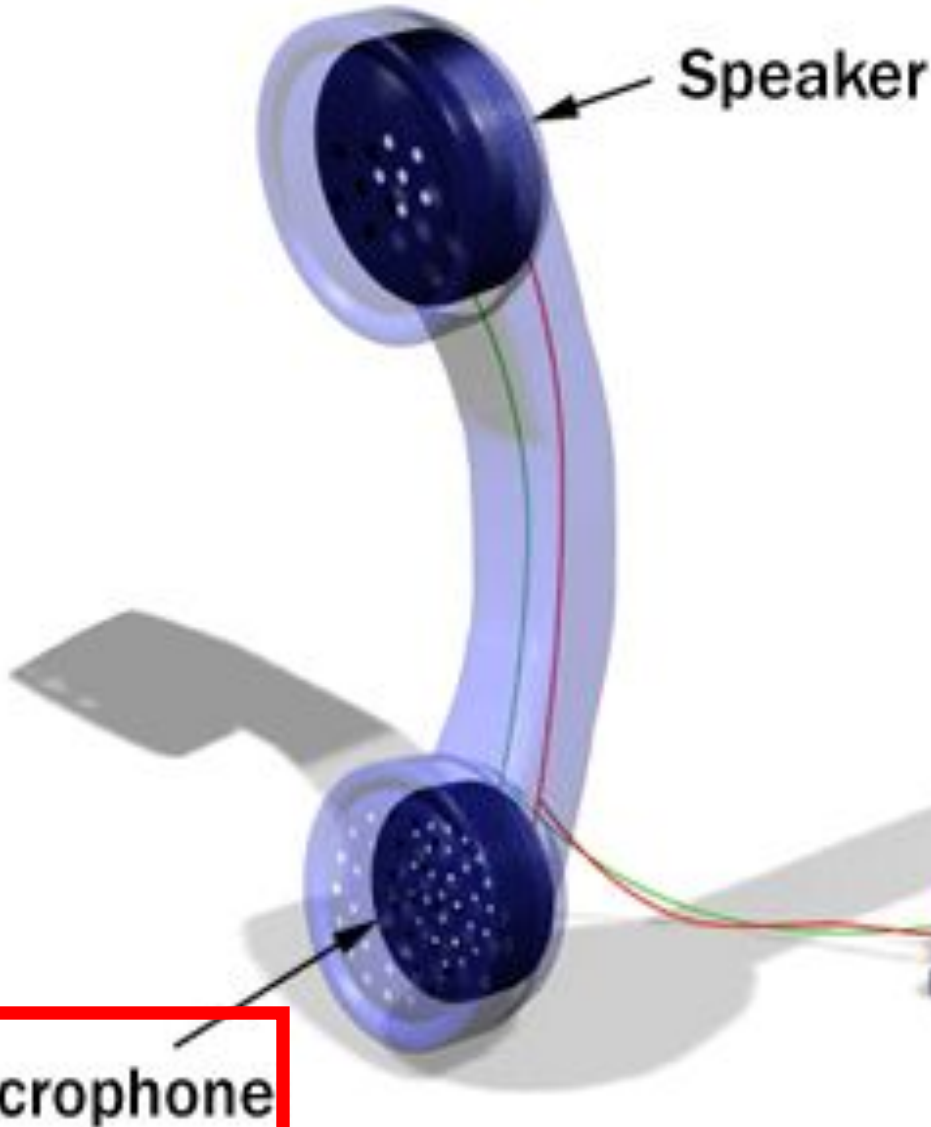
The Hook Switch connects and disconnects the phone from the telephone network. The network is connected when you pick up the phone.

The Speaker



The speaker picks up the sound waves from the other line, and sends them through the network to your ear drums. The sound vibrates in your ear, and you then have sound.

