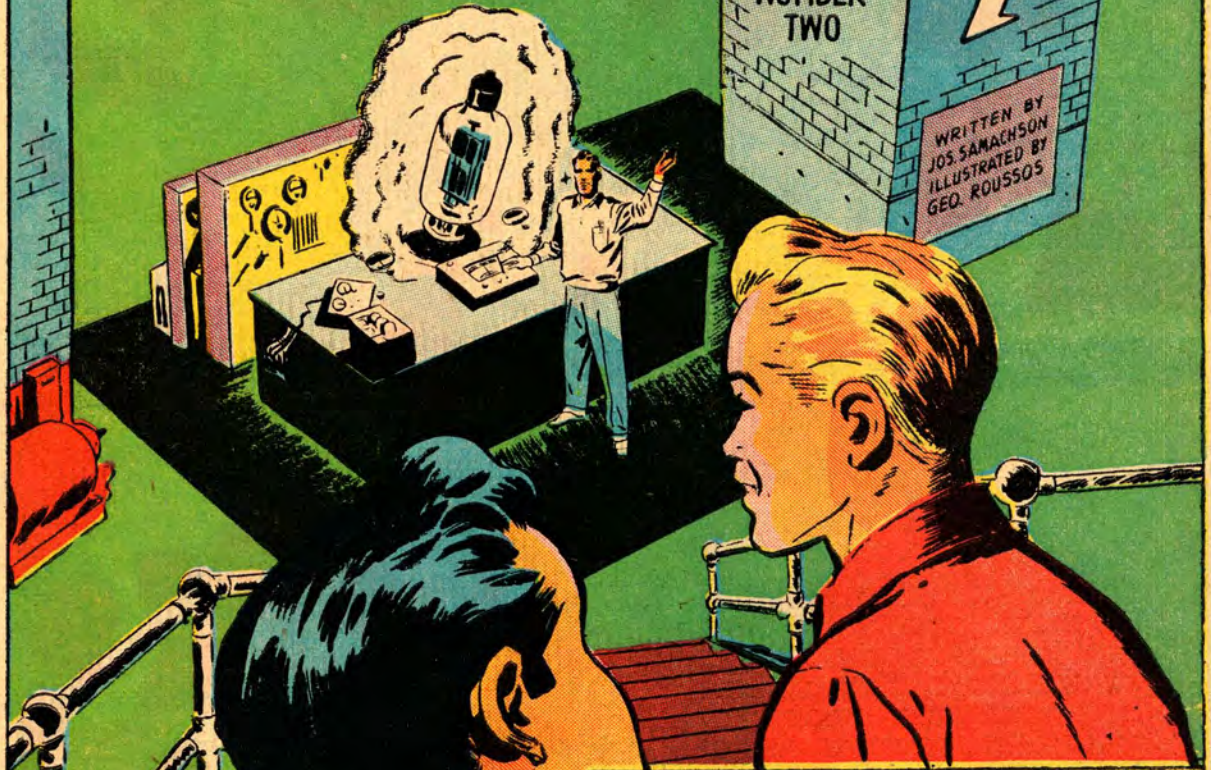


ADVENTURES *in* Electricity

NUMBER
TWO

WRITTEN BY
JOS. SAMACHSON
ILLUSTRATED BY
GEO. ROUSSOS



ADVENTURE
SERIES

Prepared for
GENERAL ELECTRIC COMPANY
By GENERAL COMICS, Inc.

CAN YOU IMAGINE WHAT YOUR HOME WOULD BE LIKE WITHOUT ELECTRICITY? NO LIGHTS, NO RADIO, NONE OF THE CONVENIENCES YOU'RE USED TO HAVING AT THE TOUCH OF A SWITCH... AND THAT'S JUST A BEGINNING! ALMOST EVERYTHING IN YOUR MODERN HOME—EVEN THE HOUSE ITSELF—MIGHT NOT EXIST IF NOT FOR THIS FAMILIAR AND YET STRANGE FORCE! SURPRISING? WELL, SEE FOR YOURSELF JUST A SMALL PART OF

**HOW MAN-MADE MAGIC
WORKS FOR US!**

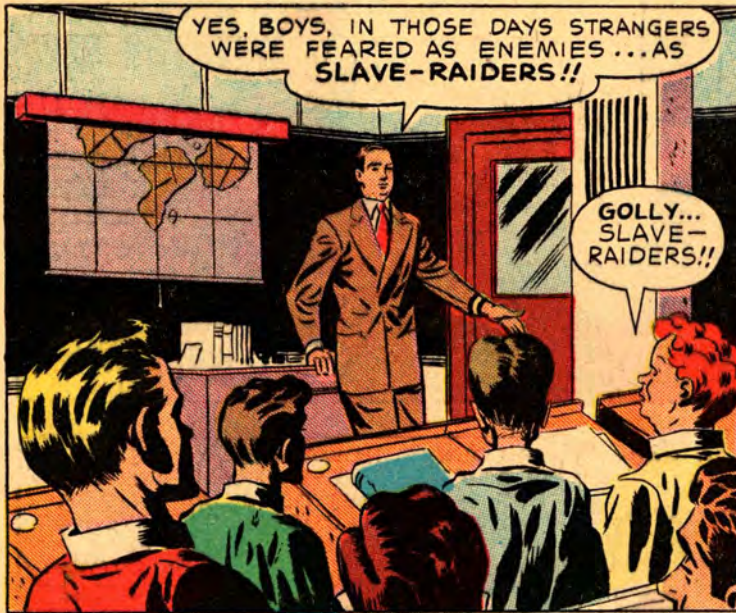
USES OF ELECTRICITY

"STARS GLEAM IN THE MOONLIGHT AS A MIGHTY WAR TRIREME HEADS FOR A PEACEFUL CITY ON THE EDGE OF THE ANCIENT MEDITERRANEAN..."



