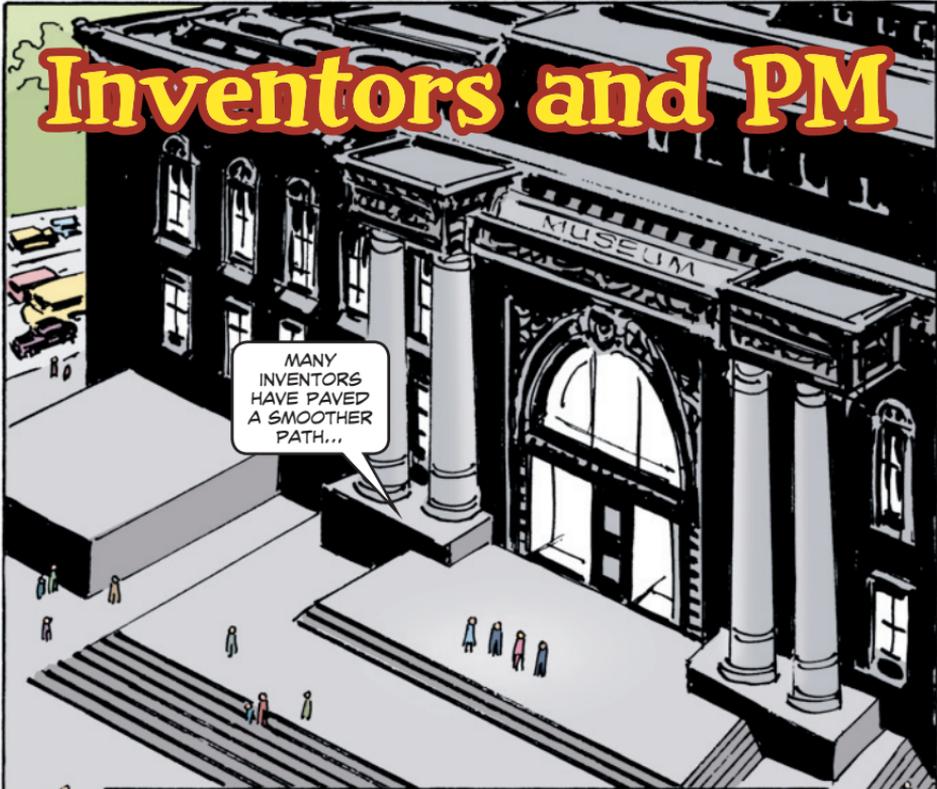


Inventors and PM



MANY INVENTORS HAVE PAVED A SMOOTHER PATH...



...FOR OPERATORS AND MECHANICS DOING PREVENTIVE MAINTENANCE, AND FOR SOLDIERS IN GENERAL.

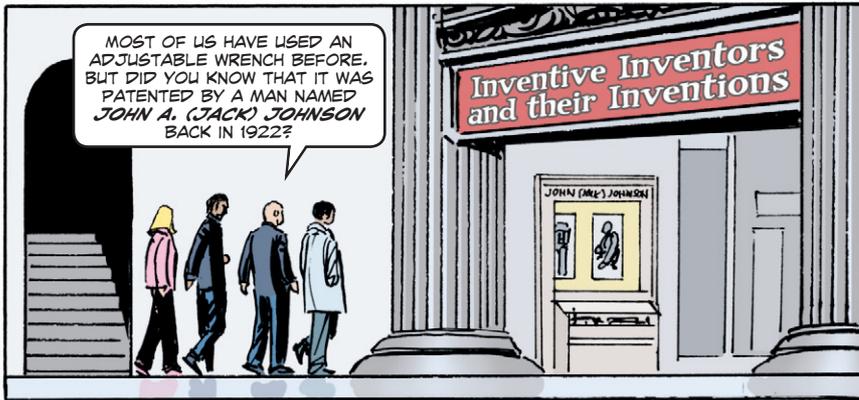
MOST PEOPLE KNOW ABOUT VARIOUS INVENTIONS, BUT DON'T NECESSARILY KNOW WHO INVENTED THEM.



SO TAG ALONG WITH US AS WE STROLL DOWN THIS EXHIBIT CALLED, "INVENTIVE INVENTORS AND THEIR INVENTIONS".

