

J. H. LE ROY & R. G. REPMAN.
 PAPER MAKING MACHINE.
 APPLICATION FILED SEPT. 18, 1918.

1,297,192.

Patented Mar. 11, 1919.
 2 SHEETS—SHEET 1.

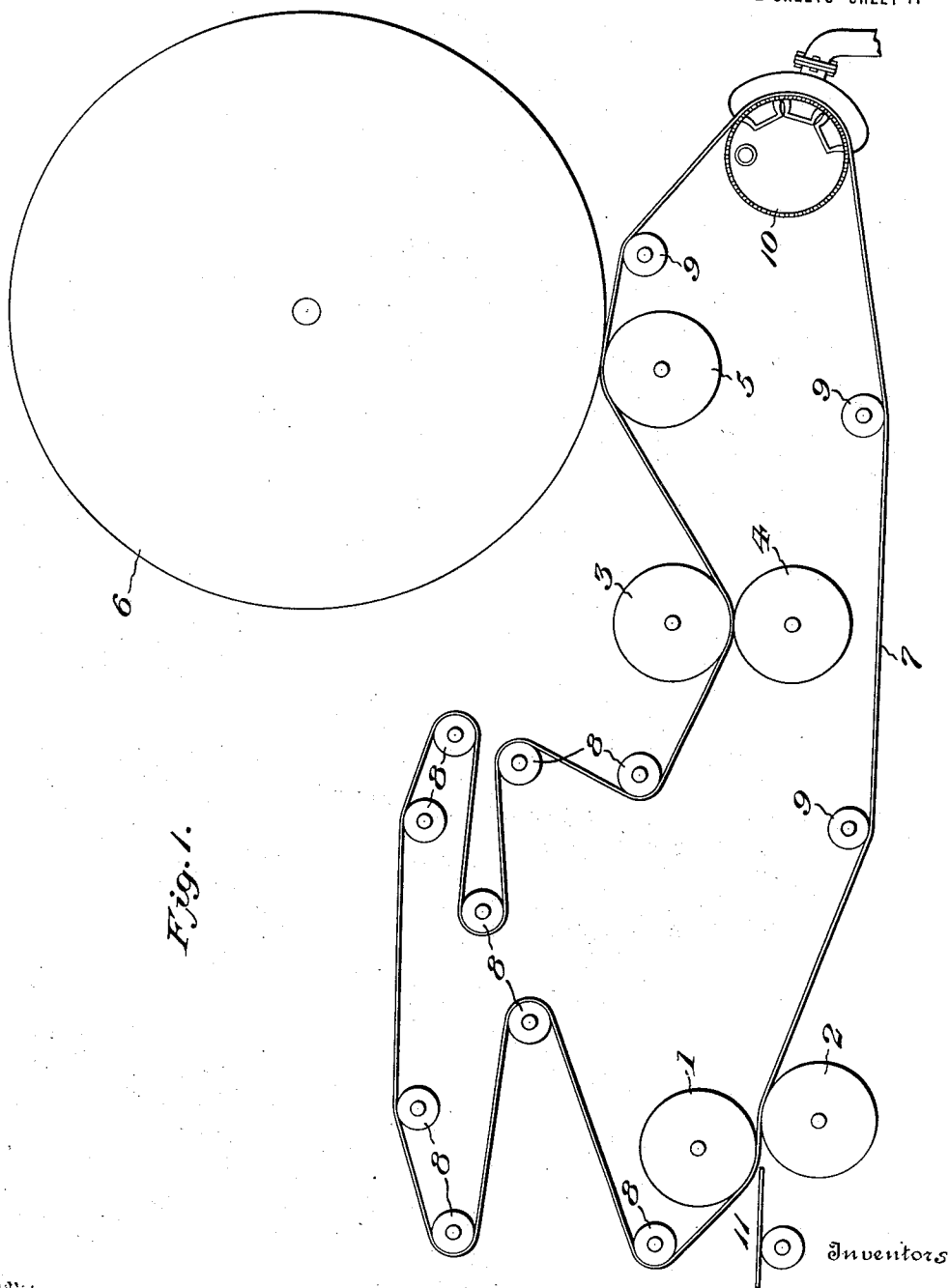


Fig. 1.

