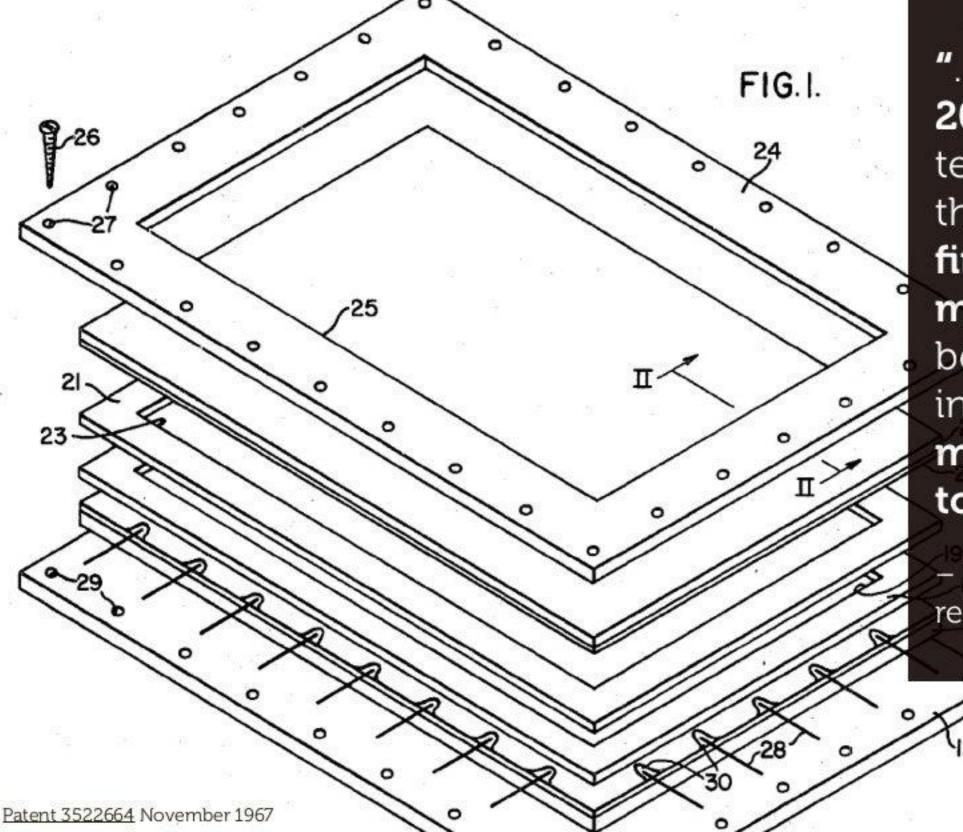


http://www.flickr.com/photos/ssoosay/4128397609/

INTERFACE DEVICE AND DISPLAY SYSTEM

Filed Nov. 20, 1967



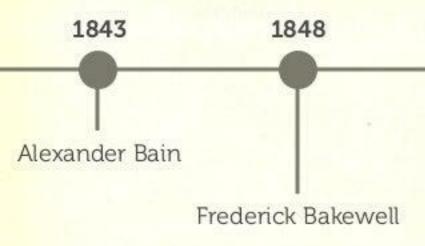
"...it takes on average 20 years for a technology to make the transition from first articulation to maturity (defined as becoming a \$1billion industry)...the mouse, for example, took 30 years."

Bill Buxton, Principle researcher Microsoft

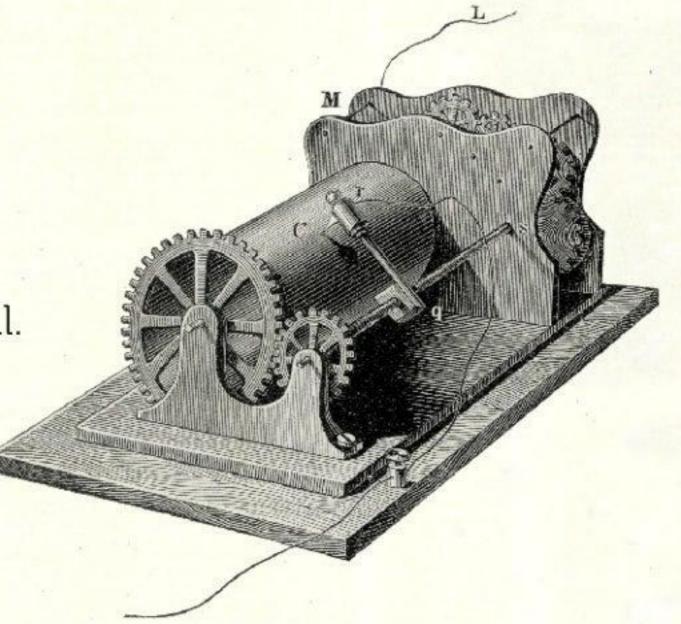




(image shown is of an 1850 iteration)