AND ENJOY THE LEARNING EXPERIENCE.

JOE KUBER



MOST OF US HAVE USED AN ADJUSTABLE WRENCH BEFORE, BUT DID YOU KNOW THAT IT WAS PATENTED BY A MAN NAMED JOHN A. (JACK) JOHNSON BACK IN 1922?



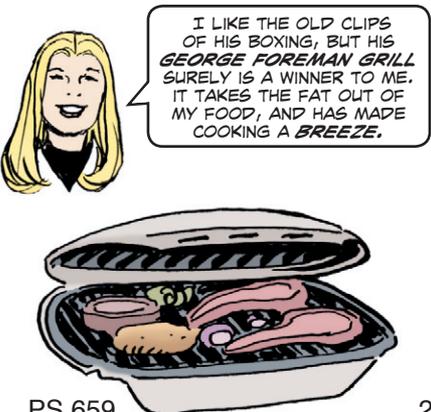
HE WAS ALSO THE WORLD'S FIRST BLACK HEAVYWEIGHT BOXING CHAMPION.



WELL, THE WRENCH SURE HELPS KNOCK OUT MAINTENANCE TASKS A LOT QUICKER.



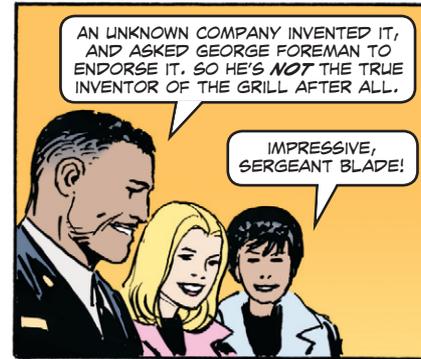
HEY! THAT REMINDS ME OF ANOTHER BOXER/INVENTOR - GEORGE FOREMAN.



I LIKE THE OLD CLIPS OF HIS BOXING, BUT HIS GEORGE FOREMAN GRILL SURELY IS A WINNER TO ME. IT TAKES THE FAT OUT OF MY FOOD, AND HAS MADE COOKING A BREEZE.

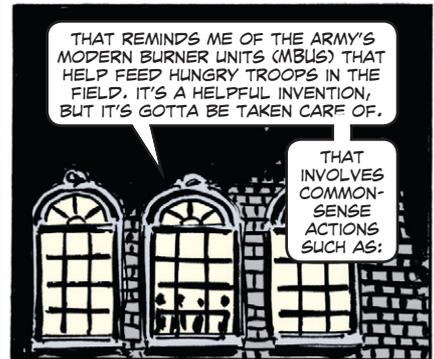


I LIKE THE GRILL, TOO, BUT THERE'S A TWIST TO THAT.



AN UNKNOWN COMPANY INVENTED IT, AND ASKED GEORGE FOREMAN TO ENDORSE IT. SO HE'S NOT THE TRUE INVENTOR OF THE GRILL AFTER ALL.

IMPRESSIVE, SERGEANT BLADE!



THAT REMINDS ME OF THE ARMY'S MODERN BURNER UNITS (MBUS) THAT HELP FEED HUNGRY TROOPS IN THE FIELD. IT'S A HELPFUL INVENTION, BUT IT'S GOTTA BE TAKEN CARE OF.

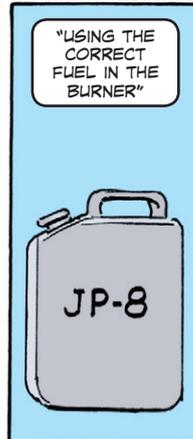
THAT INVOLVES COMMON-SENSE ACTIONS SUCH AS:



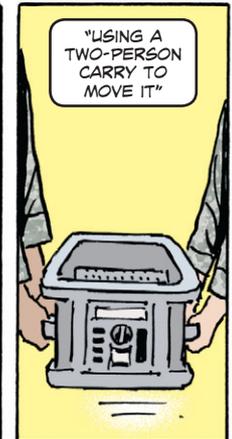
NOT DOING MAINTENANCE ON IT UNLESS THE EXTERNAL POWER IS SHUT OFF FIRST...



