twenty-five pounds of ore. It has a one hun- of mountain trail. dred and thirty-five-foot tunnel, tapping a fourfoot ledge. The Bonanza group has four claims from \$4.00 to \$5.00 per day."

ore belonging to the Portland company, and is dred and forty-four ounces silver and fifty-two showing a good yield. A twenty-stamp mill per cent lead. Water has put a stop to opening will be erected about the first of November, by this claim until machinery can be put up for the Oregon Gold Mining Co. This company pumping purposes. The mines are about eighty has an incline down its ledge two hundred and miles north of Idaho Territory and ninety miles seventy-five feet, and has thirteen hundred tons south of the Canadian Pacific railroad, a branch of ore in sight. Gold predominates, but it car- of which is now being surveyed to Kootenay ries some silver. The Alta No. 1 has an incline lake, and will be the means of opening up a of two hundred feet and shows high grade ore. vast and totally unprospected section. Still Alta No. 2 is down one hundred feet, all in good south of this place, and on the American side ore. Red Jacket is down fifty feet, and the of the line, is the new camp of Metaline, where richest ore yet found in the camp. The Forest more galena ore is in sight on top of the ground Queen has incline fifty feet, tunnel forty feet, than any person who has visited there has ever and six foot vein. One ton of ore worked at seen before, the ore, however, carrying only Omaha last fall yielded \$612.00. The Allen & about eight ounces silver. All these camps are Cox was the first discovered in the camp, Mr. reached from Sand Point, on the Northern Pa-Allen pounding out, with a mortar, \$190.00 from cific railroad, by water courses and a few miles

GOLD SAVING MACHINES.—Much interest is opened from fifty to seventy-five feet, all show- felt all over the Pacific coast in the question of ing high grade ore, and some of remarkable mining the flour gold found on the ocean beach richness. The Simmons group are the best de- and along the bars of the Snake, Fraser and veloped. The Whitman has one hundred and other rivers, where the gold is so fine, and the ten men at work. Work is plenty; wages \$2.50 sand so heavy, that it has been hitherto imposoutside and \$3.50 underground. Mechanics get sible to mine to advantage. The Range & Valley, of Mountain Home, L.T., thus describes the new machine in use there, which appears to be KOOTENAY MINES. - Returning prospectors the "long-felt want" of the sand miners: from Kootenay lake, B. C., report the mining "These machines are as simple of construction outlook in that region as very good. There are as they are durable. At the head of the maabout fifty quartz locations, all showing galena chine is an ample hopper, and from this the croppings, while a dozen have been opened up gravel passes into a large cylinder, about four to a depth of from twenty to seventy feet, ex- feet long and twenty inches in diameter, and hibiting ore continuously from the surface down. into a coarse, strong screen. The screen is One vein carries about twelve feet of solid gale- made fast to the cylinder, which makes from na of a low grade ore, eight to ten ounces silver, forty to fifty revolutions per minute, the flanges others showing from eight inches to two feet of on the outside carrying the bowlders and coarse ore, running from thirty to one hundred and gravel out through a spout at the opposite end, thirty ounces, while the "Krao" has two veins, and to one side of the plate, while all the smallone twelve and the other eight feet wide, the er particles are forced through into the cylinder, ore being both galena and carbonate, the latter or machine proper. The inside of this cylinder class, in some instances, running as high as is copper-lined, and constructed like an auger, sixteen hundred ounces, while the galena oc- three-inch copper flanges working from the curs scattered throughout the vein and is of low head of the machine, making a distance of one grade. A new district, about thirty miles south hundred and forty feet to be traveled by the of this camp, has been discovered this spring, sand, from its entrance into the machine until by Colville parties, one vein being about three it is discharged onto the table. The inside of feet across and carrying a copper sulphide ore this screw cylinder, like a battery, is charged assaying about eighty-five ounces silver, while with quicksilver, so that every particle of gold another has about eight feet of ore running from is caught as it comes in contact with the plate, sixteen to forty-five ounces silver, and pretty while tumbling and rolling through by the revheavy in copper. Two shipments of carbonate olutions of the machine. Through the center of ore were made from this claim, one lot going to the machine, also, runs a perforated iron pipe, Butte, and assaying two hundred and eighty- through which about an inch and a half of waseven ounces silver and forty-three per cent. ter can be forced with good pressure, the strong lead; the other to Portland, carrying two hun- jets aiding the "digestion" of the machine by