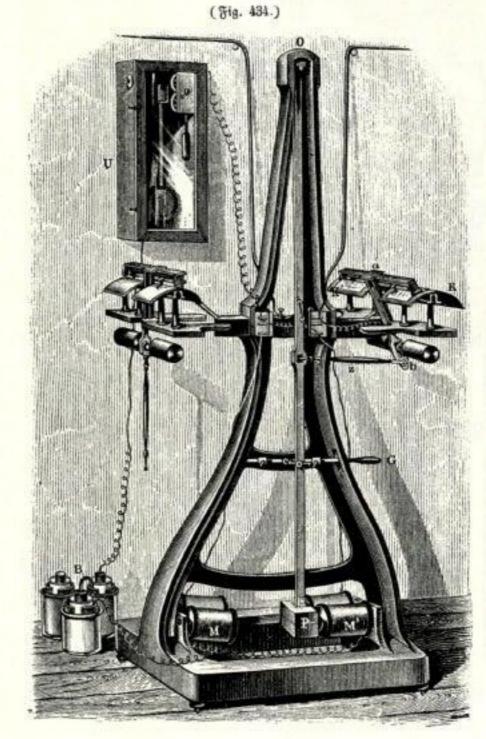
...then **improved on** (and patented once again) in 1848 by Frederick Bakewell.