... "AS THE SHIP TOUCHES SHORE..."

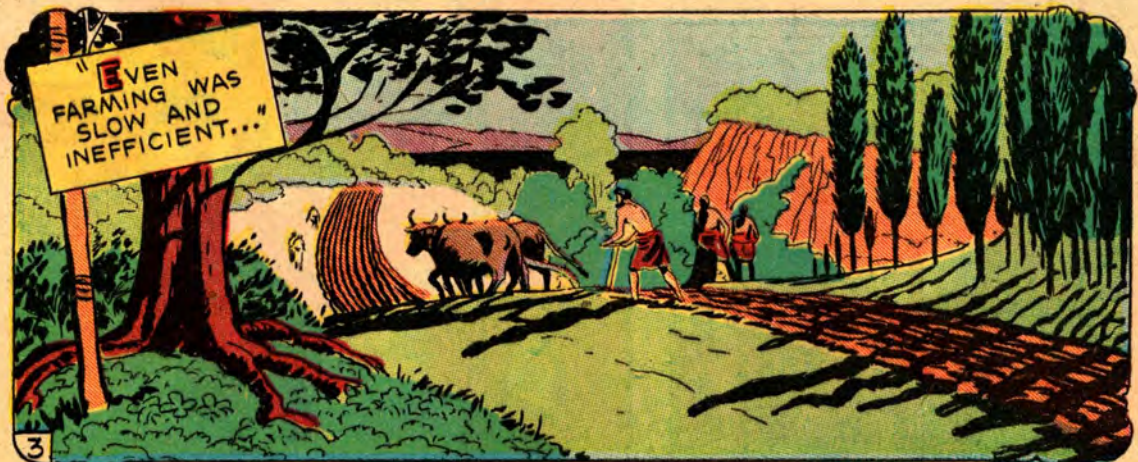


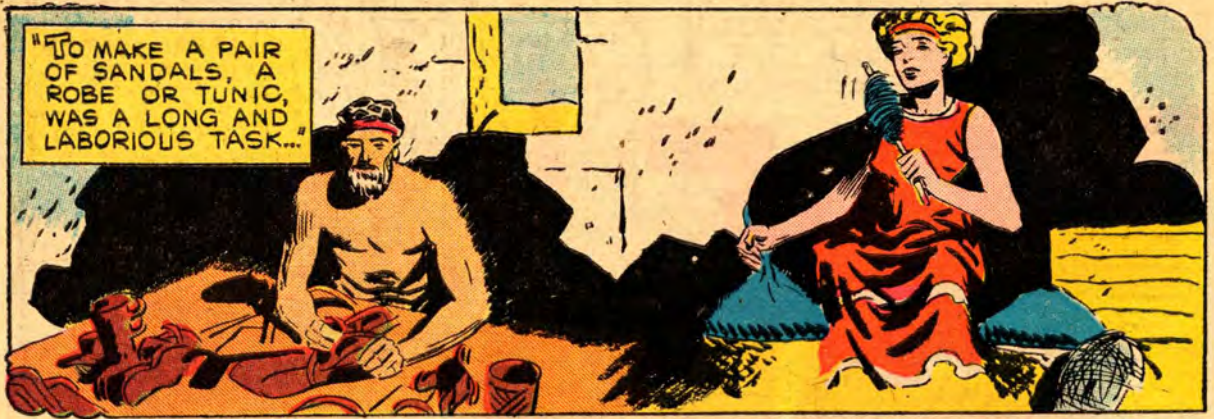


"THERE WERE NO CONVENIENT FAUCETS, NO PIPES TO BRING WATER..."



"DISHES HAD TO BE SHAPED SLOWLY, ONE, BY ONE, ON A POTTER'S WHEEL..."





"TO MAKE A PAIR OF SANDALS, A ROBE OR TUNIC, WAS A LONG AND LABORIOUS TASK..."

"FOR ALL THESE JOBS ... HOMES HAD DOZENS AND DOZENS OF SLAVES!"

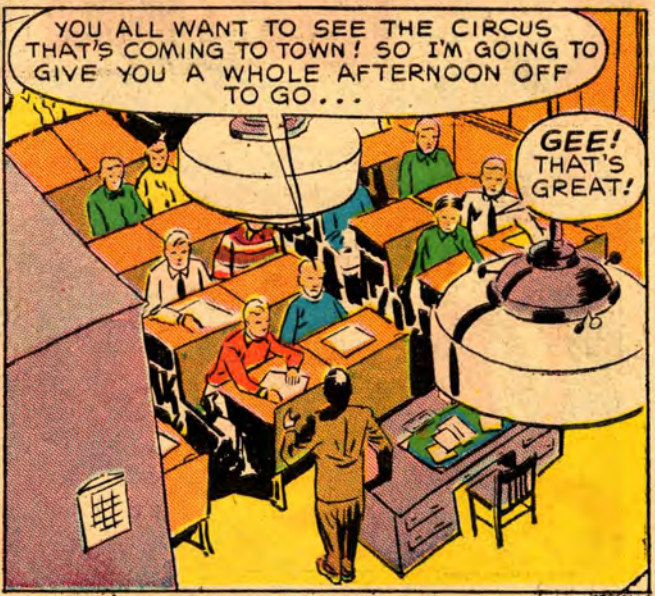


OF COURSE, NOWADAYS WE DON'T PERMIT SLAVERY... BUT THINGS GET DONE AROUND THE HOUSE BETTER THAN EVER!

