## 日月aily Monntainecr

NEW METHOD OF PURVERIZINE
The Monitor（Alpine county）Ga zette gives the following description of some machinery for a quartz mill with 6 capucity to pulserize 25 tons daily The machinery is on the ground，and the Bostou Company are about to put
The：
The machinery consists first of a erusher，weighing oomplete with shaf and pulley one ton．With fifteen horse power，making 1,023 revolutions per minate．One of these machines will orush gravel size fifteen tons of ordi nary quartz per hour－requiring one man to attend the crusher and two to bandle the ore．It consists of a circu lar table or disc of cast iron，three and a half feet across，with four blades or angular blocks of bard metal on ite upper surface near the edge．This table，weighing several hundred pounde is made to whirl with great velocits in the bottom of a cast－iron tub，the sides of which are pierced with holes an inch in diameter．The rock is ind is knocked and bainst the blades， it is small enough to escape through the perforations in the side，when i falls into a wooden chamber ten feet square，from which it is taken out by a shate，and fed into the next machine in order－the pulverizor－which consiste of a drum or hollow cylinder of cast iron about three and a balf feet in di－ ameter，eighteen inches wide，and weighing a bout one ton，flxed in strong timber work upon solid masonry．The cylindor rests its side with a borizonta shaft passing through its axis．This shatt，driven by a baod and pally carries inside the drum at a speed of 1，023 revolutions per minute，a wheel of iron exactly resembling the side wheok of chilled iron of peeup padde being of chilled iron of peculiar con Btraction，and patented．This whee 18 in fact an air．wheel，and not acrush－ must be bruken fine by the crustier before being introduced to the pulver izer－
The reduction is not done by rub bing or grinding，but by blows given by the paddie－wheel，by the attrition of the partucles one against another，
and by the action of the vortices of air croated within the cylinder by th rapid motion of the paddles．The air is admitted with the finely broken quartz，through a central hole in one head of the cylinder and delivered at the other end through a aimilar bole， the fineness of the pulverization being graduated by the admission of more or leas dir；the current may be made atrong unough to carry away the ma terial when no ther than ordinary corn meal，or it may be so moderated that it passes out in so fine a dust that with at the pse of the apray－wheel in many bours would be required for it to settle．Thus the whole mass may be reduced to a tineness not attainable even by any pan procese，and with this great advantage over any other plan，the gold and silver contained in the ore in a metallic state is found on examination under the microscope to have beaten and rolled into spheroidal pellets，like small shot，instead of be－ iug rabbed into scales，as by the stamp and pan process，theretore not liable to float away during the process of washing and amalgamation，which is the third and last stage in this Boston chain of processes，a description of whigh we are now unabie to give，but it is said to be a decided improvernent over any others now in use． power，and is capable of reducing 1,500 to 1,000 peands of quartz per hour， the entire yield being fit for amalga－ mation．Whus it will be seen one orusher willsupply twenty pulverizers， or it less be used the power ordinarily used iu amalgamating may be devoted sin hour or more each day to the orusher；and all the work earried on with comparatively small power．

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