

# OWEN ROCK GRAPPLES

## *feature independent tine action*

OWEN Grapples have two pairs of tines — the toggle tines (Fig. 1) which are fastened by means of a toggle arrangement to the lower sheave block — and the arm tines (Fig. 2) which are hinged to a pair of arm units, which in turn are attached to the upper crosshead assembly.

## *Here's how it works*

With tines in the fully open position, the grapple is lowered onto the rock to be handled. At this point, one or more of the tines may be in contact with the rock (Fig. 3). As the closing line is overhauled, the tines not already in contact move in toward the rock until they too make contact (Fig. 4). As each tine makes contact, the power is automatically transferred to the free tine or tines. Once all four tines make contact (Fig. 5), the gripping power is equally distributed to each tine and the load is firmly clamped in the grapple. With the rock securely gripped, the grapple can be raised in complete safety.

## *A full load every grab*

With OWEN's exclusive independent tine action, there's no need to "juggle" or pick at the rock until it is in the right position — with OWEN, any position is the right position. And you get a full load on every grab, regardless of the position or shape of the rock.

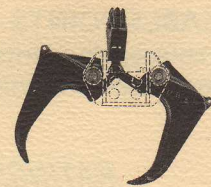


Fig. 1

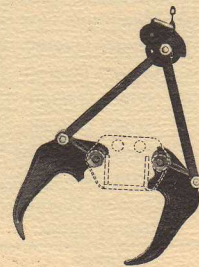


Fig. 2

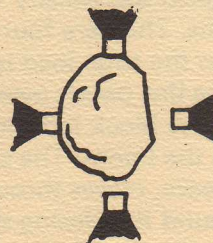


Fig. 3

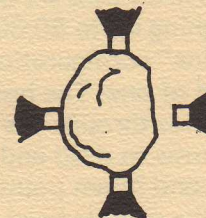


Fig. 4

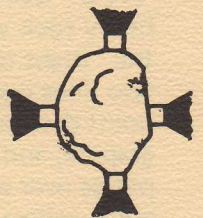


Fig. 5

THE **OWEN**

**BUCKET COMPANY**

6001 BREAKWATER AVE. • CLEVELAND, OHIO 44102  
CABLE ADDRESS: OWENCO (216) 651-0333

*Manufacturers of a Complete Line of Mechanical and Hydraulic Grapples and Clamshell Buckets*