SURE, WE JUST FLIP A SWITCH OR PUSH A BUTTON!



THAT'S RIGHT, JOHNNY POWERS, WE USE ELECTRICITY... AND I'M GOING TO LET YOU TELL ME HOW!



YOU ALL WANT TO SEE THE CIRCUS THAT'S COMING TO TOWN! SO I'M GOING TO GIVE YOU A WHOLE AFTERNOON OFF TO GO...

GEE! THAT'S GREAT!

... BUT THERE'S A CATCH! FIRST, I WANT YOU TO MAKE A LIST OF A **HUNDRED** DIFFERENT THINGS AROUND YOUR HOUSES THAT DEPEND ON ELECTRICITY... AND THEN YOU'LL SEE THE CIRCUS! YOU CAN ALL WORK TOGETHER ON THE SAME LIST. FAIR ENOUGH?



A LITTLE LATER...

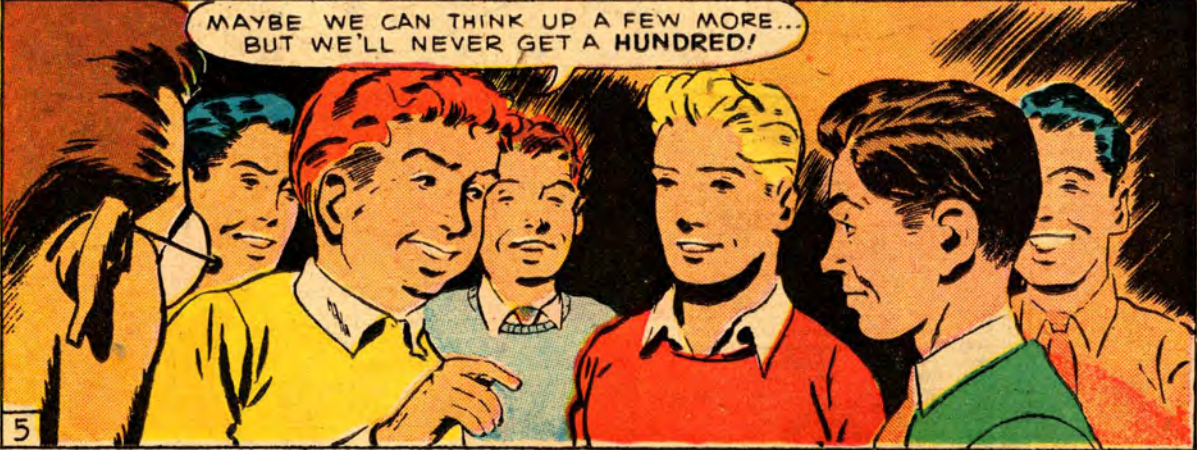
"FAIR ENOUGH," HE SAYS? PHOOEY... IT'S A DOUBLE-CROSS!"

WE'LL NEVER THINK OF A HUNDRED THINGS IN A HUNDRED YEARS! I'VE BEEN TRYING TO MAKE A LIST... KNOW WHAT I'VE GOT?



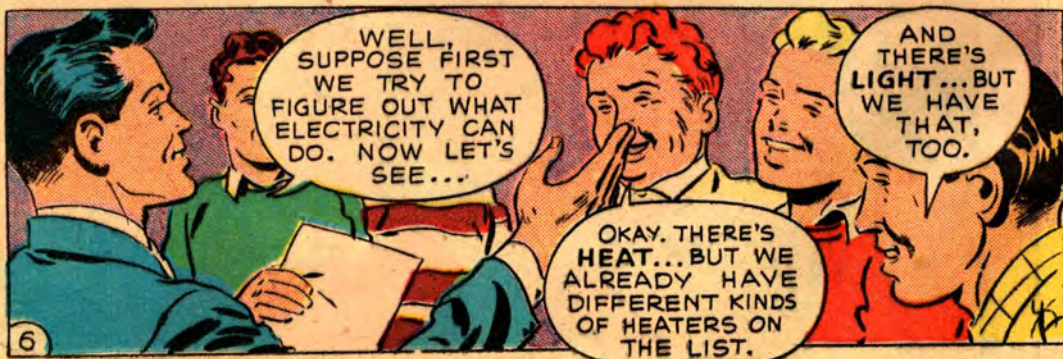
ELECTRIC CLOCKS, LIGHTS, RADIOS, REFRIGERATORS, TELEPHONES, VACUUM CLEANERS, HEATERS, TOASTERS, COFFEE PERCOLATORS...

MAYBE WE CAN THINK UP A FEW MORE... BUT WE'LL NEVER GET A HUNDRED!





AS ED POWERS AGREES TO HELP AND LEADS THE WAY OUT OF HIS LABORATORY...





LIGHT AND HEAT— YES, THEY GO TOGETHER... FOR EXAMPLE, IN A BULB...

WHAT DO YOU MEAN, ED?