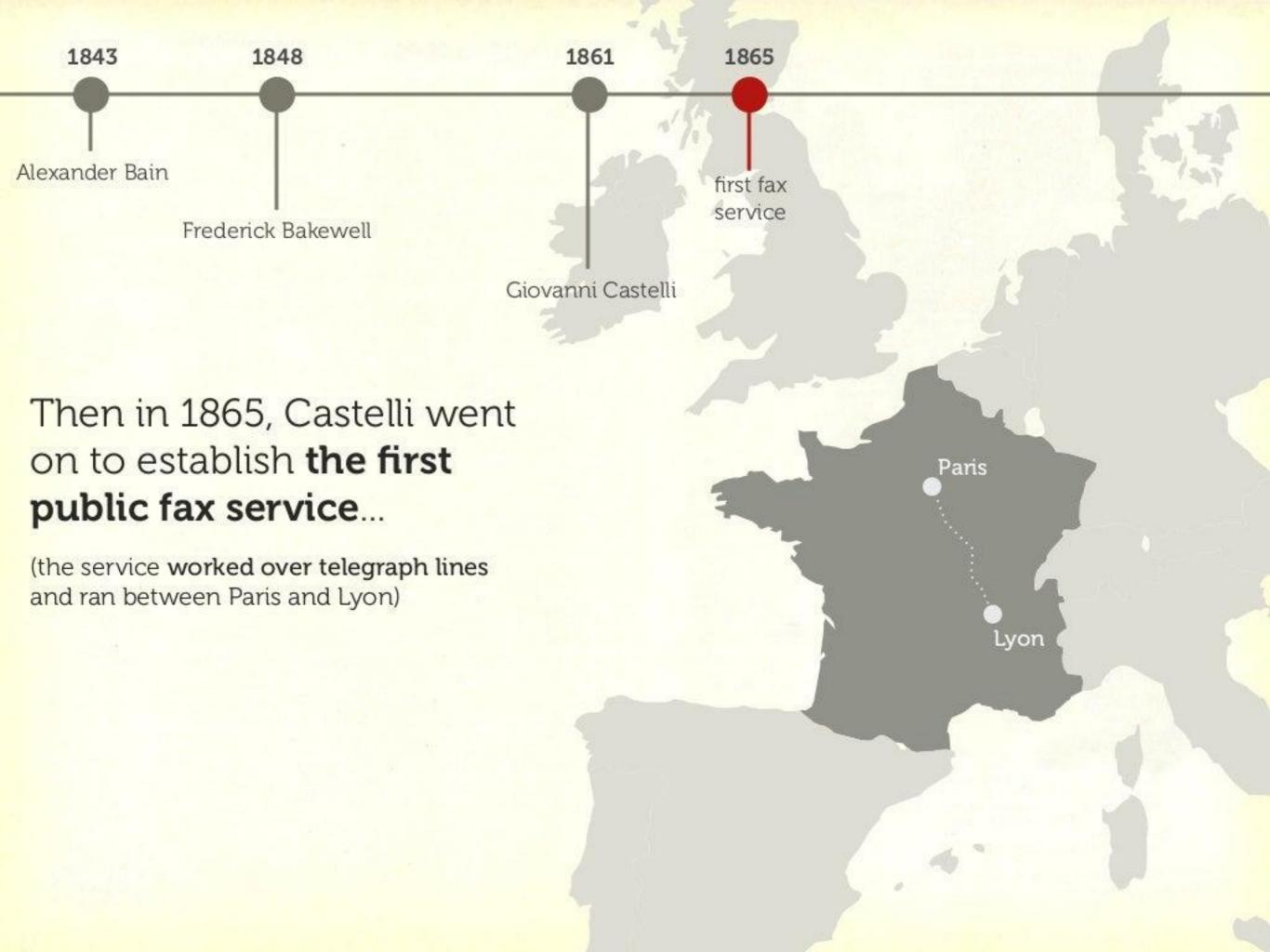
Bakewell, E. P. 12352, 2, 12, 1848

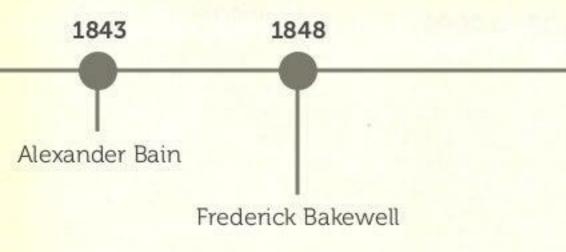
Then **improved on** once again

13 years later, this time by
Giovanni Castelli, an Italian priest...



