

TimeLines

A Quarterly Newsletter from M.H. Rhodes/Cramer Company,
Division of Caperwell Components Co., LLC

Volume 1, Issue 2

Things that make you go hmmmmmm.....

Freedom & Justice for All.....

Most of us relate the beginning of summer usually as starting off with a "Bang"! Literally; July 4th in all its firework splendor! But, how often do we relate July 4th history as the beginning of a new life style called "Freedom" that we so enjoy today?

Below is information about the men who signed the Declaration of Independence so we can relate to them as fellow Americans whos unselfish actions so long ago was for the benefit of so many in the future.

The first, largest, and most famous signature is John Hancock, President of the Continental Congress. The youngest signer: Edward Rutledge at age 26; the oldest: Benjamin Franklin at age 70. Unknown at the time, two future presidents signed: John Adams and Thomas Jefferson, 2nd and 3rd Presidents; respectively.

Not all men were so well known; however, all were visionaries.

- 13 were merchants; 8 served in public office;
- 12 owned/managed large plantations or farms;
- 11 were large scale securities speculators (today's Stock Brokers);
- 6 were land speculators (today's Real Estate Agents);
- 3 were economists; 3 were physicians;
- 2 were scientists; 2 were small farmers, and 1 a college president

These men signed and pledged their lives, fortunes and honor for liberty, truth and the pursuit of happiness. They began the fight for freedom knowing at any time they could be imprisoned, killed or their families and homes destroyed, as many had. By faith they carried the torch for freedom.

Every July 4th we should to take a moment to remember these first US patriots and all those who have followed in their path; for their gallant efforts, faith and integrity to stand and fight for freedom. *Our freedom!*

Quote Quips

"Look at a day when you are supremely satisfied at the end. It is not a day when you lounge around doing nothing; it is when you've had everything to do, and you've done it!"

- Margaret Thatcher

Application Spotlight

Motors for Actuators and Dampers.....

In Heating, Ventilating, and Air Conditioning (HVAC) applications, motorized dampers are commonly used to regulate air flow for zone control. A motor controls the position of the damper device from the fully open air flow to the fully closed air flow position. The most common motor utilized for this function is a hysteresis motor. Why? Factors such as motor longevity, functionality, durability, noise levels, and ambient temperature determine which motor is best for which application.

A hysteresis motor is an AC synchronous motor that uses a special rotor ring material and construction. Because of the hysteresis motors unique properties, the motor may remain energized in a stalled condition without motor damage until the damper is required to close. The motors also provide very smooth, quiet performance. These features make a hysteresis motor very desirable for damper control.

Cramer hysteresis motors have an external rear bearing which provides stability, strength and allows for a double-ended output shaft that can be configured with pinions, levers, flats or knurls to accommodate a wide range of applications. The

Whats New?

Motorized Time Switches!



Back view

Front side view

Introducing Model 46001 Motorized Time Switches

Motorized timers - now that's new! Not really! Motorized timers have been around for a while but don't get the attention they are due. Motorized timers are the most accurate timer available, providing better accuracy than a spring wound timer by more than 5%. Model 46001 is a 10 Amp, 1/4 Hp, 250 VAC time switch, with a 115V, 3.5 Watt permanent magnet motor drive allowing for fast starts and stops.

Because these little treasures have a durable polycarbonate enclosure allowing high temperature and moisture resistance, they are ideal for pizza ovens, rising ovens, steamer ovens and other applications where heat and moisture conditions are present and time is the critical factor!

Model 46001 is a 60 minute timer with a 300° rotation, has 1/4" quick-disconnect terminals for easy installation and is UL/cUL approved.

So the next time you enjoy a nicely raised golden brown loaf of bread, or perfectly steam cooked food, you can rest assured the motorized time switch is functioning properly!



Commercial Rising Ovens

If your application has high heat and moisture present AND requires superior time measurement accuracy, motorized time switches are the best choice!

**MOTORIZED TIME SWITCHES
ARE AVAILABLE TODAY!**

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Damper Display developed by Jay Dacko, Applications Engineer

pear shaped gearbox is designed to contain a wide range of gear ratios to meet specific requirements.

Shown is a six inch motorized damper common to many home HVAC systems. The damper is powered by a Cramer 6100 Series hysteresis motor. The six watt motor was specially developed for the application. Cramer hysteresis motors have obtained both UL and cUL certification. When activated, the motor noise is not audible when standing nearby which ensures zero noise conditions installed. Currently our hysteresis motors are on lifecycle and endurance testing, after several days and many hours, they have successfully completed 100,000 cycles to date, show little wear to the gears and are still going strong.

Cramer motors, meters and timers are proudly made in the USA! As we strive for continuous improvement for our customers and ourselves, moving forward we are taking steps to become an ISO certified manufacturing company!

For more information about Cramer Motors for commercial and residential HVAC applications, we invite you to visit our website at www.mhrhodes.com.

Employee Spotlight!

A Memorable Memorial Day.....



Below L to R: Rick Wheeler, VPGM; Patricia McDonald, and Vin Juchniewicz, Operations Manager

Above: "Little Blue" dressed up ready to ride.

Left: Patricia, Lester & "Little Blue" outside M.H. Rhodes/Cramer facility.



