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Improved Machine for upseting Tires. | with asphaltum and petroleum, both of which exist Improved Machine for upsetting Tires. with asphaltum and petroleum,
We present our readers this week with a view of in large quantities. Immense beds of the former are Dole's arrangement for up,ietting tires for wagons or other wheels. The engravings represent the machine very perfectly. The operation is performed by inserting the tire, A, between two sets of lugs, B, provided with keys, $C$; the tire, having prevtously been formed with a bend in it as at D, is held tightly by the keys while the blacksmith sets the bend down, which being hot compresses the metal together and thus shortens the tire. The lugs, $B$, are made of wrought iron, and are formed into a loop at the bottoms, as in Fig. 2; they are set in the mold when the anvil or bed, E , is cast, and are kept in place by the casting surrounding them. By this method of con-
found on the sea-shore in the vicinity of Santa Barbara, and is used largely in the construction of sidewalks, roofing, \&c., at San Francisco. Some 18 miles west of Buena Vista Lake, an exteusive deposit of asphaltum has been found, boiling up from numerous springs, being warm and in a fiuid state when it comes to the surface, and of a dark and viscid color. During the last year another extensive spring has been discovered near Pyramid Lake. On the coast, petroleum springs are met with at Santa Cruz, and San Pable, in Contra Costa county, 10 miles from San Francisco. The Conway Petroleum Association has bored several wells, one of which

## A Furnace falling into a Coal Mine

A very startling occurrence happened recently, near Wolverhampton, England. When the charge was near ly ready for being drawn off, one of the three blas furnaces at Rough Hills, belonging to Messrs. Aston and Shaw, suddenly fell into ruins. The furnaces were put up on an old colliery, the crust of which is only about seventeen yards thick; and it is thought that the pillars in the bottom coal, which was found at this distance, had been taken from either beneath the fur nace or else so near to it as to gradually draw it down, but it had previously exhibited no evidence of danger Two men were sadly burnt by the accident.

Hair-dressing.-Ladies will find the mode of plaiting eight strands, illustrated and described on page 244 of the Scientific American, current vol ume, a handsome way for dressing their braids.

There are one hundred and forty-nine shoe estab lishments and thirteen kid and morocco houses in Lynn, Mass. The internal tax on this department of manufactures amounted last year to $\$ 252,759$.

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