THIS SURE IS WARM WORK, FELLOWS!

AND WHEN THE WIRE GETS HOT ENOUGH... AS IT DOES IN THE FILAMENT OF A BULB... IT GLOWS WITH LIGHT!"



WITH THIS THIN WIRE TO SQUEEZE THROUGH ... OF COURSE WE GET WHITE HOT!

NOW, HOW ABOUT ANOTHER APPLICATION OF ELECTRICITY?

THAT'S RIGHT, THINGS THAT WORK WITH MOTORS! WE ALREADY HAVE CLOCKS AND VACUUM CLEANERS...

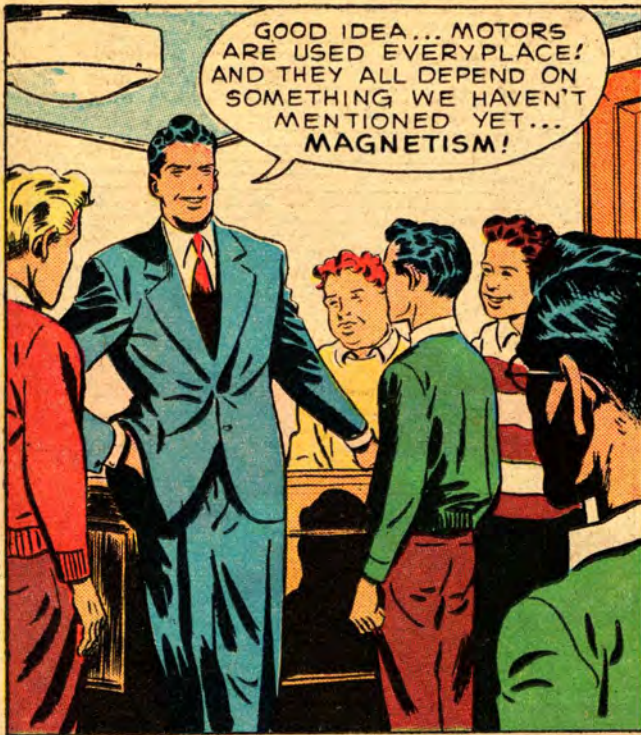
WELL, IT MAKES THINGS MOVE!

BUT HOW ABOUT ELECTRIC TRAINS— THE TOYS, AS WELL AS THE REAL THINGS?"

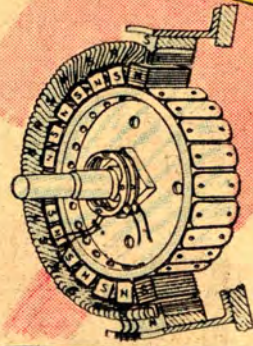
HEY, DAD, LOOK AT IT PULL ALL THOSE CARS!

IT CERTAINLY HAS A POWERFUL LITTLE MOTOR.





"ELECTRICITY IS USED TO CREATE MAGNETS... AND THE "ATTRACTING" AND "REPELLING" POWER OF MAGNETS IS THE BASIS OF ELECTRIC MOTORS."

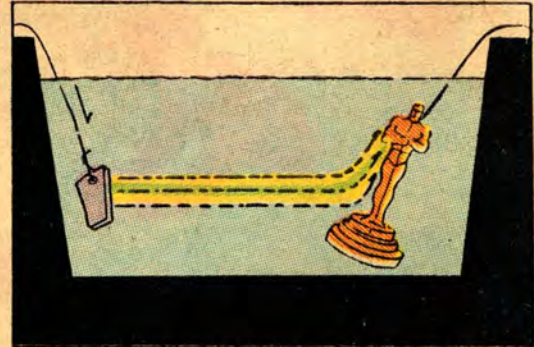


WELL, NOW WE'RE GETTING PLACES... BUT WE STILL HAVE A LONG WAY TO GO.

HERE'S A HINT, FELLOWS! ANYBODY KNOW WHY THIS TROPHY LOOKS SO BRIGHT AND SHINY?



TINY ATOM-SIZED PARTICLES OF METAL ARE CARRIED BY ELECTRICITY THROUGH AN ACID SOLUTION... AND MAKE A LANDING ON THE TROPHY!"





THAT'S JUST ONE EXAMPLE OF **ELECTRO-CHEMISTRY**. KNIVES AND FORKS ARE SILVER-PLATED THAT WAY.. FAUCETS ARE NICKEL-PLATED. AND OUR ALUMINUM POTS AND PANS...THAT ALUMINUM IS MADE BY ELECTRO-CHEMISTRY TOO!



AND NOW...ANOTHER IDEA! SAY, WE LISTED THE RADIO... WHAT MAKES THAT WORK? GOOD, SPUD! THERE'S ANOTHER APPLICATION OF ELECTRICITY... WE CALL IT **ELECTRONICS**...

WHEN YOU SEND ELECTRONS THROUGH A VACUUM IN A TUBE, YOU ARE USING **ELECTRONICS**?

