

CALCULATING SPEED OF PULLEYS.

The following are given as rules for calculating speed of pulleys:

I. The diameter of the driver and driven being given, to find the number of revolutions of the driven:

Rule. Multiply the diameter of the driver by its number of revolutions, and divide the product by the diameter of the driven; the quotient will be the number of revolutions.

II. The diameter and revolutions of the driver being given to find the diameter of driven, that shall make any given number of revolutions in the same time:

Rule. Multiply the diameter of the driver by its number of revolutions, and divide the product by the number of revolutions of the driven; the quotient will be its diameter.

III. To ascertain the size of the driver:

Rule. Multiply the diameter of the driven by the number of revolutions you wish to make, and divide the product by the revolutions of the driver; the quotient will be the size of the driver.

WOMEN IN SAW MILLS.

The employment of female labor, says the London Timber Trades Journal, is not unusual in the box-making establishments of Great Britain, but the tending of saw mill machinery by the fair sex is an innovation yet to be made. They are ahead of us in this development in America—as usual—for we understand that the saw mill of the Missouri Lumber and Mining Company, of Grandin, Mo., is "manned" (if the term is allowable) by women. A few weeks ago they built a new mill for dealing with Beaver Dam soft pine, and it was decided that only gentle hands should touch the productions. A woman was placed in command of the engine, another took the steam feed, nigger and kicker in hand, others were placed in the band saw department, and even the lath room was not forgotten, that branch of the business obtaining its full complement of fair workers, all attired in neat blouses and skirts. The concern has frequently 25,000,000 feet of lumber in stock, and the annual capacity of the mill is nearly three times that quantity.

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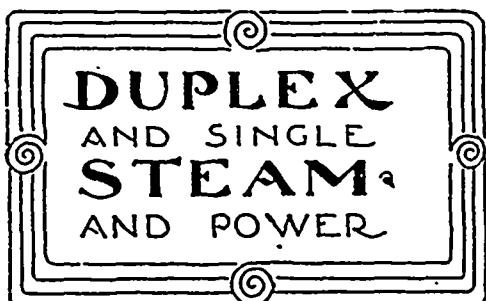
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