Castelli's pantelegraph

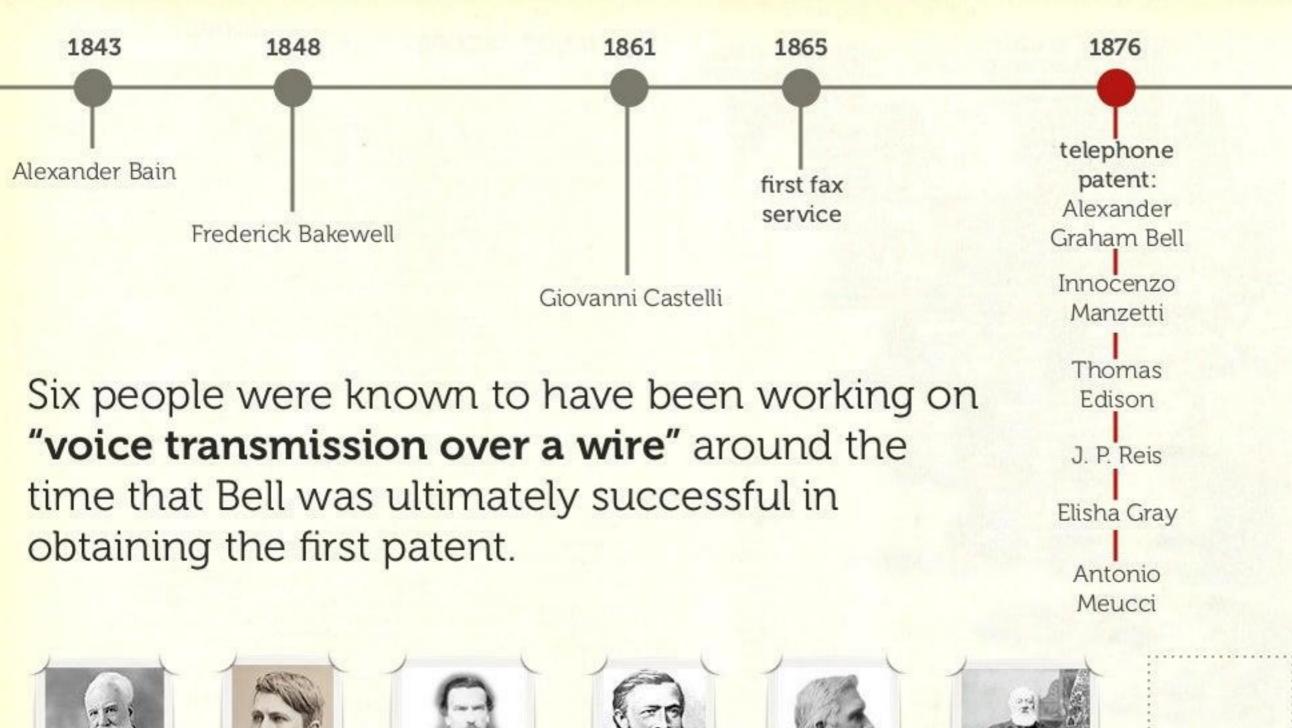


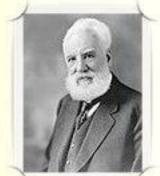


...this was still **11 years before** the invention of the telephone...

(this isn't unusual—we don't always know the true value of a technology until a related one comes along)