Witness

Edwin J. Mc Kee

James H. LeRoy
Ray G. Repman

By

Victor J. Evans

Attorney

J. H. LE ROY & R. G. REPMAN.

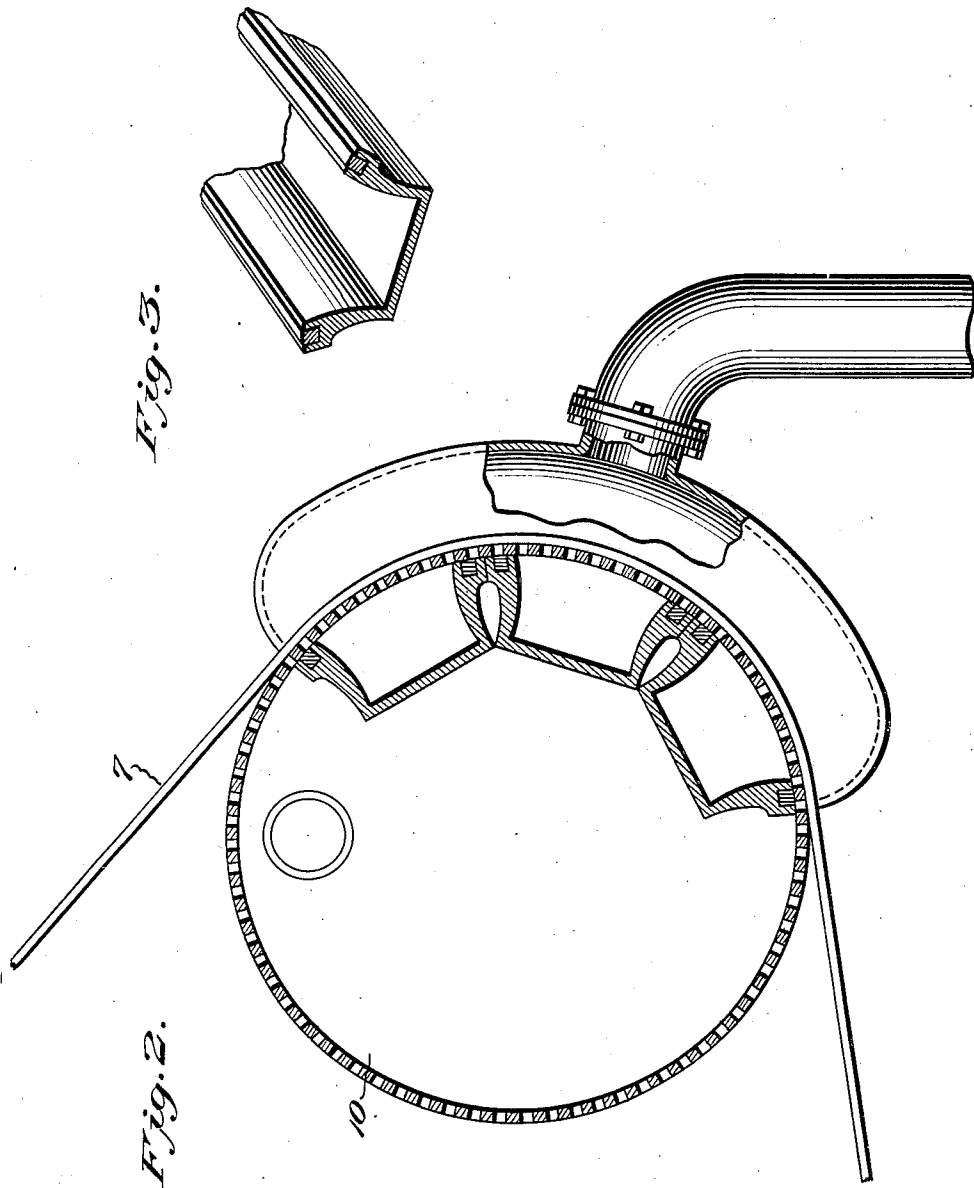
PAPER MAKING MACHINE.

APPLICATION FILED SEPT. 18, 1918.

1,297,192.

Patented Mar. 11, 1919.

2 SHEETS—SHEET 2.



Witness

Edwin L. McKee

Inventors

James H. LeRoy
Ray G. Repman

By

Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

JAMES H. LE ROY AND RAY G. REPMAN, OF SHAWANO, WISCONSIN.

PAPER-MAKING MACHINE.

1,297,192.

Specification of Letters Patent.

Patented Mar. 11, 1919.

Application filed September 18, 1918. Serial No. 254,690.

To all whom it may concern:

Be it known that we, JAMES H. LE ROY and RAY G. REPMAN, citizens of the United States, residing at Shawano, in the county of Shawano and State of Wisconsin, have invented new and useful Improvements in Paper-Making Machines, of which the following is a specification.

This invention relates to improvements in paper making machines, especially the kind in common use and known as Yankee paper machine for making machine glazed paper and in which a top felt or endless apron and a bottom felt or endless apron are used, the object of the invention being to provide an improved machine of this character in which the bottom felt is dispensed with, so that we are enabled to effect a considerable economy, inasmuch as the felts are extremely expensive and wear out in a very short time.

With the above and other objects in view, the invention consists in the construction, combination and arrangement of devices hereinafter described and claimed.

In the accompanying drawings:

Figure 1 is a diagrammatic elevation of a paper making machine constructed and arranged in accordance with our invention.

Figs. 2 and 3 are detail views.

In accordance with our invention the usual top and bottom couch rolls 1, 2 are used, the usual top and bottom press rolls 3, 4 are used and the usual pressure roll 5 is used, the same being arranged on the under side of the usual drier or drying drum 6.

We dispense entirely with the usual lower

felt or endless apron or belt and employ only a single felt 7, the said felt 7 being endless and engaging the usual direction rollers 8, 9 and also engaging and passing between the top and bottom couch rolls, the top and bottom press rolls, the pressure roll 5 and the drier 6.

We also provide a suction roll 10 which is arranged below the drier and also below and to the front of the pressure roll, the felt also engaging the suction roll as shown.

In the operation of the machine the pulp comes down on the wire at 11 and there the felt picks the sheet off of the wire and carries it over to the suction roll, where the moisture is removed from the sheet, and thence between the drier and pressure rolls where the sheet is pressed to the drier which dries it to a sheet of paper. The sheet is then wound onto a reel, from which it is taken off in the usual manner.

Having thus described our invention, we claim:

In a paper making machine of the class described, the combination of upper and lower couch rolls, upper and lower press rolls, a drier, a pressure roll below the drier, a suction roll, and a single endless felt, said endless felt passing between the couch rolls, the press rolls, between the pressure roll and drier, and also engaging the suction roll.

In testimony whereof we affix our signatures.

JAMES H. LE ROY.
RAY G. REPMAN.