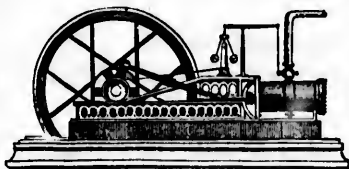


PALMER, KNOX & CO.
GOLDEN STATE IRON WORKS,
 Nos. 19, 21, 23 and 25 FIRST STREET,
 SAN FRANCISCO, CAL.

MANUFACTURE ALL KINDS OF
MACHINERY,
STEAM ENGINES & QUARTZ MILLS;



DUNBAR'S IMPROVED
Self-Adjusting Piston Packing,

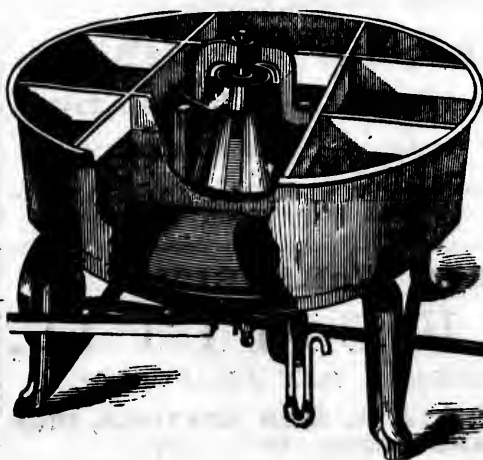
Requires no springs or screws; is always steam-tight; without excessive friction, and never gets slack or leaky.

WHEELER & RANDALL'S
NEW GRINDER AND AMALGAMATOR,
 Hepburn & Peterson's Amalgamator and Separator,
TYLER'S IMPROVED WATER WHEEL,

Giving the greatest power, at lower cost, than any Wheel in use. There are over 1,500 running.

KNOX'S IMPROVED PATENT AMALGAMATOR & SEPARATOR,

With Palmer's Patent Steam Chamber or Die.



This cut represents an Amalgamator and Separator that has stood the test of **THIRTY YEARS'** practical working in the gold mines of California, and for nearly the same time in the silver mines of Nevada, having been introduced into the first steam mills built in the then Territory, since which time they have been successfully working against all competition. The great advantages these Amalgamators have over any others, are—

1st. **MUCH LESS COST.**
 2d. They do not "flour" the mercury, and collect any that may have been "sickened" in the battery or grinders.

3d. The "sloshing" motion given to the pulp (by the revolution of the miller under the stationary frame) against the amalgamated copper plates that are fastened to the frame, and by this means catching the fine gold and mercury that will not settle.

4th. The gate in the cone, through which the pulp is discharged, from the top, and where there is the least motion, almost precluding the possibility of any granulated mercury or fine gold escaping.

There are over **500** of them in use in California and Nevada, where those interested can see their practical workings.

Genuine White Iron Stamp Shoes and Dies.

Having been engaged for the past eight years in quartz mining, and being conversant with all the improvements, either in Mining or Milling, we are prepared to furnish, at the shortest notice, the most perfect machinery for reducing ores, or saving either gold or silver.