made up in bundles or stones of fourteen pounds each. One method is represented by Fig. 25, in which the sorter lays the stricks lengthwise over three bands, with which the bundle is tied when finished.

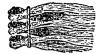


Fig 26.

By another method a twist is given to the strick. It is then doubled at the centre and the two ends brought together as in Fig. 26. A band is then passed round their twisted ends, making them ready for bagging. Two hundred weight are put in each bale, or sixteen stones of fourteen pounds each. The flax is now ready for market.

A store room for flax is no unimportant part of a flax factory. If flax is kept too dry it loses in weight and quality. It should be close ly packed together in a dark and damp apart ment.

Flax has now been brought to that state in which it is purchased by the spinner. But before saying anything of spinning, a description of Watt's chamber for steaming will serve to complete the routine of flax preparation.

It has been before observed that the only point of difference at the present day between the system of Schenck and that of Watt is, that in the former, fermentation at a high temperature is its main feature, while in the latter, the chief characteristic is maceration without fermentation. To Watt, however, is due the extensive introduction of wet-rolling.

A chamber, of which Fig. 27 is a section, may be described as a hollow, air-tight vessel, made of cast iron plates. It is about twelve feet in

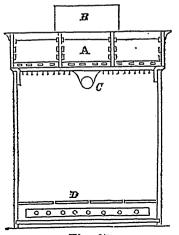


Fig. 27.

length, six feet in width, and six feet in derincluding the space between the false and truels tom, which is about nine inches in depth; but including the condensing cistern, (A,) on the of the chamber, which is sixteen inches.

The hot water cistern, (B,) set in the condaing cistern is three feet square. A tub, (in the interior of the chamber and number set connected with it, by which chamber is two thirds filled with liquor interior ately before steam is admitted.

In the interior of the chamber we find a steam-pipe between the false and true between the false and true between the false and true between the steam-pipe is the false bottom (a consisting of perforated plates, supported the same work on feet; also a bar connecting a two sides of the chamber to prevent their apansion or collapse.

On the outside of the chamber are found an ar-valve, for the admission of air when steen shut off, two cocks to indicate the quantum water in the chamber; and two doors, or each end opening outwards, each 2 feet 5 independent of the square. These are used for filling and empticand are screwed up and made steam tighting gaskin of tow. There is also a pipe for all ting steam to the chamber, exhaust steam to the engine is used,) and another for the say of the steep liquor. Surplus steam escaps a safety valve on top.

When flax is ready to be taken out of chamber, the steep liquor is drawn off into underground eastern, and there mixed with overflow from the condensing cistern will view to its future use in other chamber is same regard is not had in practice for a constant of watt's system exhibits.

The test by which flax is known to be signify steamed, is the easy separation of the dermis between the tinger and finger and the All subsequent operations in this system, a ling, drying, scutching &c., resemble the ready described, and require no separaters

Figure 28 represents a ground plan of al Factory on the system of Schenck. Als boiler-house; B, the engine room; C, these mill; D, the seeding house; E, the step house for the vats; F, the wet-rolling by both of which are under the same regist the tow-room; H may be used as a shouse; I is a workshop; J and K are houses; N is the reservoir which supplies the stablishment with water, among other thank L, in which water may be heat steam for the vats; and M is the store.

Grounds for a stack-yard and drying for usually attached to a rettery of this descrip

Flax passes from the rettery to the sur the spinning-mill, from which it is selected roughed. The finer qualities are taken flax-breaker, where the ends are cut off. I are called cut-line, and are spun to low man