"KEEPING CABLES OUT OF FOOT TRAFFIC TO PREVENT TRIPPING"



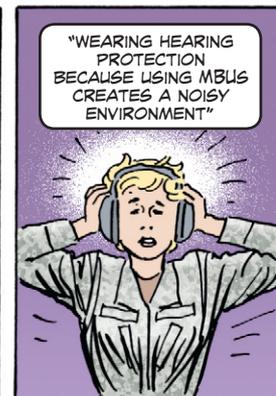
"USING THE CORRECT FUEL IN THE BURNER"



"USING A TWO-PERSON CARRY TO MOVE IT"



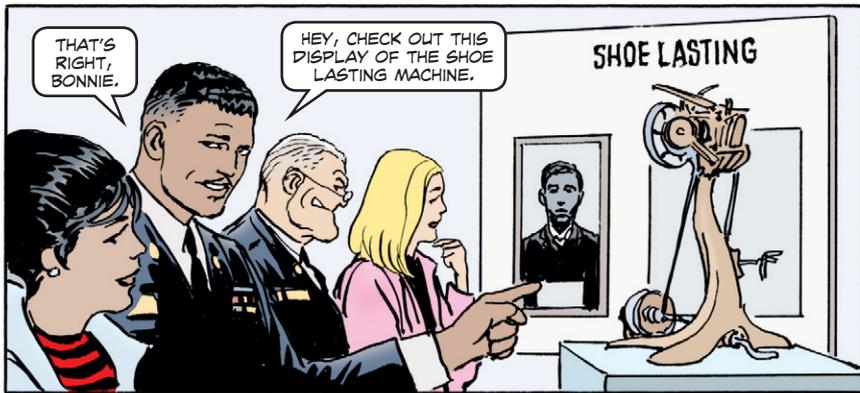
"MAKING SURE IT IS OPERATED IN WELL-VENTILATED AREAS"



"WEARING HEARING PROTECTION BECAUSE USING MBUS CREATES A NOISY ENVIRONMENT"



"AND KEEPING THEM CLEAN WITHOUT USING A PRESSURE WASHER OR SUBMERGING THEM IN WATER."



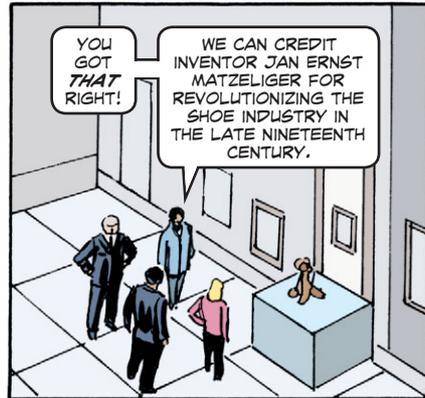
THAT'S RIGHT, BONNIE.

HEY, CHECK OUT THIS DISPLAY OF THE SHOE LASTING MACHINE.

SHOE LASTING

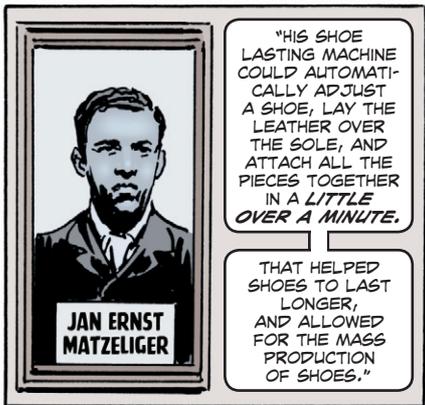


SOLDIERS NEED BOOTS THAT WILL HOLD UP WELL IN ALL CONDITIONS, AND THEY *DON'T* NEED TO WAIT A LONG TIME FOR A REPLACEMENT WHEN THE ONES THEY HAVE WEAR OUT.



YOU GOT *THAT* RIGHT!

WE CAN CREDIT INVENTOR JAN ERNST MATZELIGER FOR REVOLUTIONIZING THE SHOE INDUSTRY IN THE LATE NINETEENTH CENTURY.



