

# Reservation Officer Gets Patent on Oil-Drill That Will Double Efficiency

11/9/33

A new oil well drilling bit which is believed will nearly double the efficiency of a drilling outfit was patented recently by E. H. Heddy, reservation police officer, who for 14 years was oil driller and superintendent, and Heddy is now working spare time on drawings for a full size working model which he expects to put to actual tests in oil fields next summer.

The invention comprises a new type bit with two pairs of cutters instead of one. The second set of cutters can be shifted into place without the tedious task of pulling several thousands of feet of drill pipe out of the hole.

The shift is made by dropping a metal plunger into the pipe. When this reaches the bit it drops down inside it and trips the second set of cutters, which then drop down below the worn-out pair and at the same time expand to the diameter drilled by the first set.

The outfit then can go right ahead until the second set of cutters is worn out, before having to pull the pipe and change bits.

Heddy started work on his invention while in the fields in Santa Fe Springs, California, in 1928, and materials for models, plus lawyer fees and other expenses, have cost him about \$1,500 to date, he said today.

In June 1929, while in Las Vegas, he applied for patent, and spent more than three years getting a satisfactory group of fourteen patent claims accepted, at last

securing the patent in August 1932.

From the drawings he is now making, about 28 in number, he will have a working model, for nine and five-eighths inch bore, made, at cost of \$200 or more, this to be put to actual tests, probably next summer. He will then be in position to market his invention, he plans.

Heddy claims his invention will cut "dead" time 50 per cent, and will make possible drilling with but half the wear and tear on the outfit, through elimination of half of the bit changes.

The inventor now has a small model which he has made himself, by hand for the most part, but which actually works exactly as the full size bits will work, showing every detail of function.

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## BOULDER JOURNAL TOO LATE TO CLASSIFY

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Will William Clark, formerly of Owyhee, Oregon, get in touch immediately with government dormitory two, room three. pj12

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## ROB MOUNTAIN CABINS

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MONTROSE, Col., Jan. 9. (UP) A well organized gang has been looting the mountain cabins in the Sapinero, Cimarron and Gunnison regions. The gang uses a truck in its operations and hauls away everything that is moveable.