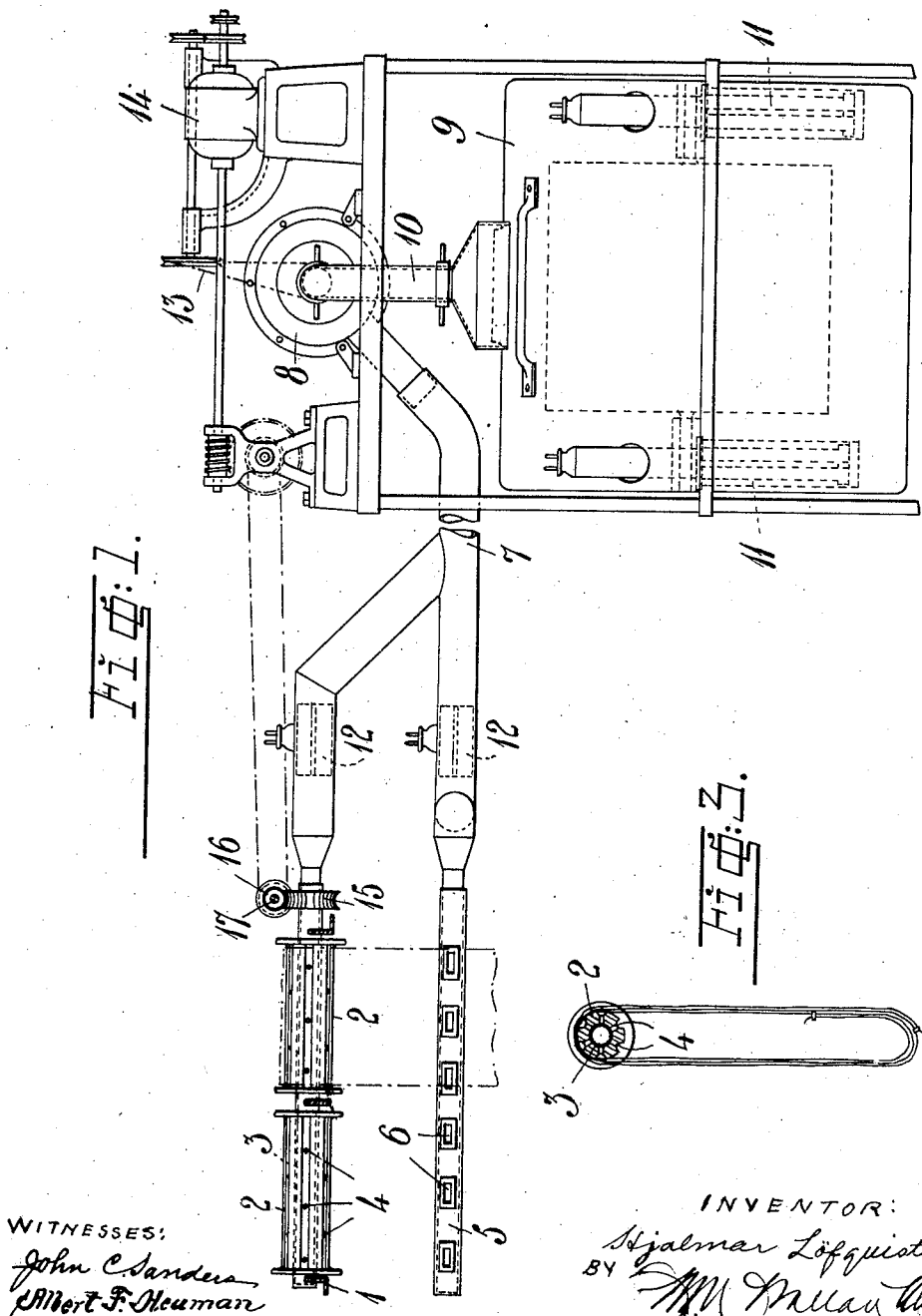


H. LÖFQUIST.
 APPARATUS FOR DRYING CLOTHES AND OTHER ARTICLES.
 APPLICATION FILED MAR. 26, 1912.

1,047,958.