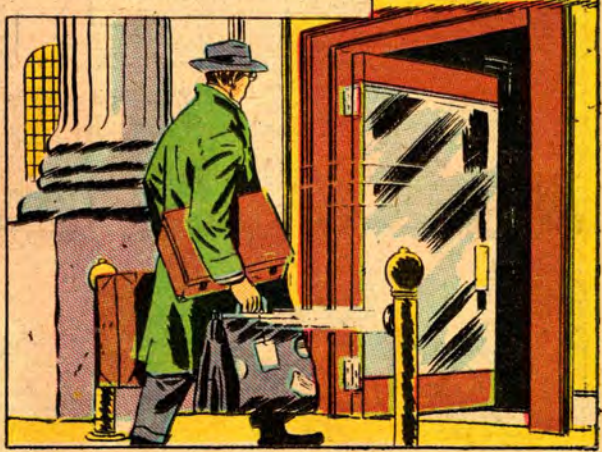
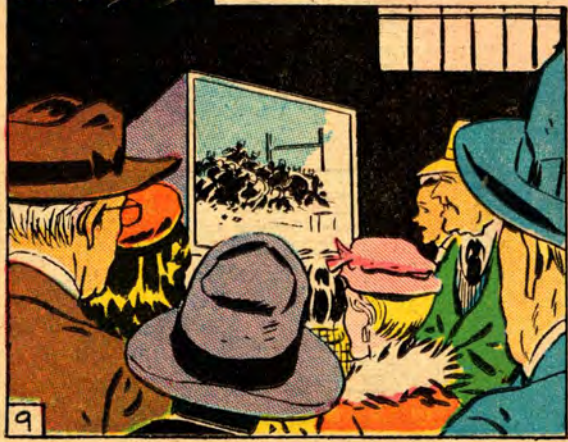


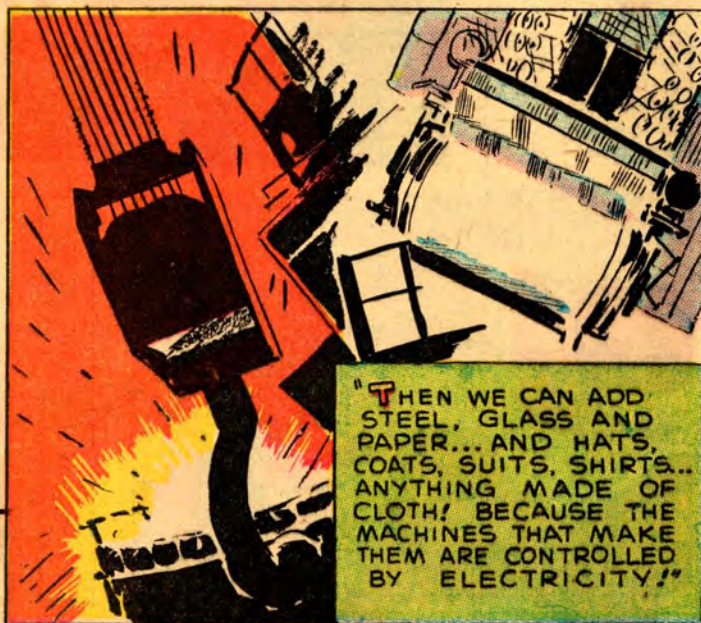
SAY, IN THAT VACUUM, WE ELECTRONS REALLY DO STRANGE TRICKS!

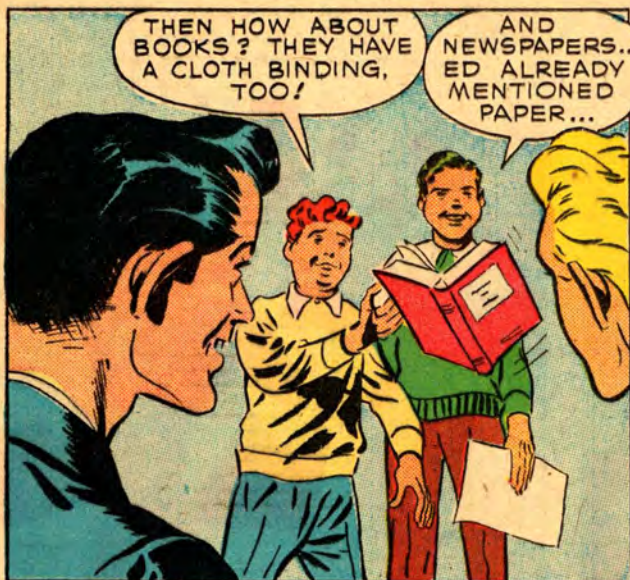


WITH ELECTRONICS, WONDERFUL THINGS ARE POSSIBLE... RADIO... TELEVISION...

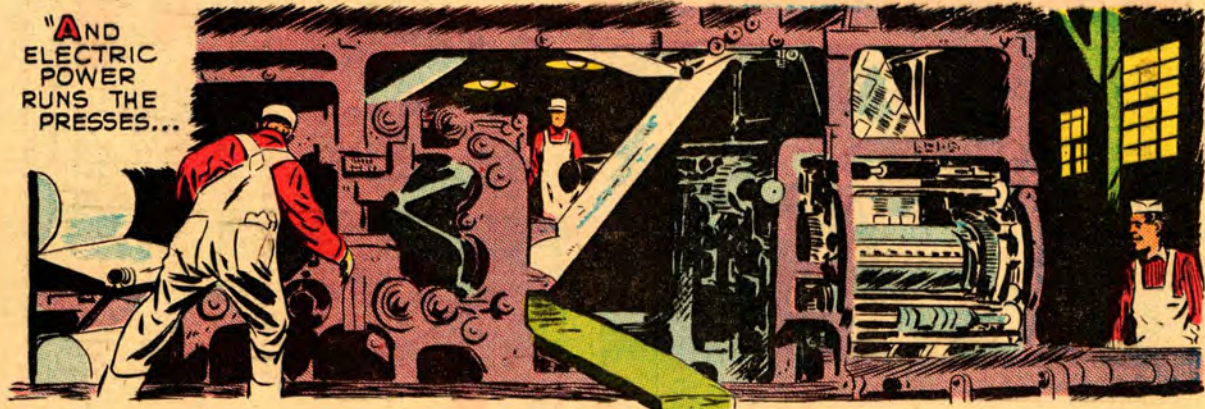
AND PHOTOELECTRIC CELLS THAT OPEN A DOOR FOR YOU AUTOMATICALLY WHEN YOU JUST WALK TOWARD IT!

