

D. Cammerer,

Fitching Casks.

No. 104,421.

Patented June 21, 1870.

fig. 1.

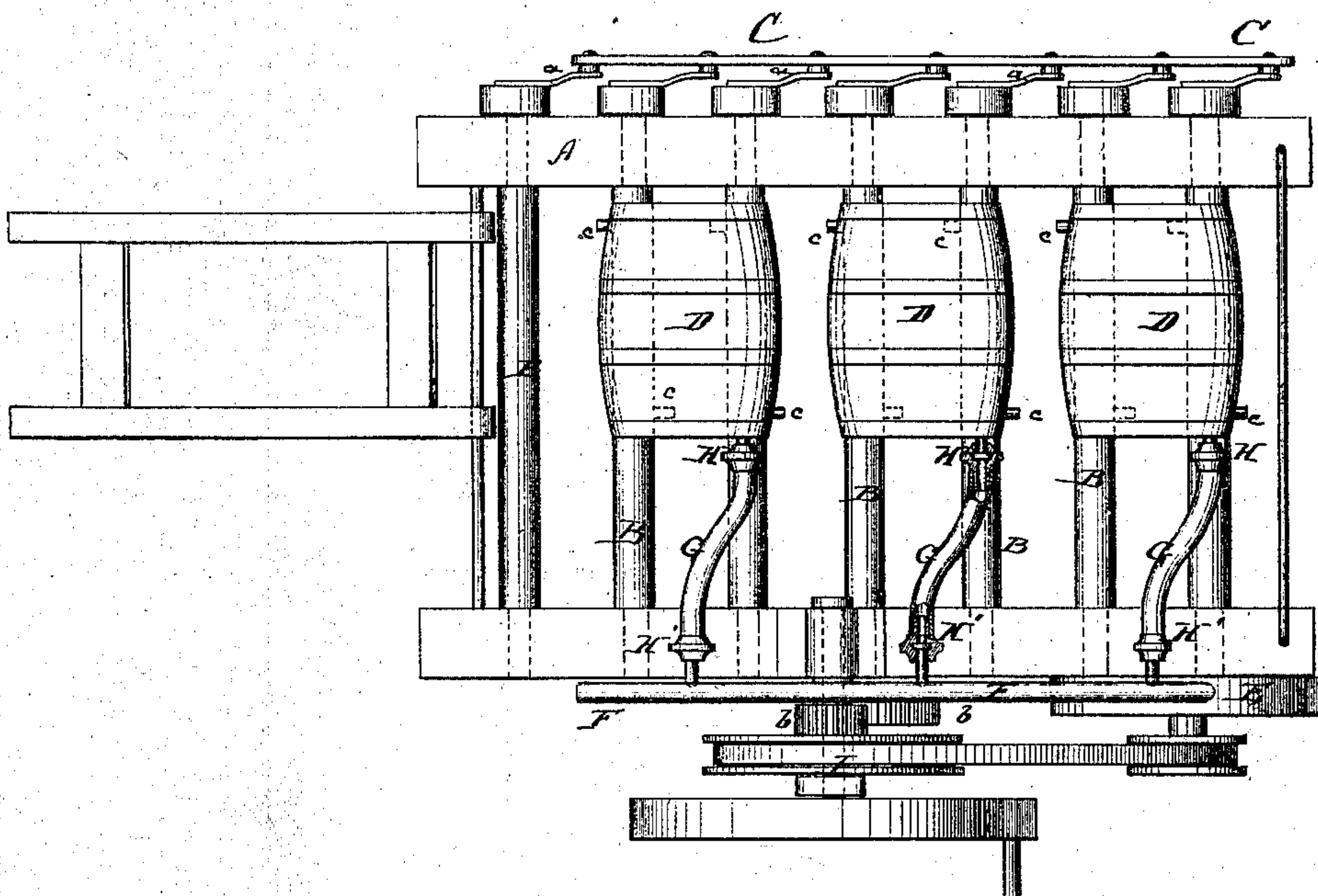
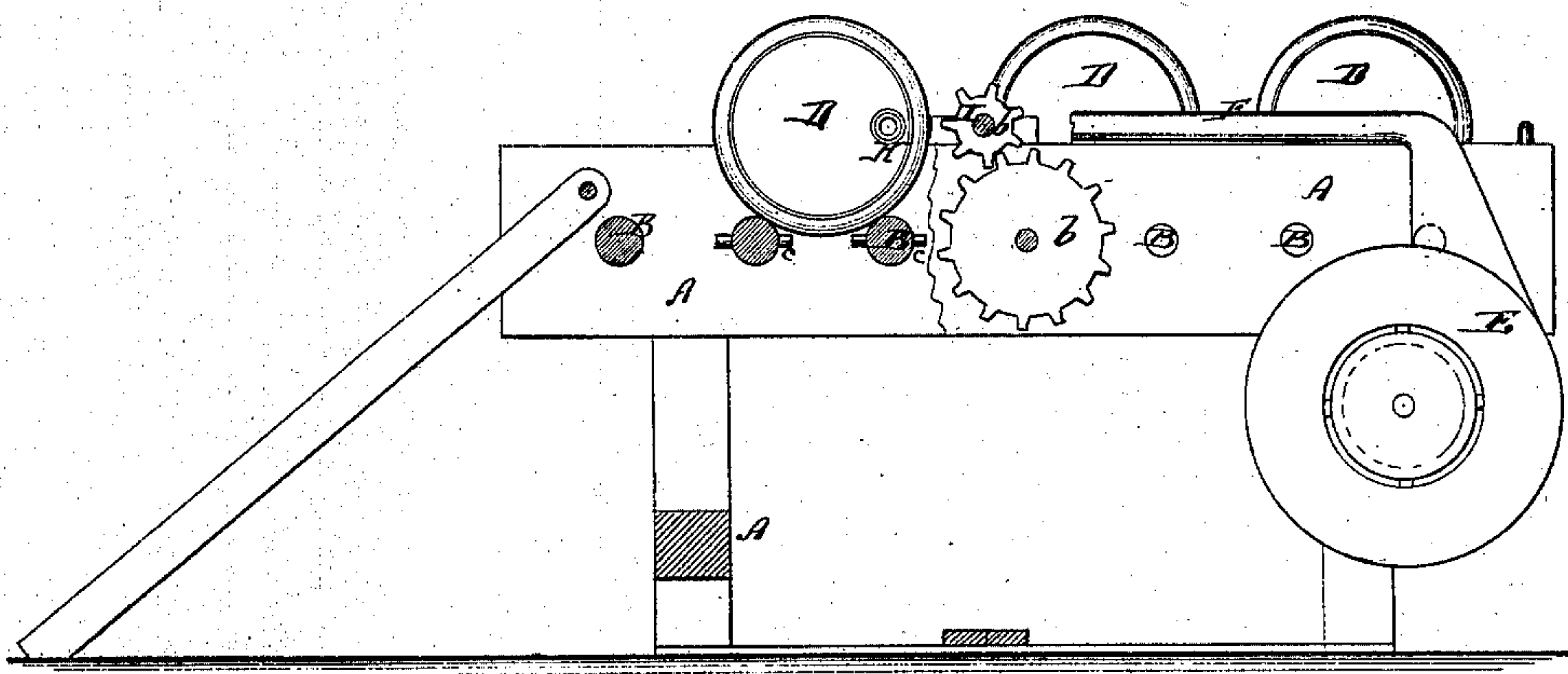