Patented Dec. 24, 1912.

2 SHEETS—SHEET 1.



WITNESSES:
 John C. Anderson
 Albert F. Neuman

INVENTOR:
 Hjalmar Löfquist,
 BY *[Signature]*
 ATTY.

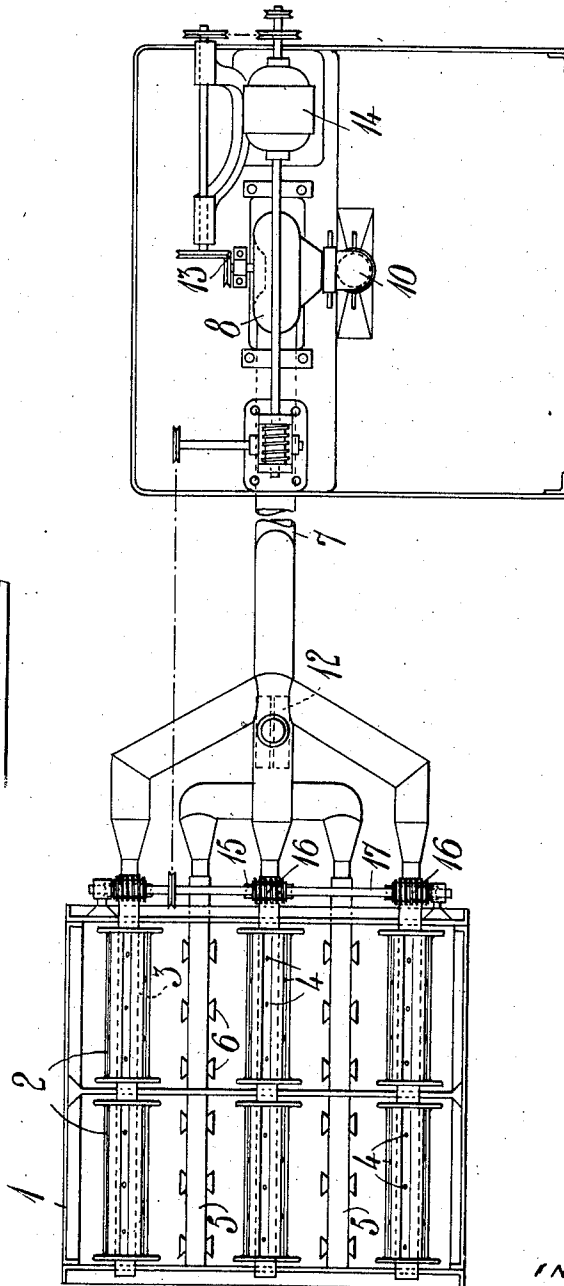
H. LÖFQUIST.
 APPARATUS FOR DRYING CLOTHES AND OTHER ARTICLES,
 APPLICATION FILED MAR. 26, 1912.

1,047,958.

Patented Dec. 24, 1912

2 SHEETS—SHEET 2.

Fig. 2.



WITNESSES:

John C. Sanders
Albert F. Neuman

INVENTOR:

BY *Hjalmar Löfquist*
M. M. Miller
 ATTY.

UNITED STATES PATENT OFFICE.

HJALMAR LÖFQUIST, OF STOCKHOLM, SWEDEN.

APPARATUS FOR DRYING CLOTHES AND OTHER ARTICLES.

1,047,958.

Specification of Letters Patent.

Patented Dec. 24, 1912.

Application filed March 26, 1912. Serial No. 686,317.

To all whom it may concern:

Be it known that I, HJALMAR LÖFQUIST, a subject of the King of Sweden, residing at Birger Jarls gatan 21, Stockholm, Sweden, have invented new and useful Improvements in Apparatus for Drying Clothes and other Articles, of which the following is a specification.

The present invention relates to apparatus for drying clothes and the like and has for its object to provide an improved apparatus particularly useful in drying large articles such as sheets, table cloths and the like, after same have been washed.