JAN ERNST MATZELIGER

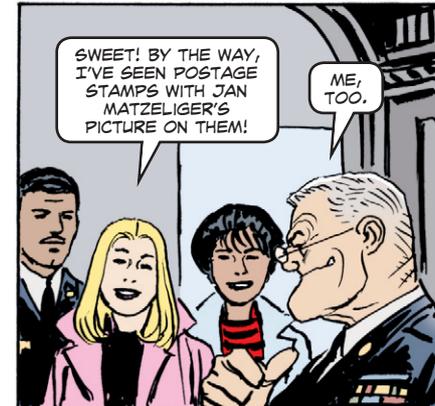
"HIS SHOE LASTING MACHINE COULD AUTOMATICALLY ADJUST A SHOE, LAY THE LEATHER OVER THE SOLE, AND ATTACH ALL THE PIECES TOGETHER IN A *LITTLE OVER A MINUTE.*"

THAT HELPED SHOES TO LAST LONGER, AND ALLOWED FOR THE MASS PRODUCTION OF SHOES."



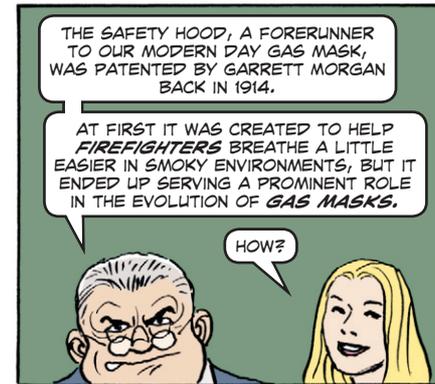
THAT PROBABLY LED TO STANDARDIZED SIZING AND EASIER REPAIR, TOO.

AND SPEAKING OF SHOES LASTING, THERE'S A COLD WEATHER BOOT MAINTENANCE KIT, NSN 8465-00-753-6335, THAT ALLOWS A TEMPORARY FIELD FIX FOR WORN OUT BOOTS.



SWEET! BY THE WAY, I'VE SEEN POSTAGE STAMPS WITH JAN MATZELIGER'S PICTURE ON THEM!

ME, TOO.



THE SAFETY HOOD, A FORERUNNER TO OUR MODERN DAY GAS MASK, WAS PATENTED BY GARRETT MORGAN BACK IN 1914.

AT FIRST IT WAS CREATED TO HELP *FIREFIGHTERS* BREATHE A LITTLE EASIER IN SMOKY ENVIRONMENTS, BUT IT ENDED UP SERVING A PROMINENT ROLE IN THE EVOLUTION OF *GAS MASKS.*

HOW?



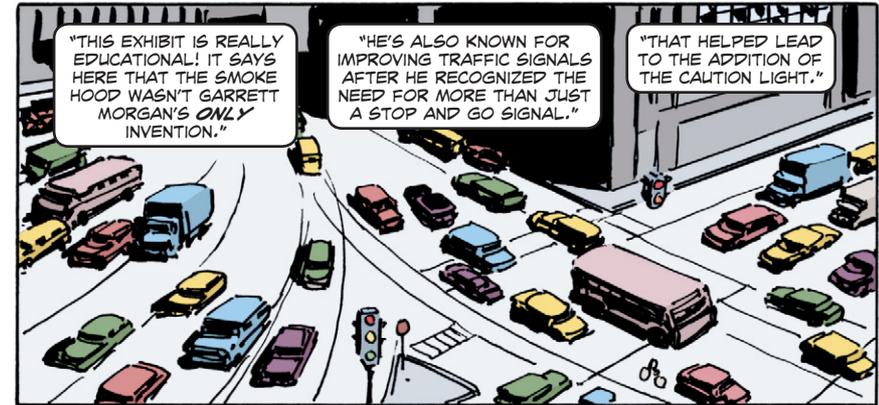
NOW EYEBALL THIS DISPLAY OF THE *SAFETY HOOD.* ANY PROTECTION SOLDIERS HAVE IN CBRN ENVIRONMENTS IS VALUABLE, AND HERE'S ONE OF THEM.

SAFETY HOOD
GAS MASK



"DURING WORLD WAR I, THE ARMY RELIED ON GAS MASKS THAT INCLUDED FEATURES FROM GARRETT MORGAN'S SAFETY HOOD."

GARRETT MORGAN



"THIS EXHIBIT IS REALLY EDUCATIONAL! IT SAYS HERE THAT THE SMOKE HOOD WASN'T GARRETT MORGAN'S *ONLY* INVENTION."