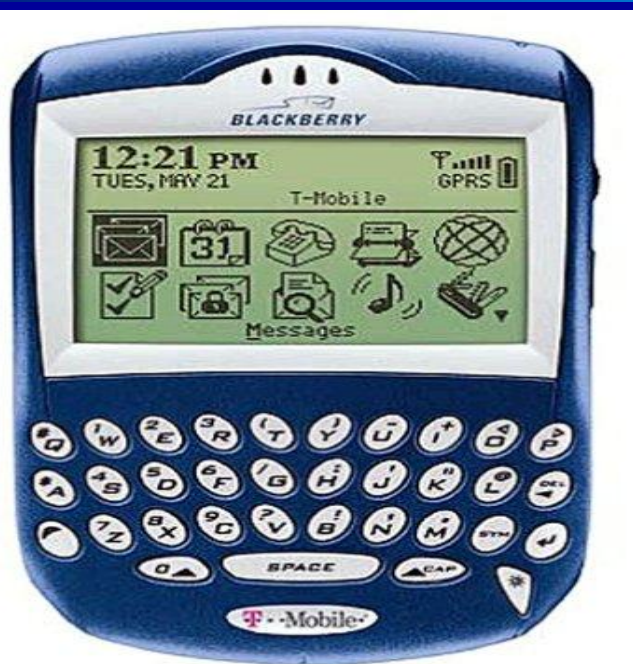
The Microphone

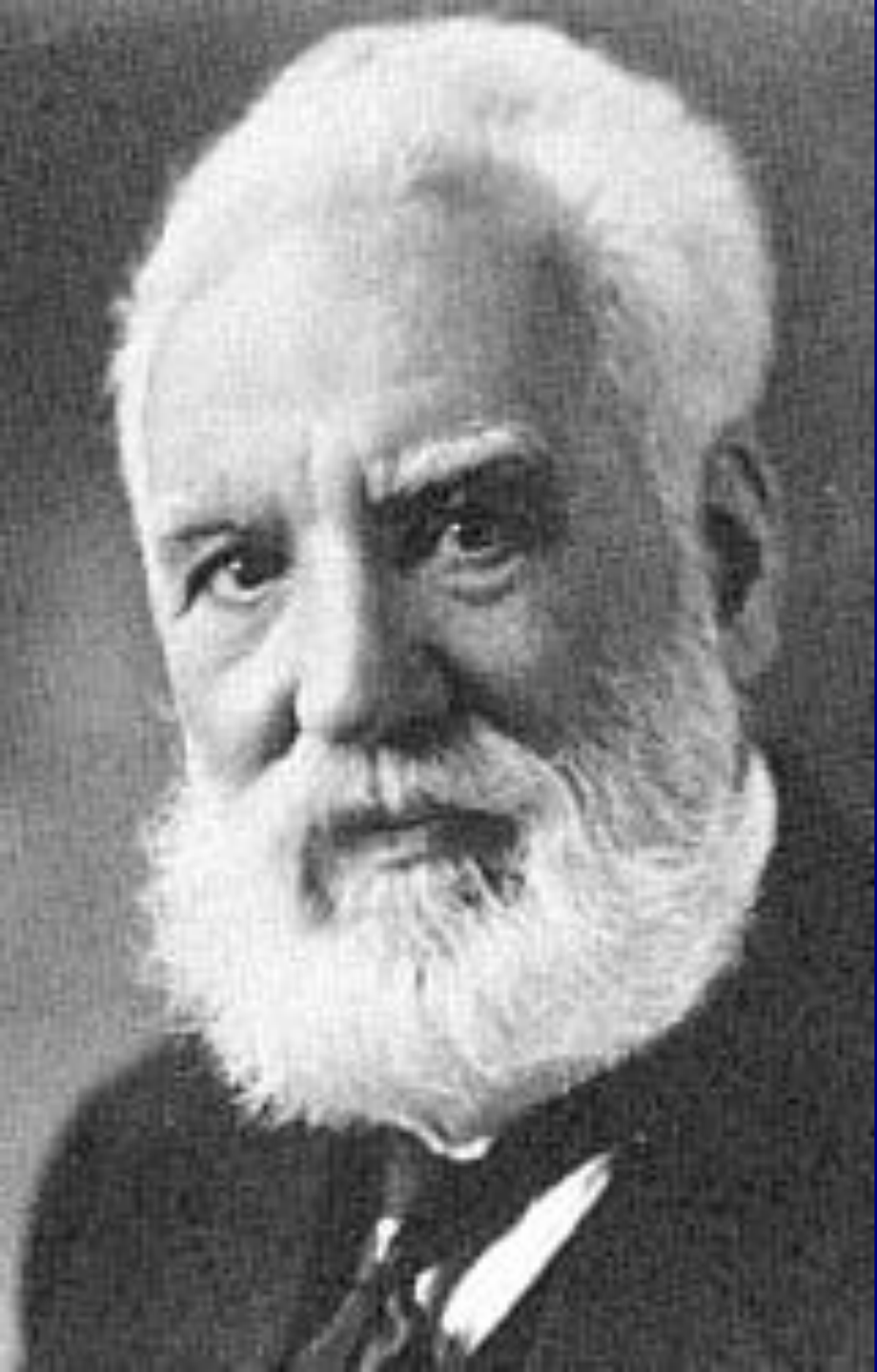


The microphone has a diaphragm where the sound waves vibrate the area. The amplifier, a small part of the telephone then sends it through to the other line's speaker, reinterpreting the sound into physical vibrations.

The Telephone Today

Today, phones have been able to get even smaller and even have no cords. In the bottom left, there is a palm pilot that can also be used at a phone. The telephone is a unique piece of equipment. No one can imagine our world without it.





A Sad day in History

On August 2, 1922, Alexander Graham Bell died at his home in Baddeck Nova Scotia.



**Alexander Graham Bell, inventor
of the telephone**