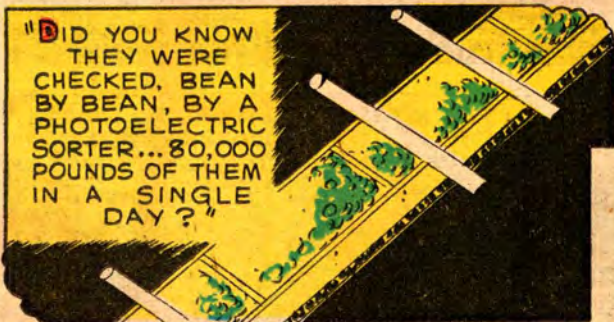


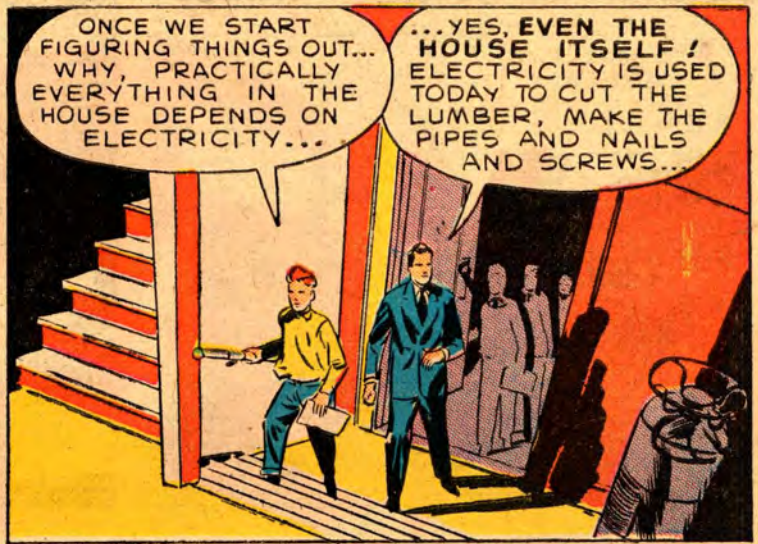
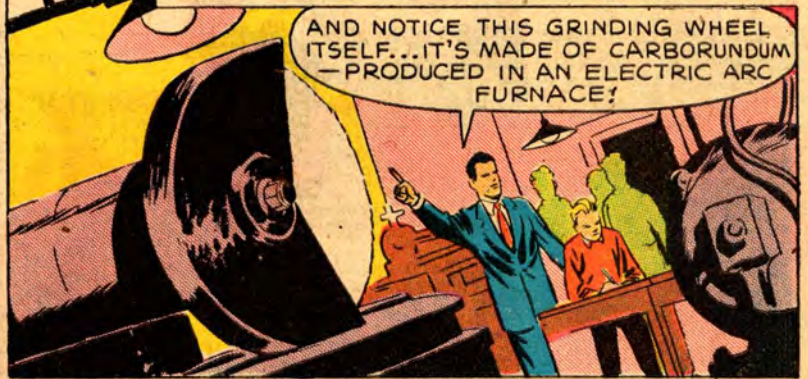
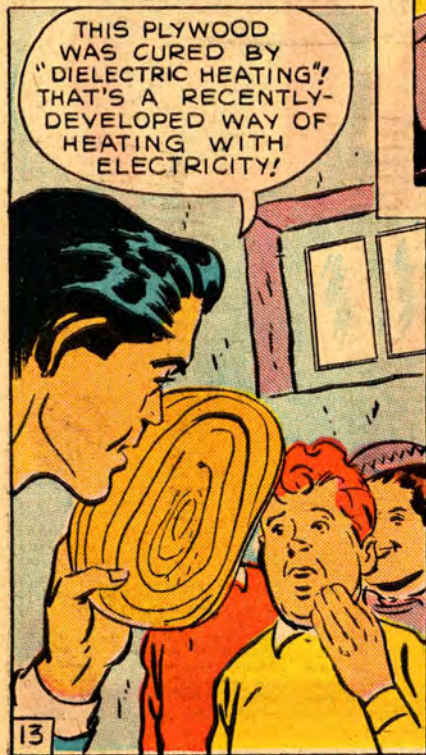
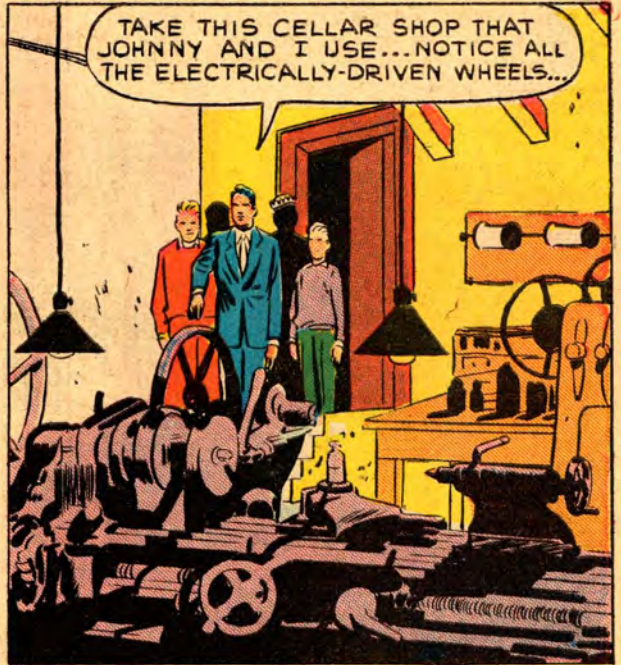




