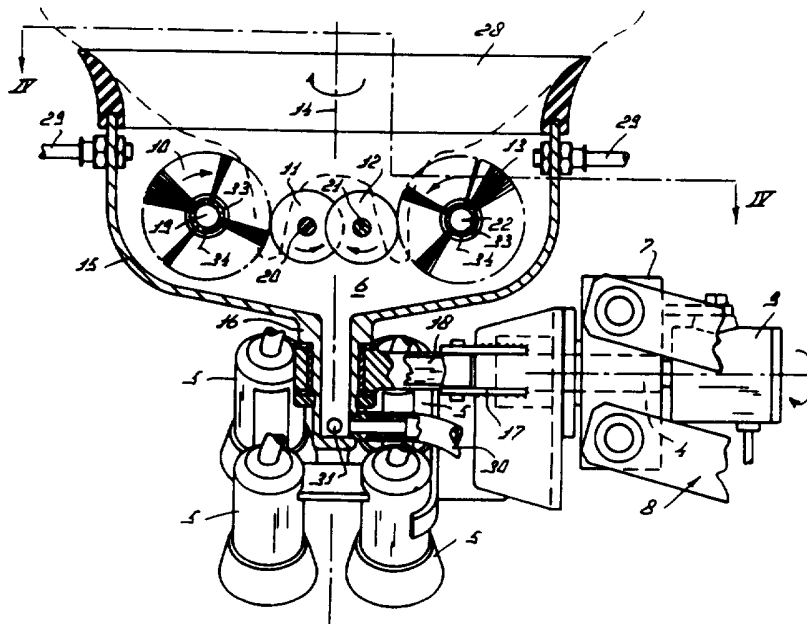




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>5</sup> :</b>  <b>A01J 7/00, A01K 13/00</b>	<b>A3</b>	<b>(11) International Publication Number:</b> <b>WO 93/06715</b>  <b>(43) International Publication Date:</b> 15 April 1993 (15.04.93)
<b>(21) International Application Number:</b> PCT/NL92/00170 <b>(22) International Filing Date:</b> 1 October 1992 (01.10.92)  <b>(30) Priority data:</b> 9101673                      4 October 1991 (04.10.91)      NL  <b>(71) Applicant (for all designated States except US):</b> TEXAS INDUSTRIES INC. [NL/NL]; 15 Pietermaai, Willemstad, Curaçao (AN).  <b>(72) Inventor; and</b> <b>(75) Inventor/Applicant (for US only) :</b> VAN DER LELY, Cornelis [NL/CH]; 7 Brüschenrain, CH-6300 Zug (CH).  <b>(74) Agent:</b> MULDER, Herman; 10 Weverskade, P.O. Box 26, NL-3155 ZG Maasland (NL).		<b>(81) Designated States:</b> DE, JP, US.  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>  <b>(88) Date of publication of the international search report:</b> 13 May 1993 (13.05.93)

**(54) Title:** AN IMPLEMENT FOR CLEANING TEATS OF MILK-PRODUCING ANIMALS



**(57) Abstract**

An implement for cleaning teats of milk-producing animals, such as cows, is provided with a computer having means for process control. With the aid of this computer, cleaning means are supplied to an animal's udder. During cleaning, with the aid of monitoring means the contamination of the used cleaning means is determined. When it has been established that the contamination of the cleaning means has come below a predetermined standard, the cleaning process is terminated and the milking process subsequently started.