"HE'S ALSO KNOWN FOR IMPROVING TRAFFIC SIGNALS AFTER HE RECOGNIZED THE NEED FOR MORE THAN JUST A STOP AND GO SIGNAL."

"THAT HELPED LEAD TO THE ADDITION OF THE CAUTION LIGHT."

"WE'RE SAFER ON THE ROAD NOW THAT THERE'S MORE THAN JUST STOP AND GO LIGHTS. OPERATORS, PASSENGERS, AND PEDESTRIANS CAN ALL BE THANKFUL FOR THAT INVENTION."



GOOD INVENTIONS CAN DO A LOT OF GOOD. BUT THEY HAVE TO BE PROPERLY OPERATED AND MAINTAINED TO DO THE GOOD THAT'S INTENDED.

I AGREE, SERGEANT!



PREVENTIVE MAINTENANCE IS SOMETHING THAT **EVERYBODY** SHOULD BELIEVE IN.

COME OVER HERE AND ENLIGHTEN US, SOLDIER. TELL US WHAT TYPE OF PM RELATES TO THE DISPLAYS WE'VE SEEN SO FAR IN THIS EXHIBIT.



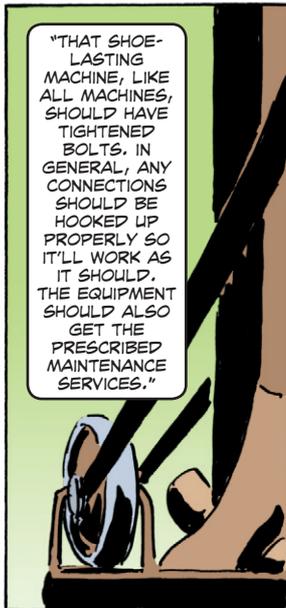
TOO EASY, MASTER SERGEANT. WRENCHES DON'T WORK WELL IF THEY'RE DIRTY OR RUSTY, SO ANY DIRT OR RUST ON THEM SHOULD BE CLEANED OFF. AND LIGHTLY LUBE YOUR WRENCHES AND OTHER TOOLS TO PREVENT RUST.



"ALSO, IF YOU USE YOUR ADJUSTABLE WRENCH RIGHT, YOU'LL HAVE LESS WEAR ON THE WRENCH, LESS DANGER OF SLIPPAGE, AND SAFER LEVERAGE. THAT MEANS THE FORCE OR PULL SHOULDN'T BE DIRECTED ON THE ADJUSTABLE JAW, SINCE IT'S THE STATIONARY JAW THAT CAN TAKE THE HEAVY STUFF."



"THAT SHOE-LASTING MACHINE, LIKE ALL MACHINES, SHOULD HAVE TIGHTENED BOLTS. IN GENERAL, ANY CONNECTIONS SHOULD BE HOOKED UP PROPERLY SO IT'LL WORK AS IT SHOULD. THE EQUIPMENT SHOULD ALSO GET THE PRESCRIBED MAINTENANCE SERVICES."



GOOD JOB, SOLDIER. WHAT ELSE CAN YOU TELL US?

I WOULD *NEVER* WANT TO BE IN A CBRN ENVIRONMENT WITHOUT A WORKING GAS MASK. SO I'M CAREFUL TO USE IT *ONLY* FOR ITS INTENDED PURPOSE.



"I *DON'T* SIT ON IT, I *DON'T* FOLD IT WHEN STORING IT IN THE CARRIER..."



"...OR SIP DRINKS OTHER THAN *WATER* THROUGH THE DRINK TUBE."



"I ALSO MAKE SURE IT'S *CLEANED* AFTER EACH USE. I MAKE SURE THE LENSES OFFER GOOD VISIBILITY, AND THAT THERE ARE NO TEARS IN THE MASK."



"PLUS, I STAY ON TOP OF MASK PM BY MAKING SURE THE *FOUR BUMPS* ON BOTH VOICEMITTERS POINT OUT..."



"...AND BY MAKING SURE THE *OUTLET VALVE DISK* ISN'T MISSING, TORN, OR OUT OF PLACE."



"I KNOW THOSE THINGS CAN PREVENT MY MASK FROM PROTECTING ME WHEN I NEED IT MOST!"





THE *NEXT* GREAT INVENTOR

