

grain.

D, is a continous revolving apron for carrypart of which falls through the grating, for concomposed of links E, of cast iron, and curved F, which drive the belts, and wheels, G, from it all the grain which has been among pass and are separated in the usual way. which stretch them. Slats connect the opposite it. The narrow iron chain or belt as above While the heads or unpulled grain are pass-

is liable to carry off and waste a portion of the into their ends after insertion. The links are is effectually desirable on account of its applicaprovided with teeth enough to enable the cog bility to impart the jerking motion before dewheels, F, to revolve the apron by their means. scribed. The grain and small chaff thus separing off the straw from the grain, the major Placed at intervals beneath the belts are rollers, ate from the straw drops on to the sloping R, which serve not only to support the belt but sides of troughs, I, at the bottom of which, rerevance to the winnowing mill, as hereafter by the collision of the curved and toothed volves conveyors J, which as fast as the grain described. This apron has two metallic belts, links with their upper sides, an intermittent falls move it forward and upward, and deposit jerking motion is imparted to the apron which it upon the riddle, K, of the winnowing apparconcavely on their inner edge, to fit the wheels, keeps the straw loose, and effectually separates atus, through which the milled grain cheat, &c,

links of the two belts, the said slats being firmly described is preferable to the usual leather ing onward along the riddle, K, they drop

Figure 2.



instrument is oval, our section is the longest diameter. The engraving is the full size.

Ocean Steamers in Congress.

A bill has been introduced into Congress, relative to ocean steamships, providing that it shall not be lawful for the master or owner of any sea-going or ocean steamship to use or employ such ships for the transportation of passengers between any port or place in the United States and a foreign country, or between any ports or places in the United States, distant from each other more than five hundred miles, until the said ship shall have made one voyage to sea and her engine shall have been practically tested. It provides that the master or owners of any sea-going or ocean steamship which shall transport or carry any passengers for hire before her engine and machinery shall have been practically tested in the manner set forth in the bill, shall forfeit and pay to the United States for each passenger so transported or carried, the sum of \$100, and shall not be entitled to recover any passage money from the passengers.

Improved Grain Separator.

We present our readers this week with illustrations of Moffitt's improved grain separator, patented, Nov. 30, 1852. Fig. 1 is a perspective and fig. 2 a sectional view. The same letters in each refer to corresponding parts. The machine consist of an ordinary frame A, having at one end the feed table, B. C, is the cylinder, made of wrought iron and sixteen inches in diameter. It works in a spiked concave having two rows of teeth, seventeen in each, of the same length as those of the cylinder; these latter are fixed in the bars by screws, and are also seventeen in each bar. But this although somewhat new in England, where this machine has been introduced and extensively used is an ordinary mode of construction in this country. The prominent points of improvement in this machine consist in devices for the prompt and What is claimed in this arrangement as new, ist of Tiptree Hall. One of them is on exhibithorough separation of the grain from the straw,

therefrom into the trough, L, whence they formed of links, whose cogs are at one part of from an examination of it, that it was a dura are removed by a conveyor into a shoe, M, their rotation, in connection with the pinions, ble and efficient machine, embracing all the or means of propulsion, and are at another part recent improvements upon separators. Our which returns them to the beater of the machinery apparatus around two thirds of whose of their rotation in connection with the rollers readers are probably aware that the English circumference having passed and being mostly or the stationary objects, a means of agitation are far behind us in this class of agricultural mplements, and the "American Threshing Marid of their mills they are thereby enabled to of the said apron. chine," seems likely to obtain a notoriety almost pass through the winnowing apparatus, but any This is the machine which has created so which pass a second time unpulled, are sure to great a sensation in England, under the patron- as great as the "American Reaping Machines" be introduced again to the threshing machinery. age of Mr. Mechi, the celebrated agricultur. of McCormick and Hussey.

Any information desired can be obtained by s the continuous open apron having its belt tion at the Crystal Palace. We should think, addressing the patentee at Piqua, Ohio.

