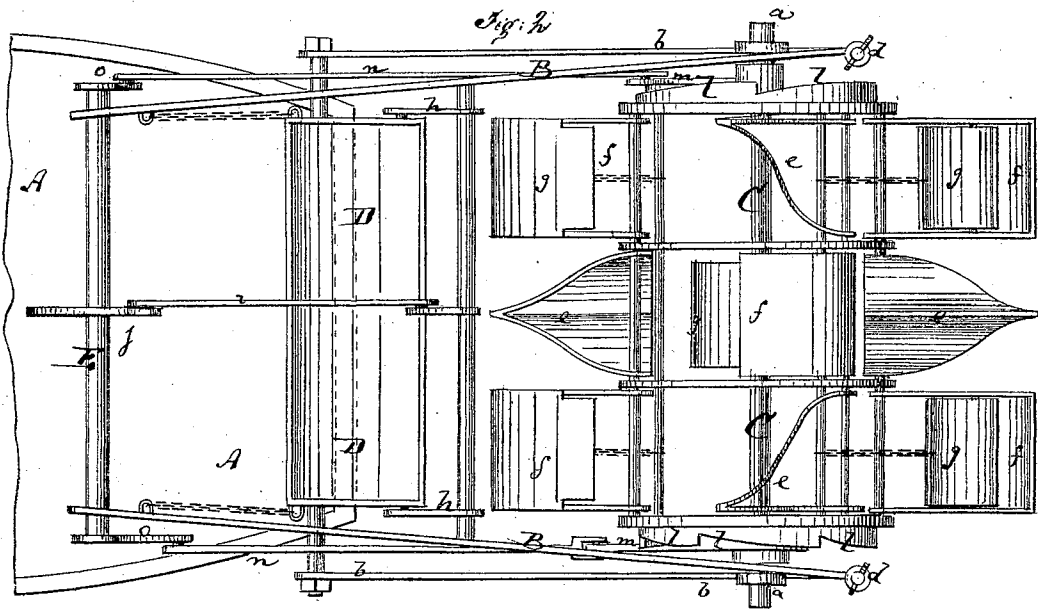
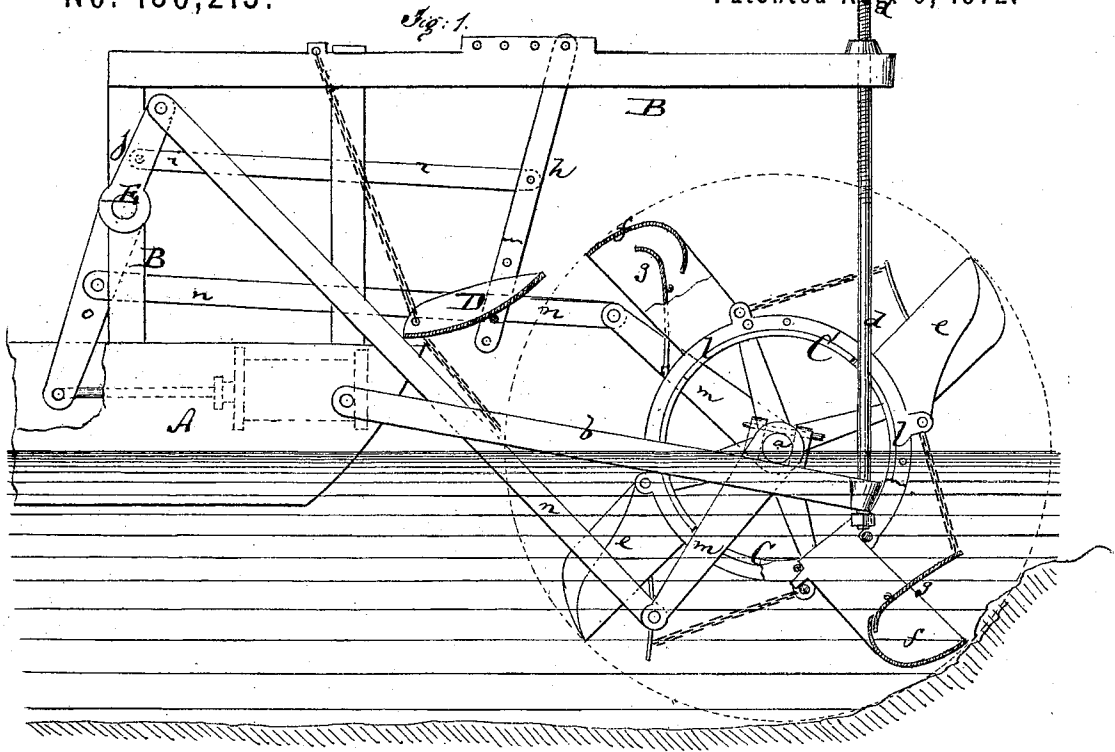


H. GONELLAZ.

Improvement in Dredging-Machines.

No. 130,213.

Patented Aug 6, 1872.



Witnesses:

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UNITED STATES PATENT OFFICE.

HYACINTHE GONELLAZ, OF HOUMA, LOUISIANA.

IMPROVEMENT IN DREDGING-MACHINES.

Specification forming part of Letters Patent No. 130,213, dated August 6, 1872.

Specification describing a certain Improved Dredging-Machine, invented by HYACINTHE GONELLAZ, of Houma, in the parish of Terrebonne and State of Louisiana.

Figure 1 represents a side view, partly in section, of my improved dredging-machine. Fig. 2 is a plan or top view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new dredging-machine, to be used in rivers, canals, or lakes; and consists in a novel arrangement of colters and buckets, receiving-pans, and operating mechanism, all as hereinafter more fully described.

A in the drawing represents part of the end of a vessel to which my improved dredging apparatus is applied. B is the frame erected thereon for the support of the dredging-wheel C and of the mechanism for moving the same. The axle *a* of the dredging-wheel is hung in pivoted arms *b b*, so that thereon the wheel may be lowered to greater or less depth. This is regulated by means of bolts or chains *d d*. The dredging-wheel consists of three, more or less, parallel series of alternate colters, *e e*, and buckets *f f*, each series being arranged in a separate circle. The colters are shaped somewhat like plowshares, and serve to cut and loosen the ground in advance of the buckets which take it up. Each bucket *f* contains a swinging back or dumping-spoon, *g*, which serves to empty the bucket of its contents when arrived in proper position. D is the first

receiving-pan, suspended by pivoted rods *h h* from the top of the frame B, which are connected by rods *i i* with a crank, *j*, on the operating-shaft E of the mechanism.

Whenever a filled bucket arrives in front of the pan D the latter is swung toward the same into position to receive the contents discharged therefrom. The pan is then carried back and dumps its contents into a second distributing-pan, receiving-reservoir, or tank. Whenever a bucket, *f*, arrives in front of the pan *d*, in position for discharging its contents, the spoon *g* in such bucket is vibrated by gravity and by its connection, or either, to insure a complete discharge.

Motion is imparted to the wheel C by means of a loose crank, *m m*, on its axle *a*, engaging into ratchet-teeth *l l* that are formed in the ends of the wheel. The cranks *m m* are, beyond *n*, connected with cranks *o* on the driving-shaft E, and thereby receive their vibrating motion, which, on the wheel C, is converted into intermittent rotary.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The colters *e*, the buckets, *f*, the dumping-spoons *g*, and the pans D, all combined and arranged in a dredging-machine to operate as described.

HYACINTHE GONELLAZ.

Witnesses:

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