

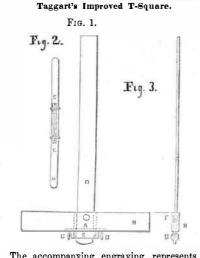
Crusher and Triturator. A quantity of quartz a more perfect pulverization by the action of the main crushing chamber, at X, and by a ly reduced, is carried with the current of wasuitable arrangement, a constant supply of the necessary quantity of water, admitted in a continuous stream, is poured upon it from the pipe, P. Motion is communicated from the driving power to the main crusher, A, by the connecting rod, C, and at the same time is continued to the smaller roller, A', by the connect- N. O is a plug, at which the mercury or amaling rod, C'; thus a constant vibratory rubbing gam can be drawn off at pleasure. and rolling action is kept up by means of which

The Scientific Dog.

The Editor of the "Portsmouth Journal' recently made a visit to E. Merriam, at Brooklyn Heights. Mr. M. is a meteorological observer, and has made records from three instruments, every hour, day and night, for eight years, many of which have been published in the "Scientific American." The editor inquired :-

"But, sir, how do you manage to keep your INTERESTS OF MECHANICS, MANUFACTURERS addressed. record through the night hours-you would AND INVENTORS. Each Number is illustrated with from FIVE TO TEN ORIGINAL ENGRAVINGS seem to want some time to sleep: how do you The Indigo plant thrives well at the Sandwich manage?" The reply was, "One member of Islands, in all moist situations and grows sponof NEW MECHANICAL INVENTIONS, nearly all of the family keeps the record from seven in the taneously wherever it once gets rooted. In the best inventions which are patented at Washington morning to seven in the evening. Another fact, from a single plant, it spreads with great being illustrated in the Scientific American. It also contains a WEEKLY LIST of AMERICAN PATENTS ;keeps it from seven to eleven in the evening rapidity, covering in a few years, many con. notices of the progress of all MECHANICAL AND SCIand I and my dog keep it the other eight tiguous acres, and rooting out everything else, ENTIFIC IMPROVEMENTS ; practical directions on the hours. I retire regularly, my dog is stationed even the thick sod of a heavy sward. CONSTRUCTION, MANAGEMENT, and USE of all kinds of MACHINERY, TOOLS, &c. &c. It is printed with newtypeon beautiful paper, and bein the entry by the clock, and at its striking 4+00+4 engraving The accompanying immediately scratches at the door. I rise, Photography on Linen. apted to hinding, th new mode of adjusting the tongue of a Tend of the year, of a LARGE VOLUME of 416 PAGES make the record, and in a few minutes am reg-Messers. Wulff, of Paris, have placed before Square to a right-angle with the stock. A illustrated with upwards of 500 MECHANICAL ENGRAularly asleep again until the dog gives notice. the French Institute some specimens of photo-VINGS. Drawing Square made in this way is perfectly graphy on linen, oil cloth, chintz, &c. The Scientific American is the Repertory of Patent Inof the expiration of another hour." ventions: a volume, each complete in itself, forms an En-cyclopedia of the useful and entertaining. The Patent manageable; it can be taken apart with dis-"We saw," he says, "the intelligent animal patch and without injury to the parts, to admit PRIZES!! PRIZES!! which has been so faithful in aiding his master Claims alone are worth ten times the subscription price The following Splendid Prizes will be given for the largest list of mail subscribers to the Scientific A perican, of straightening the edges when the material of to every inventor. in his scientific researches.-and also the eviwhich it is composed springs or becomes crook-TERMS! TERMS!! TERMS!!! dence of labor performed on the door of the sent in by the first of January next : ed. To a draughtsman this is a valuable im-\$20 for the 7th largest list. sleeping room of his master. His regular ser-\$100 for the largest list. One Copy, for One Year Six Months provement; it affords a cheap and tasteful \$75 for the2d largest list. \$25 for the 8th ditto vice for three years he has deeply recorded in \$50 for the 3d ditto \$45 for the 4th ditto Five copies, for Six Months \$20 for the 9th ditto ditto 84 square, its angle being at any moment under the panel of the door by an hourly scratch." Ten Copies, for Six Months \$8 \$15 for the 10th his complete control. Those who have used \$40 for the 5th ditto \$10 for the 11th ditto Ten Copies, for Twelve Months \$15 Fifteen Copies for Twelve Months \$22 \$5 for the 12th the square having the stock and tongue fastened \$35 for the 6th ditto ditto The Olive Crops promise to be most abun-The cash will be paid to the order of the successful Twenty Copies for Twelve Months \$28 permanently together, cannot fail to appreciate dant in the Ionian Islands, particularly in Corfu, Southern and Western Money taken at par for Subcompetitors immediately after January 1st, 1854. the advantages of this improvement. scriptions, or Post Office Stamps taken at their par value. These prizes are worthy of an honorable and energetic where the branches of the trees are actually Letters should be directed (post-paid) to competition, and we hope our readers will not let an op DESCRIPTION-Fig. 1 is a view of the Square breaking from the extraordinary weight of the MUNN & CO.. portunity so favorable pass without attention. 128 Fulton street, New York. ready for use. A is a screw passing snugly 21 Olives. For Terms see Prospectus on the last page.

spective view of a machine invented by R. H. | it is sufficiently small to pass through the screen, be increased by filling its interior with "sand. not liable to get out of order. Collyer, of San Francisco, Cal., as a Quartz G, into the small chamber, where it undergoes The smaller crusher or triturator, A', weighs rock, or other ore, is continually thrown into the smaller roller, A'. The ore being now fine- ed in weight. The machine presents nearly Iron Works, 466 Cherry street, New York. ter through the finer screen, G', into the amalgamator, where it is forced through the heated mercury by the slow movement of the fluted one portion of the surface of the crusher is rollers seen in the engraving. If any particles of gold should escape the action of these fluted rollers, they will be caught by the riffles,



two tons, and may in the same manner be increas facturers, T. F. Secor & Co., at the Allaire four thousand five hundred square inches of crushing surface.

The advantages claimed for it are, that when worn, it is so constructed that another may be presented; that it scours or rubs off the impure coating of the auriferous particles, that it thoroughly effects their amalgamation with the mercury; that it preserves the mercury in bulk The main crusher is 6 feet in diameter and instead of separating it in globules; that it is

> through the stock, H, and tongue, D, as shown by the dotted lines at F, fig. S. E is a metallic adjuster through which the tongue passes ; the adjuster is fastened to the stock. H, by two screws, as shown at C C, fig. 2. B B are set screws operating on the tongue, D, adjusting it to a right angle with the stock, H.

S. Taggart, of Indianapolis, Ind., is the inventor, to whom all communications should be having for its object the advancement of the

For further particulars address the manu-



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