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Device for Raking and Loading Hay,

Painters, poets, and writers on rural subjects, delight to represent the life of the agriculturist as one of almost unalloyed pleasure; the labor is kept well in the shade. Haying, especially, is offered as one of the occupations abounding in hilarity with just enough of the primal curse to give zest to the enjoyment of the work. In this utilitarian age, however, we think that whatever can diminish manual labor and facilitate the work of the farm, bears with it the true poetry. The labor of cutting, curing, and gathering the hay crop is an onerous one, and every device

the frame, B. Near the driver's seat is a lever, I, by which he can readily throw the gear wheels in and out of gear, the frame moving in the slots, L. The operation is as follows: As the team is driven across the field, the traction or segment wheel, C, puts in motion the pinion, D, upon the lower arm, which propels the toothed belts. These being located immediately in front of the rake teeth so that the hay is taken by the straps or belts and elevated and deposited upon the load. The hay is held to the teeth of the straps by means of other straps passing down in front of the elevating straps. The rake is operated

as a hay tedder, spreading the hay loosely and evenly upon the ground.

Patented through the Scientific American Patent Agency on May 29, 1866, by A. W. Hearny, to whom apply for further information at Doylestown, Pa.

Healthful Effects of the Tomato.

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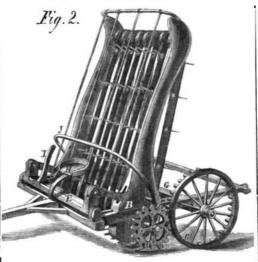


HEARNY'S HAY-RAKING AND LOADING DEVICE.

or forwarding the work and diminishing the labor, should be encouraged, or, at least, noticed. The following is a concise description of a combination that appears to promise a diminution of the work of hav making.

This invention consists in the combination and arrangement of a series of toothed belts with a hay rake attached to the front of a wagon, for the purpose of raking and elevating hay upon the load. This device it so arranged that the driver can operate and control both the rake and elevator at the same time.

Fig. 1 is a geometrical perspective view of the machinery while in operation, and Fig. 2 is a perspective view of the elevating straps and frame upon which they work. In Fig. 1, A represents the body of the rack; B the frame to which the elevating straps are attached. C is one of the front wheels of the wagon, which is provided with toothed.segments, the teeth of which mesh into a corresponding pinion, D, which is secured to the outer end of the lower drum over which the elevating straps pass. E is a rock shaft from which two arms, K K, extend up and receive levers or bars, F F, which are connected to



by means of the curved brace, A, or-lever. By detaching the wagon box the front portion may be used

out salt, or pepper, or vinegar, or altogether to a like advantage, and to the utmost that can be taken with an appetite. Its healthful quality arises from its slight acidity, in this respect as valuable, perhaps, as berries, cherries, currants, and similar articles; it is also highly nutritious. The tomato season ends with the frost. If hung up in a well-ventilated cellar, with the tomatoes hanging to the vines, the "love apple" will continue to ripen until Christmas. The cellar should not be too dry nor too warm. The knowledge of this may be improved to great advantage for the benefit of many who are invalids, and who are fond of the tomato.

Petroleum lubrications do not seem to be the right thing. The Union Mills of Fall River, Mass., have just had 6,000 cases of calicoes thrown back on their hands, damaged by petroleum oil, which was used as a lubricator on the looms, and spattered on the cloth. All the washing and bleaching the fabric was subjected to at the print works failed to eradicate the petroleum and the consequence is a chemical "spotting" effect on the colors.