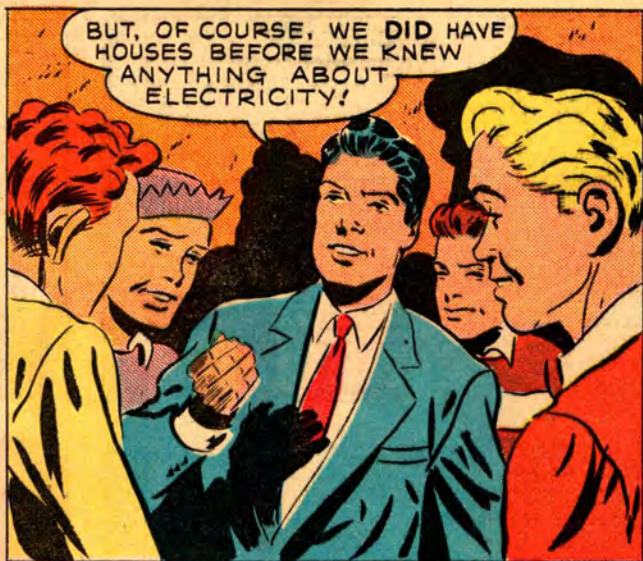
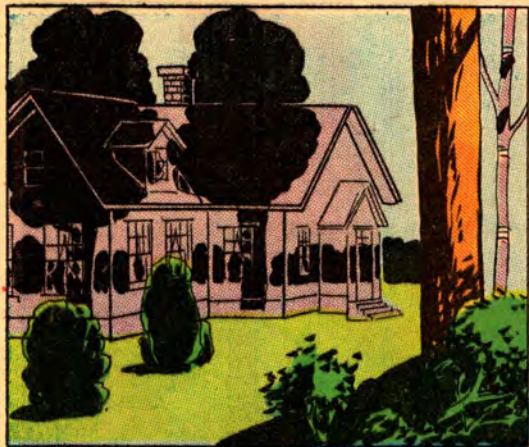
"BUT EVEN IF YOU GOT THE PAPER SOME OTHER WAY, YOU'D STILL NEED ELECTRICITY TO PRINT THEM. NEWSPAPERS USE STEREOTYPES... THEY'RE MADE BY ELECTRO-PLATING, TOO."







"TAKE AWAY EVERYTHING THAT DEPENDS ON ELECTRICITY... AND YOU JUST ABOUT TAKE AWAY THE HOUSE!"



"GOOD HOUSES, TOO... EVEN IF THEY WEREN'T SO COMFORTABLE AND CONVENIENT! LET'S LOOK AT ONE OF THOSE OLD MANSIONS OF GEORGE WASHINGTON'S TIME..!"



"WE HAD PROGRESSED A LITTLE SINCE ANCIENT DAYS... BUT STILL THERE WERE NO ELECTRIC PUMPS TO DRIVE WATER THROUGH PIPES! SO..."

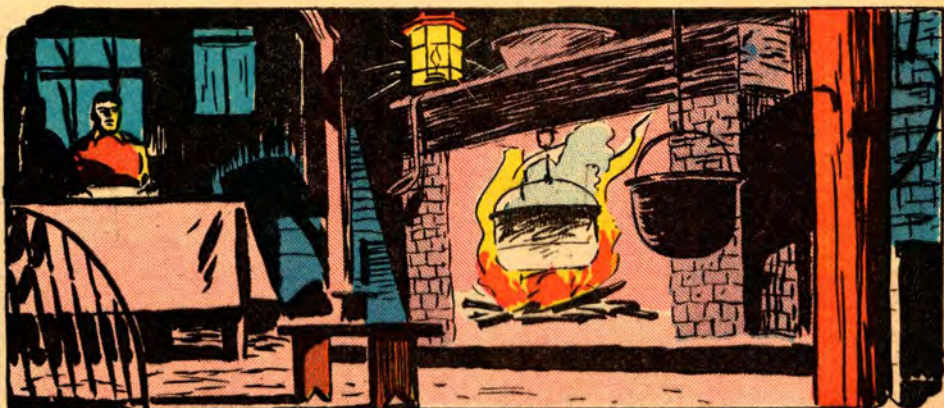


"AND WHEN IT CAME TO TRAVELLING, A STAGE COACH..."