According to this invention the clothes or the like to be dried are supported upon rollers provided with longitudinal channels and cross channels diverging from the same in order to distribute air over the surface of the clothes from the inside, said air being blown into the longitudinal channels. The rollers are preferably provided with longitudinal grooves in the bottom of which the cross channels discharge, for facilitating the uniform distribution of the air over the clothes and also the feeding forward of the clothes over the rollers by rotating the latter which may, for this purpose, be connected to a motor by suitable transmission gear. Further, pipes may be arranged laterally with respect to the rollers and also in a lower plane than said rollers the said pipes being provided with apertures or nozzles of suitable form for blowing air over the clothes from the outside, said pipes and the interiors of the rollers preferably being connected to a common fan. Finally, in the air conduit or conduits, either before or after the passage through the fan or both, heating elements, which may be electrically heated, may be arranged for heating the air.

To enable the invention to be fully understood, it will now be described by reference to the accompanying drawings in which one suitable form of apparatus constructed according to the invention is shown combined with a washing machine.

Figure 1 is a side view of the apparatus. Fig. 2 is a plan view of same and Fig. 3 shows a detail of the drying apparatus in vertical cross-section.

In a frame 1, adapted to be supported in any suitable manner, a number of rollers are journaled side by side, each of said rollers preferably consisting of an outer wooden

portion 2 which may be externally grooved (Fig. 3) and a central pipe 3 of metal. At the periphery of each roller and preferably in the bottom of the groove in same if such are present, channels or holes 4 open. At a distance below the rollers and between the same as seen from above, stationary pipes 5 are arranged having discharge nozzles 6 on their sides. The pipes 3 as well as the pipes 5 communicate with branches from a common pipe 7 into which air is blown by means of a fan 8. The device now described may preferably be combined with an electrically driven and electrically heated washing machine (as shown) in such manner, that the washing receptacle 9 having heating elements 11 and being empty during the drying operation is connected to the suction pipe 10 of the fan 8 so as to heat the suction air. Preferably heating elements 12 may also be arranged in the branches of the discharge conduit 7. The fan 8 may be driven by means of a belt 13 from the driving motor 14 of the washing machine which motor also may be employed for rotating the rollers 2, 3. For this purpose, each of the said rollers at one of its ends carries a worm wheel 15 which engages with a worm 16, the common spindle of said worms being driven from the washing machine by a pulley transmission as shown.

The drying apparatus thus described is particularly intended for clothes of comparatively large dimensions such as sheets, table cloths and the like. The clothes are preferably suspended as shown in Fig. 3 their ends being fastened together by means of a clasp or the like so that the pieces may be rotated continually without falling off the rollers. In this way, all parts of the clothes are exposed successively to hot air currents from both sides whereby the drying will be readily effected.

Having now particularly described the nature of my invention and the manner of its operation, what I claim is:—

1. In apparatus for drying clothes and the like, in combination, rollers adapted to support the clothes, each roller being provided with longitudinal grooves in its surface, each roller having an interior longitudinal channel and cross channels or perforations leading from the former to the bottom of said longitudinal grooves, and means for leading air into said longitudinal

channel, whereby a current of air will be distributed over the surface of the clothes on the rollers.

2. In apparatus for drying clothes and the like, in combination, rollers adapted to support the clothes, each roller having an interior longitudinal channel and cross channels or perforations leading from the former to the peripheral surface of the roller, means for leading air into said longitudinal channel, whereby a current of air will be distributed over the surface of the clothes on the rollers, and stationary air pipes arranged below the rollers and adjacent to the clothes hanging from said rollers, said pipes having discharge nozzles directed toward the clothes.

3. In apparatus for drying clothes and

the like, in combination, rollers adapted to support the clothes, each roller having an interior longitudinal channel and cross channels or perforations leading from the former to the peripheral surface of the roller, means for leading air into said longitudinal channel, whereby a current of air will be distributed over the surface of the clothes on the rollers, and means for rotating said rollers, whereby the clothes will be rotated.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HJALMAR LÖFQUIST.

Witnesses:

GRETA PRINE,
BIRGER NORDFELDT.