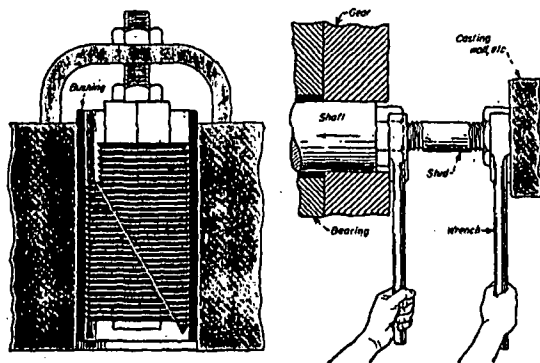


More PRACTICAL IDEAS



Bushings Must Come Out Now—'Or Else'

EVERY OPERATOR has sweated for hours over a stubborn bushing that wouldn't budge. Besides being in tight, a bushing is often in a spot you can't get at, let alone swing a hammer. That's why I made the puller shown here.

Puller is made of two rounded wedges to fit inside the bushing. Rounded outside has sharp-edged grooves for digging into the bushing. By making wedges of tool steel and then hardening and tempering edges, tool remains sharp and digs into any bushing metal.

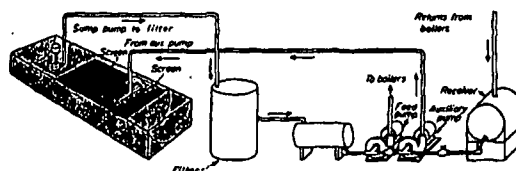
Left-hand wedge has large hole through center so it does not blind bolt

and can move sideways, away from right-hand wedge.

To use, place puller inside bushing, then tighten nut to expand wedges against bushing's sides. Place yoke and nut over bolt. If tightening nut on top of yoke won't pull bushing out in one piece, I don't know of anything that will do the job.

Another handy gadget for removing a shaft from a gear is made of two nuts and a stud, right-hand sketch. It's just a case of having a solid wall or something to anchor the stud against.

W D KENNEDY McCool, Miss.



Old Boiler Makes Feedwater Filter

WHEN OUR LOAD doubled last year, we had to put an extra boiler into service. Then we used twice as much cylinder oil as before. Strain was too much for filter. We got oil back in the boilers.

At first it looked as though we'd have to change the filter chemical more often, but that was an expensive job (12 bags for each change at \$20 a bag). We found a way to beat the rap.

We took one old condemned boiler and cut it through the middle. Then we welded in three baffle plates, sketch.

In two sections formed by baffles, we put charcoal and covered it with screen. Screen frames are from old 3/4-in. galvanized pipe, screens are 1/2-in. galvanized wire mesh. Next we installed a sump pump in third section to lift water to the filter. Pump is submerged type.

Boiler was left on its old setting, used old boiler-feed line and made connection to auxiliary pump supplying the filter.

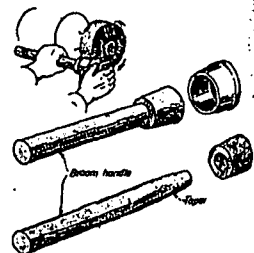
Now water from buildings enters collector and is pumped by auxiliary pump to filter. There it enters first section, and works its way down through charcoal to second section, where it is filtered some more. Then it overflows into third section. Biggest part of oil removed in first two sections.

Sump pump sends filtered water to the filter deodorized for its final purification. From there it is fed to the boiler feed receiver for use in boilers.

We change charcoal twice a year at cost of \$1 per change. Net cost of installation was \$170.80. Cost of replacing chemical twice a year would have been \$480. Our present cost per year is \$276 or a saving of \$204.

Installation paid for itself in one year—we get no oil back in boilers.

R Bocut Mount Hermon, Mass.



Wire Wheel Cleans Tapered Plugs

HERE'S AN EASIER and faster way for cleaning a tapered plug than shown in Operators' Notebook No. 63. We call this the spin method. If you have buff wheel-stand, it's easy to take plugs to wheel. Fit hand holder or spin-stick inside plug and use as shown.

Put hollow plug on spin-stick. With a pad in your hand, hold plug lightly against spin stick and apply against wire wheel. This causes plug to rotate on spin stick. Plugs clean quickly and thoroughly with no flat spots.

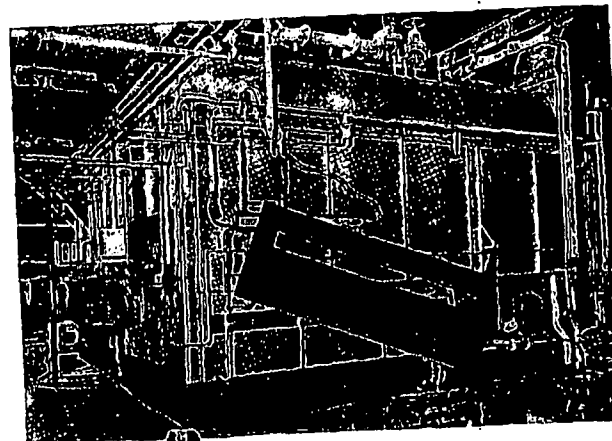
C H WILLEY Pennacook, N. H.

Wall Fountains

ONE ELECTRIC WATER COOLER is piped to four drinking-water wall fountains in our plant, saving that many coolers.

C A WELLS Sioux City, Iowa

THIS ERIE CITY "PACKAGE" INCLUDES A YARWAY SEATLESS



The above installation of two 300 hp. Erie City VL type boilers at a Detroit automotive plant shows Yarway Seatless Blow-off Valves as part of the "package" picture.

Good package-type boilers are better when equipped with Yarway Blow-off Valves.

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