Every year on Memorial Day we take time to remember American soldiers who have died while selflessly fighting to keep our country free. In present day, parades line Main Streets throughout the country with bands playing, Scout troops marching, balloons flying, and antique vehicles with passengers waiving.

This year, our own Patricia McDonald and her husband, Lester were invited to join the Torrington, Connecticut town parade with their 1952 6 Cyl. OHC (Overhead Cam) Ford step-side pickup truck. Patricia and Lester spent many long hours during the course of seven years restoring this magnificent vehicle to its original state including down to its original *Patriotic Metallic Blue* paint color.

Patricia and Lester wanted to do something extra special for those who so valiantly fought the fight. After much discussion, they decided it would be very special to carry a flag draped casket through the procession to honor our fallen. *This is no small task!*

Patricia contacted many funeral homes and crematoriums to no avail. Less than two weeks before Memorial Day, they located a local funeral home more than willing to help with their request. A representative from Doolittle Funeral Home in Middletown, CT met with Patricia and Lester to formalize a plan. Two days later, Lester drove away with a real wooden casket for their special tribute ride down Main St., Torrington.

This was such a success, Torrington parade officials invited Patricia, Lester and "Little Blue" to be a part of next year's parade!

"Thank You!" Patricia, Lester & "Little Blue" for making Memorial Day even more memorable!

Did You Know This.....

About the American Flag? There have been 28 versions of the American Flag since Betsy Ross made the first one in 1776. When flown at "Half-Staff" or "Half-Mast" the flag should be raised to the peak for an instant and then lowered to the half-staff position. Last but not least, "Old Glory" should always be illuminated between dusk and dawn!

Calendar of Events!

Where we've been & Where we're going!

Date	Event & Place	Activity
05.14.10 2 Days	EDS Show Las Vegas, NV	Attend
09.28.10 3 Days	Nat'l. Mfg. Week Chicago, IL	Attend
10.02.10 3 Days	NECA Show Boston, MA	Exhibit
01.31.11 3 Days	AHR EXPO Las Vegas, NV	Exhibit

**EDS:
Electronic
Distribution
Show**

**National Mfg
Week:
Medical Device
Manufacturers**



All About Motors!

E	N	M	P	R	C	O	V	R	A	Z	H	S	U	B	H
H	M	O	I	H	Y	S	T	E	R	E	S	I	S	U	A
U	Y	T	N	O	C	L	E	H	T	Q	M	N	E	S	P
L	S	O	I	R	L	R	I	S	U	Y	E	T	H	H	P
A	T	R	O	L	E	E	G	A	Q	R	G	E	T	I	Y
P	K	I	N	G	T	S	R	W	A	L	E	R	A	N	E
P	N	Z	I	N	I	E	E	Z	B	A	R	V	E	G	D
R	R	E	N	G	M	T	A	T	O	V	Y	A	O	N	E
O	E	D	I	R	E	T	M	O	T	O	R	L	G	C	L
V	O	C	G	U	R	A	E	G	E	A	R	C	U	P	R
E	V	R	T	H	S	B	R	L	Z	E	B	U	D	O	U
D	L	E	S	A	P	L	E	S	H	A	R	L	U	R	N
P	E	R	M	A	N	E	N	T	M	A	G	N	E	T	K
E	Z	T	A	W	A	G	Z	E	F	M	D	E	L	O	E
L	E	N	C	C	O	I	L	Q	A	A	I	T	E	R	L
P	B	R	A	N	O	V	D	E	T	S	H	Y	F	Q	S
O	U	R	O	T	O	R	R	I	N	G	H	S	L	U	I
T	O	P	P	L	A	T	E	N	T	T	N	E	T	E	D

-- Across -- Down -- Diagonal -- Forward -- Backward --

1	Hysteresis	11	Bushing	21	Permanent magnet
2	Round	12	Rotor ring	22	Nonresettable
3	Pinion	13	Core	23	Interval
4	Knurled	14	Washer	24	Motorized
5	Gears	15	Cycle timers	25	UL Approved
6	Gear cup	16	ETI	26	Coil
7	Oval	17	Shaft	27	Cams
8	Motor	18	Bezel	28	Top plate
9	Square	19	Resettable	29	Cover
10	Rectangle	20	Torque	30	Detent

Answers to Spring Issue Crossword Puzzle

Across	(Answers in Red)	Down	
1	R & R Railroad ran Right on time	1	Time between time Interium
2	"Good night!" Time for bed	2	Musicians use this to specify tempo Metronome
3	Traveling through time	3	Something that tells time Clock
4	First line of a fairy tale Once upon a time	4	"Time waits for No Man !"
5	Equals 24 hours of time Day	5	Helen says: " Timing is Everything!"
6	Step in time March	6	Olympian quest (or Brand Name) Mark Time
7	"Its about Time , its about space"	7	Two times five Ten
8	Today is the Present	8	Something that is timed Race
9	The name of this newsletter TimeLines	9	ON/OFF Switch
10	How many times does "Time" appear (Inc. 5 Down) Eight	10	What Time is it?
11	Time is of the Essence	11	Daylight Savings time

Suggestions?

This newsletter has been developed for our employees and our customers. If you have an idea, suggestion or would like to submit an article of interest, please contact a member of the "TimeLines" staff.

Thank you!