fig. 2.



Witnesses:

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DAVID CAMMERER, OF CINCINNATI, OHIO.

Letters Patent No. 104,421, dated June 21, 1870.

IMPROVEMENT IN APPARATUS FOR AGITATING AND COOLING BARRELS AND CASKS DURING THE PROCESS OF PITCHING.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, DAVID CAMMERER, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and improved Apparatus for Rolling and Cooling Barrels, Casks, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 represents a plan or top view of my improved rolling and cooling apparatus.

Figure 2 is a front elevation, partly in section, of the same.

Similar letters of reference indicate corresponding parts.

This invention has for its object to construct an apparatus for agitating and cooling barrels and casks immediately after the inner sides of the same are covered with pitch or other water-proof composition. Heretofore, each barrel or cask, after having received the hot inner lining, had to be rolled on the floor or ground, so as to evenly spread the lining over the inner surface, and the motion had to be kept up until the lining was coagulated. The waste of time and labor connected with this process was considerable, and out of proportion with the result produced.

My invention consists, first, in providing an apparatus on which a suitable number of barrels or casks can be simultaneously rolled or agitated for spreading the liquid lining.

My invention consists, also, in the application to an agitating or rolling apparatus, of a blower, for forcing cold air into the several barrels or casks, and consequently hastening the cooling process.

A, in the drawing, represents a frame of suitable size and construction, made of wood or other material. In this frame are hung a suitable number of horizontal or inclined shafts, B B, which are all, by means of cranks *a a*, connected with a rod, C, so that their motions will be alike.

One of the shafts B receives rotary motion by gearing *b b*, or otherwise, from a driving-shaft, D, and

communicates its motion to all the other shafts by the rod C, and cranks *a*.

The shafts B B serve as a rack upon which the barrels or casks I are placed after having been or while being lined.

Each shaft B contains a suitable number of projecting pins, *c c*, which, while the shafts are turned, serve to roll and thereby agitate the barrels or casks. Thus a suitable number of barrels or casks of suitable sizes can at once be properly rolled for spreading the lining.

E represents a fan, or other suitable boring apparatus, attached to the frame A, or arranged near the same for forcing the air into a pipe, F, whence elastic tubes G G are carried to the several barrels or casks.

The tubes G are, by means of swivel-couplings H H, connected with the several barrels, as shown, so as not to be strained by nor interfere with the motion of the same. This swivel-coupling consists of two short metallic tubes swiveled together, one being fixed to the barrel, and the other to the tube G, as shown.

Similar swivel-couplings, H', may be used for connecting the tubes G with the pipe F.

Air is, by the fan or its equivalent, blown into each barrel or cask, for the purpose of hastening the cooling of the lining.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

1. The barrel-rolling apparatus, consisting of the connected shafts B B, which contain the projecting pins *c c*, substantially as and for the purpose herein shown and described.

2. The combination of the air-blowing with the barrel-rolling apparatus, substantially as herein shown and described.

3. The swivel-coupling H, arranged on the elastic air-tubes G, and on the rolling barrels or casks, as set forth.

DAVID CAMMERER.

Witnesses:

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