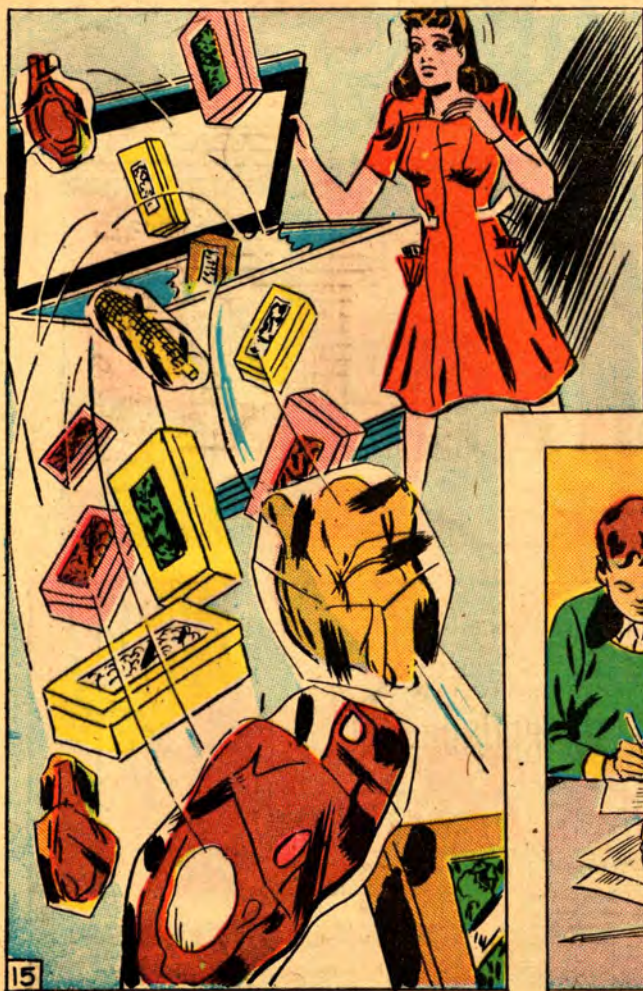


"...INSTEAD OF A PLANE, OR TRAIN, OR AUTOMOBILE, ALL OF THEM DEPENDING SOMEHOW ON ELECTRICITY."

IN THE HOUSE ITSELF, COOKING WAS DONE IN HEAVY OLD IRON POTS INSTEAD OF CONVENIENT ALUMINUM PANS... AND AFTER DARK THERE WAS ONLY THE DIM LIGHT OF LAMPS AND LANTERNS...



AND THE MEALS! OUR COUNTRY ALWAYS HAD PLENTY OF FOOD... BUT IN THOSE DAYS PEOPLE ATE ONLY WHAT WAS GROWN NEARBY! NO FRUITS AND VEGETABLES BROUGHT FROM THOUSANDS OF MILES AWAY... NO MEAT KEPT FRESH LONG PAST THE SLAUGHTERING SEASON... BECAUSE THERE WAS NO ELECTRIC REFRIGERATION, NO "QUICK FREEZING"!



THERE WAS ANOTHER THING YOU MIGHT REMEMBER ABOUT GEORGE WASHINGTON'S DAY... PEOPLE HAD BAD TEETH! GEORGE HIMSELF SUFFERED. THERE WAS NO MODERN DENTISTRY... NO ELECTRIC X-RAYS TO DISCOVER HIDDEN CAVITIES...

OR BROKEN BONES? REMEMBER WHEN I FELL AND BROKE THIS ARM? GOSH, IT WOULD NEVER HAVE KNIT RIGHT IF THE DOCTOR HADN'T USED X-RAYS TO SEE THE BONES!

GUESS WE CAN EVEN ADD "US" TO THE LIST! WE MUST HAVE A LOT MORE THAN 100 NOW!

AND REMEMBER, FELLOWS,
ALL THESE USES ARE BASED
ON FIVE APPLICATIONS OF
ELECTRICITY... LIGHT, HEAT,
MOTION, ELECTRONICS AND
ELECTRO-CHEMISTRY.



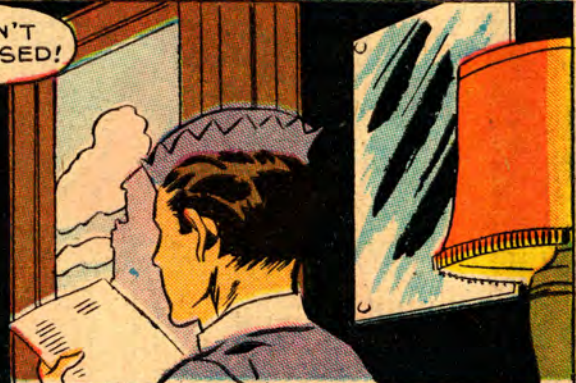
BOY, OH, BOY, WAIT TILL
WE SHOW TEACHER OUR LIST!
BET HE THOUGHT HE WAS
PUTTING SOMETHING
OVER ON US!... OR

GOSH, I
WONDER!



COME TO THINK OF IT...
MAYBE HE EXPECTED US
TO FIGURE OUT A LIST LIKE
THIS! I'LL BET THAT'S WHAT
HE WAS AFTER ALL
THE TIME!

I WOULDN'T
BE SURPRISED!



CIRCUS DON'T
MISS IT
STUPENDOUS!
MAGICAL!
Come!

SURE-'CAUSE
LOOK HOW MUCH
WE'VE LEARNED
ABOUT ELEC-
TRICITY!

OH BOY!
NOW WE
SEE THE
CIRCUS,
TOO!



GENERAL  ELECTRIC
Schenectady, New York