127   STOCK FOOTAGE - BATTERY   127

        Battery operated devices power parts of the world - from
        flashlights to solar panels etc.

                            INVU EXPERT
                    Italy was an early player in helping
                    to power the world.

                            INVU ANOTHER EXPERT
                    One of the first major innovations
                    in generating electricity was the
                    invention of the **world's first
                    battery.**

128   ARCHIVE - FRANKENSTEIN   128

        Classic films and depictions of Frankenstein's monster.

                            NARRATOR
                    The battery not only changed how we
                    power the planet, it also created a
                    whole new genre of story-telling.
                    But first, the story of it's
                    creation..

129   ARCHIVE - VOLTA & GALVANI   129

        Volta and Galvani

                            INVU ANOTHER EXPERT
                    Most people credit Alessandro Volta
                    with the innovation, but it was really
                    both Volta and a man named Luigi
                    Galvani.

        Images of Galvani's work with lightning, animal electricity,
        nervous system, galvanizing.

                            NARRATOR
                    In the 1780's Galvani discovers what
                    he calls "animal electricity".

                            INVU EXPERT
                    Galvani had been studying the nervous
                    system of frogs. He discovers that
                    when he connects the nerves of the
                    frog to a metal wire and puts it out
                    during a thunder storm, **the frog
                    twitches.** He also discovers that
                    the frog twitches when two different
                    metals touch the frog at the same
                    time.

                    NARRATOR
          Galvani concludes that the frog must
          be producing electricity. But Volta
          thinks the frog is just a conduit
          for electricity.

130   ARCHIVE/GFX   130

     Volta's work, drawings of voltaic pile, finished product, GFX
     show layers of metals and conductor stacked.

                    INVU ANOTHER EXPERT
          Volta tests his theory and constructs
          the **Voltaic Pile, the first battery.**

                    INVU EXPERT
          Volta's battery was a series of
          alternating discs of zinc and copper
          with a piece of brine soaked cardboard
          between them. Volta had basically
          substituted frogs for wet cardboard,
          and we're thankful he did!

131   ARCHIVE – FRANKENSTEIN   131

     Galvanizing displays through Europe, cadavers come 'alive',
     notices in newspapers, drawings of **Frankenstein.**

                    INVU EXPERT
          Using Galvani's methods, scientists
          and showmen started "Galvanizing" in
          the streets for a crude form of public
          entertainment.

                    INVU ANOTHER EXPERT
          It's been said that an onlooker to
          one of these spectacles was a young
          Mary Shelley. Shortly after she
          wrote the classic Frankenstein.

                    INVU EXPERT
          Mentions **birth of science fiction**
          writing at this time – first science
          fiction writer was a woman!

132   **BIG WORLD HIT:** STOCK FOOTAGE   132

     Batteries used in every day: car battery, remote controls,
     laptops, phones, etc.

                    INVU EXPERT
          Discusses how Volta's battery changed
          the world.
                         (MORE)