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/NL 92/00170

<b>I. CLASSIFICATION OF SUBJECT MATTER</b> (If several classification symbols apply, indicate all) <sup>6</sup>		
According to International Patent Classification (IPC) or to both National Classification and IPC Int.Cl.5                      A 01 J      7/00                      A 01 K      13/00		
<b>II. FIELDS SEARCHED</b>		
Minimum Documentation Searched <sup>7</sup>		
Classification System	Classification Symbols	
Int.Cl.5	A 01 J                      A 01 K	
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched <sup>8</sup>		
<b>III. DOCUMENTS CONSIDERED TO BE RELEVANT<sup>9</sup></b>		
Category <sup>o</sup>	Citation of Document, <sup>11</sup> with indication, where appropriate, of the relevant passages <sup>12</sup>	Relevant to Claim No. <sup>13</sup>
P, X	EP, A, 0476771 (C. VAN DER LELY) 25 March 1992 see column 9, line 44 - line 51; figure 2	1-3
Y	---	4, 6, 7, 9 -11, 13- 19, 24, 26, 27, 29-31, 33
Y	FR, A, 2559351 (P. MARQUAIRE) 16 August 1985 see page 2, line 2 - line 30; figures	4, 6, 7, 9 -11, 13- 18, 33
Y	EP, A, 0323444 (C. VAN DER LELY N.V.) 5 July 1989 ---	19, 24, 26, 27, 29-31
	-/-	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><sup>o</sup> Special categories of cited documents : <sup>10</sup></p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&amp;" document member of the same patent family</p> </div> </div>		
<b>IV. CERTIFICATION</b>		
Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report	
12-01-1993	26. 03. 93	
International Searching Authority	Signature of Authorized Officer	
EUROPEAN PATENT OFFICE	Milena Mazuera Vargas	

III. DOCUMENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SECOND SHEET)		
Category °	Citation of Document, with indication, where appropriate, of the relevant passages	Relevant to Claim No.
A	EP,A,0277396 (MULTINORM B.V.) 10 August 1988 see column 3, line 7 - line 13; figure 3 ---	1,35
A	FR,A,2501965 (M. JARDIN) 24 September 1982 see page 4, line 13 - line 14; figures ---	21
A	WO,A,8900378 (TAITTOMETALLI OY) 26 January 1989 ---	
A	EP,A,0360354 (C. VAN DER LELY) 28 March 1990 -----	

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/NL92/00170

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See attached sheet.....

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

1. Claims: 1,35 and 2-4,6,7,9-19,21-24,26,27,29-31,33,34 as far as related to 1: Implement and method for cleaning teats of animals having monitoring means for cleaning means
2. Claims: 5 and 6,7,9-19,21-24,26,27,29-31,33,34 as far as related to 5: Implement for cleaning teats of animals having cleaning members which are operative in two positions
3. Claims: 8,28 and 9-19,21-24,26,27,29-31,33,34 as far as related to 8,28: Implement for cleaning teats of animals having brushes as cleaning members
4. Claims: 20 and 21-24,26,27,29-31,33,34 as far as related to 20: Implement for cleaning teats of animals having drying air supply means
5. Claims: 25 and 26,27,29-31,33,34 as far as related to 25: Implement for cleaning teats of animals having positioning means for cleaning members
6. Claims: 32 and 33,34 as far as related to 32: Implement for cleaning teats of animals having cleaning liquid supply means

In claims 1,35 and the relevant dependent claims the special technical feature is: monitoring means for determining the contamination of used cleaning means.

In claim 5 and the relevant dependent claims the special technical feature is: cleaning members which are operative in two positions.

In claims 8,28 and the relevant dependent claims the special technical feature is: brushes as cleaning members.

In claims 20 and the relevant dependent claims the special technical feature is: means for the supply of drying air.

In claim 25 and the relevant dependent claims the special technical feature is: means for positioning the cleaning members.

In claim 32 and the relevant dependent claims the special technical feature: means for the supply of cleaning liquid.

These special technical features are unrelated to each other as they make different contributions over the prior art resulting in completely independent solutions. A single general inventive concept is not present, therefore the requirement of unity of invention between claims 1,35 and 5 and 8,28 and 20 and 25 and 32 is not fulfilled.

**ANNEX TO THE INTERNATIONAL SEARCH REPORT  
ON INTERNATIONAL PATENT APPLICATION NO.**

NL 9200170

SA 65372

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on 23/03/93. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP-A- 0476771	25-03-92	NL-A- 9002047	16-04-92
FR-A- 2559351	16-08-85	None	
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		NL-A- 8500224	18-08-86
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