Alexander Graham Bell



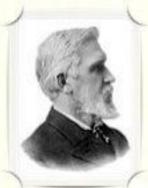
Thomas



Innocenzo Manzetti



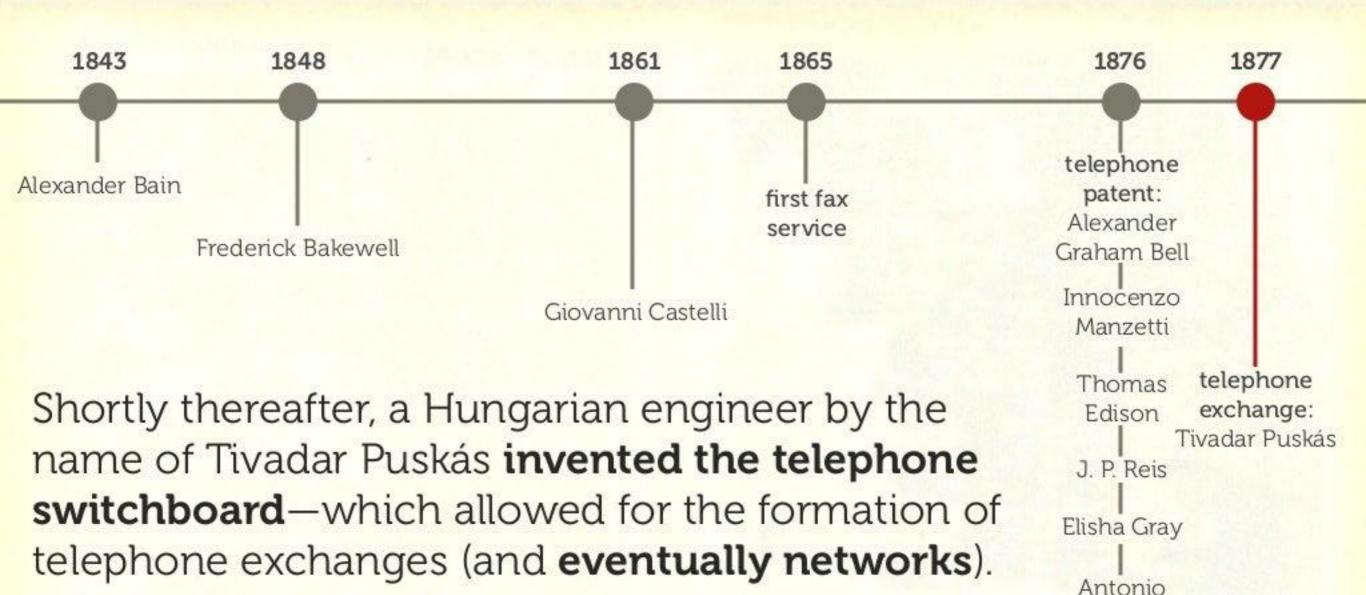
Johann Phillip Reis

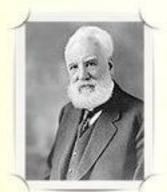


Elisha Gray



Antonio Meucci





Alexander Graham Bell



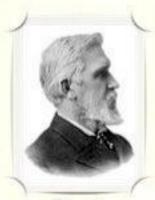
Thomas



Innocenzo Manzetti



Johann Phillip Reis



Elisha Gray



Meucci

antonio Meucci



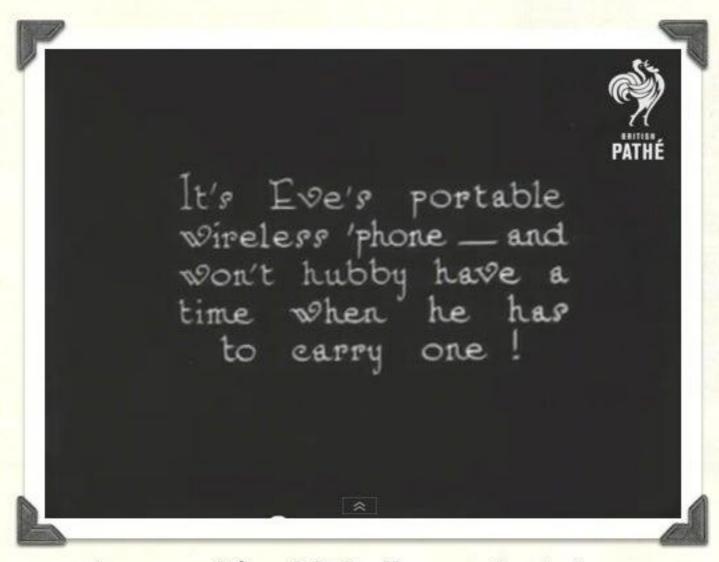
Tivadar Puskás



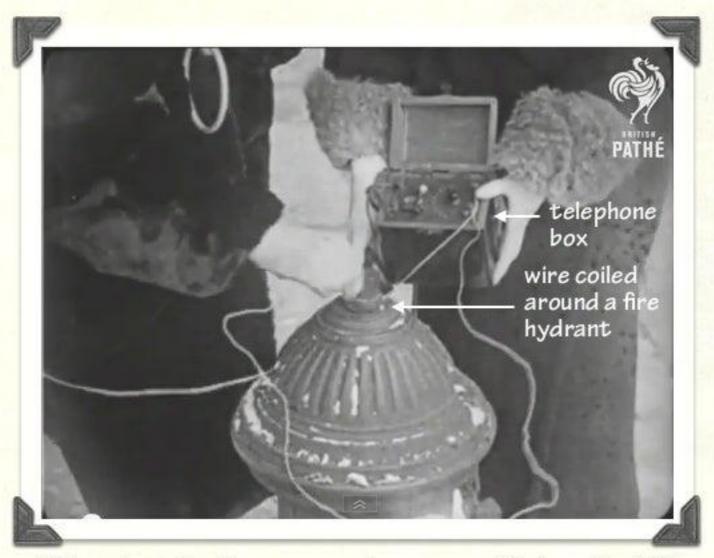
an example from the early **1920s** 



A wireless phone prototype for the wellto-do lady on the town...



...of course it's a bit bulky, so the lady may need a gentleman to carry it...



"The two ladies are using a small simple HF radio, probably a 'Cat's Whisker' type. For it to work it needs to be earthed, which is why it's connected to the fire hydrant..."



"The antenna (or aerial) is the wire in the umbrella..."

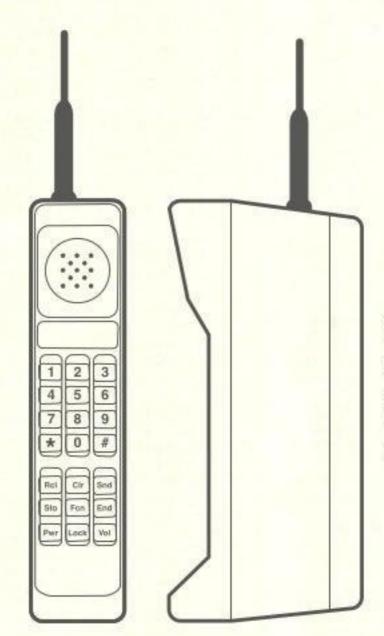
- Explanation courtesy of Simon Atkins, an Ex-Royal Signals officer





## Finally, after twenty years of experimentation

(and the invention of microprocessors) we ended up with this....



MOTOROLA

1983: the \$3,995 DynaTAC

the first mobile telephone that could connect to the telephone network without the assistance of a mobile operator ...which was released about the same time as this.



1984: the Apple Macintosh

the first commercially successful personal computer to feature a mouse and a graphical user interface

...the following ten years were pretty much devoted to finding ways to combine these two concepts....

