

METRO DETROIT METALWORKING CLUB				AUGUST '06	
Beginning balance	\$319.96	President	John Osborne		_____
2006 dues income	\$1.00	VPresident	Emil Cafarelli		_____
Non-dues income	\$0.00	Treasurer	Ken Hunt		_____
New balance	\$359.96	Editor	John Osborne		_____
Expenses	-\$0.00	Publisher	John Lee		_____
Total on deposit	\$359.96	Webmaster	Dan Hittenmark		_____
DUES: \$10/yr. check to MDMC c/o Ken			Macomb Community College 14500 E 12 Mile Rd, Warren, MI Room T-120 (parking off Martin Rd East of Bunert Rd Next meeting: AUG 9, 2006 (2nd Wed of every month)		

PRESIDENT'S MESSAGE Attendance at the meetings is a bit low and "Show and Tells" are dropping off. So show up, dig up your projects and demonstrate your techniques and tricks. If you don't, I can do lots and lots of CNC stuff...

MINUTES There were 18 members present, John O. and Emil C. presiding. There were no guests. We talked about the comfortable cushion of funds in the treasury and what we might do with it. Suggestions were to buy club tapes, books, publish the newsletter in colour, and make a club roster complete with mugshots or maybe all of the above.

JAMES HOWARD EXTENDS THIS INVITATION:

To The Club Membership;

My wife and I are planning a two-element presentation for the meeting of 9 August 2006. I will present a small and simple, but very effective forge of simple parts and fired by a blowtorch. The forge will easily heat 0.75" bar stock to yellow, or forging temperature. The construction technique and list of sources for the materials will be provided and several forgings of personal value in a shop will be demonstrated. My wife, Sallie, who has developed a lovely backyard garden over many years, will present it to any attending spouse or member interested in gardening. It is full of great found garden art and a lovely flower array. Our home, a 72-year-old English Tudor with a modern white oak kitchen, which I designed and constructed in my basement, may also be of interest to some of you.

Here are maps to James's place.

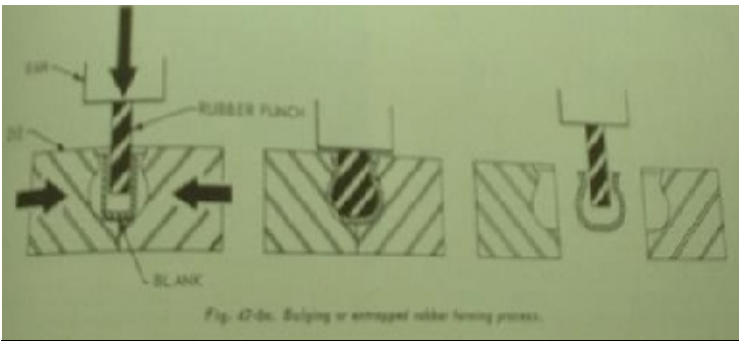


Fig. 47-6a. Bulging or extruded rubber forming process.

Emil Caferelli, in his never-ending quest to know how doorknobs are made (the hollow bras ones, anyway) finally found the answer in one of his books. Its like I found. A preformed deep drawn cylinder is place in a cavity die. A rubber (or urethane) punch is inserted in the preform and high pressure applied to force it into the die cavity, and then withdrawn. The die then splits and the doorknob is released. I kidded Emil about this, but I got a kick out of trying to figure out how such an ordinary object is made. I hope everyone else did. too.



I forgot who brought this mystery in, but whoever it was didn't know what this is. There is lettering on it relating to patents, but that didn't give it away. Any guesses, anyone???



These 3 pictures show what your president is up to. This is a CNC punching machine I am building from scratch. It will punch sheet metal in an area 2 feet by 8 feet. It weighs over 700 Lbs, so I can't bring it to the meetings. Its far more ambitious than my previous machines: it has servo controlled automatic punching, far larger X and Y travels, automatic tool clamping, tool rotating and automatic tool changing (probably 24 tools). Its all-electric – no hydraulics or pneumatics. The X,Y and Z axis just came up under computer control. **It's alive!** All the electronics are just screwed to a piece of wood. The first thing this machine will punch is an enclosure for itself.

